Department of Agriculture

The Program Specific Outcomes and Course Outcomes of all the Programmes

Program Name: M. Sc. Agriculture (Agronomy)

1. To understand crop growth analysis in relation to environment, lodging effects in cereals, ideotype of plant & crop modeling for desired crop yield and also about scientific principles of crop production. To study about resource conservation technology and organic farming.
2. To understand the harmful & beneficial effects of weeds, classification of weed, herbicides & agrochemical, weed management practices in major field & horticultural crops and also about integrated weed management and cost: benefit analysis of weed management.
3. To impart knowledge about soil fertility and its management and to understand the role of fertilizers and manures in supplying nutrients to plants so as to achieve high fertilizer use efficiency, soil fertility evaluation - biological methods, soil, plant and tissue tests and managing soil health.
4. To study the origin and history, area and production, classification, improved varieties, adaptability, climate, soil, water and cultural requirements, nutrition, quality components, handling and processing of the produce for maximum production of rabi and kharif cereal crops, millets and pulse crops.
5. To provide the different methods and objectives of irrigation in relation to plant water relationship, water management in problem soils and also to know the water resources and irrigation development in India and different states.
6. To study the scope of agricultural meteorology, meteorological factors in relation to crop production, crop weather calendars, weather forecasting and also about drought and general features of dynamical & statistical modeling techniques.
7. To understand the basic knowledge of hardware, software, operating system, computer languages and network along with internet and its application.
8. To study the origin and history, area and production, classification, improved varieties, adaptability, climate, soil, water and cultural requirements, nutrition, quality components, handling and processing of the produce for maximum production oilseed, fiber and sugar crops.

9. To acquaint the students about prevailing cropping systems in the country and practices to improve their productivity and also about sustainable agriculture, crop diversification and conservation agriculture.
10. To enable students to understand various types of soil erosion and measures to be taken for controlling soil erosion to conserve soil & water and also about watershed management, water harvesting and recycling.
11. To aware the students about organic farming in context to the use of bio-fertilizers, bio-pesticides, manures and vermin-compost for the production of agricultural crops and crop residue management and also about marketing and export potential, inspection, certification, labeling & accreditation procedures of organic produce.
12. To teach the basic concepts and practices of dry land farming, soil moisture conservation and crop planning for erratic and aberrant weather conditions

Course Outcome:

Course Code	Course	Course Outcome
AGR 501	Modern concepts in crop production	To understand crop growth analysis in relation to environment, lodging effects in cereals, ideotype of plant & crop modeling for desired crop yield and also about scientific principles of crop production. To study about resource conservation technology and organic farming.
SSC 503	Soil fertility and fertilizer	To impart knowledge about soil fertility and its management and to understand the role of fertilizers and manures in supplying nutrients to plants so as to achieve high fertilizer use efficiency, soil fertility evaluation - biological methods, soil, plant and tissue tests and managing soil health.
AGR 502	Principles and practices of weed management	To understand the harmful & beneficial effects of weeds, classification of weed, herbicides & agrochemical, weed management practices in major field & horticultural crops and also about integrated weed management and cost: benefit analysis of weed management.
AS -504	Statistical methods	To gain the knowledge of signification and scope of statistics, data collection and presentation, measure of central tendency, variability and correlation & regression of statistics in agricultural science.

ENG 505	Technical writing and communication skills	To enhance the communication and writing skills of Curricula vitae, note making, report writing and vocabulary and also gain the knowledge of precise writing.
Semester II		
AGR-506	Agronomy of major cereals and pulses	To study the origin and history, area and production, classification, improved varieties, adaptability, climate, soil, water and cultural requirements, nutrition, quality components, handling and processing of the produce for maximum production of rabi and kharif cereal crops, millets and pulse crops.
AGR 507	Principles and practices of water management	To provide the different methods and objectives of irrigation in relation to plant water relationship, water management in problem soils and also to know the water resources and irrigation development in India and different states.
AGR 508	Fundamentals of agricultural meteorology	To study the scope of agricultural meteorology, meteorological factors in relation to crop production, crop weather calendars, weather forecasting and also about drought and general features of dynamical & statistical modeling techniques.
SSC- 509	Analytical techniques and instrumental methods in Soil and plant analysis	To skill the students about soil sampling, commonly used instruments– their working, preparationsof common analytical reagents for qualitative and quantitative analysis of both soil as wellas plant samples.
AS 510	Experimental design	To gain the knowledge of signification and scope of statistics, test of hypothesis, analysis of variance, analysis of covariance, partitioning of degree of freedom and basic principles of design.
COM -511	Fundamentals of information technology	To understand the basic knowledge of hardware, software, operating system, computer languages and network along with internet and its application.

Semester-III		
AGR: 509	Agronomy of oilseed, fiber and sugar crops	To study the origin and history, area and production, classification, improved varieties, adaptability, climate, soil, water and cultural requirements, nutrition, quality components, handling and processing of the produce for maximum production oilseed, fiber and sugar crops.
AGR 511	Cropping systems and sustainable agriculture	To acquaint the students about prevailing cropping systems in the country and practices to improve their productivity and also about sustainable agriculture, crop diversification and conservation agriculture.
SOILS- 510	Soil – Water – Plant Relationships	To enable students to understand the how plant survive in different conditions, water uptake , ET etc.
Semester-IV		
AGR- 513	Principles and practices of organic farming	To aware the students about organic farming in context to the use of bio-fertilizers, bio-pesticides, manures and vermicompost for the production of agricultural crops and crop residue management and also about marketing and export potential, inspection, certification, labeling & accreditation procedures of organic produce.
AGR- 512	Dryland farming and watershed management	To teach the basic concepts and practices of dry land farming, soil moisture conservation and crop planning for erratic and aberrant weather conditions.

M.Sc. Agriculture (Horticulture – Fruit Science)

1. To provide deep knowledge of the importance, origin, botany, taxonomy, climatic and soil requirement, improved varieties/hybrids, seed rate and seed treatment, sowing/planting time and method of fertilizer and irrigation requirement, intercultural operations and weed control, physiological disorders, plant protection measures, harvesting and post-harvest management of tropical fruit crops.
2. To introduce the key concepts, practices and practical knowledge of production technology and also postharvest management of winter season vegetables crops.
3. To impart knowledge about soil fertility and its management and to understand the role of fertilizers and manures in supplying nutrients to plants so as to achieve high fertilizer use efficiency, soil fertility evaluation - biological methods, soil, plant and tissue tests and managing soil health.
4. To introduce the key concepts, practices and practical knowledge of production technology and also postharvest management of temperate fruit crops.
5. To facilitate deeper understanding on the propagation techniques,nursery raising techniques, raising virus free seedlings.
6. To provide deep knowledge of the role of genetics, breeding systems and methods, tissue culture and also biotechnological techniques and molecular breeding in relation to improvement in fruit crops.
7. To skill the students about soil sampling, commonly used instruments– their working, preparationsof common analytical reagents for qualitative and quantitative analysis of both soil as wellas plant samples.
8. To gain the knowledge of signification and scope of statistics, test of hypothesis, analysis of variance, analysis of covariance, partitioning of degree of freedom and basic principles of design.
9. To understand the basic knowledge of hardware, software, operating system, computer languages and network along with internet and its application.
10. To provide deep knowledge of theprinciples of biodiversity and strategies in germplasm conservation of fruit crops, plant quarantine, GIS and documentation of local biodiversity.
11. To impart knowledge about the nutritive value of different fruit crops, nutritional disorders, evaluation of nutrient status in orchards.
12. To educate about harvesting, disposal and marketing of orchard produce,theoretical aspects ,cropping systems and developing skills in orchard management of fruit crops.

13. To facilitate deeper understanding on carbohydrate, protein, lipids, fats vitamins and minerals, plant pigments, antioxidant and phyto-chemicals role in various horticultural crops.
14. To facilitate deeper understanding on maturity, ripening, quality management, storage, packaging, drying, dehydration, utilization of fruit and vegetable processing waste and marketing and export of fresh and processed products of fruits and vegetables
15. Understanding the principles, theoretical aspects and developing skills in protected cultivation of fruit crops and to develop understanding of organic horticulture production system.

Outcomes

Course Code	Course	Course Outcome
Semester-I		
FSC 501	Tropical fruits	To provide deep knowledge of the importance, origin, botany, taxonomy, climatic and soil requirement, improved varieties/hybrids, seed rate and seed treatment, sowing/planting time and method of fertilizer and irrigation requirement, intercultural operations and weed control, physiological disorders, plant protection measures, harvesting and post-harvest management of tropical fruit crops.
FSC 502	Subtropical fruits	To introduce the key concepts, practices and practical knowledge of production technology and also postharvest management of winter season vegetables crops.
SSC- 503	Soil fertility and fertilizer	To impart knowledge about soil fertility and its management and to understand the role of fertilizers and manures in supplying nutrients to plants so as to achieve high fertilizer use efficiency, soil fertility evaluation - biological methods, soil, plant and tissue tests and managing soil health.
AS **-504**	Statistical Methods	To gain the knowledge of signification and scope of statistics, data collection and presentation, measure of central tendency, variability and correlation & regression of statistics in agricultural science.
ENG – **505**	Technical Writing and Communication skills	To enhance the communication and writing skills of Curricula vitae, note making, report writing and vocabulary and also gain the knowledge of precise writing.

Semester-II		
FSC 506	Temperate fruits and nut	To introduce the key concepts, practices and practical knowledge of production technology and also postharvest management of temperate fruit crops.
FSC 507	Propagation and nursery management for fruit crops	To facilitate deeper understanding on the propagation techniques,nursery raising techniques, raising virus free seedlings.
FSC 508	Breeding of fruit crops	To provide deep knowledge of the role of genetics, breeding systems and methods, tissue culture and also biotechnological techniques and molecular breeding in relation to improvement in fruit crops.
SSC509	Analytical techniques and instrumental methods in Soil and plant analysis	To skill the students about soil sampling, commonly used instruments– their working, preparationsof common analytical reagents for qualitative and quantitative analysis of both soil as wellas plant samples.
AS 510	Experimental Design	To gain the knowledge of signification and scope of statistics, test of hypothesis, analysis of variance, analysis of covariance, partitioning of degree of freedom and basic principles of design.
COM **-511**	Fundamentals of Information Technology	To understand the basic knowledge of hardware, software, operating system, computer languages and network along with internet and its application.
Semester-III		
FSC 512	Biotechnology of horticultural crops	To impart knowledge about the basic principles of biotechnology methods of different fruit crops,majors achievement to helps in fruit crops, culturing techniques etc.
FSC 514	Biodiversity and conservation of fruit crops	To provide deep knowledge of theprinciples of biodiversity and strategies in germplasm conservation of fruit crops, plant quarantine, GIS and documentation of local biodiversity.
FBC-513	Food biochemistry	To facilitate deeper understanding on carbohydrate, protein, lipids, fats vitamins and minerals, plant pigments, antioxidant and phyto-chemicals role in various horticultural crops.

Semester-IV		
FSC 516	Postharvest technology of fruit and vegetable crops	To facilitate deeper understanding on maturity, ripening, quality management, storage, packaging, drying, dehydration, utilization of fruit and vegetable processing waste and marketing and export of fresh and processed products of fruits and vegetables
FSC 517	Protected cultivation and organic horticulture	Understanding the principles, theoretical aspects and developing skills in protected cultivation of fruit crops and to develop understanding of organic horticulture production system.

M. Sc. Agriculture(Genetics and Plant Breeding)

1. Genetics students learn about different cell organelles genomic structureunder the unit of cell biology and genetics. Students known about different types of lowers plants such as algae, fungi, Bryophyte pteridophyta that indicates the evolution in plants.

2. Analyzes the historical evolution of plant breeding, knowing which have been the key scientific and technical advances that have influenced its development or accelerated its results.
3. Knows the different plant reproduction systems, how they affect genetic variability and how they condition the strategies and processes of selection and breeding.
4. Has a deeper insight into the genetic basis supporting plant breeding, from the individual gene to the complete genome.
5. Knows the aim of the genome analysis projects of certain model plant species and the possibilities offered by their comparison with the genomes of other species of agronomic interest.
6. Understands the importance of identifying genes, isolating them, determining their function and controlling their expression.
7. Can identify genetic variability, locating the genetic regions associated with traits of interest for breeding, and determining the connection between phenotypic and genetic variability.
8. Considers the importance of plant genetic resources as a source of variability in plant breeding programmes, and knows the appropriate processes for their collection, conservation, evaluation and use.
9. They are able to understand about environmental problems along with findingsolutions. They learnt about economic value of plant.
10. Students are able to learn about Anatomy and physiology of embryology of various types of plants.
11. Students are known about different types of nutrition which are applied in growth ofplants.
12. Students are able to known about characteristic of various plants and classification ofdifferent plant groups to \understand the different taxonomic group and evolutionary.

13. Determine economic in agricultural plant.
14. Understand the environments and basic concept of taxonomy, ecology.
15. Analysis the relationship between plant species.
16. Understand the plant disease, chemical properties and evolutionary relationship among taxonomic groups.
17. Utilize scientific methods to explore natural phenomena.
18. Develop a solid foundation in agricultural botany.
19. Develop basic laboratory skills necessary for agricultural research.
20. Develop base of knowledge in molecular biology to qualify for upper divisional study.
21. Exhibit effective oral and written communication skills.
22. Develop critical reading, thinking and problem solving skills

Outcomes

Course Code	Course	Course Outcome
	Semester-I	
GPB501	Principles of genetics	This course is aimed at understanding the basic concepts of genetics, helping students to develop their analytical, quantitative and problem solving skills from classical to molecular genetics.
GPB 502	Principles of plant breeding	To impart theoretical knowledge and practical skills about plant breeding objectives, modes of reproduction and genetic consequences, breeding methods for crop improvement.
GPB 503	Principles of cytogenetics	To provide insight into structure and functions of chromosomes, chromosome mapping, polyploidy and cytogenetic aspects of crop evolution.
AS -504	Statistical methods	To gain the knowledge of signification and scope of statistics, data collection and presentation, measure of central tendency, variability and correlation & regression of statistics in agricultural science.
ENG505	Technical writing and communication skills	To enhance the communication and writing skills of Curricula vitae, note making, report writing and vocabulary and also gain the knowledge of precise writing.
	Semester-II	
GPB 506	Principles of quantitative genetics	To impart theoretical knowledge and computation skills regarding component of variation and variances, scales, mating designs and gene effects
GPB 507	Mutagenesis and mutation breeding	To impart the knowledge about general principles of radiation and various tests/methods for detection of

		radiation effects on the living cells, genetic risks involved and perspectives of advances made.
GPB 508	Cell biology and molecular genetics	To impart knowledge in theory and practice about cell structure, organelles and their functions, molecules like proteins and nucleic acids.
AS 510	Experimental design	To gain the knowledge of signification and scope of statistics, test of hypothesis, analysis of variance, analysis of covariance, partitioning of degree of freedom and basic principles of design.
COM -511	Fundamentals of information technology	To understand the basic knowledge of hardware, software, operating system, computer languages and network along with internet and its application.
Semester-III		
GPB 509	Breeding for biotic and abiotic stress resistance	To apprise about various abiotic and biotic stresses influencing crop yield, mechanisms and genetics of resistance and methods to breed stress resistant varieties.
SST-501	Principles of seed production	To introduce the basic principles of quality seed production.
GPB510	Heterosis breeding	To provide understanding about mechanisms of heterosis and its exploitation for yield improvement through conventional and biotechnological approaches.
Semester-IV		
GPB 511	Maintenance breeding and concepts of release varieties	To appraise the students about the variety deterioration and steps to maintain the purity of varieties & hybrids and principles of seed production in self and cross pollinated crops.
GPB 513	Breeding for quality traits	To provide insight into recent advances in improvement of quality traits in rice, millets, legumes, oilseeds and forage crops and for physiological efficiency using conventional and modern biotechnological approaches.

M.Sc. Ag. Soil Science & Agricultural Chemistry

1. To provide knowledge about basic structure of clay minerals and genesis of clay minerals; soil genesis in terms of factors and soil forming process, and to enable students conduct soil survey, interpret soil survey reports in terms of land use planning and knowledge about soils of India.
2. To impart knowledge about soil physics, physical characterization of soil, flow of water in soil; saturated and unsaturated flow, entry of water into soil and its redistribution, Soil aeration and to understand about soil physics in relation to plants.
3. To impart knowledge about soil fertility and its management and to understand the role of fertilizers and manures in supplying nutrients to plants so as to achieve high fertilizer use efficiency, soil fertility evaluation - biological methods, soil, plant and tissue tests and managing soil health.
4. To proficiency the students about problematic soils in the country and their management through different methods, quality of irrigation water and management.
5. To expertise students to understand various types of soil erosion and measures to be taken for controlling soil erosion to conserve soil and Watershed management.
6. To learning deeper understanding about soil and water resources, pollution and its impact on agricultural crops and management of soil and water pollution;
7. Physical, chemical and biological remediation of soil and water pollution, waste water treatment.
8. To familiarity the soil biota, microbial activity, microbial transformations of nitrogen, phosphorus, sulphur, iron
9. Manganese in the soil and their importance in sustainable crop production.
10. To awareness about the manures and fertilizers production
11. Importance in sustainable crop production, long term effect of manures and fertilizers on soil and integrated nutrient management.

Outcomes

Course Code	Course	Course Outcome
Semester I		
SSC- 501	Soil Mineralogy, Genesis, Classification and Survey	To provide knowledge about basic structure of clay minerals and genesis of clay minerals; soil genesis in terms of factors and soil forming process, and to enable students conduct soil survey, interpret soil survey reports in terms of land use planning and knowledge about soils of India.
SSC- 502	Fundamentals of soil physics	To impart knowledge about soil physics, physical characterization of soil, flow of water in soil; saturated and unsaturated flow, entry of water into soil and its redistribution, Soil aeration and to understand about soil physics in relation to plants.
SSC- 503	Soil fertility and	To impart knowledge about soil fertility and its

	fertilizer	management and to understand the role of fertilizers and manures in supplying nutrients to plants so as to achieve high fertilizer use efficiency, soil fertility evaluation - biological methods, soil, plant and tissue tests and managing soil health.
AS -504	Statistical methods	To gain the knowledge of signification and scope of statistics, data collection and presentation, measure of central tendency, variability and correlation & regression of statistics in agricultural science.
ENG 505	Technical writing and communication skills	To enhance the communication and writing skills of Curricula vitae, note making, report writing and vocabulary and also gain the knowledge of precise writing.
Semester II		
AGR-506	Agronomy of major cereals and pulses	To provide knowledge about the Origin and history, area and production, classification, improved varieties, adaptability, climate, soil, water and cultural requirements, nutrition, quality components, handling and processing of cereals and pulse crops.
SSC- 507	Soil chemistry	To impart knowledge about the soil chemistry, elemental composition of the earth‘s crust and soils, soil colloids, Ion exchange processes in soil and its relation to plant growth and development.
SSC- 508	Management of problem soils and water	To proficiency the students about problematic soils in the country and their management through different methods, quality of irrigation water and management.
SSC- 509	Analytical techniques and instrumental methods in Soil and plant analysis	To skill the students about soil sampling, commonly used instruments– their working, preparations of common analytical reagents for qualitative and quantitative analysis of both soil as well as plant samples.
AS 510	Experimental design	To gain the knowledge of signification and scope of statistics, test of hypothesis, analysis of variance, analysis of covariance, partitioning of degree of freedom and basic principles of design.
COM -511	Fundamentals of information technology	To understand the basic knowledge of hardware, software, operating system, computer languages and network along with internet and its application.
Semester III		
SOILS- 510	Soil – Water – Plant Relationships	To enable students to understand the how plant survive in different conditions, water uptake, ET etc.

SOILS- 511	Soil and water pollution	To learning deeper understanding about soil and water resources, pollution and its impact on agricultural crops and management of soil and water pollution; Physical, chemical and biological remediation of soil and water pollution, waste water treatment.
AGRON-509	Agronomy of oil seed, fibre and sugar crops	To teach the Origin and history, area and production, classification, improved varieties, adaptability, climatic, soil, nutrient, water, cultural requirements, weed management, quality components, handling and processing of oilseed, fiber and sugar crops.
Semester IV		
SOILS- 512	Soil microbiology	To familiarity the soil biota, microbial activity, microbial transformations of nitrogen, phosphorus, sulphur, iron and manganese in the soil and their importance in sustainable crop production.
SOILS- 513	Manures and fertilizers	To awareness about the manures and fertilizers production and their importance in sustainable crop production, long term effect of manures and fertilizers on soil and integrated nutrient management.

M. Sc. Agriculture (Horticulture - Vegetable Science)

1. To introduce learners the key concepts, practices and practical knowledge of production technology and also postharvest management of winter season vegetables crops.
2. To pioneer student the explanation of the concept and physiology of growth and development of vegetable crops and also Plant growth regulators in relation to vegetable production.
3. To teach morphological, cytological and molecular taxonomy of different families, genera and species of vegetable crops.
4. To impart knowledge about soil fertility and its management and to understand the role of fertilizers and manures in supplying nutrients to plants so as to achieve high fertilizer use efficiency, soil fertility evaluation - biological methods, soil, plant and tissue tests and managing soil health.
5. To introduce the key concepts, practices and practical knowledge of production technology and also postharvest management of winter season vegetables crops
6. To give notice the students about importance, principles, methods of quality seed and planting material production in vegetable crops and the recent trends in the certification, processing and storage of vegetable crops
7. To skill the students about soil sampling, commonly used instruments– their working, preparationsof common analytical reagents for qualitative and quantitative analysis of both soil as wellas plant samples.

8. To educate the scope and perspective of protected cultivation, Problem of growing vegetable crops their remedies and insect, pest and disease management in protected structures and also provide the knowledge of organic farming in context of importance, principles, perspective, concept, component of organic production of vegetable crops and methods for enhancing soil health and fertility
9. To facilitate deeper understanding on maturity, ripening, quality management, storage, packaging, drying, dehydration, utilization of fruit and vegetable processing waste and marketing and export of fresh and processed products of fruits and vegetables

Outcomes

Course Code	Course	Course Outcome
Semester I		
VSC-501	Production technology of winter season vegetable crops	To introduce learners the key concepts, practices and practical knowledge of production technology and also postharvest management of winter season vegetables crops.
VSC-502	Growth and development of vegetable crops	To pioneer student the explanation of the concept and physiology of growth and development of vegetable crops and also Plant growth regulators in relation to vegetable production.
VSC-506	Systematic of vegetable crops	To teach morphological, cytological and molecular taxonomy of different families, genera and species of vegetable crops.
SSC- 503	Soil fertility and fertilizer	To impart knowledge about soil fertility and its management and to understand the role of fertilizers and manures in supplying nutrients to plants so as to achieve high fertilizer use efficiency, soil fertility evaluation - biological methods, soil, plant and tissue tests and managing soil health.
AS -504	Statistical Methods	To gain the knowledge of signification and scope of statistics, data collection and presentation, measure of central tendency, variability and correlation & regression of statistics in agricultural science.
ENG- 505	Technical writing and communication skills	To enhance the communication and writing skills of Curricula vitae, note making, report writing and vocabulary and also gain the knowledge of precise writing.
Semester II		

VSC-507	Production technology of summer season vegetable crops	To introduce the key concepts, practices and practical knowledge of production technology and also postharvest management of winter season vegetables crops
VSC-508	Breeding of vegetable crops	To provide deep knowledge of the role of genetics, breeding systems and methods, tissue culture and also biotechnological techniques and molecular breeding in relation to improvement in vegetable crops and also to study about procedure for release of new varieties and different IPR acts like PPV& FR
VSC-512	Seed production technology of vegetable crops	To give notice the students about importance, principles, methods of quality seed and planting material production in vegetable crops and the recent trends in the certification, processing and storage of vegetable crops
SSC- 509	Analytical techniques and instrumental methods in Soil and plant analysis	To skill the students about soil sampling, commonly used instruments– their working, preparationsof common analytical reagents for qualitative and quantitative analysis of both soil as wellas plant samples.
AS- 510	Experimental Design	To gain the knowledge of signification and scope of statistics, test of hypothesis, analysis of variance, analysis of covariance, partitioning of degree of freedom and basic principles of design.
COM -511	Fundamentals of Information Technology	To understand the basic knowledge of hardware, software, operating system, computer languages and network along with internet and its application
Semester III		
VSC-513	Production technology of under exploited and underutilized vegetable crops	To provide deep knowledge of the importance, origin, botany, taxonomy, climatic and soil requirement, improved varieties/hybrids, seed rate and seed treatment, sowing/planting time and method of fertilizer and irrigation requirement, intercultural operations and weed control, physiological disorders, plant protection measures, harvesting and post-harvest management of under exploited and underutilized vegetable crops
VSC-514	Forcing techniques and organic vegetable production	To educate the scope and perspective of protected cultivation, Problem of growing vegetable crops their remedies and insect, pest and disease management in

	technology	protected structures and also provide the knowledge of organic farming in context of importance, principles, perspective, concept, component of organic production of vegetable crops and methods for enhancing soil health and fertility
FBC-513	Food Biochemistry	To facilitate deeper understanding on carbohydrate, protein, lipids, fats vitamins and minerals, plant pigments, antioxidant and phyto-chemicals role in various horticultural crops.
Semester IV		
PHT 514	Postharvest technology of fruit and vegetable crops	To facilitate deeper understanding on maturity, ripening, quality management, storage, packaging, drying, dehydration, utilization of fruit and vegetable processing waste and marketing and export of fresh and processed products of fruits and vegetables

B.Sc. (Hons) Agriculture

Learning outcomes for the agriculture undergraduate program

- Students will demonstrate the ability to analyze data and draw appropriate statistical conclusions.
- Students will demonstrate the ability to communicate effectively both orally and in writing.
- Students will demonstrate knowledge of the legal and ethical environment impacting agriculture organizations and exhibit an understanding and appreciation of the ethical implications of decisions.
- Students will demonstrate an understanding of and appreciation for the importance of the impact of globalization and diversity in modern agriculture organizations.
- Students will demonstrate an ability to engage in critical thinking by analyzing situations and constructing and selecting viable solutions to solve problems.
- Students will demonstrate an ability to work effectively with others.
- Students will understand and analyze the current events and issues that are occurring in agriculture and how they affect your future in agriculture.
- Students will be able to recognize and examine the relationships between inputs and outputs in their agricultural field to make effective and profitable decisions.
- Students will understand how all aspects of agriculture combine and are used by scientists, marketers, and producers.
- Students will understand how employer characteristics and decision-making at various levels enhance the success of an agricultural enterprise.

- Students will be able to demonstrate critical thinking and problem solving skills as they apply to a variety of animal and or plant production systems.

Course Code	Course	Course Outcome
Semester-I		
AGR-111	Introductory Agriculture	To know about basic knowledge of agriculture related revolution, institutes and new technology.
AGM-112	Introductory Agro-meteorology	To study the impact of climatic factors and weather hazards on crops, livestock distribution and production.
MBL-113	Elementary Microbiology	To study the history, application, discovery and role of different micro-organism in agriculture and also to study the role of microbes C, N, P and S cycles.
SSC-114	Introduction to Soil Science	To learn about elementary knowledge of soil composition, soil forming factors, soil profile, soil physical properties and taxonomical classification in relation to soils of Punjab and Indian context.
AGE-115	Principles of Agricultural Economics	To enhance the knowledge of principles and laws of economics in the field of agriculture in relation to study the behaviour of consumer and producer in competitive firms of agriculture marketing.
BOT-116*	Basic Botany	To study the systematic and taxonomical classification of different plant kingdom along with their morphological and anatomical characteristics.
MAT–116*	Basic Mathematics	To gain the knowledge of complex number, sequence & series, arithmetic & geometric mean also learn about binomial theorem and trigonometry.
ENG - 117	English Communication Skills	To enhance the communication and writing skills of Curricula vitae, note making, report writing and vocabulary and also gain the knowledge of poetry and prose section.
FSC-119	Fundamentals of Horticulture	To provide basic knowledge of horticultural branches and their scope and also enhance the knowledge about horticultural and botanical classification, different zones, propagation methods, irrigation and fertigation application in relation to horticultural crops.
GPB - 118	Basic Punjabi/ Compulsory	To keep in touch the students of Punjab and other states with the basic knowledge of Punjabi language (Mother tongue of Punjab)

BPB–118**	Punjabi	
Semester-II		
AGR-121	Water Management and Micro Irrigation	To provide the different methods and objectives of irrigation in relation to plant water relationship and also to know the water resources and irrigation development in India and Punjab.
EXT-122	Dimensions of Agricultural Extension	To extend the scientific knowledge of researcher to the farmers through different extension programs (Visits, training and seminars) organized by different government and non-governmental organization.
PBG-123	Principles of Genetics	To provide primary knowledge of the role of gene/DNA in agriculture crops through studying basic principles of Medals, cell structure, chromosomal structure, DNA structure, gene expression and chromosomal aberrations.
SSC-124	Soil Chemistry, Soil Fertility and Nutrient Management	To ponder about the question related to application of essential plant nutrient, deficiency and their toxicity symptoms and to study the different soil testing methods and reclamation techniques of problematic soils.
VSC-125	Vegetable Production Technology	To know the origin, classification, area, production, nursery raising and cultivation practices of various vegetable crops.
ICA - 126	Introduction to Computer application	To understand the basic knowledge of hardware, software, operating system, computer languages and network along with internet and its application.
ZOO - 127*	Basic Zoology	To study about the prokaryotic and eukaryotic cell, tissue and binomial nomenclature, classification and general survey of animal kingdom.
MAT–127*	Basic Mathematics	To gain the knowledge of function, evaluation of algebraic limits, continuity, integration and derivatives.
GPB-128 BPG–128**	Basic Punjabi** / Compulsory Punjabi	To keep in touch the students of Punjab and other states with the basic knowledge of Punjabi language (Mother tongue of Punjab)
EVS-129	Environment and Road Safety	To impart the knowledge about natural resources, ecosystem, biodiversity, various types of environmental pollution, road

	Awareness	safety awareness and stubble burning.
DAS-130	Drug Abuse: Problem, Management and Prevention	To impart knowledge about different problems, effects, symptoms, causes, consequences, management and prevention of drug abuse.
Semester-III		
AGRON - 301	Principles of Agronomy (Kharif Crops)	To study the agronomical practices of cereal crops, millets, pulse crops, fibre crops, oilseed crops and forage crops and to know about the scope and importance of agronomy, tillage practice, cropping systems and planting geometry.
BOT-302	Crop Physiology	To understand the importance of physiological and harvestable maturity of seeds, seed structures and morphological and biochemical changes occurring during seed development along with the basic physiological processes of C_3, C_4 and CAM plants.
ENT-303	Insect Morphology and Systematics	To understand the morphology, taxonomic classification and anatomy of insect-pest and to study the modification and function of different parts of insect.
EXTN-304	Extension Methodologies and Communication Skills for Transfer of Technology	To study the principles and programme development process of extension programmes with innovative information sources and audio visual aids and scope and importance of journalism.
AGRON -305	Farm Power and Machinery	To gain the knowledge different farm resources, working principles of two stroke /four stroke engine, tractor, pumps and farm implements.
SOILS-306	Manures and Fertilizers	To study the concept of essential plant nutrients, classification and manufacturing of manures and fertilizers along with the merits and demerits of bio-fertilizers.
HORT-307	Production technology of fruit crops	To provide knowledge about importance, horticultural divisions, agro-climatic zones, planting systems, propagation methods and cultivation practices of major and minor fruit crops.
SOILS-308	Soil physics and erosion management	To study about the soil water potential, water table, soil- plant-atmosphere continuum, plant water indices, soil moisture, erosion and conservation measures.

PATH-309	Plant pathogens and principles of plant pathology	To understand the importance and general characters of fungi, bacteria, viruses, algae and protozoa in context to the plant diseases and their management.
Semester-IV		
AGRON - 401	Principles of Agronomy-II (Rabi Crops)	To study the origin, geographic distribution, botanical description, economic importance, soil and climatic requirement, varieties, cultural practices, yield, major insect pest and diseases of rabi crops.
ECON-402	Production Economics, Farm Management and Agricultural Finance	To introduce the students issues related with agricultural finance, markets, food security and international trade in agricultural commodities and also extend the knowledge of recent development in Indian agriculture.
ENT-403	Insect Ecology and Integrated Pest Management	To study focus on introduction of insect ecology, their biotic potential environmental resistance and causes of pest outbreaks along with pest surveillance, forecasting and control measures.
LPM-404	Livestock Production and Management	To provide knowledge regarding breeds of cattle, buffalo, sheep, goat and swine in India and also to study the measures and factors affecting fertility in Livestock.
BOT-405	Principles of Seed Technology	To aware the students about the importance of seed production, different techniques, maintenance of genetic purity and seed certification along with the intellectual property rights.
EXTN-406	Rural Sociology and Education Psychology	To provide the knowledge of social groups, stratification, social institution, social chain and significance of rural sociology in agricultural extension.
PATH-407	Diseases of Field Crops and their	To study about the economic importance, symptoms, causal organism, epidemiology, disease cycle and integrated management of diseases of field crops.

	Management	
SOILS - 408	Organic Farming	To aware the students about organic farming in context to the use of bio-fertilizers, bio- pesticides, manures and vermicompost for the production of agricultural crops.
SOILS – 409	Fundamental of Soil and Water Conservation Engineering	To provide knowledge regarding surveying, levelling equipments, water harvesting, irrigation projects and conservation of soil and water.
Semester-V		
ZOO - 501	Dairy Technology	To provide the knowledge of milk, composition of milk, physical, chemical and nutritive properties, bacteriology of milk and also to study about adulteration of milk and its detection.
STAT - 502	Basic Statistics	To gain the knowledge of signification and scope of statistics, data collection and presentation, measure of central tendency, variability and correlation & regression of statistics in agricultural science.
GPB- 503	Introduction to Plant Breeding	To provide primary knowledge of the role of genetics, breeding methods, tissue culture techniques in relation to crop improvement and also to study about procedure for release of new varieties.
ZOO- 504	Economic Zoology and Fish Culture	To understand the importance and general characters of animals, ticks, mites, birds wild boar, bat, rodents, fish and earthworm with special references to Punjab and also to study the rearing and breeding techniques in fish farming.
AGRON -505	Rainfed Agriculture	To provide knowledge regarding drought, tolerance and management practices, selection of suitable crops, moisture conservation techniques and water shed management practices in Rainfed areas.
HORT- 506	Medicinal and Aromatic Crops	To provide knowledge about importance, origin, distribution, climate and soil requirement, propagatiom and nursery technique, planting, cultural practices, nutritional and water requirement, plant protection, harvesting and processingof medicinal and aromatic crops.
PATH- 507	Mushroom Cultivation	To aware the students about mushroom cultivation in context to Morphological features, taxonomy and identification of poisonous, Hallucinogenic and medicinal mushrooms. Preparation of pure culture, spawn, substrate and storage of spawn and also to study about post harvest treatments and preservation of mushroom.
AGRON - 508	Weed Management	To understand the harmful & beneficial effects of weeds, classification of weed, herbicides and agrochemical and also to

		study the weed management practices in major field and horticultural crops.
Semester-VI		
HORT-601	Spices and plantation crops	To provide knowledge about origin, distribution, area, production, botany, variety, climate, soil, propagation, nursery management, site selection, layout, planting, crop management, harvesting and yield of Spices and plantation crops.
HORT-602	Post Harvest Technology of Horticultural Crops	To aware the students about the importance, scope and causes of postharvest losses and also to study the pre and post harvest factor to affect the quality of horticultural crops. Preparation of Jam, jelly, marmalade, preserve, candy, Fermented and non-fermented beverages.
PATH-603	Diseases of fruit and vegetables crops	To study about the economic importance, symptoms, causal organism, epidemiology, disease cycle and integrated management of diseases of horticultural crops.
HORT. 604	Protected Cultivation of Horticultural Crops	To provide knowledge about greenhouse, basics of greenhouse design, different types of structures, interaction of light, temperature, humidity and CO_2 on crop regulation, heating, cooling, ventilation and shading in poly house and also to study the cultivation of commercial horticultural crops.
HORT-605	Landscaping and ornamental horticulture	To provide primary knowledge of the landscape, garden, edges and hedges, climbers and creepers, cacti and succulents, herbs, annuals, flower borders and beds, ground covers, carpet beds, bamboo groves, lawn, bio-aesthetic planning, eco-tourism, theme parks and indoor gardening.
ECON-606	Agricultural Pest Management	To study about the systematic position, identification, distribution, host range, bionomics and seasonal abundance, nature and extent of damage and management of insect pest of various field and horticultural crops.
AGRON - 607	Farming system and Sustainable Agriculture	To aware the students about farming system, Crop diversification, Sustainable agriculture,land degradation and conservators of nat ural resources and visit to an organic farm to study various components and its utilization in agriculture field.
AGRON -608	Silviculture and Agro-forestry	To study the concept of silviculture, forestry, Role of forests, forest types, regeneration of forests, agro-forestry, classification of agro-forestry & social forestry system and also to provide the knowledge about cultivation of teak, sal, eucalyptus and poplar trees.
BAG-604	Agricultural Marketing	To aware the students about marketing nature, type, demand and supply etc.

Semester-VII		
GEN-701	Principles of plant biotechnology	To provide knowledge about Plant Tissue Culture, Plant Genetic Engineering, Somatic embryogenesis and synthetic seed also about Blotting techniques, DNA finger printing, DNA based markersand its application in crop improvement.
GEN-702	Fundamentals of farm business management	To aware the students about the importance of Agribusiness in the Indian Economy, Agricultural Policy, Financial Management of Agribusiness, Marketing Management and also about various activities in agriculture and allied sectors: Dairying, poultry, fisheries and agro-industries.
HORT-701	Introductory horticulture	To provide basic knowledge of horticultural branches and their scope and also enhance the knowledge about horticultural and botanical classification, different zones, propagation methods, kitchen gardening, plant growth regulators, irrigation and fertigation application in relation to horticultural crops also about export and marketing of horticultural produce.
HORT-702	Protected cultivation of horticultural crops	To provide knowledge about greenhouse, basics of greenhouse design, different types of structures, interaction of light, temperature, humidity and CO_2 on crop regulation, heating, cooling, ventilation and shading in poly house and also to study the cultivation of commercial horticultural crops.
GPB - 701	Principles of genetics	To provide knowledge of laws of Mendel, DNA structure, gene expression, linkage, extra chromosomal inheritance and fine structure of gene.
GPB-702	Principles of plant breeding	To provide primary knowledge of principles and objectives of plant breeding, breeding methods, Evolution patterns in crop plants, pure line theory, pure line selection and mass selection and also to study about procedure for release of new varieties and concept of plant ideotype and its role in crop improvement.
AGRON - 701	Principles of agronomy	To study the concept of agronomy, classification, factors affecting crop production, role of manures and fertilizers, tillage and irrigation in crop production and also about zones of India and Punjab and integrated farming system.
AGRON - 703	Modern concepts in crop production	To understand crop growth analysis in relation to environment, lodging effects in cereals, ideotype of plant &crop modelling for desired crop yield and also aboutscientific principles of crop production.
SOIL-701	Introduction to soil	To learn about elementary knowledge of soil composition, soil forming factors, soil profile, soil physical properties and

		classification soil structures, movement of soil water, thermal properties of soils and also aboutfeatures of of problematic soils and their reclamation .
SOIL-702	Management of problematic soil and water	To study of area and distribution, morphological features of of problem soils and also about the reclamation of problematic soils.
Semester-VIII		
HORT-703	Post harvest technology of fruits, vegetables and flower crops	To aware the students about the importance, scope and causes of postharvest losses and also to study the pre and post harvest factor to affect the quality of horticultural crops. Preparation of Jam, jelly, marmalade, preserve, candy, Fermented and non-fermented beverages and also about utilization of fruit and vegetable processing waste, drying and dehydration of fruits, vegetables and flowers.
HORT-704	Propagation and nursery management	To aware the students about nursery management, principles and factors influencing seed germination of horticultural crops, propagation methods and also about types, structures, components, planning and layout of nursery and nursery certification procedure.
GPB-703	Principles of cytogenetics	To study about the architecture of chromosome in prokaryotes and eukaryotes, special types of chromosomes, role of polyploidy & aneuploids in crop breeding, structural & numerical variations of chromosomes and their implications.
GPB-704	Fundamental of seed technology	To aware the students about the importance of variety development & maintenance quality, and seed production technology of self and cross-pollinated crop varieties viz. cereals & millets, pulses, oilseeds, fibres and vegetables.
AGRON 704	Dryland farming and watershed management	To provide knowledge regarding drought, tolerance and management practices, selection of suitable crops, tillage, moisture conservation techniques and water shed management practices in dryland areas.
SOIL-703	Soil and plant analysis	To understand the methods of soil and plant sampling and processing for analysis and Principles of working of pH meter, electrical conductivity meter, spectrophotometer, flame photometer and atomic absorption spectrophotometer used for soil analysis.
SOIL-704	Organic farming and soil health	To aware the students about organic farming in context to the use of bio-fertilizers, bio- pesticides, manures and vermicompost for the production of agricultural crops. Soil health – concept and Soil

		Health Card, harmful effect of non judicious chemical fertilization. organic produce quality considerations, certification, labelling, accreditation process and marketing.

Programme Name : Bachelor of Commerce (B.Com)

Learning Objectives : After completion Students will gain knowledge of fundamentals of Commerce.

Programme Specific Outcome Students will learn relevant financial Accounting career skills, applying both quantitative and qualitative knowledge to their future careers in business Systematic gain of Commerce, business, Accounting Economics, Finance, Auditing and Marketing skills

Course outcome

Course Code	Course	Course Outcome
BC 101	Environmental and Road Safety Awareness	Creating awareness regarding Environmental and Road Safety issues
BC 102	Financial Accounting	Developing basic skills to maintain Accounts
BC 103	Business organisation and Management	To provide Basic knowledge about organization and management of business enterprises
BC 104/104 A	Punjabi / basic Punjabi	Basic knowledge of Regional Language and its use in Business Advertisement and Correspondence
BC 105	English	To develop various skills of Business Communication (Business letters, Report Writing and Basic Vocabulary
BC 201	English	To develop various skills of Business Communication (Business letters, Report Writing and Basic Vocabulary)
BC 202	Business law	Creating awareness about various Business Laws (Mainly Indian Contract Act , Sale of Goods Act, Partnership Act and Negotiable Instruments Act)
BC 203	Business Mathematics and Statisatics	Introduction with various tools used for a Statistical Analysis
BC 204 / 204 A	Punjabi / Basic Punjabi	Basic knowledge of Regional Language and its use in Business Advertisement and Correspondence
BC 301	Company Law	Making clarity of Company rules and regulations
BC 302	Income Tax law	Creating knowledge of basics of Income Tax their Heads and computation of Tax

BC 303	Corporate Accounting	Developing skills to prepare Company Accounts
BC 304	Computer Applications in Business	Enhancement of skills needed for Computerized Accounting System
BC 305/ 305 A	Punjabi / basic Punjabi	To give knowledge of Regional language through Text book and developing skill of Paragraph writing
BC 401	Business Communication	To develop usage of Language and making English Language as a communication tool
BC 402	Business Environment	To Familiar the students with the concepts, importance and dynamics of Business environment and global organisation
BC 403	Cost Accounting	To acquaint the students with basic concepts use3d in cost Accounting, Various methods involved in cost ascertainment
BC 404	Banking and insurance	To impart knowledge about the basic principles of the banking and insurance.
BC 405/405A	Punjabi / Basic Punjabi	To give knowledge of Regional language through Text book and developing skill of Paragraph writing
BC 406	Computerized Accounting System	Enhancement of skills needed for Computerized Accounting System
BC 501 a	Human Resource Management	To Acquaint students with the techniques and principles to manage human resource of an organisation
BC 501 b	Principles of Marketing	To provide basic knowledge of Concepts, Principles, tools and Techniques of Marketing
BC 501 c	Auditing & Corporate Governance	To provide knowledge of Auditing Principles, Procedures and techniques in accordance with current legal requirements and overview of Corporate governance
BC 502 a	Fundamentals of Financial Management	To familiarize the students with principles and practices of Financial Management
BC 502 b	Indirect Tax Law	To provide practical skill related to GST, Input Tax Credit and other provisions
BC 503	Entrepreneurship	To familiarize with different Investment alternatives, framework and role of Investor protection
BC 504	Principles of Micro Economics	To culminate basic concepts / Principles of Micro economic Theory
BC 505 /505 A	Punjabi / Basic Punjabi	Basic knowledge of Punjabi and letter writing skill development
BC 601 a	Corporate Tax Planning	To provide Basic knowledge of Corporate Tax planning and its impact on decision

		making
BC 601 b	Money & Financial Institutions	To provide basic knowledge about role of money and Financial Institutions
BC 601 c	Management Accounting	To impart knowledge about use of Financial, Cost and other data for Managerial planning, Control and decision making
BC 601 d	E- Commerce	To familiarize with mechanism for conducting business transactions through electronic means
BC 602 a	International Business	To give knowledge of Concepts, Importance and dynamics of International Business and India's role and involvement in global business
BC 602 b	Office Management and Secretarial Practices	To create awareness regarding Activities in Modern Office, Facilities and Working Environment for smooth official Working
BC 602 c	Fundamentals of Investment	To familiarize with different Investment alternatives , valuation to understand role of Investor Protection.
BC 602 d	Consumer Protection	To understand Rights of Consumer, and legal framework of Protection of Consumer Rights
BC 603	Personal Selling and Salesmanship	Practical skill development to understand fundamentals of Personal Selling and Selling Process
BC 604	Indian Economy	To enable in understanding major economic problems in India and their solutions along with knowledge of modern tools of Macroeconomic analysis and policy framework
BC 605 / 605 A	Punjabi/ Basic Punjabi	Basic knowledge of Punjabi and letter writing skill development

Programme Name : Bachelor of Commerce (Honours) (B.Com (Hons))

Learning Objectives : In this course beyond introductory level, the focus is on developing practical problem solving ability among graduates under various business circumstances.
Programme Specific Outcome Students will demonstrate progressive effective domain development of values, the role of Accounting in society and business Learner will get ability to clear exams like CA, CS, ICWA and others

Course outcome

Course Code	Course	Course Outcome
BCH 101	Environmental and Road Safety Awareness	Creating awareness regarding Environmental and Road Safety issues

BCH 102	Financial Accounting	Developing basic skills to maintain Accounts
BCH103	Business law	To provide knowledge of Contract Act to students
BCH 104	Micro Economic	Basics of Micro level Economics , Concepts, Theories and Applications in business
BCH 105/ 105 A	Punjabi / Basic Punjabi	To develop basic skill of Regional language through Literature, grammar to use it in official correspondence
BCH 201	Business (Communication skills)	To develop effective communication skills and methods of preparing various types of Business correspondence
BCH 202	Corporate Law	To impart knowledge of Company regulations
BCH 203	Corporate Accounting	Develop the skill of Preparation of Accounts of Various Companies and getting job opportunities in corporate world
BCH 204	Macro Economics	Introducing with various issues of Macro level economics, Theories and important functions of Consumption, Investment
BCH205/ 205 A	Punjabi / Basic Punjabi	To develop basic skill of Regional language through Literature, grammar to use it in official correspondence
BCH 3.1	Human Resource Management	Developing Knowledge of different aspects of Human Resource and its Management
BCH 3.2	Income Tax Law and Practice	Basic knowledge of Residential Status, Different Heads of Income Deductions and Computation of Tax
BCH 3.3	Management Principles and Applications	To understand basic Management Concepts and principles for better administration
BCH 3.4	Business Statistics	To make aware of statistical tools for analysis of quantitative data
BCH3.5	E- Commerce	Understanding of Electronic usage in Business activities
BCH 4.1	Cost Accounting	To acquaint the students with basic concepts used in cost Accounting, Various methods involved in cost ascertainment
BCH4.2	Business Mathematics	To develop practical knowledge of

		mathematical techniques used in Business analysis by Matrix, Interest valuation, Linear programming, Transportation and Assignment Problems techniques
BCH 4.3	Computer Applications in Business	Skill development in using various computer tools for Business purpose like Word processing, Spreadsheet, Methods of presentation preparation
BCH 4.4	Indian Economy	Awareness of various issues of Indian Economy like its' sectors, stages, trends, changes, Policy implications and role in global scenario
BCH4.5	Entrepreneurship	To make students aware about different aspects of entrepreneurship qualities, factors, starting , documentation and various issues regarding entrepreneurship development
BCH 4.6	Seminar on CSR and Business Ethics	Value inculcation in students of commerce to understand their responsibility toward society and develop Ethics in their Applications
BCH 5.1	Principles of Marketing	Understanding of various aspects of marketing and factors affecting Consumer behaviour
BCH 5.2	Fundamentals of Financial Management	Providing Concept knowledge of financial Analysis in management through various tools
BCH 5.3 (a)	Management Accounting	Imparting Knowledge of Management Accounting Tools like Financial Statement Analysis, Ratio analysis
BCH5.3 (b)	Corporate Tax Planning	Introducing with Tax Management through various tools of Financial Management
BCH 5.3 (c)	Advertising	To provide knowledge of different aspects of Advertising
BCH 5.3 (d)	Banking And Insurance	To understand concepts working and theories of Banking and Insurance sector
BCH5.3 (e)	Computerised Accounting System	To create ability in preparation of Computerised Accounts
BCH 5.3 (f)	Financial Markets, Institutions and	To provide overview of Financial markets and SEBI functions and

	Financial Services	regulatory aspects
BCH 6.1	Auditing and Corporate Governance	Creating skills in Auditing and Corporate Governance
BCH 6.2	Indirect Tax Laws	Understanding of GST, Input Tax Credit Authorities, Penalties and Appeals under GST
BCH 6.3 (a)	Fundamentals of Investment	To familiarize with different Investment alternatives, valuation to understand role of Investor Protection.
BCH 6.3 (b)	Consumer Affairs and Customer care	Understanding different Rights and Protection of Consumers
BCH6.3 (c)	Business Tax Procedure and Management	Making capable in Tax computation and Tax Planning
BCH 6.3 (d)	International Business	Make acquaint with International business environment
BCH 6.3 (e)	Industrial relations and labour laws	Knowledge of Industrial regulatory framework
BCH 6.3 (f)	Business Research Methods and Project Work	To provide Research aptitude for analysis of Business activities

Programme Name : Bachelor of Commerce (Accounting and Finance) (B.Com (A & F))

Learning Objectives : Accounting and Finance focused curriculum offers specialization and practical exposure which would equip students to face modern day challenges in commerce and business

Programme Specific Outcome Students will be able to demonstrate progressive learning of knowledge of Accounting and Computerised set of Accounting books Learner will acquire practical skills to work as Tax Consultant, Audit Assistant and other Financial supporting services

Course outcome

Course Code	Course Name	Course Outcome
BAF 101/101A	Functional Punjabi I /	To make efficient in regional language

	Punjabi Compulsory I	to do Business correspondence in better way
BAF 102	Foundations of Accounting I	To equip with skill of recording Financial Transaction
BAF 103	Fundamentals of Computer Applications	Enhancement of skills needed for Computerized Accounting System
BAF 104	Business Regulatory Framework I	Creating awareness about various Business Laws (Mainly Indian Contract Act , Sale of Goods Act, Partnership Act and Negotiable Instruments Act)
BAF 105	Micro Economics	To enhance knowledge of basic Micro Economics concepts and Theories
BAF 201	Functional English	To develop usage of Language and making English Language as a communication tool
BAF 202	Foundations of Accounting II	Creating skills to prepare Partnership Account and Computerised Accounting
BAF 203	Management Principles	Making awareness regarding Management Concepts, Functions and Techniques
BAF 204	Business Regulatory Framework II	To develop knowledge of Negotiable Instrument Act, Consumer Protection Act, RTI and Intellectual Property Rights Act
BAF 205	Macro Economics	To enhance knowledge of basic Macro Economics concepts and Theories
BAF 206/206A	Functional Punjabi II / Punjabi Compulsory II	To make efficient in regional language to do Business correspondence in better way
BAF 3.1	Corporate Accounting	To develop practical skills to maintain various Company Accounts
BAF 3.2	Company Law	To enhance knowledge of Company regulations
BAF 3.3	Banking & Insurance	To understand concepts working and theories of Banking and Insurance sector
BAF 3.4 (A)	Operations Research	Developing Practical skills of Various techniques of Operation Research like LPP, PERT, CPM, and Transportation. Assignment Problems and Game

		Theory
BAF 3.4 (B)	E- Commerce	Understanding of various E-commerce techniques, issues, systems, security and encryptions issues
BAF 3.5	Workshop on Corporate Reporting	Development of practical skill to prepare various reports required by corporate sector
BAF 4.1	Management Accounting	Imparting Knowledge of Management Accounting Tools like Financial Statement Analysis, Ratio analysis
BAF 4. 2	Auditing & Corporate Governance	Creating skills in Auditing and Corporate Governance
BAF 4.3	Income Tax Laws	Basic knowledge of Residential Status, Different Heads of Income Deductions and Computation of Tax
BAF 4.4 (1.)	Organisational Behaviour	Obtaining knowledge of Organisation Behaviour / Culture and Conflicts resolution techniques
BAF 4.4 (2.)	Entrepreneurship	Introducing Concepts of Entrepreneurship, Theories, Behaviour and role in Development
BAF 5.1	Cost Accounting	To provide knowledge regarding Cost Analysis and its implication on Business Controlling
BAF 5.2/BAF 5.3/BAF5.4 (1)	Indirect Tax	Understanding of GST, Input Tax Credit Authorities, Penalties and Appeals under GST
(2)	Financial Management	Providing Concept knowledge of financial Analysis in management through various tools
(3)	Business Environment	To acquaint students with role of Business Environment components
(4)	Money & Financial Institutions	To equip with concepts of Money, Banks, Institutional Credit and Interest rates and their Administration
(5)	Financial Markets & Operations	To provide overview of Financial markets and SEBI functions and regulatory aspects
(6)	Project Planning & Control	Imparting understanding of Project planning ,Formulation environment along with Cost Management techniques
BAF 6.1	Cost Analysis for Decision making	To provide knowledge of Costing techniques for controlling Business activities

BAF 6.2/BAF 6.3/BAF 6.4 (1)	Corporate Tax Planning	Introducing with Tax Management through various tools of Financial Management
(2)	Security Analysis & Portfolio Management	To give knowledge of Investment and Portfolio Management with concept clearance and theoretical knowledge
(3)	Strategic Cost Accounting	Providing understanding of Costing System through various costing techniques
(4)	Contemporary Accounting	Concept clearance of IFRS, AS, Accounting Thoughts, Corporate Reporting, Price level Accounting, HRA, Social Accounting
(5)	Corporate Financial Accounting	Practical skill to prepare Accounts of Various Companies
(6)	Financial Services	Understanding of Financial Services ,Leasing, Factoring, Venture Capital and Credit rating services

Programme Name : Master of Commerce (M. Com)

Learning Objectives : Proficiency in all aspects with detailed in-depth knowledge to achieve mastery of all attributes in Commerce and Business

Programme Specific Outcome Learners will be able to do advance research in the field of commerce and finance Learner will play role of Entrepreneur, Managers, Consultant or Professional with development of required skills

Course outcome

Course Code	Course Name	Course Outcome
MC 101	Management Concepts & Organisational Behaviour	Obtaining knowledge of Organisation Behaviour / Culture and Conflicts resolution techniques
MC 102	Accounting for Managerial Decisions	Practical skill of maintain Company Accounts at various levels
MC 103	Business Economics	Knowledge of Economics tools like Demand, Production Price determination
MC 104	E- Commerce	Application of Computer in Business activities, Reporting and practices
MC 105(i)	Financial Management	Knowledge of Capital budgeting, cost of capital, Capital structure and Dividend Policy formation
MC 105(ii)	International	Making aware about International

	Accounting	reporting techniques used in different countries.
MC 105(iii)	Database Management system	Practical knowledge of Data Base Management system and its application in Business recording and reporting system
MC 105 (iv)	Entrepreneurship Development and Project Management	Development of Entrepreneurship skills among youth of nation and making awareness among students to develop management skills to handle Project successfully
MC 201	Accounting for Managerial decision	Imparting Knowledge of Management Accounting Tools like Financial Statement Analysis, Ratio analysis
MC 202	Business Environment	To acquaint students with role of Business Environment components
MC 203	Research Methodology & Statistical Techniques	To develop Research aptitude amongst students
MC 204	Seminar based upon Current Issues to commerce	To develop current knowledge of commerce related issues
MC 205 (i)	Financial Institutes and markets	Knowledge of Different institutions working for Financial and development program in Business world
MC 205 (ii)	Micro- Finance	Basic knowledge of Micro Finance tools, challenges and Institutions
MC 205 (iii)	Corporate Governance and Business Ethics	Concept building of Corporate governance and Business ethics to be applied in practical
MC 205(iv)	International Business	Knowledge of International Business Concepts and related issues
MC 301	Strategic Cost Management	Understanding of Cost Management System , Theories, and different Costing techniques to measure and control productivity
MC 302	Stock Market Operations	Knowledge of Indian Stock markets and their functions and operations
MC 303	Corporate Tax planning	Technical skill of Tax management, Planning and knowledge of different provisions related to Taxation

MC 304	Marketing Management	Understanding of Marketing, Its different P's and Marketing Research and its importance
MC 305(i)	Management of Financial Services	SEBI its functions, Mutual funds and Regulations and guidelines to better stock market activities
MC 305(ii)	Advanced Auditing	Role of Auditing, Relevance, Requirements for Audit Planning and different types of Auditing used in checking proper Accounting procedures
MC 305(iii)	Operations Research	Developing Practical skills of Various techniques of Operation Research like LPP, PERT, CPM, Transportation. Assignment Problems and Game Theory
MC 305(iv)	International Trade and Environment	Concept and Theoretical clarity of International Trade and working of International institutions like WTO, IMF, UNCTS, ADB, SAARC, BRICS
MC 401	Human resource management	Developing Knowledge of different aspects of Human Resource and its Management
MC 402	Security Analysis and Portfolio management	Imparting basics and analytical view of securities and Portfolios by building strong Theoretical knowledge
MC 403	International Finance	Knowledge of Fundamentals of International finance FDI, MNC Foreign Exchange Markets
MC 404	Banking and Insurance Services	Knowledge of all aspects of Banking and Insurance sector
MC 405	Viva –Voce	To make technically strong in facing curriculum based query
MC 406 (i)	Fund Management in Commercial banks	Different techniques will be obtained to deal with Funds management by commercial banks
MC 406 (ii)	Financial Derivatives	Practical knowledge of Derivatives, Options, Swaps used in Financial Markets
MC 406 (iii)	Strategic management	Strategies Formulation, Functional Strategies and structure will be developed
MC 406(iv)	Production and Material management	Different methods of Inventory Management PERT and CPM techniques will be gained

The Program Specific Outcomes and Course Outcomes

Program Name: Bachelor of Arts(Economics)

Learning Objectives:

This course Bachelor of Arts is designed to expose the students with the diversified as well as specialized knowledge about different combinations of subjects. Economics is the one of available elective subject in this general Bachelor of Art course. After completion of graduation, Students will gain knowledge of fundamentals of Economics as this course is aimed at the provision of the systematic/ well-structured education of the different dimensions of economics such as Microeconomics, Macroeconomics, Indian Economy, Public Finance, International Trade, Basic Quantitative as well as Statistical Methods to the students.

Programme Specific Outcome:

Students could have gainful employment opportunities available in-

1. Banking Sector,
2. Insurance Sector,
3. Industry and
4. Option of Higher Studies in India and Abroad

Course Outcome: BA Economics

Course Code	Course	Course Outcome
BA	Micro Economics and Indian Economy- I	Enables students to understand tr6he basic concepts of Microeconomics along with the detailed description of Indian Economy since Independence.
BA	Micro Economics and Indian Economy-II	Provides the students with the detailed information about different forms of markets on one hand and introduces the students with Indian taxation system, foreign trade, problems and planning in Indian context
BA	Macroeconomics and Public Finance	helps students to understand the basic concepts of Macroeconomics and Public Finance
BA	Macroeconomics and	Enables students to get acquainted with

	International Trade	Macroeconomic concepts and Trade Theory with special reference to Indian Economy.
BA	Economics of Development and Quantitative Methods-I	Helps students to understand the concepts and various theories related to growth and development along with introduction with the use of mathematical/statistical techniques in economic analysis
BA	Economics of Development and Quantitative Methods-II	Helps students to understand the concepts and various theories related to growth and development along with introduction with the use of mathematical/statistical techniques in economic analysis

The Program Specific Outcomes and Course Outcomes

Program Name: Bachelor of Arts Honors Economics

Learning Objectives:

This course (Bachelor of Honours in Economics) is designed to expose the students with the diversified as well as specialized knowledge about Economics as compared to the general Bachelor of Art course. This course is aimed at the provision of the systematic/ well-structured education of the different dimensions of economics such as Microeconomics, Macroeconomics, Indian Economy, Public Finance, Basic Quantitative as well as Statistical Methods and the specialized knowledge about Money and Banking, Econometric Principles, Economics of Health and Education, Environmental Economics along with enhancement of Technical Writing Skills and Computer Fundamentals to the students.

Programme Specific Outcome:

Students could have gainful employment opportunities available in-

1.Banking Sector,

2.Insurance Sector,

3.Industry and

4.Option of Higher Studies in India and Abroad

Course Outcome: BA Honors Economics

Course Code	Course	Course Outcome
C 1	Introductory Micro Economics	Enhancement in the knowledge of the student about various basic or introductory aspects of microeconomic theory.
C 2	Indian Economy I	Improvement in the understanding of the student about the performance of different sectors of the Indian economy by providing an insight into the past, present and future functioning of the Indian economy.
C103	Punjabi/ Basic Punjabi	Basic knowledge of Regional Punjabi Language.
BAHECO GE-I	Public Finance	Provides the knowledge about role and working of Government in an economy along with introducing the student to Public Finances, Public Expenditure, Public Debt as well as the Taxation.
C 3	Introductory Macro Economics	Introduces the students to formal modelling of a macro-economy in terms of analytical tools. It discusses basic macroeconomic aspects such as National Income, Employment, Consumption and Investment Functions.
C 4	Indian Economy II	provides the students with the performance of different sectors of the Indian economy such as Indian Agriculture, Indian Foreign Trade, Indian Industrial Development along with the analysis of Balance of Payment.
BAHECO AECC-II	Environmental Sciences	Creates awareness regarding Environmental and Road Safety Issues
BAHECO GE-II	Money and Banking	Enable students to understand the concept of Money Supply along with the study of various Financial Systems including Money and Capital Markets, Banking System and the Fiscal and Monetary Policy
BAHECO C 5	Indian Economy II	provides the students with the performance of different sectors of the Indian economy such as Indian Agriculture, Indian Foreign Trade, Indian Industrial Development along with the analysis of Balance of Payment.
C 6	Development Economics II	Provides the framework to understand the society or an economy's structural transformation, pattern of distribution of income, its inter-sectoral interface.

BAHECO SEC- 1	English	Assists the students in developing Technical Writing as well as Communication Skills
BAHECO GE-3	International Economics	Provides an insight of international economics including international trade such as theories of international trade, terms of trade, balance of payment, exchange rates and exchange rate policy, International Economic Institutions such as International Monetary Fund, World Bank, and World Trade Organization.
C 7	Intermediate Micro Economics I	Provides a sound training about Consumer Theory, Theory of Demand, Production, Cost and Distribution with special reference to the Input Markets.
C 8	Intermediate Macro Economics I	Provides deeper insight about the Money, Rate of Interest, Inflation, Banking Structure, Trade Cycles as well as Monetary and Fiscal Policies
BAHECO SEC- 2	Computer	Provides basic knowledge of Computer Fundamentals and their use in the field of economic studies.
BAHECO GE-4	Public Finance	Students are provided with the understanding of the functions of government, including taxation, public expenditure, regulation and social service delivery, and touches upon economic, social, political and administrative aspects of government's involved in economy.

The Program Specific Outcomes and Course Outcomes

Program Name: Master of Arts in Economics (MA Economics)

Learning Objectives:

The Master of Art in Economics Course is aimed at providing the students with the systematic knowledge about multi-dimensional aspects of Economics such as Microeconomics, Macroeconomics, Indian Economy, Public Finance, Money and Banking, Basic Quantitative as well as Statistical Methods, Econometric Principles, Political Economy, International Economics, Economics of Agriculture and Growth and Development Economics along with enhancement of technical writing skills and polishing the computer fundamentals of the students.

Program Specific Outcome:

A Master's in Economics can be the gateway to hundreds of job opportunities in dozens of fields. Types of careers in economics that typically either require or benefit from a master's degree in economics include:

Economist,

Consultant,

Professor,

Policy Analyst,

Budget Analyst,

Market Researcher,

Data Scientist,

Statistician and many other opportunities available.

Course Outcome: MA Economics

Course Code	Course	Course Outcome
ECO-101	MICRO ECONOMIC ANALYSIS-I	equip the students with theoretical concepts, Methodology and process of reasoning involved in analyzing economic behavior of individuals, firms and markets
ECO-102	MACRO ECONOMIC ANALYSIS-I	Subject provides the knowledge to understand the nature of overall economic problems such as recession, boom, depression, unemployment, inflation, instability, stagnation etc.
ECO-103	BASIC QUANTITATIVE METHODS-I	Provides skills to the students in the use of mathematical and statistical tools in analyzing economic problems like, data collection, presentation, analysis and drawing inferences about various statistical hypotheses.
ECO- 104-A (i)	ECONOMICS OF AGRICULTURE I	To introduce to students to issues associated with agricultural finance, agricultural markets, food security and international trade in agricultural commodities, and also to expose students to the recent developments in Indian agriculture.

ECO-105-B (ii)	ECONOMICS OF GROWTH AND DEVELOPMENT-I	Provides the framework to understand the society or a economy's structural transformation, pattern of distribution of income, its inter-sectoral interface. it also aims to take up issues pertaining to the emerging global scenario and the debate concerning the planning vs. marketism which is so vital for development theorists and practitioners.
ECO-201	MICRO ECONOMIC ANALYSIS-II	It emphasizes the conceptual clarity to the student on welfare economics by understanding the concept of price-output determination and distribution theories.
ECO-202	MACRO ECONOMIC ANALYSIS-II	Helps students to understand the economic concepts and theories of economic stabilisation, growth, exchange rates which is helpful to give the solutions for inflationary conditions.
ECO-203	BASIC QUANTITATIVE METHODS-II	Helps students in understanding the concept and applications of Derivatives, Calculus Interpolation and Time Series Analysis for Economic Policy Analysis.
ECO-204-A (i)	ECONOMICS OF AGRICULTURE II	To introduce to students to issues associated with agricultural finance, agricultural markets, food security and international trade in agricultural commodities, and also to expose students to the recent developments in Indian agriculture.
ECO-205-B (ii)	ECONOMICS OF GROWTH AND DEVELOPMENT-II	Provides the framework to understand the society or an economy's structural transformation, pattern of distribution of income, its inter-sectoral interface.
ECO- 301	EVOLUTION AND STRUCTURE OF INDIAN ECONOMY-I	Improvement in the understanding of the student about the performance of different sectors of the Indian economy by providing an insight into the past, present and future functioning of the Indian economy

ECO- 302	PUBLIC ECONOMICS-I	Students are provided with the understanding of the functions of government, including taxation, public expenditure, regulation and social service delivery, and touches upon economic, social, political and administrative aspects of government's involved in economy.
ECO-303	PUNJAB ECONOMY	Provides the highlights of the situation and economic conditions of the state Punjab.
ECO-304-A (i)	THEORY OF STATISTICS-I	Trains the students in the use of statistical tools in analyzing economic problems by simple statistical tools and techniques.
ECO-304-A (ii)	INTERNATIONAL ECONOMICS-I	Provides a deep understanding about the broad principles and theories, which tend to govern the free flow of trade in goods, services and capital – both short-term and long-term – at the global level.
ECO-305-B (ii)	MONEY AND BANKING- I	Enhances the knowledge of students for the operations of money and banking and their interaction with the rest of the economy by using the concepts of terms and evolution of money, banking reforms, international banking.
ECO-401	EVOLUTION AND STRUCTURE OF INDIAN ECONOMY-II	Makes the students of Economics understand the prevailing condition about infrastructure, capital formation and role of foreign capital in context to Indian Economy
ECO-402	PUBLIC ECONOMICS-II	Enhances the skills to know the fiscal institutions-tax systems, expenditure programmes, budgetary procedures, stabilization instruments,

ECO-403	RESEARCH METHODOLOGY	Enhances the Research skills of the students by providing the thorough and step by step detail about research methods, sampling techniques and data analysis in solving various socio-economic problems.
ECO-404-A (i)	THEORY OF STATISTICS-II	Provides detailed knowledge about the use of statistical tools for estimation and analysis in the field of Research.
ECO-404-A (ii)	INTERNATIONAL ECONOMICS-II	Intends to provide a deep understanding about the broad principles and theories, balance of payments, international exchanges, and international capital movement.
ECO-405-B (ii)	MONEY AND BANKING- II	Enhances the knowledge of students about the working of Financial Markets, Central Bank, Banking Sector Reforms as well as International Monetary System.

The program specific outcomes and course outcomes of all the Programmes

Program Name: B.Voc Food Processing

Learning Objectives:

Vocational Education prepares the students for specific job role in various sectors related to food processing. Keen learning progression in this course not only cater the needs of the society, also help the learners to adapt his livelihood in food industries as profession or as self entrepreneurship. Much of practical oriented compartments of course curriculum directly address the present concern of food safety and security thus they are skilled from a trade, technicalities to be on board of production, quality control and R&D profession job roles. Moreover, government initiative to amend it through multiple exit schemes makes it much flexible and opportunistic access by rural youth to be skill oriented and self stable.

Programme Specific Outcomes:

1. Apply knowledge of general education subjects and skill development subjects to the conceptualization of food processing technologies.
2. Designing and formulation of new food products on the basis of consumers demands, development of technologies of food processing, design that meet solutions needs with appropriate consideration for public health and safety, cultural, societal, and environmental considerations.
3. Conduct and undertake investigations of problems of including design of processing technology for various type food, food analysis, food quality and safety aspects and interpretation of data in order to provide valid conclusions.
4. Create, select and apply appropriate processing technology/techniques, resources, modern processing tools in order to improve the quality, safety and the shelf life fresh and process food.
5. Communicate effectively on minimal processing activity and value addition to the farmers/producers/grower at large, such as being able to comprehend and write effective reports, design documentation and make effective presentations.
6. Demonstrate understanding of the social, health, safety, legal and cultural issues and the consequent responsibilities relevant to Food processing.
7. Understand and commit to professional ethics and responsibilities and norms/regulation for manufacturing of process food and its effects on health.
8. Understand the impact of food processing technologies solutions in a societal context and demonstrate technical know-how and understanding of food safety, quality for sustainable development.

Course Outcomes:

Course Code	Course	Course Outcomes
BVFP-112	Introductory Food Microbiology	1. Students at this stage are able to learn handling of microflora and identification of food pathogens 2. They also familiar with various inoculation and media preparation techniques 3. This course enrich students to grab job opportunities as microbiologist in food industries
BVFP-113	Introductory Food	1. Present course values in-depth knowledge for nutritional values of food molecules in human

	Biochemistry	diet. 2. Enhance capability to formulate healthy foods with much emphasis on functional food concept
BVFP-114	Fruits and Vegetables Processing	1. The students will be able to understand various processing methods involved in fruits and vegetable preservation 2. Student itself can prepare different beverages as well as vegetable products at household level
BVFP-115	Basics of Dairy Processing	1. Students learn about various testing methods as well as preservation technologies of milk 2. Get full fledge knowledge about cleaning and sanitation in dairy plant 3. Learn about different milk products preparation technologies, furthermore can be used for household preparation
BVFP-211	English	1. Students will be able to interpret texts with attention to ambiguity, complexity and aesthetic value 2. Students will practice a deliberate writing process with emphasis on inquiry, audience, research, and revision. 3. Students will be able to identify topics and formulate questions, identify appropriate methods and sources for research and engage ethically with sources. 4. Students will participate in critical conversations and prepare, organize and deliver their work to the public.
BVFP-212	Holistic Development I: Personality Development and Ethics Education	
BVFP-213	Fundamentals of Food Packaging	1. Students can differentiate between different packaging materials and their usage in packaging of numerous food products 2. Get knowledge about rules and regulations with respect to coding and labeling which is beneficial while perusing job in food industry
BVFP-214	Basics of Food Processing	1. Completion of this course recognize the effect of processing conditions on food product quality 2. Also help to grasp recent developments in food

		processing and formulations 3. Appraise critically the advantages and limitations of various food processing techniques
BVFP-215	Introduction to Food and Nutrition	1. This course reveals in depth understanding of all the basic food constituents for healthy survival 2. Emphasize on to development of healthy food with above listed constituents as per ICMR
BVFP-311	Environment Science and Road Safety Awareness	1. Understand the transnational character of environmental problems and ways of addressing them, including interactions across local to global scales. 2. The students will be able to understand the ethical, cross-cultural and historical context of environmental issues and the links between human and natural systems. 3. Apply systems concepts and methodologies to analyze and understand interactions between social and environmental processes. 4. Reflect critically about their roles and identities as citizens, consumers and environmental actors in a complex, interconnected world.
BVFP-312	Introduction to Cereal and Legume Processing	1. The students will be able to understand basic composition & structure of food grain 2. Understand the basics of milling operations 3. Students learn processing of food grains into value added products 4. Manage production, distribution & storage of grains 5. Manage by products utilization 6. Student will be able to understand technology for Oil Extraction & Oil Seed Processing along with equipments
BVFP-313	Record Keeping in Food Processing	1. The students will be able to understand the importance of documentation 2. Understand information needs to be documented and the guidelines for documentation
BVFP-314	Bakery and Snack Products Technology	1. Acquire knowledge of technologies behind bakery products 2. Understand trends in bakery industry 3. Get an overview of modified bakery products for different health conditions

		4. Students shall be able to understand basics of preparing extruded Snack Foods Items along with working of equipments related to extrusion of Food Products 5. Students shall be able to understand preparation of Breakfast Snacks in particular cereal based Snacks Food Items
BVFP-315	Savory and Beverage Technology	1. The students will be able to understand the science and technology for processing different types of beverages. 2. Understand processing of fruit juice beverages, carbonated beverages, citrus beverages, tea and coffee. 3. Understanding of permitted additives in beverages. 4. Ability to understand the impact of processing on quality of beverage.
BVFP-411	Communication Skills I	1. students will be able to understand and apply knowledge of human communication and language processes as they occur across various contexts 2. Students will be able to understand and evaluate key theoretical approaches used in the interdisciplinary field of communication and explain major theoretical frameworks, constructs, concepts for the study of communication and language 3. Understand the research methods associated with the study of human communication, and apply at least one of those approaches to the analysis and evaluation of human communication.
BVFP-412	Introduction to Food Safety	1. The students will be able to understand the concept of food safety, types of hazards and their control measures 2. Identify and prevent potential sources of food contamination 3. Comprehend the need of hygiene and sanitation for ensuring food safety
BVFP-413	Quality Control and Regulations	1. Students will be able to understand quality control and assurance system in food industry. 2. Understand risk assessments procedure for food sector. 3. GMPs and GHP regulations in the food sector. 4. Understand and critically evaluate the presence

		of contaminants in food quality assurance. 5. Understand chemical, technological and toxicological aspects of food additives in food preservation. 6. The students will be able to understand about food laws and standards, quality parameters and sensory evaluation of food.
BVFP-414	Fundamentals of Computers	1. Understanding the concept of input and output devices of Computers and how it works and recognize the basic terminology used in computer programming 2. The students will be able to write, compile and debug programs in C language and use different data types for writing the programs. 3. Acquire knowledge about design programs connecting decision structures, loops and functions. 4. Understand the dynamic behavior of memory by the use of pointers. 5. The students will be able to understand use different data structures and create / manipulate basic data files and developing applications for real world problems.
BVFP-415	Egg, Meat and Fish Technology	1. Students will be able to understand the need and importance of livestock, egg and poultry industry 2. Understand the structure, composition and nutritional quality of animal products. 3. Understand the concept and methods of processing, preservation and quality control of Meat, Egg & Fish in Food Industry 4. Understand the technology of preparation of various animal food products and byproduct utilization 5. Understand factors affecting egg quality and measures of egg quality 6. Student will be having broad knowledge of status & scope of Meat, Egg & Poultry industry world wide.
BVFP-511	Technology of Milk Milk Products	1. The students will be able to understand process related to storage, processing and distribution of milk and milk Products. 2. Perceive the different properties of milk and milk products. 3. Grasp the technology of fat rich dairy products. 4. Comprehend the technology of condensed milk,

		dried milk, cheese, yoghurt and indigenous products will be understood. 5. Acquire knowledge regarding hygiene and sanitation practices in the milk and milk products industry.
BVFP-512	Marketing and Retail Management	1. The students will be able to understand the areas of accountability for retail management. 2. Understand the role of manager impacts the success of a retail business. 3. Understand level of interest in pursuing a career in retail management. 4. Acquire knowledge about design, implementation and assessment of retailing strategies based on consumer needs and market changes. 5. The students will be able to understand process of conceiving, producing, and selling fashion products for in-store and on-line retailing.
BVFP-513	Sugar and Confectionary Technology	1. The students will be able to understand the status of confectionary industry in India. 2. Attain knowledge of the standards & regulations, quality parameters for sugar, chocolates and other confectionery products. 3. Understand the technologies (equipment and process) for confectionary product preparations.
BVFP-514	Food Industry Waste Management	1. Understand the process of production of gelatin from waste and utilization of egg shell 2. The students will be able to understand the process of different type of germ oil and protein extraction 3. Acquire knowledge about preparation different type of whey beverages, toffee or pinni from ghee residue and butter milk product. 4. Understand the use of agriculture waste and food processing product from their waste
BVFP-515	Entrepreneurship Development in Food Processing	1. Develop an insight of Entrepreneurs and Entrepreneurship development. 2. The students will be able to understand the basics of Business project report and SWOT analysis. 3. Develop insight for different types of Fund raising. 4. Understand the different support system for business development. 5. Gain knowledge and acquired skills for setting

		up an enterprise and its management. 6. The students would have been acquainted with designing and planning of food plant layout and operations research.

The program specific outcomes and course outcomes of all the Programmes

Program Name: M.Sc Food Technology

Learning Objectives:

It is only Food Technology which can reduce the gap between harvested food and available food by changing the mode of finished product, i.e., processing, packaging and storage aspects etc. The focus is on healthy food, diets, calories, nutrition status, etc. M.Sc in food technology course helps for planning and managing a production process from raw materials to finished product taking food safety and quality into account. This course also takes into consideration about the sufficient understanding and cognitive abilities to standardize the technologies for food processing, preservation and packaging as per the legal and safety requirements. Additionally, it imparts knowledge and training to develop carry out research, transferable skills and entrepreneurship abilities.

Programme Specific Outcome:

1. To impart knowledge of Food-Biochemistry, Food Chemistry and Food Microbiology
2. To impart knowledge and understanding of technology of vegetables, fruits, plantation crops, meat, poultry, dairy and sea foods, bakery and confectionery.
3. To impart abilities to design technologies for food processing and food preservation
4. To impart abilities to design and develop food packaging and distribution
5. To trained students on use of various instrumentation for the evaluation of food quality and safety
6. To trained students to conduct scientific experiments and document scientific investigations
7. To educate on professional ethics, economics, social sciences, inter personal and communication skills relevant to professional practice
8. To provide general perspective on lifelong learning and opportunities for a career in industry, scientific organization, education, business and commerce

Course Outcomes:

Course Code	Course	Course Outcomes
MFT-101	Food Biochemistry and Nutrition	1. Present course values in-depth knowledge for nutritional values of food molecules in human diet.

		2. Enhance capability to formulate healthy foods with much emphasis on functional food concept
MFT -102	General Microbiology	4. Students at this stage are able to learn handling of microflora and identification of food pathogens 5. They also familiar with various inoculation and media preparation techniques 6. This course enrich students to grab job opportunities as microbiologist in food industries
MFT -103	Principles of Food Processing	1. Awareness about different food processing aspect, application in preservation of food by way of these unit operations 2. Can do job in various food processing industries as the concept of preservation is studied
MFT -104	Food Additives	1. Gain awareness about different type of additives to increase the shelf life of food product 2. Theoretical knowledge of preservation aspect as per FSSAI labeling to develop food and feed 3. Develop application capacity for home scale flavored drinks and foods
MFT -105	Research Methdology	1. Understand the concept of probability, estimation and hypothesis testing so as to choose the appropriate analytical tool 2. Gain knowledge to identify business prolem 3. Develop skill of making appropriate Research Design 4. Develop skill to make an excellent research report
MFT -201	Fruits and Vegetables Technology	3. The students will be able to understand various processing methods involved in fruits and vegetable preservation 4. Student itself can prepare different beverages as well as vegetable products at household level 5. Understand maturity indices of fruits and vegetables. 6. Understand the concept of quality in relation to fruit and vegetable based products.
MFT -202	Food and Industrial Microbiology	1. Understand important genera of microorganisms associated with food and their characteristics, their growth pattern and parameters. 2. Comprehend the role of the microorganisms in

		spoilage of foods and methods of their control 3. Acquire knowledge about the beneficial role of microorganisms and different types of fermented foods 4. Understand the laboratory techniques to detect, quantify and identify microorganisms in foods
MFT -203	Milk and Milk Processing Technology	1. To learn about the preservation cum processing techniques for milk with enhanced shelf life 2. Developing skills about technological preparations of milk products at home scale aimed to shelf extension 3. This course also help to formulate lists of value added composite dairy foods
MFT -204 (a)	Sugar and Confectionery Technology	4. The students will be able to understand the status of confectionary industry in India. 5. Attain knowledge of the standards & regulations, quality parameters for sugar, chocolates and other confectionery products. 6. Understand the technologies (equipment and process) for confectionary product preparations.
MFT -204 (b)	Fermentation Technology-I	1. develop learning credentials for production of biomass and operational technique for fermentor 2. Hands on efficiency in operational methods for development of various alcoholic drinks 3. Development of food and feed synthesized by means of microbial resources
MFT -205 (a)	Enzymes in Food Industry	1. The students will be able to understand applications of enzyme in food and feed industry 2. The students will be able to co-relate enzymes used in various branches of food and feed industry 3. Understand mechanism of action of enzymes used in specific processes 4. Choose appropriate process condition (temperature, pH, time) depending on the type of enzyme in the process
MFT -205 (b)	Fermentation Technology-II	1. Understand basic components of Food Fermentation Technology and their principles. 2. Understand concept of different fermentation process. 3. Develop different types of starters used in Food Industry. 4. Apply acquired skills in production of various

		fermented food.
MFT -301	Egg, Meat & Fish Technology	7. Students will be able to understand the need and importance of livestock, egg and poultry industry 8. Understand the structure, composition and nutritional quality of animal products. 9. Understand the concept and methods of processing, preservation and quality control of Meat, Egg & Fish in Food Industry 10. Understand the technology of preparation of various animal food products and byproduct utilization 11. Understand factors affecting egg quality and measures of egg quality
MFT -302	Food Engineering	1. Understand the principles of Unit operation 2. Students will be able to understand basics of designing of food plant and storage system 3. Students can be familiarized with basic principles of refrigeration, freezing, fluid flow, heat and mass transfer, steam, psychrometrics etc. from food industrial point 4. Students can apply these principles for solving numerical and problems
MFT -303	Biostatistics	1. The student will be able to create graphs using Stata to communicate important information data and interpret these graphs 2. Understand concept of random, representative sample from a population 3. Understand logic behind statistical confidence intervals and hypothesis tests 4. Compute estimated power or sample size for a proposed study comparing two or more groups with or without stratification adjustment 5. Compute and interpret measures of association for continuous and categorical data
MFT -304 (a)	Milk Product Technology-I	6. The students will be able to understand process related to storage, processing and distribution of milk and milk Products. 7. Grasp the technology of fat rich dairy products. 8. Comprehend the technology of condensed milk, dried milk, cheese, yoghurt and indigenous products will be understood. 9. Acquire knowledge regarding hygiene and sanitation practices in the milk and milk products industry
MFT -304	Pseudocereals and	7. The students will be able to understand basic

(b)	Millet Technology	composition & structure of pseudocereals and millets 8. Understantd composition and nutrition health benefit of amaranth, quinoa, chia and sorgham 9. Manage production, distribution & storage of grains 10. Manage by products utilization
MFT -305 (a)	Food Plant Layout	1. Acquire knowledge of design of food plant and food processing equipments 2. Develop a basic knowledge of principles of safe and hygeinic storage and transportation of fresh plant and animal foods. 3. Understand principles of cold chain management and design of cold stores and warehouses 4. Gain knowledge of solid and liquid waste management and treatment 5. Acquire knowledge of hygeine and sanitation principles and practices in food industry. 6. Understand method of determination of BOD and COD.
MFT -305 (b)	Bakery Technology	6. Acquire knowledge of technologies behind bakery products 7. Understand trends in bakery industry 8. Get an overview of modified bakery products for different health conditions 9. Students shall be able to understand basics of preparing extruded Snack Foods Items along with working of equipments related to extrusion of Food Products 10. Students shall be able to understand preparation of Breakfast Snacks in particular cereal based Snacks Food Items
MFT -401	Cereals, Pulses and Legume Technology	11. The students will be able to understand basic composition & structure of food grain 12. Understand the basics of milling operations 13. Students learn processing of food grains into value added products 14. Manage production, distribution & storage of grains 15. Manage by products utilization 16. Student will be able to understand technology for Oil Extraction & Oil Seed Processing along with equipments
MFT -402	Food Packaging	3. Students can differentiate between different packaging materials and their usage in

		packaging of numerous food products 4. Get knowledge about rules and regulations with respect to coding and labeling which is beneficial while perusing job in food industry
MFT -403	Food Quality and Regulations	1. After course completion, students will be able to get various areas of Food Safety & Quality Assurance. 2. Grasp key concept about quality assessments of foods through Comprehend food quality management system 3. Apprehend the Indian and International food laws
MFT -404 (a)	Nutraceutical & Functional Foods	1. Acquire knowledge on various bioactive compounds showing health benefits 2. Understand various physiological and biochemical aspects of chronic diseases and its remedies by food 3. Application of studied concept for new products development with nutraceutical potential
MFT -404 (b)	Food Product Development	1. Students will have hands on practice and experience of literature survey, idea filteration, prototype product preparation, analysis, packaging and shelf-life study and finally costing. 2. This coursel help students to further take this idea for commercialization & become entrepreneurs
MFT -405 (a)	Milk Product Technology-II	1. The students will be able to understand process related to storage, processing and distribution of milk and milk Products. 2. Perceive the different properties of milk and milk products. 3. Grasp the technology of fat rich dairy products. 4. Comprehend the technology of condensed milk, dried milk, cheese, yoghurt and indigenous products will be understood. 5. Acquire knowledge regarding hygiene and sanitation practices in the milk and milk products industry
MFT -405 (b)	Beverage Technology	5. The students will be able to understand the science and technology for processing different types of beverages. 6. Understand processing of fruit juice beverages, carbonated beverages, citrus beverages, tea and coffee.

		7. Understanding of permitted additives in beverages. 8. Ability to understand the impact of processing on quality of beverage

The Programme Specific Outcomes and Course Outcomes
Programme Name: Bachelor of Arts (BA) with Geography
Session: 2018-19

Learning Objectives:

Students pursuing BA with geography as one of the elective subjects will understand the relevance of geographical knowledge to everyday life; they willget the ability to communicate geographic information utilizing both lecture and practical exercises. They will inculcate the ability to evaluate geographical problems effectively and demonstrate a proficiency in knowledge of essential concepts of physical and human geography including: describing man-environment, and nature-society interaction. Students will demonstrate an appreciation and respect for the diversity of perspectives, world-views, and cultures, showing an awareness and responsibility for the environment.

Programme Specific Outcomes:

1. To orient the students towards identification and analysis of various facets of geographical features.
2. To inculcate the basic knowledge of weather and climate.
3. To expose the students to the basic knowledge of oceanography.
4. To develop students' aptitude for acquiring basic skills of carrying out field survey.
5. To facilitate the students to learn skills of map making.
6. To facilitate students to learn the importance of natural environment, resources and sustainable development.
7. To inculcate the knowledge of regional variations.
8. To expose the students to the basic theory of the remote sensing, Geographical Information System (GIS).

Course Outcome:

Course Code	Course	Course Outcome
BA 110	Physical Geography-I:Geomorphology	After completing the course, the students will have ability to: 1. Understand the functioning of Earth systems in real time and analyze how the natural and anthropogenic operating factors affect the

		development of landforms. 2. Distinguish between the mechanisms that control these processes. 3. Assess the roles of structure, stage and time in shaping the landforms, interpret geomorphologic maps and apply the knowledge in geographical research.
BA 110/P	Practical Geography: Cartography and Field Survey	After completing the course, the students will have ability to: 1. Read and prepare maps. 2. Comprehend locational and spatial aspects of the earth surface. 3. Use the apparatuses of chain tape survey.
BA 210	Physical Geography II: Climatology and Oceanography	After completing the course, the students will have ability to: 1. Understand the elements of weather and climate and its impacts at different scales. 2. Comprehend the climatic aspects and its bearing on planet earth. 3. Understand the oceanic process and availability of resources.
BA 210/P	Practical Geography: Cartography and Weather Maps	After completing the course, the students will have ability to: 1. Read and prepare maps. 2. Comprehend locational and spatial aspects of the earth surface. 3. Use and importance of maps for regional development and decision making.
BA 310	Geography of Resources and Environment	After completing the course, the students will have ability to: 1. Understand the dynamic interactive relationship between man and environment. 2. Have sound understanding on distribution, utilization and proper management of natural resources at global level. 3. Make assessment and review of planning related to environment and natural resources.

BA 310/P	Practical Geography: Cartography	After completing the course, the students will have the ability to: 1. Know the various techniques and methods of presentation of the data. 2. Draw the Bars and Tables in quantitative research reports.
BA 410	Geography of Punjab	After completing the course, the students will have ability to: 1. Know the physical divisions of the Punjab state, its area, land utilization, drainage, soils, etc. 2. Know about all the districts and other sub-political divisions of the Punjab state. 3. Know the distribution of different mineral and power resources of the Punjab state and they will suggest ways for their proper utilization. 4. Know the different economic and geographic problems faced by their state and they will suggest the ways for its solutions.
BA 410/P	Practical Geography: Cartography	After completing the course, the students will have ability to: 1. Know the conventional signs used on the topographical maps and they will easily read the maps for various purposes. 2. Know the different type of the maps and their uses in various aspects of the life. 3. Know the different units of measurement of the land and they will be able to draw a plan of any site with the help of Chain, Tape, Trough Compass, etc.
BA 510	World Regional Geography	After completing the course, the students will have ability to: 1. Know the geographical location of all the

		continents on the earth. 2. Know the distribution of the natural and human resources in the world. 3. Be well prepared for the competitive exams.
BA 510/P	Practical Geography: Map Projections	After completing the course, the students will have ability to: 1. Understand the concept of the Map Projections and types and importance of the Map Projections. 2. Know how to make maps by using various Map Projections.
BA 610	Geography of India	After completing the course, the students will have ability to: 1. Understand the physical profile of the country. 2. Study the resource endowment and its spatial distribution and utilization for sustainable development. 3. Synthesize and develop the idea of regional dimensions.
BA 610/P	Practical Geography: Field Methods in Geography	After completing the course, the students will have ability to: 1. Appreciate the strength and application of remote sensing. 2. Map the resources, their location and availability. 3. Apply this knowledge for sustainable development 4. Conduct proper field work for the collection of primary data to bring out grassroots realities. 5. Make use of proper tools and surveying methods for measurement in context of collection and processing of data. 6. Prepare a report based on field data.

Program Name: B. Sc. (Hons.) Mathematics

Learning Objectives:

B.Sc. graduates apply their broad knowledge of science across a range of fields, with in-depth knowledge in at least one area of study, while demonstrating an understanding of the local and global contexts in which science is practiced.

Program Specific Outcomes:

1. Student willbe able to explain the core ideas and the techniques of mathematics at the college level.
2. Student willbe able to recognize the power of abstraction and generalization, and to carry out investigative mathematical work with independent judgment.
3. Student willbe able to setup mathematical models of real world problems and obtain solutions in structured and analytical approaches with independent judgment.
4. Student willbe able to carry out objective analysis and prediction of quantitative information with independent judgment.
5. Student willbe able to communicate effectively about mathematics to both lay and expert audiences utilizing appropriate information and communication technology.
6. Student willbe able to work independently, and to collaborate effectively in team work and team building.
7. Student will be able to conduct self-evaluation, and continuously enrich themselves through lifelong learning.
8. Student will be able to communicate to lay audiences and arouse their interest in the beauty and precision of mathematical arguments and science.
9. Student willbe able to recognize the importance of compliance with the ethics of science and being a responsible citizen towards their community and a sustainable environment.
10. Student willbe able to cultivate a mathematical attitude and nurture the interests.

Course Code	**Course**	**Course Outcome**

BHMCC-101	CALCULUS-I	1. Find the higher order derivative of the product of two functions. 2. Conceive the concept of asymptotes and obtain their equations. 3. Learn about the tracing of curves in Cartesian and polar form. partial derivatives and its applications. 4. Find the area under a given curve, length of an arc of a curve when the equations are given in parametric and polar form. 5. Find the area and volume by applying the techniques of double and triple integrals
BHMCC - 102	MATRICES &THEORY OF EQUATIONS.	After completing this course the learner should be able to 1. solve a System of Linear equations using the inverse of a matrix 2. Familiarize characteristic roots and characteristic vectors. 3. To find the inverse of a matrix by Cayley-Hamilton theorem. a. Analyze different forms of equations and finding their roots b. Understand relation between roots and coefficients 4. Derive methods for finding the solution of cubic and bi-quadratic equations.
BHMCC - 201	CALCULUS-II	After completing this course the learner should be able to 1. Find the double integral in polar form and triple integral in rectangular, cylindrical and spherical form. 2. Conceive the concept of convergence of series. 3. Learn about limit continuity and differentiability of several variable. 4. Determine gradient vector fields and find potential functions. 5. find the equation to tangent, normal at a point on a conic
BHMCC 202	COORDINATE GEOMETRY	After completing this course the learner should be able to 1. Find the polar equation of a line, circle,

		tangent and normal to conics. 2. Find the tangent line tangent plane, angle of intersection of two spheres and radical planes. 3. Learn about concepts of cylinder.
BHMCC - 301	GROUP THEORY	After completing this course the learner should be able to 1. Assess properties implied by the definitions of groups and rings, 2. Use various canonical types of groups (including cyclic groups and groups of permutations) and canonical types of rings (including polynomial rings and modular rings), 3. Analyze and demonstrate examples of subgroups, normal subgroups and quotient groups, 4. Analyze and demonstrate examples of ideals and quotient rings, 5. Use the concepts of isomorphism and homomorphism for groups and rings
BHMCC - 302	ANALYSIS-I	Upon completion of this course, students should be able to: 1. Describe the real line as a complete, ordered field 2. Determine the basic topological properties of subsets of the real numbers 3. Use the definitions of convergence as they apply to sequences, and functions, 4. Determine the continuity, differentiability 5. Expand a function using Taylor's and Maclaurin's series. 6. Recall the defining properties of a metric space, and determine whether a given function defines a metric 7. Determine how that a function is or is not a metric 8. Show that a set in a metric space is or is not open and/or closed 9. Show that a function between metric spaces is or is not continuous 10. Show that a sequence in a metric space is or is not convergent

		11. Show that a metric space is or is not complete 12. Familiarize with open sets, closed sets and Cantor set
BHMCC - 303	ORDINARY DIFFERENTIAL EQUATIONS	Upon completion of this course, students should be able to: 1. Obtain an integrating factor which may reduce a given differential equation into an exact one and eventually provide its solution. 2. Identify and obtain the solution of Clairaut's equation. 3. Fine the complementary function and particular integrals of linear differential equation. 4. Familiarize the orthogonal trajectory of the system of curves on a given surface.
BHMCC - 401	ANALYSIS-II	After completing this course the learner should be able to 1. Understand Integrability and theorems on integrability 2. Recognize the difference between pointwise and uniform convergence of a sequence of functions 3. Illustrate the effect of uniform convergence on the limit function with respect to continuity, differentiability, and integrability 4. Develops a knowledge about Riemann Integration and applies into problems 5. Determine the Riemann integrability and prove a selection of theorems concerning integration. 6. Learn about convergence of improper integral and uniform convergence sequence and series of function.
BHMCC - 402	MECHANICS	After the completion of this course the student will be able to 1. Understand the concept of Force, Moment of a force, couple. 2. Find the general equations of equilibrium. 3. Solve the problems arising from structures. 4. Understand Laws of Coulomb friction and their application to simple and complex

		surface learn the concept of power. 5. Understand the relation between second moments and products of area, polar moment of area, principal axes.
BHMCC 403	NUMERICAL METHODS	After completing this course the learner should be able to 1. Derive numerical methods for approximating the solution of problems of continuous mathematics, 2. Analyze the error incumbent in any such numerical approximation, 3. Implement a variety of numerical algorithms using appropriate technology 4. Compare the viability of different approaches to the numerical solution of problems arising in roots of solution of non-linear equations, interpolation and approximation, numerical differentiation and integration, solution of linear systems.
BHMCC - 501	LINEAR ALGEBRA	Upon completion of this course, students should be able to: 1. Understand the idea about vector space and metric space 2. Analyze finite and infinite dimensional vector spaces and subspaces over a field and their properties, including the basis structure of vector spaces 3. Use the definition and properties of linear transformations. 4. Describe the matrices of linear transformations and change of basis, including kernel, range and isomorphism. 5. Compute with the characteristic polynomial, eigen-vectors, eigen-values and Eigen spaces. 6. Compute the geometric and the algebraic multiplicities of an eigen-values and apply the basic diagonalization result

BHMCC - 502	PARTIAL DIFFERENTIAL EQUATIONS &ITS APPLICATI	Upon completion of this course, students should be able to: 1. Describe the origin of partial differential equation and distinguish the integrals of first order linear partial differential equation into complete, general and singular integrals. 2. Use Lagrange's method for solving the first order linear partial differential equation 3. Solve differential equations of first order using graphical, numerical, and analyticalmethods. 4. Solve linear and non-linear differential equations of second and higher order 5. Solve linear differential equations using the Charpit method. 6. Find Fourier series solutions. 7. Solve the Heat, Wave and Laplace equation by using method of separation of variables.
BHMCC - 503	DISCRETE MATHEMATICS	After the completion of this course the student will be able to 1. Understand the new topics Graph Theory, Poset and Lattices 2. Understand the basic concepts of graphs, directed graphs, and weighted graphs and able to present a graph by matrices 3. Understand the properties of trees and able to find a minimal spanning tree for a given weighted graph 4. Understand Eulerian and Hamiltonian graphs. 5. Understand the concept of Recurrence Relation and generating functions. 6. Learn the concept of Boolean function and its application to logic gates.
BHMCC - 504	LEBESGUE INTEGRATION & FOURIER SERIES	After the completion of this course the student will be able to 1. Understand the concept of outer measure Measurable sets, Lebesgue measure, construction of non-measurable sets. 2. Learn about the concept of measurable

		functions and lebesgue integration of various functions 3. Conceive the concept of functions of bounded variation and orthogonal and orthonormal system of functions.
BHMCC - 505	NUMBER THEORY-I	After completing this course the learner should be able to 1. Learn about the division algorithm 2. Explain the basic properties of congruence 3. Implement the application of Euclidean algorithm and various theorems related to the topic. 4. Learn about the concept of divisibility, congruence, residue classes, arithmetic functions and various theorems 5. Find the solution of Diophantine equations and farey sequences
BHMCC - 601	CALCULUS OF SEVERAL VARIABLES & IMPROPER INTEGRALS	After the completion of this course the student will be able to 1. Learn about the concept of Limit and continuity of functions of severable, partial derivatives, directional derivatives, derivatives and their elementary properties. 2. Learn the proof and application of Mean value theorem for differentiable functions. 3. Find the Higher order derivatives, Taylor's Theorem for function of n-variables. Inverse function theorem, Implicit function theorem. 4. Determine the Maxima and Minima using the method of Lagrange multipliers. 5. Find the Riemann integral of a bounded function in $\mathbf{R_n}$. 6. Understand Lebesgue's criterion for existence of a multiple Riemann Integral. 7. Learn about the convergence Improper integrals. 4.
BHMCC - 602	RING & MODULES	After the completion of this course the student will be able to 1. Understand the concept of Rings, sub rings, Sum of Rings, Characteristics of Ring, Product of Rings, Ideals, and algebra of

		Ideals. 2. Learn the concept of Quotient Rings, Homomorphism of Rings, Imbedding of Rings, Maximal Ideal. Euclidean domains, Prime and Irreducible elements, Polynomial Rings, Greatest common divisor, Unique Factorization domains. 3. Learn the concept of Modules, sub modules, Direct sum of Modules, Quotient modules, Free modules, Comparison with vector spaces, Homomorphism's, Simple Modules.
BHMCC - 603	NUMBER THEORY-II	After the completion of this course the student will be able to 1. Understand about Continued fractions, periodic continued fractions, approximations of irrationals by rational, Pell's equation, Partitions. Ferrer's graphs, generating functions, Euler's identity, Jacobi's Triple Product formula. 2. Lear the concept of Binary quadratic forms, positive definite binary quadratic forms. Hermite's estimate on the minima of positive definite quadratic forms and its application. 3. Conceive the concept of Minkowski's Theorem in Geometry of Numbers and its applications.
BHMCC - 604	PROBABILITY & STATISTICS	After the completion of this course the student will be able to 1. Understand the basic concepts of probability. 2. Find mathematical expectation, moments, moment generating function, characteristic function. 3. Conceive the concepts of Uniform, Binomial, Poisson, Geometric, Negative binomial and Normal and its applications. 4. Find the correlation coefficient, multiple

		correlation coefficients, joint moment generating function (jmgf) and calculation of covariance (from jmgf), linear regression for two variables.
BHMCC - 605	MECHANICS	After the completion of this course the student will be able to 1. Understand the concept of Force, Moment of a force, couple. 2. Find the general equations of equilibrium. 3. Solve the problems arising from structures. 4. Understand Laws of Coulomb friction and their application to simple and complex surface learn the concept of power. 5. Understand the relation between second moments and products of area, polar moment of area, principal axes.

Program Name: B. Sc. (C.S.M)

PROGRAM OUTCOMES:

B.Sc. graduates apply their broad knowledge of science across a range of fields, with in-depth knowledge in at least one area of study, while demonstrating an understanding of the local and global contexts in which science is practiced. The main objective of this course is to cultivate statistical thinking among students by acquainting them with various statistical methods and their applications in different fields. The courses give them in-depth knowledge in theoretical aspects of the subject whereas the students are exposed to the application of the subject in various fields like industry, agriculture and population studies. Also, the students are trained in using software packages for data analysis.

Program Specific Outcomes:

1. Students will be able to apply critical thinking skills to solve problems that can be modeled mathematically, to critically interpret numerical and graphical data, to read and construct mathematical arguments and proofs.
2. Students will be able to use computer technology appropriately to solve problems and to promote understanding, to apply mathematical knowledge to a career related to mathematical sciences or in post - baccalaureate studies.
3. Students will able to understand and apply the fundamental principles, concepts and methods of statistics in key areas of science and multidisciplinary fields.
4. Students will be able demonstrate problem solving, analytical and logical skills to provide solutions for the scientific requirements.

5. Students will be able apply theoretical concepts to design experiments and develop programs.

Course code	Course	Course outcome
BCSM 103	MATRICES & CALCULUS	Upon completion of this course, students should be able to: 1. Understand matrices and their application to system of linear equations. 2. Familiarize with characteristic roots and characteristic vectors. 3. To find the inverse of a matrix by Cayley-Hamilton theorem. 4. Learn about limit continuity, uniform continuity, discontinuity and differentiability. 5. Learn the concept of asymptotes and obtain their equations. 6. Learn about the tracing of curves.
BCSM 102	STATISTICAL METHODS	Upon completion of this course, students should be able to: 1. To understand the basic concepts of statistics and data collections. 2. Summarize data graphically by displaying data using methods from descriptive statistics, interpreting data in tables graphically by using histograms, frequency distributions. 3. How to calculate and apply measures of location and measures of dispersion -- grouped and ungrouped data cases. 4. Identify shape of a distribution of data. 5. Compute and interpret the results of Bivariate Regression and Correlation Analysis. 6. To understand time series, and to define index numbers- explain its uses and methods.
BCSM 101	COMPUTER FUNDAMENTALS	Upon completion of this course, students should be able to:

		1. Learn about the tracing of curves. 2. Tolearn basic principles of Computer system. 3. To learn basic of word processing,spreadsheet and presentation. 4. To be able to access the Internet, and internet application
BCSM 203	THEORY OF EQUATIONS & ORDINARY DIFFERENTIAL EQUATIONS	Upon completion of this course, students should be able to: 1. Analyze different forms of equations and finding their roots 2. Understand relation between roots and coefficients 3. Derive methods for finding the solution of cubic and bi-quadratic equations. **4.** Understand De Moivre's theorem and its applications. 5. Familiarize with first order and higher order differential equations. 6. Solve first order and higher degree differential equations.
BCSM 202	PROBABILITY THEORY	Upon completion of this course, students should be able to: 1. Demonstrate an understanding of the basic concepts of probability and random variables. 2. Understand difference between subjective, relative frequency, and classical probabilities and be able to identify which approach was used to assign a probability in a given scenario. 3. Identify from a probability scenario events that are simple, complementary, mutually exclusive, and independent. 4. Explain the difference between events that are mutually exclusive and independent. 5. Correctly apply multiplication rule for two independent events, the addition rule for union of two events, and the Baye's Theorem. 6. Calculate the marginal/joint probability mass/ density function, conditional probability density function and conditional probability distribution function for discrete/continuous random variables. 7. Calculate expectation, mean, variance and moment generating function of continuous and

		discrete distributions. 8. Calculate probabilities and expectation fordiscrete(Binomial, Poisson, negative Binomial, Geometric and Hyper geometric distribution) and continuous (Uniform, Normal, Exponential distribution). 9. Approximate Binomial probabilities by Poisson probabilities. 10. Use Normal approximation to approximate Binomial probabilities. 11. Applications of the memory less property of an exponential random variable.
BCSM 201	COMPUTER PROGRAMMING USING C	Upon completion of this course, students should be able to: 1. Understand fundamentals of programming such as variables, conditional and iterative execution, methods, etc. 2. To be aware of the important topics and principles of software development. 3. To have the ability to write a computer program to solve specific problems.
BCSM303	REAL ANALYSIS	Upon completion of this course, students should be able to: 1. Describe the real line as a complete, ordered field. 2. Determine the basic topological properties of subsets of the real numbers. 3. Use the definitions of convergence as they apply to sequences, series and functions. 4. Understand uniform convergence.
BCSM302	STATISTICAL INFERENCE-I	Upon successful completion, students will have the knowledge and skills to: 1. Recognize the difference between a population and a sample, and between a parameter and a statistic 2. Explain in detail the notation of a parametric model and point estimation of the parameters of those models. 3. Explain I detail the demonstrate approaches to include a measure of accuracy for estimation procedures and our confidence in them by

		examining the area of interval estimation. 4. Applications of Neyman-Factorization theorem. 5. Demonstrate understanding of the theory of maximum likelihood estimation for a scalar parameter. 6. Correctly identify the appropriate null and alternative hypotheses, including one or two sided, for a given study objective 7. Identify correctly what the Type I and Type II errors would be when presented with the results of a statistical study. 8. Explain how sample size, level of confidence, and standard deviation can affect width of confidence intervals (one proportion, one mean, and two mean difference). 9. From a given set of summary statistics, calculate the Z test statistic and p-value, and make the appropriate statistical decision for one proportion, one mean, and two mean differences. 10. Ability to conduct appropriate hypothesis tests for comparing two or more means. 11. Learn non-parametric test such as the Chi-Square test for Independence as well as Goodness of Fit. 12. Explain contextually that the p-value is the result of the sample producing a sample statistic with a large difference from the hypothesized value and that this difference was unlikely to be obtained if the hypothesized value was true. 13. Perform all of the steps in a hypothesis test of independence of two categorical variables from contingency table data, from formulating proper hypotheses to calculating expected counts under the null hypothesis to calculating the chi-squared statistic to interpreting the value of the statistic.
BCSM301	DATA STRUCTURE	Upon completion of this course, students should be able to: 1. To understanding about writing algorithms and

		step by step approach in solving problems with the help of fundamental data structures. 2. To understand the abstract data types stack, queue, deque, and list.To understand prefix, infix, and postfix expression formats
BCSM403	ALGEBRA	Upon completion of this course, students should be able to: 7. Assess properties implied by the definitions of groups and rings. 8. Use various canonical types of groups (including cyclic groups and groups of permutations) and canonical types of rings (including polynomial rings and modular rings). 9. Analyze and demonstrate examples of subgroups, normal subgroups and quotient groups. 10. Use the concepts of isomorphism and homomorphism for groups.
BCSM402	SAMPLING TECHNIQUES	Upon successful completion, students will have the knowledge and skills to: 1. Students can identify the population of interest, parameter, sample and statistics from a study. 2. Distinguish between an observational study and an experiment. 3. Identify whether a probability sampling method or a non-probability sampling method was used to obtain the study data. 4. Determine if the probability method used to obtain data was a simple random sample, stratified, or cluster. 5. Explain the difference between random assignment and random selection and how these two concepts affect inference. 6. Given a study, recognize if potential biases such as response, nonresponse, or selection exist. 7. Calculate an approximate margin of error for a sample survey.
BCSM401	DATABASE MANAGEMENT SYSTEM	1. To understand the different issues involved in the design and implementation of a database system. 2. To study the physical and logical database designs, database modeling, relational,

		hierarchical, and network models. 3. To understand and use data manipulation language to query, update, and manage a database the given real world problem.
BCSM503(A)	GEOMETRY AND VECTOR CALCULUS	Upon completion of this course, students should be able to: 6. Determine gradient vector fields and find potential functions. 7. find the equation to tangent, normal at a point on a conic 8. Find the polar, tangent and normal to conics. 9. Find the tangent line tangent plane, angle of intersection of two spheres and radical planes. 10. about concepts of cylinder, Cone and their properties
BCSM 503(B)	METRIC SPACES	Upon completion of this course, students should be able to: 1. Describe the real line as a complete, ordered field. 2. Determine the basic topological properties of subsets of the real numbers. 3. Use the definitions of convergence as they apply to sequences, and functions. 4. Determine the continuity, uniform continuity and discontinuity. 5. Learn the defining properties of a metric space and determine whether a given function defines a metric. 6. Determine how that a function is or is not a metric. 7. Show that a set ina metric space is or is not open and/or closed. 8. Show that a function between metric spaces is or is not continuous. 9. Show that a sequence in a metric space is or is not convergent. 10. Show that a metric space is or is not complete. 11. Familiarize with open sets, closed sets and Cantor set. 12. Learn about the concept of compactness, connectedness and their properties.
BCSM 502	LINEAR PROGRAMMING	Upon successful completion, students will have the knowledge and skills to: 1. Formulate optimization problems. 2. Understand and apply the concept of optimality

		criteria for various type of optimization problems. 3. Solve various constrained and unconstrained problems in single variable as well as multivariable. 4. Solve the transportation and assignment problems. 5. Apply the methods of optimization in real life situation. 6. Solve the Non-linear problems based on real life situations.
BCSM 501	OPERATING SYSTEM	Upon successful completion, students will have the knowledge and skills to: 1. To learn the fundamentals of Operating Systems. 2. To learn the mechanisms involved in memory management in contemporary OS. 3. To gain knowledge on distributed operating system concepts that includes architecture, Mutual exclusion algorithms, deadlock detection algorithms and agreement protocols
BCSM 603(A)	INTEGRAL CALCULUS	Upon completion of this course, students should be able to: 1. Integrate hyperbolic and inverse hyperbolic functions. 2. Evaluate Reduction formulae for integrals of rational, trigonometric, exponential and logarithmic functions and their combinations. 3. Understand the concept of quadrature, rectification, Improper integrals and their convergence. 4. Develops a knowledge about Riemann Integration and applies into problems 5. Determine the Riemann inerrability and prove a selection of theorems concerning integration. 6. Find double and triple integrals and their applications to evaluation of areas and volume.
BCSM 603(B)	PARTIAL DIFFERENTIAL EQUATIONS & ITS APPLICATIONS	Upon completion of this course, students should be able to: 7. Describe the origin of partial differential equation and distinguish the integrals of first order linear partial differential equation into complete, general and singular integrals. 8. Use Lagrange's method for solving the first order linear partial differential equation. 9. Solve differential equations of first order using

		10. graphical, numerical, and analytical methods. • Solve and apply linear differential equations of second order (and higher). • Solve linear differential equations using the Charpit method. • Find Fourier series solutions. • Develop the ability to apply differential equations to significant applied and/or theoretical problems. 11. Demonstrate their ability to write coherent mathematical proofs and scientific arguments needed to communicate the results obtained from differential equation models.
BCSM 602	DESIGNS OF EXPERIMENT	Upon successful completion, students will have the knowledge and skills to: 1. Recognize the situation in which the analysis of variance (ANOVA) is appropriate and be able to perform one-way ANOVA 2. Recognize the situation in which the analysis of variance (ANOVA) is appropriate and be able to perform one-way ANOVA and two way ANOVA. 3. Encounter the principles of randomisation, replication and stratification, and understand how they apply to practical examples. 4. Explore the general theory of factorial and block designs and understand this theory sufficiently to find appropriate designs for specific applications. 5. Statistical analysis of all the particular designs that were introduced (including interpretation of e.g. block effects or interaction effects, adapted to the design). 6. Evaluate designs using common optimality criteria and used them to critically compare competing designs.
BCSM 601	SOFTWARE ENGINEERING	Upon successful completion, students will have the knowledge and skills to: 1. To learn the basic SW engineering methods and practices and their appropriate application. 2. Describe software engineering layered technology and Process framework. 3. A general understanding of software process models such as the waterfall and evolutionary

		models.

Program Name: Master of Science (Mathematics)

Learning Objectives:

The students of M. Sc. Mathematics programme will have the knowledge, abilities and insight in Mathematics and computational techniques so that they are able to work as mathematical professional.Students will have in-depth knowledge of a broad range of methods and techniques for analyzing and solving problems within applicable fields and good theoretical insight and the ability to apply theory to the development of methods and techniques for solving a problem. Students will be able to tackle complex problems, reveal structures and clarify problems, discover suitable analytical and/or numerical methods and interpret solutions. They will have demonstrate an advanced knowledge and fundamental understanding of a number of specialist mathematical topics, including the ability to solve problems related to those topics using appropriate tools and techniques.

Outcome of the program: The successful completion of this program will enable the students to:

1. Demonstrate the ability to conduct research independently and pursue higher studies towards the Ph.D. degree in mathematics and computing.
2. Carry out development work as well as take up challenges in the emerging areas of Industry.
3. Demonstrate competence in using mathematical and computational skills to model, formulate and solve real life applications.
4. Acquire deep knowledge of different mathematical and computational disciplines so that they can qualify NET/ GATE examination.

Course Outcome:

Course Code	Course	Course Outcome
MM101	LABESGUE THEORY OF INTEGRATION	Upon completion of this course, students should be able to: 1. Understand the fundamental concepts of Mathematical Analysis. 2. State some of the classical theorems in of Advanced Real Analysis. 3. Be familiar with measurable sets and functions. 4. Integrate a measurable function. 5. Understand the concept of Lebesgue Theory of

		Integration**.**
MM 102	ALGEBRA-I	Upon completion of this course, students should be able to: **1.** Understand normal and subnormal series, solvable groups, nilpotent groupsand composition series. **2.** Derive Jordan-Holder theorem for groups. **3.** Understand permutation groups. 4. Understand the structure theory of groups. 5. Derive fundamental theorem of finitely generated abelian groups, Sylow's theorems. 6. Understand groups of order p^2, pq. 7. Understand ideals, algebra of ideals, maximal and prime ideals, ideal in quotient rings. 8. Learn the concepts of field of quotients of integral domain and rings of endomorphisms of abelian groups and prove the theorems concerning the topic.
MM 103	DIFFERENTIAL GEOMETRY	On satisfying the requirements of this course students will have the knowledge and skills to 1. Explain the concepts and language of differential geometry and its role in modern mathematics. 2. Analyze and solve complex problems using appropriate techniques from differential geometry. 3. Obtain sound knowledge in understanding the basic concepts in geometry of curves and surfaces in Euclidean space, especially. 4. Acquire mastery in solving typical problems associated with the theory. 5. Gain sufficient knowledge for generalizing these concepts to higher dimensions.

MM 104	LINEAR ALGEBRA	On completion of this unit successful students will be able to: 1. Understand the concepts of linear transformation, the algebra of linear transformation, isomorphism, representation of transformations by matrices, linear functional, and the transpose of linear transformation. 2. Understand characteristic values, annihilating polynomials, invariant subspaces, simultaneous triangulation, simultaneous diagonalization, direct sum decompositions, invariant direct sums, the primary decomposition theorem. 3. Learn the Rational and Jordan forms and inner product spaces and their applications.
MM 105	OPTIMIZATION TECHNIQUES	On completion of this unit successful students will be able to: 7. Formulate optimization problems. 8. Understand and apply the concept of optimality criteria for various type of optimization problems. 9. Solve various constrained and unconstrained problems in single variable as well as multivariable. 10. Solve the transportation and assignment problems. 11. Apply the methods of optimization in real life situation. 12. Identify strategic situations and represent them as games. 13. Solve simple games using various techniques. 14. Analyze economic situations using game theoretic techniques. 15. Recommend and prescribe which strategies to implement.
MM 106	NUMBER THEORY	On completion of this unit successful students will be able to: 1. Learn the foundational concepts of number theory. 2. Understand the concept of arithmetical functions. 3. Learn Dirichlet inverses and Mobius inversion formula, multiplicative functions, dirichlet

		multiplication. 4. Derive the inverse of a completely multiplicative function, generalized convolutions. 5. Learn some elementary theorems on the distribution of prime numbers. 6. Prove the theorems related to number theory. 7. Study and understand groups.
MM 201	ALGEBRA-II (RINGS& MODULUS)	On completion of this unit successful students will be able to: 8. Understand the concept of unique factorization domains, principal ideal domains, euclidean domains, polynomial rings over UFD, rings of fractions. 9. Understand the concept of modules, submodules, direct sum of submodules, free modules, difference between modules and vector spaces, quotient modules, Homomorphism, simple modules, modules over PID. 10. Learn the concept of modules with chain conditions, artinian modules, noetherian modules, artinian Implies noetherian in rings, composition series of a module, length of a module, Hilbert Basis Theorem. 11. Learn the concept of Cohen Theorem, Radical Ideal, Nil Radical, Jacobson Radical, radical of an artinian ring. Nil Radical and Jacobson Radical of Polynomial Rings R[x], R commutative.
MM 202	COMPLEX ANALYSIS-I	Upon completion of this course, students should be able to: 1. Represent complex numbers algebraically and geometrically. 2. Define and analyze limits and continuity for complex functions as well as consequences of continuity. 3. Apply the concept and consequences of analyticity and the Cauchy-Riemann equations and of results on harmonic and entire functions including the fundamental theorem of algebra. 4. Analyze sequences and series of analytic

		functions and types of convergence. 5. Evaluate complex contour integrals directly and by the fundamental theorem, apply the Cauchy integral theorem in its various versions, and the Cauchy integral formula. 6. Represent functions as Taylor, power and Laurent series, classify singularities and poles, find residues and evaluate complex integrals using the residue theorem.
MM 203	TOPOLOGY-I	Upon completion of this course, students should be able to: 1. Define and illustrate the concept of topological spaces and continuous functions. 2. Define and illustrate the concept of product topology. 3. Prove a selection of theorems concerning topological spaces, continuous functions and product topologies. 4. Define and illustrate the concepts of the separation axioms. 5. Define connectedness and compactness, and prove a selection of related theorems**.**
MM 204	DIFFERENTIAL EQUATIONS	Upon completion of this course, students should be able to: 1. Understand the fundamental concepts of differential equations like existence of solution of ODE of first order, initial value problem, Ascoli's Lemma, Gronwall's inequality, Cauchy Peano Existence Theorem, Uniqueness of Solutions. 2. Learn and derive the solutions system of differential equations, nth order differential equation, existence and uniqueness theorems for system and higher order equations. 3. Learn and find the solution of Sturm's problems and the concept of separation theorem, Sturm's fundamental comparison theorem, Sturm Liouville boundary value problem. **4.** Be familiar with the concept of characteristic values & characteristic functions, orthogonality of characteristic functions, expansion of a function in a series of orthonormal functions.

MM 205	NUMERICAL METHODS	On completion of this unit successful students will be able to: 11. Derive numerical methods for approximating the solution of problems of continuous mathematics. 12. Analyze the error incumbent in any such numerical approximation. 13. Implement a variety of numerical algorithms using appropriate technology. 14. Compare the viability of different approaches to the numerical solution of problems arising in roots of solution of non-linear equations, interpolation and approximation, numerical differentiation and integration, solution of linear systems.
MM 206	DISCRETE MATHEMATICS	Upon completion of this course, students should be able to: 1. Students will understand the language of graphs and trees. 2. Students will understand the use of graphs as modes. 3. Students will understand various types of trees and methods for traversing trees. 4. Solve problems using basic graph theory. 5. Determine whether graphs are Hamiltonian and/or Eulerian. 6. Solve problems involving vertex & edge connectivity and planarity. 7. Model real world problems using graph theory. 8. Learn the concept of Boolean function and its application to logic gates. 9. To be familiar with concepts of posets and lattices.
MM 301	LINEAR ALGEBRA	On completion of this unit successful students will be able to: 1. Understand the concepts of linear transformation, the algebra of linear transformation, isomorphism, representation of transformations by matrices, linear functional, and the transpose of linear transformation. 2. Understand characteristic values, annihilating polynomials, invariant subspaces, simultaneous triangulation, simultaneous diagonalization, direct sum decompositions, invariant direct

		sums, the primary decomposition theorem. 3. Learn the Rational and Jordan forms and inner product spaces and their applications.
MM 302	FIELD THEORY	After the completion of this course the student will be able to: 1. Understand bacsic concepts of Fields, Algebraic and transcendental elements, Irreducible polynomials. Gauss Lemma, Eisenstein's criterion. 2. Find the Adjunction of roots, Kronecker's theorem, algebraic extensions, algebraically closed fields. Splitting fields, Normal extensions, multiple roots, finite fields, Separable extensions, perfect fields, primitive elements, and Lagrange's theorem on primitive elements. 3. Be familiar with automorphism groups and fixed fields, Galois extensions, Fundamental theorem of Galois theory, Fundamental theorem of algebra, Roots of unity and cyclotomic polynomials. 4. Understand Cyclic extension, Polynomials solvable by radicals, Symmetric functions, cyclotomic extension, quintic equation and solvability by radical
MM 303	DIFFERENTIABLE MANIFOLDS	On completion of this unit successful students will be able to: 1. Understand the fundamental concepts of differentiable Manifolds. 2. Understand differentiable maps on manifolds, tangent vectors and tangent space, cotangent space, vector fields, Lie-bracket of vector fields, immersions and embeddings. 3. Understand tensors and forms, exterior product and Grassman algebra, connections, difference tensor, existence of parallelism and geodesics, covariant derivative, exterior derivative contraction, Lie-derivative. 4. Understand torsion tensor and curvature tensor of a connection, properties of torsion

		and curvature tensor. **5.** Understand Riemannian manifolds fundamental theorem of Riemannian geometry, Riemannian connection, Riemannian curvature tensor and its properties.
MM 304	MATHEMATICAL STATISTICS	On completion of this unit successful students will be able to: 1. Understand the concept of Probability distributions. 2. Find mathematical expectation, moments, moment generating functions, product moments, moments of linear combinations of random variables, conditional expectations. 3. Be familiar with study of various discrete distributions. 4. Be familiar with study of various continuous distributions. 5. Be able apply test of significance. Be able to find point estimation.
MM 305	CLASSICAL MECHANICS	On completion of this unit successful students will be able to: 1. Understand the concept Basic Principles of Mechanics of a Particle and a System of Particles. 2. Be able to understand Variational Principles and Lagrange's Equations. 3. Understand Conservation Theorems and Symmetry Properties. 4. Be familiar with the Two-Body Central Force Problem One Dimensional Problem and the Classification of Orbits, The Virial Theorem, Conditions for Closed Orbits, Bertrand's Theorem. 5. Understand the Kepler Problem: Inverse Square Law of Force, The Motion in Time in the Kepler Problem, Kepler's Laws, Kepler's Equation, The Laplace-Runge-Lenz Vector. 6. Understand Scattering in a Central Force Field.
MM 306	TOPOLOGY-II	Upon completion of this course, students should be

		able to: 1. Define and illustrate the concepts of the axioms of countability and prove the theorems concerning the topic. 2. Understand concept of regularity, normality, complete regularity, complete normality and the theorems concerning those axioms. 3. Understand the concept of Nets and Filters, their relation and prove the related theorems. 4. Define and understand identification topology, quotient spaces and prove the theorem related to the topic. 5. Understand the concept of cones, suspensions, and week topology and adjunction spaces. 6. Prove the theorems related concerning to the topic product of countable regular, T_2, completely regular, normal and tichonov spaces.
MM 307	FUZZY SETS & ITS APPLICATIONS	After the completion of this course the student will be able to: 1. Understand fuzzy sets and fuzzy set operations 2. Understand fuzzy relation and fuzzy logic 3. Find the optimal solution of mathematical programming problems having uncertain and imprecise data. 4. Solve fuzzy relation equation. 5. Perform fuzzy arithmetic operations. 6. Find fuzziness and uncertainty of fuzzy and classical sets 7. Handle the real world problem in engineering having uncertain and imprecise data.
MM 401	THEORY OF LINEAR OPERATORS	After the completion of this course the student will be able to: 1. Understand spectrum of linear operators on finite dimensions normed linear spaces. 2. Understand spectrum of linear operators on any dimensions normed linear spaces. 3. Find spectrum of linear operators. 4. Understand spectrum and resolvent of Banach Algebra. 5. Understand spectrum of compact linear operators. 6. Understand spectral properties of bounded self adjoint linear operators on a complex Hilbert

		spaces.
MM 402	MATHEMATICAL METHODS	After the completion of this course the student will be able to: 1. Understand linear integral equations of first and second kind, Abel's problem. 2. Learn Relation between linear differential equation and Volterra's equation, Non linear and Singular equations. 3. Find solution by successive substitutions. 4. Understand Volterra's equation, iterated and reciprocal functions, Volterra's solution of Fredholm's equation. Fredholm's equation as limit of finite system of linear equations, Hadamard's theorem, convergence proof, Fredholm's two fundamental relations. 5. Find Fredholm's solution of integral equation when $D(\lambda)\neq 0$. 6. Find Fredholm's solution of Dirichlet's problem and Neumann's problem, lemmas on iterations of symmetric kernel. 7. Solve simple variational problems, necessary condition for an extremum, Euler's equation. 8. Solve end point problem, variational derivative, Invariance of Euler's equation. 9. Solve fixed end point problem for n-unknown functions, Variational problem in parametric form, functionals depending on higher order derivatives.
MM 403	DIFFERENTIAL GEOMETRY OF MANIFOLDS	After the completion of this course the student will be able to: 1. Understand topological groups, Lie groups and lie algebras, **2.** Understand homomorphism and isomorphism, Lie transformation groups, general linear groups**.** **3.** Learn the concept of Principal fibre bundle, linear frame bundle, associated fibre bundle, Vector bundle, Tangent bundle, Induced bundle, Bundle homomorphism.

		4. Learn the concept of normals, Gauss formulae, Weingarten equations, Lines of curvature, Generalized Gauss and Mainardi–Codazzi equations. 5. Learn the concept of Nijenhuis tensor, Contravariant and covariant almost analytic vector fields, F-connection.
MM 404	FLUID MECHANICS	After the completion of this course the student will be able to: 1. Understand equations of fluid mechanics, Bernoulli's theorem steady irrotational non-viscous compressible flow. 2. Solve three dimensional sources and dipoles, spherical obstacle in a uniform steam Moving sphere, images. 3. Understand the application of complex variable method, two dimensional dipole, superposition, Joukowski's transformation. Milne Thomson circle theorem, Blasius theorem, drag and lift. 4. Be familiar with the concept of Source and vortex filaments. 5. Understand Diffusion of vorticity in an incompressible fluid steady flow through a straight circular pipe.
MM 405	ALGEBRAIC CODING THEORY	After the completion of this course the student will be able to: **1.** Understand the concept of Maximum-Likelihood Decoding and Syndrome Decoding. **2.** Analyze Double Error-Correcting B.C.H. code and Finite Fields Polynomials. **3.** Understand Cyclic Codes. **4.** Apply Quadratic Residue (Q.R.) Codes and find its applications. **5.** Study the concept of Bose-Chaudhuri-Hocquenghem (B.C.H.) Codes and Weight distributions.
MM 406	OPERATIONS RESEARCH	After the completion of this course the student will be able to: 1. Understand and develop Poisson Queueing models. 2. Understand deterministic and stochastic Inventory models.

		3. Understand the concept of Replacement and maintenance. 4. Draw network, find Minimal Spanning Tree. 5. Do optimal scheduling by CPM and Project Evaluation and Review Techniques (PERT).
MM 407	NON LINEAR PROGRAMMING	After the completion of this course the student will be able to: 1. Learn the basic concepts of non-linear programming and solve problems of minima and maxima of convex and concave functions. 2. Solve programming problems with inequality constraints. 3. Solve quadratic programming problems and learn various methods. 4. Understand and solve linear and non-linear fractional problems.
MM 408	ADVANCED NUMERICAL ANALYSIS	After the completion of this course the student will be able to: 1. Understand concepts of Ordinary Differential Equations and solve problems. 2. Understand and solve parabolic Equation. 3. Solve Elliptic Equation,Finite difference replacement and reduction to block tridiagonal form and its solution. 4. Find Solution by Gauss-Seidel, Gaussian elimination and SOR Method, treatment of curved boundaries. 5. Find solution by alternate direction implicit method. 6. Solve hyperbolic equations. **7.** Understand and use approximate methods**.**
MM 409	COMPLEX ANALYSIS-II	After the completion of this course the student will be able to: **1.** Manipulate complex numbers in various representations, define fundamental topological concepts in the context of the complex plane, and define and calculate limits and derivatives of functions of a complex variable. **2.** Use Cauchy's Theorem and Cauchy's Integral Formula, the Fundamental Theorem of

		Algebra, Morera's Theorem and Liouville's Theorem. **3.** Represent analytic functions as power series on their domains and verify that they are well-defined. **4.** Define a branch of the complex logarithm. Classify singularities and find Laurent series for meromorphic functions
MM 410	ALGEBRIC TOPLOGY	After the completion of this course the student will be able to: 1. To be familiar with the Fundamental group,Topological invariance, covering spaces, The Fundamental group of the circle. Retractions and fixed points and the Fundamental theorem of Algebra, 2. To understand direct sums of abelian groups, Free products of groups, their generators and relations, The Seifert-Van Kampen theorem and the Fundamental group of a wedge of circles. 3. To be able to do Classification of covering spaces.

Program Specific Outcomes and Course Outcomes

Program Name: M. Sc. (Hons.) Microbiology

Learning Objectives:

The program is intended to educate the students in basic and advanced areas of Microbiology, along with the latest advancement in the field. The students will have the both theoretical and practical knowledge in different fields of microbiology butmajor emphasis is laid on the practical aspects of the field. Students will learn to plan and perform experiments, analyze the data and able to present the results both qualitatively and quantitatively. After the course, student will have the outstanding knowledge of important areas of microbiology. Exposure of practical approach will enhance the intellectual development and academic progression which enable the student to pursue a career of his/her choice.

Program Specific Outcome:

1. Program will enable the students to understand and explain the different branches of Microbiology such as Bacteriology, Virology, Mycology and Phycology.
2. The students will also be able to elucidate the applications of Microbiology in different fields such as environment, food, agriculture, medical and diagnostic etc.
3. Enable the students to gain knowledge in other diverse fields like immunology, molecular biology, genetic engineering, bioinformatics and biostatics.
4. At the end of the program the student will be familiar in basic as well as with the most recent advances in microbiology, and will have hands-on experience in microbiological techniques, including fermentation and molecular biology techniques.
5. Students will be able to design and execute experiments and research project related to basic microbiology, immunology, molecular biology and recombinant DNA technology.
6. The student will be skilled with values of professional ethics and be geared up to contribute to society as responsible individuals.

Course Outcome:

Course Code	Course	Course Outcome
M. Sc. Microbiology Ist year		
MMB-101	General Microbiology	1. The student will have the insight knowledge of microbes and their diversity. 2. They will be able to describe the different morphological characters, nutrition types, growth pattern and control of microorganism. 3. Students will also learn about the microscope along with its use in field of microbiology. 4. Students will also be able to describe the role of microorganisms in different fields.
MMB -102	Bacteriology and Virology	1. The student will have the deep knowledge of bacteria and virus. 2. They will be able to describe the morphological features and structural components and classification of bacteria and viruses. 3. They will gain knowledge about the bacterial cell wall and able to differentiate between Gram +ve and Gram –ve bacteria. 4. Students will also learn about the symptoms and transmission of various diseases caused plant and animal viruses.
MMB -103	Fundamentals of biochemistry	1. Students will have fundamental knowledge of the biomolecules along with their importance and structural and functional organization. 2. Students are also become able to use the advance properties of these molecules in the productions. 3. They will learn the central metabolic pathways for

		carbohydrate metabolism and their regulation. 4. Students will also gain knowledge about the enzymes, its kinetics and regulation
MMB -104	Instrumentation and biotechniques	1. Students will technically strong to operate the different instruments like spectrophotometer, microscope, TLC, GC, HPLC, autoclave, centrifuge and gel electrophoresis. 2. They will have the advance knowledge of the principle and working of these instruments.
MMB -105	Research methodology	1. The student will have the detailed knowledge about research problems, their types and their solutions as well. 2. They will learn about the sampling types and techniques. 3. Students will gain insight knowledge regarding the thesis writing and paper publishing.
MMB -201	Immunology	1. Students will be able to understand the fundamental bases of immune system and immune response 2. They will also be able to gather knowledge about the structure, function and organization of various cells, organs and components of the immune system. 3. Students will be able to compare and contrast the humoral and cell-mediated immune responses and also able to review the role of cytokines in immunity. 4. Students will also be able to understand the concept of immunization and vaccines. 5. Students will also gain knowledge of different immune assays for the quantification of immune response.
MMB -202	Food & Industrial Microbiology	1. Student will gained insight on industrially important microbes and their applications in production of various fermented products. 2. Also attains the knowledge about industrial strains and various media optimization and formulation strategies at fermenter level. 3. They will also become aware of various food laws and regulationsalong with their implementations. 4. Students would also gather knowledge regarding microbes causing food intoxications and food-borne infections.
MMB -203	Mycology & Phycology	1. Students will be able to differentiate between fungi and algae on the basis of their characteristics and features. 2. Students will also attain knowledge about the classification, reproduction and applications of fungi and algae.

		3. Students will gain insight knowledge regarding the mushroom production and value-added products.
MMB -204	Computer & Bioinformatics	1. Student will be able to utilize the applications of computer in biological sciences. 2. They will be able to access and retrieve information from various primary and secondary databases. 3. They will able to analyze and align the sequence by using different bioinformatics techniques.
	Cell Biology	1. Student will able to distinguish between prokaryotic and eukaryotic cells. 2. They have deep knowledge of the structure and cell componentsof these cells. 3. Students will gain deep insight on cell cycle, cell-cell interaction and cell –signaling process.
MMB -205	Microbial Biotechnology	1. Students will learn about the role of microbial technology in different fields. 2. Understand the concept of recombinant biomolecules, therapeutic proteins, vaccines,bio-pesticides, bio-fertilizers etc. 3. Students will learn about the recombinant heterologousexpression systems such as bacteria and yeast. 4. Students will also gain knowledge regarding the role of microbes in managing the environmental contaminants.
	Plant Tissue Culture	1. Students will learn different techniques for the in-vitro propagation of plants. 2. They will also gain information regarding the various methods for the genetic transformation.
M. Sc. Microbiology IInd year		
MMB -301	Microbial Genetics & Genetic Engineering	1. Students will gain immense knowledge about central dogma of life. They will able to differentiate between DNA and RNA at their structural level. 2. Students will be able to describe the process of replication, transcription and translation. 3. They will be able to explain various levels of gene regulation in both prokaryotic and eukaryotic organisms. 4. Students will also be able to elucidate concept of DNA repair mechanisms and recombination as a molecular biology tool. 5. Students will learn about the properties and types of plasmids.
MMB -302	Medical Microbiology	1. Students will learn about different classical and molecular determinants of disease causing microbes.

		2. Students will gain knowledge about transmission and diseases caused by different pathogenic bacteria and viruses. 3. They will also come across various terms used in medical microbiology. 4. They will be able to understand different the mechanisms underlying resistance to bacteria against antibiotics. 5. Students will also gain practical knowledge regarding the susceptibility and resistance among pathogenic microbes towards antibiotics.
MMB -303	Biostatistics	1. Students will learn the application of statistics in biological field. 2. Students will able to analyze the different statistical data and summarize it with different techniques
MMB -304	Microbial Quality Control in Food and Pharmaceutical	1. Students will have the skilled knowledge of laboratory practices and will be able to do quality testing of microbes in food and pharmaceutical industries. 2. Students will gain knowledge regarding the specific media used for the detection of pathogenic microbes. 3. They will also able to identify the pathogenic level of the microbes.
	Diagnostic Microbiology	1. Students will learn about the collection, processing and analysis of clinical samples. 2. Students will also gain insight knowledge for the serological and molecular detection of clinical samples.
MMB -305	Biofertilizers and Biopesticides	1. Students will gain adequate knowledge of organic farming and also learn the importance of microbes in agriculture. 2. Students will gain deep knowledge on exploration of microbial strains as bio-pesticides, bio-fertilizer and PGPR.
	Food Fermentation Techniques	1. Students will get comprehensive information of food fermentation and probiotic foods along with their benefits. 2. Students will attain the satisfactory knowledge of microbes involved and fermentation techniques to produce fermented foods.
MMB -401	Environmental Microbiology	1. Students will gain knowledge regarding the environment and its components and interactions among these. 2. Students will be able to describe the role of microbes in solid and liquid waste management by gaining the knowledge of various methods used for sewage and solid waste treatment.

		3. Students will also understand the role of microbes in bioremediation of environmental pollutants like petroleum hydrocarbons, pesticides, heavy metals and also understand utility of microbes in mineral and oil recovery.
MMB -402	Soil & Agriculture Microbiology	1. Students will learn about the soil characteristics and soil ecosystem. They will also learn how soil act as habitat for the growth of microbes. 2. Students will understand the interactions of microbes with plants and their role in plant productivity. 3. Students will gain insight knowledge on exploration of microbes as biofertlizers and bio-control agents. 4. Students will also extend their knowledge of use of genetically modified organisms in agriculture.
MMB -403	TQM and IPR	1. Students will learn about intellectual property rights with major emphasis on patents, patentability criteria and patent filing at national and international level. 2. Students will also gain extensive knowledge on bio-safety, bioethics, GLP, GMP standards and ISO certification. 3. Students will be able to understand the various concepts of total quality management and it will facilitate themto establish business.
MMB -404	Fermentation Technology	1. Students will understand the concept of strain improvement and screening of these for industrial applications. 2. They will learn about the design, types of and components of bioreactors and also understand the concept of sterilization, aeration and agitation. 3. Student will learn the production and recovery process of various industrially important products.
	Recombinant DNA Technology	1. Students will be familiar with the use of various cloning vectors, restriction enzymes and various cloning methods. 2. Students will be able to describe the various applications of PCR, RFLP, AFLP and RAPD in recombinant DNA technology. 3. Students will also be able to apply their knowledge of genetic engineering in various fields.
MMB -405	Microbial Analysis of Air and Water	1. Students will get expertise to isolate and identify the various microorganisms present in air and water samples. 2. They will also gain knowledge of measures to analyze and control them.
	Management of Human Microbial	1. Students will get extensiveinformation of various microbes causing diseases in humans.

	Diseases	2.Students will have knowledge of various therapeutics, vaccines and preventive measures to control these.

The Program Specific Outcomes and Course Outcomes of all the Programmes

Program Name: B.A- Physical Education

Learning Objectives:

The students of Physical Education programme will have the theoretical and practical knowledge in the areas of Physical Education and sports. Students will use basic principles of health and wellness to develop an informed, personal approach to mental and physical health.Physical Education focuses on Leadership, Analytical Thinking, Organization, Management and Communication Skill which are most important in any interaction in career. Physical Education students will acquire knowledge and demonstrate skill to safely engage in physical activity. Physical Education increases the knowledge of the rules of games and sports. Development of self-discipline in the students will gives rise to better management of time for getting an adequate time out for every activity. Physical Education programme to give knowledge about Physical Education, Sports and value in modern society.Physical education programme understand about motivation and how to motivate to play games.To give knowledge about how to manage tournaments and how to make tournament fixtures .The students will learn leadership qualities and responsibilities of leader. Physical education programme understand about sports performance and methods of improving Indian sports performance.

Programme Specific Outcome:

1. To increase knowledge in students with empirical learning.
2. To increase the knowledge about anatomy and physiology.
3. To develop an understanding of economic, legal and social environment.
4. To train students with interpersonal skills and team work so as to enable them to manage and co-operate in varied work environments.
5. Understand about sports man behavior.
6. The students will be able to understand various types of theories of Learning.
7. Understand about motivation and how to motivate to play games.
8. To give knowledge about good posture and how to corrective measure of body posture and understand about posture deformities.
9. To give knowledge about respiratory system and functions of different parts of respiratory system.
10. To give knowledge about how control obesity and overweight.
11. To give knowledge about motion and how to apply in sports and games.

12. To give knowledge about physical education professional qualification and qualities of physical education teacher.
13. Understand about sports performance & methods of improving Indian sports performance.
14. To give knowledge about how to play games and sports and its rule regulation, layout and technique.

Course Code	Course	Course Outcome
BA **114**	**Physical Education –A (Theory)**	1. To give knowledge about physical education and sports and value in modern society. 2. Understand to know about Olympics games. 3. The students will study about N.S.N.IS, S.A.I.I.OC. . 4. The knowledge will help the students to understand personal hygiene. 5. To give knowledge about anatomy and physiology. 6. Understand about individual differences. 7. To give knowledge about how to growth & development our body. 8. Student will be study about heredity and environment.
BA 114(P)	**PHYSICAL EDUCATION – B (Practical)**	1. To give knowledge about & how to play hockey, long jump, basket ball and its rule regulation, layout and technique.
BA **214**	**PHYSICAL EDUCTION – A (Theory)**	1. Understand about classification of age. 2. The students will be able to understand various body types.

		3. To give knowledge about benefits of warm up &cooling down. 4. Understand about fatigue and how to relief fatigue. 5. To give knowledge about sports awards.
BA- 214 (P)	**PHYSICAL EDUCTION-B (Practical)**	6. Understand about the health and how to improve our health. 7. Understand about communicable diseases. 8. Knowledge about drugs and side effects of drugs. 9. To give knowledge about skeleton system and various types bone of human body. 10. To give knowledge about joint system of human body.
BA-314	**PHYSICAL EDUCTION – A (Theory)**	1. To give knowledge about & how to play hockey, long jump, basket ball and its rule regulation, layout and technique.
BA- 314 (P)	**PHYSICAL EDUCTION-B (Practical)**	1. To give knowledge about Yoga and its benefits and its physiological effect on various body system. 2. To know about the theories of play. 3. To give knowledge about growth and development in childhood periods physical, 4. Mental, emotional, & social. 5. Understand about national and international integration. 6. Knowledge about digestive system and its function & parts of digestive system. 7. Understanding about socialization and its role of family, school & sports.

BA- 414	**PHYSICAL EDUCTION – A (Theory)**	1. To give knowledge about and how to play Kabaddi, Shot put and its rule regulation, layout and technique.
BA-414(P)	**PHYSICAL EDUCTION-B (Practical)**	1. Understand about sports man behavior. 2. The students will be able to understand various types of theories of Learning. 3. Knowledge about transfer training in sports and its importance. 4. Understand about motivation and how to motivate to play games. 5. To give knowledge about adolescent period characteristics and problems. 6. To give knowledge about muscles and circulatory system. 7. Understand about sports injuries and its prevention. 8. To give knowledge about first aid and how to give first aid of injured persons.
BA- 514	**PHYSICAL EDUCTION – A (Theory)**	1. To give knowledge about & how to play KHO-KHO, High jump, discus throw and its rule regulation, layout and technique.
		1. Understand the concept of recreation and importance of recreation in our regular life. 2. The student will learn and apply various types of camp and organization of camp. 3. Understand about Picnic and Athletic Meet. 4. To give knowledge about good posture and how to corrective

BA- 514(P) **BA- 614**	**PHYSICAL EDUCTION-B (Practical)** **PHYSICAL EDUCTION - A (Theory)**	measure of body postures. 5. Understand about posture deformities. 6. To give knowledge about respiratory system and functions of different parts of respiratory system. 7. How control obesity and overweight. 8. To give knowledge about motion and how to apply in sports and games. 9. To give knowledge about physical education professional qualification and qualities of physical education teacher. 10. To give knowledge about sports celebrities S. Milkha Singh, P.T.Usha, Ajmer Singh, Abhinav Bindra. 1. To give knowledge about & how to play handball and javelin throw and its rule regulation, layout and technique. 1. To give knowledge about How to manage tournaments and how to make tournament fixtures. 2. The students will learn leadership qualities and responsibilities of leader. 3. To give knowledge about balance diet. 4. Understand about sports performance & methods of improving Indian sports performance. 5. To give knowledge about physical fitness and its components.

BA **-614(P)**	**PHYSICAL EDUCTION-B** **(Practical)**	6. Understand about sports training and various types of training method. 7. To give knowledge about blood pressure and technique of measurement. 8. Understand about how to measure physiological terminology such as cardiac output, stroke volume, Oxygen debt, vital capacity, BMI & BMR. 1. To give knowledge about & how to play badminton and relay races and its rule regulation, layout and technique.

The Program Specific Outcomes and Course Outcomes (2018-19)

Program Name: Bachelor of Arts
Course Name: Religious Studies

Learning Objectives:

The religious studies course is to inculcate religious interests in students belonging to different religions. The main objective of this course is to acquaint the founders of different religions, scriptures and doctrines. Students also learn to follow the path of religion by applying the knowledge gained through this course in their lives. This course not only inculcates values like ethics, honesty, discipline etc., but also paves the way for the spiritual path.

Course Outcome:

Course Code	Course	Course Outcome

BA-108	Indian Religions	1. The Course provides Knowledge about Vedic and Sharman traditions. 2. Knowledge about Old Indian Major Religions 3. Knowledge about faith, believes, practices of Old Indian Religions. 4. Knowledge about Birth, Initiation and death sacraments of Vedic and Sharman traditions. 5. Knowledge about the life of founders of Sharman tradition and their practices 6. To explain why Buddha and Mahavira are unique
BA-208	Sikh Religion	1. Focus on world's modern religion (Sikhism) 2. Focus on Guru Nanak Dev Ji's life and his journeys 3. Focus on the faith, believes and institutions of Sikhism 4. Introduction about Sri Guru Granth Sahib, Japji, Barahmah Majh 5. Role of Miri Piri as a mini parliament 6. Read about the creation of Khalsa 7. Focus on the Sikh Martyrdom
BA-308	Semitic Religions	1. Awareness about the characteristics of Prophet. 2. Awareness about the Old and Modern Major Semitic Religions 3. Awareness about the life of Prophet Moses, Jesus Christ, Mohammad and Zarathustra 4. Enriched with the concepts of Ten Commandments, Kingdom of God and five pillars 5. Be able to give introductory knowledge of Bible, Quran and Zand Avesta
BA-408	Medieval and Modern Religious Movements	1. To give knowledge about the Bhagti and Sufi Movements in India 2. To give knowledge of the life of Bhagat Kabir, Ravidaas, Namdev and their Concepts 3. Importance of Bhaghti in human life 4. In Which ways Religious movements are more effective on society 5. Knowledge about the effects of Hindu religious movements 6. Knowledge about the effects of Sikh religious movements

		7. Knowledge about the effects of Muslim religious movements
BA-508	Primitive Religion	1. Introduce candidates of primitive religion and its characteristics 2. Knowledge about the primitive sacraments 3. Knowledge about the forms of religion 4. Knowledge about the religion and its role in human life 5. Encourage the candidates to reflect on religious responses 6. Impact of religion on society
BA-608	Sikh Religion	1. Focus on the Scriptures, faith, believes of Sikhism 2. Introductory knowledge of Sikh Scripture (Sri Guru Granth Sahib, Dasam Granth, Bhai Gurdaas First Vaar) 3. Knowledge about the role of Sikh Scriptures in human life. 4. Knowledge about the contents of Asa di Vaar, Sukhmani, Laavan 5. Knowledge about the Sikh Concepts (Hukam, Sachair, Panj Khand) 6. Knowledge about the Sikh Institutions (Harmandir, Sarbat Khalsa, Gurmata)

The Program Specific Outcomes and Course Outcomes (2018-19)

Program Name: Bachelor of Arts
Course Name: Sociology

Learning Objectives:

The Course of Sociology seeks to develop sociological imagination and skills in the students that will enable them to think critically and rationally about society and social issues. Through coursework, assignments, independent studies and research, the department encourages a commitment to social justice and awareness towards social inequality.

Course Outcome:

Course Code	Course	Course Outcome
BA-113	Fundamentals of Sociology I	1. The students shall be able to understand the society, community, associations and other basic concepts of the subject. 2. Enable students to see and compare sociology with other social sciences. 3. It will make the students aware about nature and composition of society, culture and cultural values, civilization and process of socialization.
BA-213	Fundamentals of Sociology II	1. This course shallbe able to make clear the various social processes taking place in the society. 2. The students shall be able to understand development of the individuals in the society. 3. It will also discuss nature and concept of various social institutions, social control and deviance, thus enable students to make balance in life.
BA-313	Social Structure in India	1. This course will enable the students to understand the various dimensions of Indian society. 2. The students shall be able to understandthe differentiation in Indian society based on different strata like caste and class. 3. It also focuses upon the important aspect of gender differentiation. 4. This course will enable the students to compares the tribal, urban and rural organizations of Indian society**.**
BA-413	Social Change and Problems in India	1. This course will explore the reasons, process and effects of social change. 2. The students shall be able to understand the flow of change in the society and enables them to adapt to the situations accordingly. 3. It will also discuss the various social problems. 4. Make the students aware about the surroundings. 5. This course shall be useful for students in Competitive exams.

BA-513	Social Thought	1. This course will help the students to understand the various concepts of society from the prominent sociologist's point of view. 2. This course will discuss the various thoughts and ideas to explore the society better. 3. The students shall be able to understand the worldview in respect to various concepts of the society.
BA-613	Research Methodology	1. This course will discuss the process and methods of social research. 2. It will enable the students to see specific social phenomenon from researcher perspective, thus helpful in finding and comparing social facts. 3. The students shall be able to understand the methods of field surveys and report writing. 4. This course shall be useful for students in Competitive exams. 5. This course shall be useful for students in their further studies and jobs.

The Program Specific Outcomes and Course Outcomes of all the Programmes

Program Name: B.Sc. (Hons.) Biotechnology

Learning Objectives

Students of BSc (Hons.) Biotechnology degree after completion of course will be able to exhibit effective oral and written communication skills.They will develop critical reading, thinking, problem solving skills and quantitative reasoning skills .They will be able to utilize scientific methods to explore natural phenomena.They will develop a strong foundation in chemistry/zoology/botany. Also learn basic laboratory skills necessary for biotechnology research.They will have a base of knowledge in biochemistry, biology, molecular biology and microbiology to qualify for upper divisional study.

Program Specific Outcomes

Graduates will gain and apply knowledge of biotechnology and science concepts to solve problems related to field of biotechnology. They will be able to identify, analyze and understand

problems related to biotechnology finding valid conclusions with basic knowledge in biotechnology.This course is beneficial for students who wish to pursue multidisciplinary and interdisciplinary science careers in future.

Graduates will be able

- to design and develop solution to biotechnology problems by applying appropriate tools while keeping in mind safety factor for environment and society.
- to design, perform experiments, analyze and interpret data for investigating complex problems in biotechnology and related fields.
- to decide and apply appropriate tools and techniques in biotechnological manipulation.
- to justify social, health, safety and legal issues and understand his responsibilities in biotechnological practices.
- to understand the need and impact of biotechnological solutions on environment and societal context keeping in view need for sustainable solution.
- to have knowledge and understanding of related norms and ethics in Biotechnology product/technique development.
- to undertake any responsibility as an individual and as a team in a multidisciplinary environment.
- to develop oral and written communication skills.
- to have knowledge in biotechnology and will also be ready to engage themselves in lifelong learning.
- to demonstrate knowledge of project and finance management when dealing with Biotechnology problems.

Semester -I

Coursecode	**Course**	**Learning Outcomes**
BBT (C1-101)	Biochemistry and Metabolism	After completion of the course the students will be able to: ● comprehend structure and function of different biomolecules including proteins, lipids, vitamins, and carbohydrates.

		● acquire knowledge of various metabolic pathways occurring inside living cells. ● role of hormones in regulating metabolic processes
BBT (C2-102)	Cell Biology	By the end of course student will be able to ● an overview of basic cell biology includesstructure of cell and cell organelles ● dynamic attributes of cell division cell cycle, cell differentiation and cellular signaling. ● also learn concepts of cell senescence, cell death and cancer cell

Semester – II

Coursecode	**Course**	**Learning Outcomes**
BBT (C3-201)	Plant Physiology	Students will be able to understand ● structural organization of plant. ● learn as to how plants grow, respire and reproduce. ● How plants tolerate adverse conditions.
BBT (C4-202)	General Microbiology	Students will be able to understand ● microbial taxonomy, diversity and its nutrition ● concept of sterlisation techniques and various culturing techniques and its growth kinetics ● role of microorganisms environment, including elemental cycles and biodegradation.

Semester - III

Coursecode	**Course**	**Learning Outcomes**
BBT(C5-301)	Genetics	On completion of this course, students will be able to have ● knowledge and skills to explain the key concepts in population, evolutionary and quantitative genetics. □ ● how genes are transferred from generation to generation. □

		● how alteration in genes results in various genetic disorders.
BBT(C6-302)	Fundamentals of Fermentation	By the end of the course the student will learn to: ● role of various media components in fermentation. ● to understand various types of fermentation process and factors affecting fermentation.
BBT (C7-303)	Plant Biotechnology	By the end of the course the student will be able to : ● understand principles of sterlisation methods including ● differentin vitro culture techniques □ ● provide detail pertaining to tools and processes involved in generation of transgenic plants.
BBT(SEC1-304)	Industrial Fermentation	Students will learn about ● production process for various industrial fermentation products like primary and secondary metabolites,biofuels, biofertilizers, biopesticides. ● microbial transformations, their applications in industries, microbial leaching for metal recovery.

Semester – IV

Coursecode	**Course**	**Learning Outcomes**
BBT (C8-401)	Molecular Biology	Course on Molecular Biology will enrich knowledge base with ● study of structure and function of living system at molecular level ● able to understand significant discoveries and theories and also learn molecular mechanisms by which DNA controls development, growth or morphological characteristics of microorganisms.□ ● The course particularly aims at understanding structure , synthesis and replication of nucleic acids.
BBT (C9-402)	Immunology	● At the end of the course, students will be able to understand ● the strengths and weaknesses of our immune (defense)

		system. ● The course will provide sound knowledge of how immune system deals with various pathogens, different processes and cell types involved in prevention of disease along with the concept and significance of vaccines.
BBT (C10-403)	Biophysics	Students will learn about ● Use of physical and chemical aspects in biological systems by exploring thermodynamics, chemical kinetics, quantum mechanics, optical and hydrodynamic techniques. ● also learn about importance of bioenergetics in living systems ● various spectroscopic techniques and their applications in research and industry.
BBT(SEC-2-404)	Enzymology	Students will be able to: ● understand the structural and functional aspect of enzymes ● characterize properties of enzymes kinetics and their parameters ● microbial selection enzyme production and purification strategies and apply the functional aspect of enzymes in different areas of interest

Semester V

Coursecode	**Course**	**Learning Outcomes**
BBT(C11-501)	Bioprocess Technology	Students will be able to: ● understand the concept of upstream and downstream processing, and different unit operations of bioprocesses ● apply the different techniques for the recovery/purification of bioproducts ● under stand the different concept involved in scale up and economics involved in bioprocess

BBT (C12- 502)	Recombinant DNA Technology	Students will gain ● understanding of various molecular tools ● also gain concept of transformants, its screening methods ● Its applications in plants and animals.
BBT (DSE 1-503)	Bioinformatics	By the end of course students will learn ● various tools and techniques of bioinformatics can be utilized in studies pertaining to macromolecules (DNA, RNA, protein). □ ● after completing this course students will be able to analyze, interpret and study biological data (sequence, structure, etc) stored in various databases available on internet.
BBT (DSE 2 -504)	Animal Biotechnology	Students will learn about ● animal cell culture techniques ● gene transfer methods for production of transgenic animals. ● also learn large scale culturing of animal cell lines
	Medical Microbiology	By the end of course student will understand ● basic principles and then applies clinical relevance in four segments of the academic preparation for physicians: immunology, bacteriology, mycology, and virology.
	Biostatistics	By the end of course student will understand ● utilization of mathematical basics and foundation statistics are mandatory for analysis and interpretation of result of experiments and research

		work. □ ● able to characterize data and understand different sampling methods. □ ● concept of probability, correlation and regression.
	Ecology and Environment Management	Students will be able to understand ● ecological components of ecosystem and various restoration methods for environment management. ● an exposure to ecological perspective of the environmental challenges, opportunities, ecological management of the natural environment. ● Insight into the management of interaction of human with the environment. □ An insight into how biotechnology can be utilized for protection of environment.

Semester – VI

Coursecode	**Course**	**Learning Outcomes**
BBT (C13-601)	Bio analytical tools	Students will be able to: ● apply the concepts of bioanalytical techniques in biotechnology research ● handle bioanalytical techniques in industry ● Operate and optimize the experimental conditions of different analytic techniques
BBT (C14-602)	Genomics and Proteomics	After completion of this course student will be able to ● understand structural and organization of genomics and proteomics. □ ● able to learn how their study can be utilized in

		the field of agriculture, ecotoxicology, human health, etc
BBT(DSE 3- 603)	Environmental Biotechnology	Students will learn about ● various sources of pollution, methods of measurement and treatment technologies like activated sludge, use of aerobic and anaerobic reactors ● also learn about the role of biosensors, bioremediation process and bioleaching in restoration of environment.
BBT (DSE 4-604)	Microbial Physiology	The student has fundamental understanding of: ● Cellular composition, membrane transport, energy generation, diversity of metabolic processes, growth and cell death, and techniques used to elucidate physiological processes. □ ● Integrating primary scientific literature of microbiology to further the understanding of microbial physiology. ● Develop scientific writing skills and critical thinking about scientific research.
	Biochemical Engineering	Course will make the student understand: ● role of a bioprocess engineer in chemical, pharmaceutical and distillation industry. □ ● integrated bioprocess, design reactors, maintain contamination free environment in bioprocesses. ● To develop concepts to scale-up bioprocesses for industry as well as research organizations.
	Food Biotechnology	By the end of course student will be able to ● understand concepts of fermented products.

		• learn about various value aaded products • role of biotechnology in improvement of food products

The Program Specific Outcomes and Course Outcomes of

Program Name: M.Sc (Hons.) Biotechnology

Programme Code (MSBT)

(Session 2018-2019)

Programme Outcomes:

Programme outcomes of M.Sc (Hons.) Biotechnology is to produce competent biotechnologists who can employ and implement their knowledge base in processes and applications which will profoundly influence or utilized for existing paradigm of agriculture, industry, healthcare and restoration of degraded environment to provide sustainable competitive edge to present society. Students will be eligible for doing jobs in various sectors of pharmaceutical and biotechnological industry.

Programme Specific Outcomes:

1. Students will be able to design, conduct experiments, analyze and interpret data for investigating problems in Biotechnology and allied fields.
2. Higher studies (M.Phil, Ph.D) can be pursued in order to attain research positions.
3. Various examinations such as CSIR-NET, ARS-NET GATE, ICMR, DBT and many other opens channels for promising career in research.
4. Students can become Production Officer and Technical Assistant in biotechnology, pharmaceutical Companies, bio fertilizer industry, aquaculture industries, environmental units, crop production units, food processing industries and national bio-resource development firms. Entrepreneurship ventures such as consultancy and training centres can be opened.

5. Some of the major pharmaceutical and drug companies' highering biotechnological professionals include Dabur, Ranbaxy, Hindustan Lever and Dr Reddy's Labs, food processing industries, chemical industry and textile industry as well.
6. Beside this industries also employ bio-technological professionals in their marketing divisions to boost up business in sectors where their products would be required. Beside industrial sector there are ample opportunities in academics as well. Students will be able to understand the potentials, and impact of biotechnological innovations on environment and their implementation for finding sustainable solution to issues pertaining to environment, health sector, agriculture, etc. Several career opportunities are a, Specific knowledge will be imparted about role of cell division and its regulation on diseases like cancer.
7. Along with this the course will provide students with essential concepts of different processes involved in development of animals, alongwith genetic control of development. Bioanalytical tools are cell-based bioassays that give a measure of the effect and presence of known and unknown chemicals in complex environmental samples. At the end of this course students would be able to understand the principle, working, maintain and calibrations of bioanalytical tools and techniques for industrial and research purpose. Specifically students will be able to learn underlying principle of techniques such as electrophoresis, microscopy, spectroscopy, centrifugation and chromatography.
8. Molecular Biology & Genetics in Course on molecular Biology & genetics will enhance the knowledge base about functional and structural organization of nucleic acid. The course particularly aims at understanding structure, synthesis and replication of nucleic acids. After completing the course on genetics complete knowledge as how genes are transmitted in plants and animals from one generation to another will be imparted. Along with this, the course will highlight the role of genetics / mutations in animal and plant breeding.

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Course Outcome:

Couse Code	Name of paper	Course Learning Outcome
	Semester-1	
MBT(C1)-101	**Biochemistry**	Students will be able to : a) comprehend the structure and function of

		different biomolecules including proteins, lipids, nucleic acids, and carbohydrates. b) acquire knowledge for metabolic pathways occurring inside living cells.
MBT(C2)-102	**Microbiology**	Students will be able to: : a) Identify major categories of microorganisms and analyze their classification, diversity, and ubiquity. b) Identify and demonstrate structural, physiological, genetic similarities and differences of major categories of microorganisms. c) Identify and demonstrate how to control microbial growth. d) Demonstrate and evaluate interactions between microbes, hosts an environment
MBT(C3)-103	**Molecular Genetics**	Students will be able to : a) Understand the biological processes through the investigation of the underlying molecular mechanisms. b) Understand various life processes involved in DNA technology in living organisms. uderstand comparative genomics and its applications
MBT(E1)-104	**Technical Writing And Communication Skills**	Students will be able to : 1. boost the fundamental concept of technical writing practices to raise their writing attempt strategies 2. write effectively the synopsis, thesis compilation and training reports.
MBT(EII)-105	**Opt.I Environmental Biotechnology**	Students will be able to : a) learn about bioremediation, its mechanism and various aerobic -anaerobic treatment technologies by using reactors for waste treatment.

		b) explore about biosensors which are used in detection of various pollutants and its applications in different fields. c) Learn about bioleaching and bioenergy production from waste. d) develop analytical skills for water quality parameters, application of bioremediation technologies for effluent treatment
MBT(EII)-105	**Opt II Cellular organization**	Students will be able to: **1.** learn the structure and functions of cells and cell organelles. **2.** explain the different cell process like, cell differentiation and cell death
Semester – II		
MBT(C4)-201	**Bioanalytical techniques**	Students will be able to: 1. apply the concepts of bioanalytical techniques in biotechnology research 2. handle these bioanalytical techniques in industry 3. Operate and optimize the experimental conditions of different analytic techniques
MBT(C5)-202	**Immunology & Immunotechnology**	At the end of the course, the students should be able to: a) compare and contrast the humoral versus cell-mediated immune responses. b) critically review the role of cytokines in immunity and immune cell activation and be able to identify and characterize cytokines of particular immune importance. c) clearly state the role of the immune system against different pathogens. d) be able to distinguish various cell types involved in immune responses and associated functions. e) gain knowledge about immunologic processes governing graft rejection and therapeutic modalities for immune suppression in

		transplantation
MBT(C6)-203	**Food Bio-technology**	Students will be able to **a)** acquaint with fundamentals of food preservation, food poisoning and food fermentative products. **b) Capable for** microbiological production of foods and vitamins.
MBT(E3)-204	**OptI Biostatistics**	Students will be able to **:** a) acquainted with various techniques used in summarization and analysis of uni-variate data. b) handling of variable and attribute data to study their characteristics & association, regression analysis and hypotheses testing . c) many statistical analyses
MBT(E3)-204	**OptII Biophysics**	Students will be able to **:** 1. explore the biological systems like thermodynamics, bioenergetics, chemical kinetics, electrode potential and quantum mechanics. 2. apply and analyze the instrumental techniques like spectroscopy, diffraction, optical and various hydrodynamic techniques in the field of biotechnology
MBT(E4)-205	**OptI Biosafety and Bioethics**	Students will be able to: a) explain the concept of biosafety and risk assessment of products derived from recombinant DNA research b) understand the effect of environment release of genetically modified organisms, national and international regulations. c) Learn the ethical aspects related to biological, biomedical, health care and biotechnology research
MBT(E4)-205	**Opt II System biology**	Students will be able to: **a)** explain the different biological systems of human being.

		b) acquaint with the functions of various organs and their regulation.
Semester – III		
MBT(C7)-301	**Enzymology & Enzyme Technology**	Students will be able to: 1. understand the structural and functional aspect of enzymes. 2. characterize properties of enzymes kinetics and their parameters 3. microbial selection enzyme production and purification strategies 4. apply the functional aspect of enzymes in different areas of interest
MBT(C8)-302	**Genetic Engineering**	Students will be able to : c) acquainted to versatile tools and techniques employed in genetic engineering and appraise them with its applications. d) learn about various tools, enzymes used in recombinant DNA technology and can apply the knowledge to modify the useful organisms.
MBT(C9)-303	**Research Methodology**	Students will be able to: a) apply the tools and techniques of research. b) create a sound knowledge for the data collection and interpretations. c) Understand and practice scientific reading, writing and presentations.
MBT(E5)-304	**Opt I Bioinformatics**	Students will be able to: a) apply key concepts of different bioinformatics tools to solve the problems. b) analyse sequence and structure bio-macromolecule data. c) apply the knowledge of bioinformatics in the biotechnology research and industry.
MBT(E5)-304	**Opt II Ecological Principles**	Students will be able to: 1. understand the important concept of

		environment, Population and community ecology. 2. explain the role of ecosystem and applied ecology.
MBT(E6)-305	**Opt I Plant Physiology**	Students will be able to: a) explain the structure of plant organs and their functioning. b) acquaint for the role of nutrients in plant growth, Metabolic pathways that act as backbone for plant survival. c) stress physiology in plants. d) characterize the biotechnology based synthesis of secondary metabolites.
MBT(E6)-305	**Opt II Solid and Hazardous waste management**	Students will be able to: a) understand the various types of solid waste hazardous and radioactive waste, their collection, transportation and management techniques. b) apply the techniques of solid waste disposal. c) understand various resource recovery aspects in form of energy generation and biological methods for treatment.
Semester – IV		
MBT(C10)-401	**Bioprocess engineering**	Students will be able to: 1. understand the concept of upstream & downstream processing, and different unit operations of bioprocesses. 2. apply the different techniques for the Recovery/purification of bioproducts. 3. understand the different concept involved in scale up and economics involved in the bioprocess
MBT(C11)-402	**Commercial Biotechnology**	Students will be able to: 1To understand the importance of IPRs and the process of patenting.

		2 understand their personal characteristics and interests to that of the "successful" entrepreneur, identification and assess sources of support for small businesses and entrepreneurs. 3.know various aspects of ISO and their necessity in Industries.
MBT(C12)-403	**Tissue & cell culture technology**	Students will be able to : a) understand about plant and animal tissue culture techniques, gene transfer methods, applications of plant tissue culture, transgenic animals, methods of embryo cloning in animals. b) Explain the concept large scale culturing of animal cell lines, somatic cell fusion and its applications

The Program Specific Outcomes and Course Outcomes of all the Programmes

Program Name: Master of Science in Botany (M. Sc. Botany)

Learning Objectives:

The student of botany Botany is a workforce program and thus, these objectives have been written to accommodate changes/additions that may be made to take advantage of the newest teaching protocols and advances in the field of Botany.Conventional studies like plant identification is now being supplemented with molecular techniques like DNA Barcoding.The courses have been designed to benefit all Botany students to study various aspects of plant science including its practical applications. Keeping in mind that these students can take up teaching at different levels, research work in research institutes and or industry, doctoral work, environment impact assessment, biodiversity studies, entrepreneurship, scientific writing relevant topics have been included in the curriculum.

ProgrammeSpecific Outcome (PSO:

1. Students would be benefited with knowledge of core subjects like plant diversity, physiology and biochemistry, plant tissue culture and photochemistry would make them obtain skills that help in doing research.
2. Learn about practical technique in lab for detail study of plant cell structure, reproduction, anatomy, breeding procedures for hybridization.
3. Maintain a high level of scientific excellence in botanical research with specific emphasis on the role of plants.

4. Practice of subject with knowledge to design experiments, analyze and interpret data to reach to an effective conclusion.
5. Logical thinking with application of biological, physical and chemical sciences. Learning that develops analytical and integrative problem-solving approaches.
6. Students would perform functions that demand higher competence in national/international organizations with sporty and helping spirits. Prepare the students for many competitive exams like MPSC, UPSC NET SET GATE.

Course Outcome for M. Sc. Botany

Course Code	Course	Course Outcome
Bot-PG-101	**Cell Biology and Molecular Biology**	To acquaint the student about the study of the Biomolecules, plant cell structure, function and cell organelles
Bot-PG- 102	**Biology and Diversity of Viruses, bacteria and Fungi**	To acquaint the students about the study of various microorganisms, like viruses, Bacteria and Fungi.
Bot-PG-103	**Biology and diversity of Algae, Bryophytes, Pteridophytes and Gymnosperms**	To acquaint the students about the study of various land plants except Angiosperms
Bot-PG- 104	**a. Industrial Microbiology** **b. Weed Biology**	To impart knowledge about the theoretical and practical knowledge about Industrial Microbiology. To study common weed plants and their impact and eradication measures.
Bot-PG- 105	**Information Technology**	To prepare students to be able to design, implement, and evaluate a computer-based system, process, component, or program to meet biological desired needs
Bot-PG- 201	**Cytogenetics and Molecular Genetics**	To enhance students knowledge for the cytological and molecular aspects of gene and its related aspects.
Bot-PG- 202:	**Taxonomy of Angiosperms**	To impart knowledge about the keys, floras and other standards used in plant taxonomy, and other recent advances in the field.
Bot-PG- 203	**Plant Physiology and Metabolism**	To enhance the practical and theoretical knowledge about the various physiological and metabolic phenomenons in the plants.
Bot-PG- 204 .	**a. Paleobotany** **b. Ethnobotany**	To impart knowledge about the plant ancestors and related studies To impart theoretical and practical knowledge and explore about traditional plant knowledge.

Bot-PG- 205	**Computer Applications and Databases**	To prepare students to be able to design, implement, and evaluate a computer-based system, process, component, or program to meet biological desired needs.
Bot-PG-301	**Plant Development and Reproduction**	To impart knowledge about development, and structure and functions of various reproduction related phenomenon in plants.
Bot-PG- 302	**Plant Ecology**	To impart knowledge about the theoretical and practical knowledge about plant ecology.
Bot-PG- 303	**a. Crop Genetics and Plant Breeding** **b. Plant Pathology**	To impart knowledge about the various numerical problems and other aspects in related to crop plants. To enhance the knowledge about different fungal diversity and various plant diseases and pathogens.
Bot-PG- 304.	**a. Plant Protection** **b. Plant Propagation**	To study how to prevent plant losses in Agriculture. To introduction to the techniques and facilities needed for plant propagation in the green house and nursery industry
Bot-PG- 305	**Biostatistics**	To understanding of the central concepts of modern statistical theory and their probabilistic foundation.
Bot-PG- 401	**Plant Cell, tissue and Organ Culture**	To introduces the practice and process of culturing plant cells and cell lines in a laboratory.
Bot-PG- 402	**Plant Resource and Utilization**	To enlightenedthe students with traditional economic plants.
Bot-PG- 403	**a. Crop Genetics and Plant Breeding** **b. Plant Pathology**	To impart knowledge about the various numerical problems and other aspects in related to crop plants. To enhance the knowledge about different fungal diversity and various plant diseases and pathogens.
Bot-PG- 404	**a. Forest Biology** **b. Phytochemistry**	To enhance the knowledge about from population genetics to ecosystem science To enhance the knowledge about from various mechanics of plant biochemistry
Bot-PG- 405	**Bioinformatics:**	The course emphasizes the integration of computer science with biology.

Program Name: B. Sc. (Hons.) Botany

Programme Specific Outcome

1. Determine economic & medicinal plant in agriculture and medicine.
2. Understand the environments and basic concept of taxonomy, ecology.
3. Analysis the relationship between plants and microbes.
4. Understand the biology of diversity of seed plants or phanerogames.
5. Understand the behaviors of fossils and gymnospermic plants.
6. Understand the plant disease, chemical properties and evolutionary relationship among taxonomic groups.

Course Outcome for B. Sc. (Hons.) Botany

Course Code	Course	Course Outcome
Bot-UG- 101	**Phycology and Microbiology**	To acquaint the students about the study of various microorganisms and Algae.
Bot-UG- 102	**Biomolecules and cell biology**	To acquaint the student about the study of the Biomolecules, plant cell structure, function and cell organelles
Bot-UG- 103	**Environmental Sciences**	The major objective is to sensitize students for environment consciousness and sustainability as well as ethics regarding self and society.
Bot-UG- 104	**Punjabi compulsory**	To impart knowledge about the Punjabi language and literature.
Bot-UG- 105	**Plant Ecology and Taxonomy**	To impart knowledge about the keys, floras and other standards used in plant taxonomy, and also enhance the practical knowledge about plant ecology.
Bot-UG- 201	**Mycology and phytopathology**	To enhance the knowledge about different fungal diversity and various plant diseases and pathogens.
Bot-UG- 202	**Archeogoniatae**	To enhance the knowledge about different primitive land plants.
Bot-UG- 203	**English**	To impart knowledge about English languages and literature
Bot-UG- 204	**Economic Botany and**	To enlightened the students with traditional

	Biotechnology	economic plants and also impart knowledge about recent techniques used in plant sciences.
Bot-UG- 205	**Drug abuse**	The major objective we are able to sensitise students against problems associated with drugs. It describes about the psychological, physical and social effects of psychoactive substances on person using it and its prevention and recovery
Bot-UG- 301	**Anatomy of angiosperms**	To impart knowledge about various aspects of anatomical features and other adaptations in the plants.
Bot-UG- 302	**Economic Botany**	To enlightened the students with traditional economic plants
Bot-UG- 303	**Genetics**	To impart knowledge about the various numerical problems and other aspects in related to plant genetics.
Bot-UG- 304	**Mushroom Culture and Technology**	To impart theoretical as well as practical knowledge regarding various aspects of mushroom cultivation.
Bot-UG- 305	**Plant anatomy and Embryology**	To impart knowledge about various aspects of anatomical and embryological studies in plants.
Bot-UG- 401	**Molecular Biology:**	1. Students will have developed knowledge about nucleus and its ultrastructure. They will also identify various forms of DNA. 2. Student will understand the importance of stresses in plants and how it responses.
Bot-UG- 402	**Ecology:**	To impart knowledge about the theoretical and practical knowledge about plant ecology.
Bot-UG- 403	**Plant Systematics**	To impart knowledge about the keys, floras and other standards used in plant taxonomy, and other recent advances in the field.
Bot-UG- 404	**Nursery and Gardening**	To impart theoretical as well as practical knowledge regarding various aspects of nursery and gardening.
Bot-UG- 405	**Plant Physiology and Metabolism:**	To enhance the practical and theoretical knowledge about the various physiological and metabolic phenomenon in the plants.
Bot-UG- 501	**Reproductive Biology of Angiosperms:**	To impart knowledge about structure and functions of various reproduction related phenomenon in plants.
Bot-UG- 502	**Plant Physiology**	To enhance the practical and theoretical

		knowledge about the various physiological phenomenon's in the plants
Bot-UG- 503	**Methodology**	To impart knowledge about various aspects of research and to impart knowledge about separation techniques, Microscopy and other laboratory techniques.
Bot-UG- 504	**Plant Breeding:**	To enlightened the students with various aspects of plant breeding, like self and cross hybridization, emasculation, etc.
Bot-UG- 601	**Plant Metabolism:**	To enhance the practical and theoretical knowledge metabolic phenomenon in the plants
Bot-UG- 602	**Plant Biotechnology**	To enlightened the students with recent techniques used in plant sciences.
Bot-UG- 603	**Bioinformatics**	The course emphasizes the integration of computer science with biology
Bot-UG- 604	**Project**	To enhance the practical knowledge with a given assignment/ project/ dissertation

Course Outcome for B. Sc. Medical (Subject Botany)

Course Code	Course	Course Outcome
BCC(B)-101	**Biodiversity (Microbes, Algae, Fungi and Archegoniatae)**	To acquaint the students about the study of various microorganisms, Algae and Fungi.
BAECC-105	**Environmental Science**	The major objective is to sensitise students for environment consciousness and sustainability as well as ethics regarding self and society.
BCC(B) 201	**Cell and Molecular Biology**	To acquaint the student about the study of the Biomolecules, plant cell structure, function and cell organelles
BAECC-206	**Drug Abuse: Problem, Management and Prevention**	The major objective we are able to sensitise students against problems associated with drugs. It describes about the psychological, physical and social effects of psychoactive substances on person using it and its prevention and recovery
BCC(B) 301	**Plant anatomy and Embryology**	To impart knowledge about various aspects of anatomical and embryological studies in plants.

BSEC(B) 304	**Mushroom Culture and Technology**	To impart theoretical as well as practical knowledge regarding various aspects of mushroom cultivation.
BCC(B)-401	**Plant Physiology and Metabolism**	To impart knowledge about the keys, floras and other standards used in plant taxonomy, and also enhance the practical knowledge about plant ecology.
BSEC(B)-404	**Nursery and Gardening**	To impart theoretical as well as practical knowledge regarding various aspects of nursery and gardening**.**
BDSE(B)-501 (i, ii)/ BDSE(B)-501 (i, ii) P	**i. Research Methodology** **ii. Plant Ecology and Taxonomy**	To impart knowledge about various aspects of research and to impart knowledge about separation techniques, Microscopy and other laboratory techniques. To impart knowledge about the keys, floras and other standards used in plant taxonomy, and also enhance the practical knowledge about plant ecology.
BSEC(B)-504	**Floriculture**	To impart knowledge about various aspects of scope and importance of floriculture, propagation, soil, nutrition and pest of flowers like rose, gladiolus, etc.
BDSE(B)-601 (i, ii)/ BDSE(B)-601 (i, ii) P	**i. Economic Botany and Biotechnology** **ii. Dissertation***	To enlightenedthe students with traditional economic plants and also impart knowledge about recent techniques used in plant sciences. To enhance the practical knowledge with a given assignment/ project/ dissertation

Department of Chemistry

Program Name: Bachelor of Science (B.Sc.)

Course Outcomes:

Course Code	Course	Course Outcome
BCC(C) 102	Atomic Structure, Bonding, GeneralOrganic Chemistry & Aliphatic Hydrocarbons	1. The students will be able to understand the interactions between matter and energy at both the atomic and molecular level. 2. The students will acquire the knowledge to predict atomic structure, chemical bonding and molecular geometry based on accepted models. 3. The students will be able to understand the fundamental concepts of organic chemistry and acquire the knowledge to

		distinguish between geometrical and optical isomerism and the stereochemistry of various organic moieties. 4. The course will enable the students to understand various methods of preparation and properties of aliphatic & aromatic hydrocarbons.
BCC(C) 102 P	Chemistry Lab: Atomic Structure, Bonding, General Organic Chemistry & Aliphatic Hydrocarbons	1. The students will be able to understand how to find the strength and concentration of salt in the given solution by volumetric analysis. 2. The students will acquire the practical knowledge to detect various elements present in given organic compounds. 3. The students will acquire the practical knowledge of separating various components present in a mixture by using chromatographic technique.
BCC(C)-202	Chemical Energetics, Equilibria & Functional group Organic Chemistry-I	1. The students will be able to understand the various name reaction with the mechanisms with special reference to rearrangement reactions, oxidation and reductions. 2. The students will acquire the knowledge of thermodynamic aspects of chemical equilibrium and laws of thermodynamics. 3. The students will be able to understand the concept of strength of acids and bases.
BCC(C)-212 P	Chemistry Lab: Chemical Energetics, Equilibria & Functional Group Organic Chemistry-I	1. The students shall be able to understand the concept of finding out the enthalpies of various acids and salts. 2. The students will learn to find out the adulteration of different drinks. 3. The students shall acquire the practical knowledge of reaction mechanism and synthesis of

		compounds of industrial importance. 4. The students will be able to get the practical knowledge of purification and recrystallisation methods.
BCC(C)-302	Solutions, Phase Equilibrium, Conductance, Electrochemistry & Functional Group Organic Chemistry-II	1. The students will be able to understand different types of binary solutions such as miscible, partially miscible and immiscible solutions along with their applications. 2. The students will be able to learn thermodynamic aspects of equilibrium between different phases and phase diagrams of one component and two component systems. 3. The students will be able to understand structure elucidation of biomolecules. 4. The students will be able to understand different types of electrolytic and galvanic cells, and measurement of conductance along with its applications. 5. The students will be able to learn methods of preparation and properties of amines, carboxylic acid and their derivatives.
BCC(C)-302(P)	Solutions, Phase Equilibrium, Conductance, Electrochemistry & Functional Organic Chemistry-II Chemistry Lab	1. The students shall be able to understand the various concepts of physical and chemical equilibrium. 2. The students will acquire the practical knowledge to construct phase diagrams and to determine CST of two component system. 3. The students shall be able to get knowledge of qualitative organic analysis of organic compounds possessing mono functional groups. 4. The students will be able to learn the importance of paper chromatography in chemistry.

BSEC(C)-304	Green Methods In Chemistry	1. The students will be able to learn the twelve principles of green chemistry and toxicity, hazard and risks of chemical substances. 2. The students shall be able to learn the design of safer chemicals and products. 3. The students will learn to carry out solvent free reactions in aqueous medium.
BCC(C)-402	Transition Metal & Coordination Chemistry, States Of Matter & Chemical Kinetics	1. The students will be able to understand chemistry of d and f block elements, Latimer diagrams, VBT and CFT for bonding in coordination compounds, concept of CFSE and Jahn-Teller distortion. 2. The students will acquire the knowledge of Maxwell-Boltzmann distribution, critical constants and viscosity of gases, properties of ideal and real gases and deviation from ideal behaviour. 3. The students will able to learn about properties of liquids such as surface tension and viscosity, symmetry elements, crystal structures of NaCl, KCl and CsCl. 4. The students will gain the knowledge of rate of reactions and the factors affecting it.
BCC(C)-402(P)	Transition Metal & Coordination Chemistry, States of Matter & Chemical Kinetics Chemistry Lab	1. The students shall be able to carry out qualitative analysis of mixtures containing two acidic and two basic radicals in presence of interfering radical by semi-micro methods. 2. The students will understand how to determine viscosity, surface tension and to carry out gravimetric and complexometric titrations. 4. The course will enable them to determine kinetics of various

		reactions.
BCC(C)421	Basic Analytical Chemistry	1. The students will be able to understand the various concepts of analytical chemistry such as accuracy, sampling, error and precision in measurements. 2. The students will acquire knowledge of analysis of soil and water by pH measurements and complexometric titrations. 3. The students will be able to estimate macro nutrients like potassium, calcium, magnesium ions in soil samples by flame photometry. 4. They will be able to determine caffeine and iron by spectrophotometric methods.
BDSE(C) 502	Spectroscopy and Polymer Chemistry	1. The students will get a deep insight into the various spectroscopic methods used for the characterization of organic compounds. 2. The course will enable the students to understand the principle, instrumentation of various spectroscopic techniques like UV-Vis, IR and NMR spectroscopy. 3. The students will be able to apply the concepts of spectroscopic techniques to distinguish between and / or identify simple organic compounds. 4. The students will be able to understand mass spectrometry, its Instrumentation, various methods of ionization, Different detectors, Rules of fragmentations of different functional groups. 5. The students will be familiarised with different types

		of polymerisation techniques, methods of preparation and uses of various organic and inorganic polymers. 6. The students will get an idea of the acidicity of enolates, alkylation of diethyl malonate and ethyl acetoacetate and concept of Keto-enol tautomerism operating in these enolates.
BDSE(C) 502(ii)	Transition Metal Complexes and Bio-Inorganic Chemistry	1. The students will be able to understand basic concepts, preparation, bonding and applications of various organometallic compounds. 2. The students will learn about metal olefin complexes, their bonding and applications in homogeneous and heterogeneous catalysis. 3. The course will enable the students to learn the properties, structures and bonding in metal carbonyls. 4. The students will be familiarized with the concepts of oxidation and reduction and different categories of acids and bases. 5. The students will be able to learn the concepts of thermodynamic and kinetic stability of complexes, the Trans effect, Theories of Trans effect and its mechanism. 6. The students will be able to understand the importance of metal ions in biological systems, structure and functioning of Metalloporphyrins with special reference to Hemoglobin and Myoglobin, Sodium/Potassium pump, toxicity caused by the

		metal ions and chelation therapy.
BDSE(C) 502(iii)	**Chemistry of Inorganic Materials**	1. The students will be able to understand different methods for the preparation of Inorganic Solids and chemistry of Molecular Materials. 2. They will be familiarised with nanostructures and nanomaterials, Preparation of gold and silver metal nanoparticles, Carbon nanotubes and inorganic nanowires. 3. The students will be introduced to Engineering Materials for Mechanical Construction, their Composition, mechanical and fabricating characteristics and applications. 4. The students will be getting an insight into the role of matrix in composites, classification, different categories of composites, environmental effects and applications of composites.
BDSE(C) 502(i)(P)	Spectroscopy and Polymer Chemistry Practical	1. The course will enable the students to prepare derivatives of different functional groups and then the characterization of these derivatives with the help of UV-Vis and IR spectroscopy. 2. The students will be able to prepare some polymeric compounds with the help of Free radical polymerization method and some condensation polymers too. 3. They will be able to determine the average molecular weight of the given polymer by viscosity method.
BDSE(C) 502(ii)(P)	Transition Metal Complexes and	1. The students will be able

	Bio-Inorganic ChemistryPractical	to synthesize coordination compounds. 2. They will learn to determine stoichiometry of Metal-Ligand complexes by Job's method. 3. They will be able to separate mixture of metal ions using paper chromatography.
BDSE(C) 502(iii)(P)	**Chemistry of Inorganic Materials Practical**	1. The course will enable the students to synthesize nanoparticles of Au, Ag and ZnO using different synthetic strategies. 2. They will be able to synthesize hydrogels by precipitation techniques.
BDSE(C)-602(i)	**Heterocyclic Compounds and Physical Aspects of Spectroscopy**	1. The students will be familiarized with molecular orbital picture, aromaticity, methods of preparation, physical and chemical properties of 5 member, 6 member and fused ring heterocyclic compounds. 2. The student would be able to achieve knowledge about the interactions of electromagnetic radiation and matter and their applications in spectroscopy 3. The students will learn laws of photochemistry, concepts of Quantum yield, Luminescence, Photosensitization and Jablonski Diagrams. 4. The students will be able to understand principle, instrumentation, selection rules involved in different transitions, spectra involved in Rotational, Vibrational and Electronic spectroscopy. 5. The students will be able to apply the different spectroscopic

		techniques in the study of structure elucidation of atoms and molecules.
BDSE(C) 602(ii)	Quantum Mechanics And Transition Metal Complexes	1. This course will enable the students to learn the basic postulates of quantum mechanics and to solve the simple quantum mechanical models such as simple harmonic oscillator, particle in 1D, 3D - box. 2. The students will be able to understand and apply symmetry elements and carry out symmetry operations in simple molecules. 3. Students will be able to understand the application of valence bond theory (VBT) and molecular orbital theory (MOT) to H_2 like molecules, quantum mechanical principle of hybridization and calculation of wave functions of hybrid orbitals. 4. The students will be familiarised with Electronic spectra of Transition metal complexes and Jahn Teller Effect. 5. Students will learn about the magnetic properties of Transition Metal Complexes, L-S coupling, temperature independent paramagnetism and orbital contribution to magnetic moment.
BDSE(C) 602(iii)	**Analytical Methods in Chemistry**	1. The course will enable the students to understand the fundamental laws and selection rules of spectroscopy including UV-Visible, Infrared and atomic absorption spectroscopy. 2. The students will learn the experimental skills on thermal and electro-analytical methods for different applications, principle of instrumentation and techniques for quantitative estimation and

		determination of equivalence points. 3. The students will understand qualitative and quantitative aspects of chromatographic methods of analysis: IC, GLC, GPC, TLC and HPLC. 4. The students will learn about mechanism of extraction, technique of extraction and qualitative and quantitative aspects of solvent extraction.
BDSE(C)-602(i)(P)	**Heterocyclic Compounds and Physical Aspects of Spectroscopy**	1. The students will be able to prepare heterocyclic organic compounds and polymers via multi step synthetic sequences. 2. The students will study UV-Vis spectra of coloured solutions for determininig their λ_{max} values. 3. The students will be able to carry out complexometric and colorimetric studies.
BDSE(C)-602(ii)(P)	**Quantum Mechanics And Transition Metal Complexes**	1. The students will learn to determine the strength of solutions colorimetrically and hence verify Beer –Lamberts Law 2. They will be able to determine CST and CSC for phenol/water system. 3. The course will enable the students to determine refractive index of liquids by using Abbe's refractometer. 4. They will be able to find out the end points of titrations of mixtures of strong acids and weak acids conductometrically.

		5. They will learn to determine distribution coefficients of iodine between CCl_4 and H_2O
BDSE(C)-602(iii)(P)	**Analytical Methods in Chemistry Practical**	**1.** The students will be able to develop an understanding of the role of the chemist in measurement and problem solving in chemical analysis. 2. The students will have work experience of handling spectro-photometric analysis. 3. The course will provide an understanding of and skills in advanced methods of separation and analysis.

Program Name: Master of Science in Chemistry (M.Sc.)

Programme Outcome:

On successful completion of this Programme, students will have the ability to:

1. Think critically and analyse chemical problems.
2. Present scientific and technical information resulting from laboratory experimentation in both written and oral formats.
3. Work effectively and safely in a laboratory environment.

Programme Specific Outcome:

1. The students will be able to undertake discipline specific competitive exams conducted by service commission
2. The students will become eligible for various job opportunities in chemical, pharmaceutical, food products, R & D Division and life-oriented material industries
3. The students will have opportunities to pursue Ph.D. programme targeted approach of CSIR-NET examination
4. The students will develop skills to solve complex chemical problems, e.g., analysis of data, synthetic logic, spectroscopy, structure and modeling etc.
5. The students will have theability to demonstrate and perform accurate quantitative measurements with an understanding of the theory and use of contemporary chemical

instrumentation, interpret experimental results, perform calculations on these results and draw reasonable, accurate conclusions.

6. The students will beequipped with basic analytical and technical skills to work effectively in the various fields of chemistry.
7. The students will have the ability to synthesize, separate and characterize compounds and to develop laboratory competence in relating chemical structure to spectroscopic phenomena.

Course Outcome:

Course Code	Course	Course Outcome
MCH 101	Inorganic Chemistry	1. This course will enable the students to learn basic concepts of chemical bonding and theoretical treatment of bonding by various theories. 2. The students will be able to understand the bonding in complexes with pi- acid ligands and hard-soft interactions. 3. The students will be able to learn about the important compounds of main group elements including boranes, silicates, zeolites, organometallic compounds. 4. The students will be able to apply the learnt concepts to predict bond order, pi-acidity as well as hardness and softness of ligands, important properties of main group elements.
MCH 102	Organic Chemistry	1. This course will enable the students to understand the basic concepts and mechanism in organic chemistry. 2. The students will get an idea about the various kinetic and thermodynamic factors which control the organic reactions and to understand the nature of bonding in organic molecules. 3. The students will get an idea about techniques used for determination of reaction mechanism. 4. The students will be able to understand the concept and definitions of aromaticity. 5. The students will be familiarised with the important Pericyclic and elimination reactions in organic chemistry.
MCH 103	Physical Chemistry	1. The students will be able to learn the basic concepts used in thermodynamic processes to calculate changes in kinetic, potential, enthalpy and internal energy. 2. The students will be able to understand the formulation of the first law of thermodynamics for closed systems and arrange the change in energy in

		the closed systems via heat and work transfer. 3. The students will be able to construct energy and mass balance for unsteady-flow processes and thermodynamic applications using second and third law. 4. The students will be familiarised with electrochemical systems of electric energy production, Electrochemical processes of surface treatment and production of materials.
MCH104 A	Mathematics for Chemists	1. The students will be able to understand the basic concepts of Matrix Algebra such as Addition and multiplication, 2. The students will be able to find determinants inverse, adjoint and transpose of matrices. 3. The students will be able to solve Homogeneous, non-homogeneous, linear equations 4. The students will be able to find linear dependence and independence. Eigen values and Eigen vectors. 5. The students will be familiarised with relation between degree and radian, 6. The students will be able to learn Concept of periodicity of trigonometric functions, values of trigonometric functions for different angles, trigonometric functions of sum and differences of angles, additions and subtraction formulae. 7. The students will be able to understand Differentiability, rules for differentiation, applications of differential calculus including maxima and minima. 8. The students will be able to understand Basic rules for integration, integration by parts, partial fraction and Substitution, definite integrals. 9. The students will be able to obtain an integrating factor which may reduce a given differential equation into an exact one and eventually provide its solution. 10. The students will be able to Identify and obtain the solution of Clairaut's equation. 11. The students will be able to define the complementary function and particular integrals of linear differential equation. 12. The students will be able to conceive the basic concepts of Permutations and combinations, probability, probability theorems examples from the Kinetic theory

MCH 104 B	Biology for Chemists	1. The students will be able to demonstrate and realise the importance of Chemistry in Biological terms both theoretically and practically. Students may also choose to specialize in a particular field within biology. 2. Since Chemistry is the fundamental basis of all the life processes occurring in a living organism, hence it would be of interest for the students towards better understanding of mechanisms of chemical reactions; study its kinetics for its application in molecular research. 3. The students will be able to apply their knowledge and relate it in terms of disease study, its cause, prognosis, diagnosis and treatment. 4. This course would provide students with ample opportunities in the art of critical thinking, associated cognitive skills in the formulation of a problem, data gathering and analysis, and interpretation of results to address practical questions relating various fields of genetics and molecular biology: studying molecular mechanisms behind molecular motors, DNA replication, repair, transcription etc. 5. It can even lead the students to create some innovative applications of chemistry in multiple fields of biology (biodiversity, forensics, environmental pollution etc.)
MCH-105	Inorganic Chemistry Practical	4. The course will enable the students to carry out standardisation of various reagents like $KMnO_4$, $K_2Cr_2O_7$, $Na_2S_2O_3$ and carry out oxidation-reduction titrations. 5. The students will be able to carry out precipitation titrations using $AgNO_3$. 6. They will be able to determine metals by complexometric titrations using EDTA. 7. They will be able to carry out gravimetric/titrimetric determination of mixed metal ions. 8. The students will be able to carry out synthesis of simple coordination compounds.
MCH-106	Analytical Chemistry Practical	1. The students will able to demonstrate the complexo-metric titrations. 2. The students will be able to calculate the equivalence point by using the conductometric, pH metric and potentiometric titrations.
MCH-201	Inorganic Chemistry	7. The students will be able to understand and apply

		symmetry elements, carry out symmetry operations and find point groups of molecules. 8. The students will learn about character tables and apply group theory to chemical bonding, directed valence and splitting of orbitals. 9. The students will learn to apply group theory in spectroscopy to know activity of transitions. 10. The students will be able to understand the concepts of various theories of metal ligand bonding in coordination complexes. 11. The students will be able to find out term symbols for various configurations and the effect of weak, medium and strong ligand field on these term symbols.
MCH-202	Organic Chemistry	1. The students will be able to apply stereochemical aspects to reaction mechanism and learn methods of racemisation and resolution. 2. The students will recognize stereochemistry and be able to apply the Cahn-Ingold-Prelog system to designation of stereochemistry (E/Z, R/S, *re/si*). 3. The students will be able to know stereochemistry and various possible conformations of organic compounds. 4. The students will take up detailed study of Conformational Isomerism and geometrical isomerism 5. The students will recognize mechanistic and stereochemical aspects of addition reactions to carbon-carbon multiple and carbon-hetero multiple bond.
MCH-203	Physical Chemistry	6. This course will enable the students to learn the basic postulates of quantum mechanics. 7. To enable the students to solve the simple quantum mechanical models such as simple harmonic oscillator, particle in a 1D, 3D - box. 8. The students will be able to understand the quantum mechanical aspect of angular momentum and spin angular momentum. 9. The students will learn the application to harmonic oscillator, rigid rotor, one-electron and many-electron atoms, and homo-and hetero-nuclear diatomic molecules. 10. The students will be able to understand the use of the Huckel rule to conjugate systems.. 11. The students will be able to learn the different theories of reaction rates and factors affecting

		reaction rates. 12. The students will get an idea about the different types of catalysis and their mechanisms.
MCH-204	Computer Fundamentals and Programming With C	1. The students will be able to apply algorithmic reasoning to a variety of computational problems. 2. The students will be able to design, correctly implement and document solutions to significant computational problems. 3. The students will be able to implement software systems that meet specified design and performance requirements. 4. The students will be able to work effectively in teams to design and implement solutions to computational problems. 5. The students will be able to communicate effectively, both orally and in writing. 6. The students will be able to recognize the social and ethical responsibilities of a professional working in the discipline.
MCH-205	Organic Chemistry Practicals	1. The students will be able to separate and purify an organic mixture by chemical/solvent separation methods. 2. The students will be able to prepare organic compounds via multi step synthetic sequences 3. The students will be able to employ methods for synthesis like oxidation, condensation, Substitution and heterocyclic ring formation etc. 4. The students will be able to monitor the progress of the reaction by chromatographic and spectral technique (FTIR).
MCH-206	Physical Chemistry Practicals	1. The students will able to demonstrate the practicals of viscosity, surface tension, kinetics, refractometer and Partition function.
MCH-301	Analytical Chemistry	1. The students will be able to explain the fundamentals of analytical chemistry and steps of a characteristic analysis, express the role of analytical chemistry in science, Compare qualitative and quantitative analyses. 2. The students will be able to estimate kinds of errors in chemical analysis. Evaluate the effects of systematic errors on analytical results. Compare of the experimental mean with a true value and two experimental means. 3. The students will be able to determine the detection limits. Interpret the statistical tests. Interpret the

		sources of random errors and effects of random errors on analytical results. 4. The students will be able to explain the sources of random errors. Specifies the standard deviation of calculated results. 5. The students will be able to express the significant figures and rounding of data, identify quality of experimental measurements, detection limit and explain the confidence level and confidence limit.
MCH-311	Chemistry of Transition and Inner Transition Elements	1. The students will be able to understand how electronic properties of transition metals can influence reactivity, atomic size and other physical and chemical properties of the elements. 2. The students will be able to understand the mechanisms of recovery of pure metal from their respective ores and formation of coordination complexes with various ligands. 3. They will be able to understand reaction mechanisms of their synthesis, to study structural information and their uses in day to day life. 4. They will be able to apply their understanding to predict electronic spectra of transition metal complexes. 5. The students will be able to evaluate the magnetic properties of transition metal complexes by studying origin and type of magnetic behaviour, and its variation with temperature.
MCH-312	Reaction Mechanisms of Transition Metal Complexes	1. The students will be able to understand the mechanisms and rates of substitution reactions in octahedral complexes. 2. They will be able to understand reaction mechanisms of square planar complexes. 3. They will be able to comprehend the mechanisms of electron transfer reactions and photochemical reactions. 4. The students will be able to understand the reaction mechanisms of oxidative addition, reductive elimination, insertion and migration reactions. 5. The students will be able to understand the factors affecting the stability of complexes and apply various methods to determine the stability of complexes.
MCH-313	Inorganic Spectroscopy-I	1. The students will achieve advanced knowledge about the interactions of electromagnetic radiation and matter and their applications in spectroscopy.

		2. The students will be able to apply formalisms based on molecular symmetry to predict spectroscopic properties. 3. They will be able to analyze and interpret spectroscopic data collected by the methods discussed in the course. 4. They will be able to solve problems related to the structure, purity and concentration of chemicals and molecular interactions by choosing suitable spectroscopic methods and interpreting corresponding data. 5. The students will be able to apply the following methods: Electronic absorption spectroscopy of atoms and molecules, IR spectroscopy, Light scattering and Raman spectroscopy, NMR spectroscopy, NQR spectroscopy, MASS spectroscopy, EPR spectroscopy and Moss-Bauer spectroscopy.
MCH-314	Inorganic Chemistry Practicals-I	4. The students will be able to synthesise coordination compounds. 5. They will be able to record the UV-Vis and IR spectra of synthesised compound 6. They will be able to estimate the metal and ligand present in the prepared complex. 7. They will learn to determine stoichiometry of the metal-ligand complexes by Job's and mole ratio method.
MCH-315	Inorganic Chemistry Practicals-II	1. The students will be able to design and carry out scientific experiments as well as accurately record and analyze the results of various experiments, like conductometery, pH metery. **2.** The students will learn about applications of the chromatography by Paper, Thin Layer and column chromatography. 3. They will be able to understand Solvent extraction techniques.
MCH-321	Applications of Organic Molecular Spectroscopy	7. The students will get a deep insight into the various spectroscopic methods used for the characterization of organic compounds. 8. The students will be able to elucidate the structure of compounds by analyzing the spectral Data. 9. The students will be able to apply the concepts of Chemical Shift, deshielding, correlation for protons bonded to carbon and other nuclei. 10. The students will be able to understand the concepts of ^{13}C NMR spectroscopy: FT-NMR, type of ^{13}C

		NMR spectra, proton decoupled, off resonance, APT, INEPT, DEPT, Chemical shift, nuclear and hetero nuclear coupling constant. 11. The students will be able to apply 2D NMR techniques for structure correlation of certain compounds. 12. The students will be able to understand mass spectrometry, its Instrumentation, various methods of ionization, Different detectors, rules of fragmentations of different functional groups. 13. The students will be able to apply the gained knowledge to solve the structure related problems of organic compounds.
MCH-322	Photochemistry and Pericyclic Reactions	1. Students will know about the stereochemical problems in relation to chemical transformations. 2. Students will learn different types of rearrangement reactions 3. Students will know synthetically the processes relevant organic-chemical reactions and be able to discuss the mechanism of these reactions 4. Students will learn the Photochemical excitation and Jablonski diagram. 5. To impart the students knowledge about the study of photochemistry of ketone-photo reduction-photo cycloaddition. 6. Students will do detailed study of Pericyclic reactions and Cyclo addition and sigmatropic reactions.
MCH-323	Chemistry of Natural Products	1. The students will learn about the chemistry of carbohydrates, heterocyclic compounds, amino acids, proteins and nucleic acids. 2. The students will be acquainted with the fundamentals of terpenoids, alkaloids, vitamins, lipids and steroids. 3. The students will be able to determine the complex structure of steroids.
MCH-324	Organic Chemistry Practicals-I	4. The students will be able to prepare organic compounds via multi step synthetic sequences 5. The students will know the various methods employed for reactions. 6. The students will be able to monitor the progress of a reaction. 7. The students will learn how to characterize the synthesized compounds.
MCH-325	Organic Chemistry Practicals-II	1. The students will gain knowledge of methods for calibration and sampling applied to quantitative

		analysis. 2. The students will be able to design and carry out scientific experiments as well as accurately record and analyse the results of such experiments. 3. The students will be able to apply the analytical methods based on titrations practically. 4. The students will be able to critically evaluate data collected to determine the identity, purity, and percent yield of product. 5. The students will be able to determine the percentage purity of sugar by Fehling's method and Benedict's solution
MCH-331	Spectroscopy-I	1. The students will gain advanced knowledge about the interactions of electromagnetic radiation and matter and their applications in spectroscopy. Be able to apply formalisms based on molecular symmetry to predict spectroscopic properties. 2. The students will be able to solve problems related to the structure, purity and concentration of chemicals and to study molecular interactions by choosing suitable spectroscopic methods and interpreting corresponding data. 3. The students will be able to learn the basic principle of different techniques employed in molecular spectroscopy. 4. The students will be able to study the origin, instrumentation and important applications of Microwave, IR, Raman, UV, NMR, NQR, ESR and EQR techniques.
MCH-332	Biophysical Chemistry and Thermodynamic Chemistry	1. The students will be able to understand how physical laws govern biological processes and basic knowledge about how physical methods can be applied to understand biological processes. 2. The students will be able to learn the relation between structure, function and dynamics of biological macromolecules and the forces governing protein folding and misfolding. 3. The students will be familiarized how statistical mechanics can be applied to understand the properties of biological membranes
MCH-333	Fundamental and Atmospheric	1. This course will enable the students to describe and explain photochemical and photo physical processes

	Photochemistry	and mechanisms with suitable theoretical models, and apply established experimental methods for the investigation of these processes. 2. The students will be able to describe the interaction of excited states with their surroundings and analyze photo induced electron transfer and excitation energy transfer with quantitative models 3. The students will get knowledge about photochemical and photo physical processes and the reactivity of excited states to explain applications in photochemical energy conversion and other selected issues. 4. The students will be able to develop knowledge of chemical and biochemical principles of fundamental environmental processes in air and Recognize different types of toxic substances & responses and analyze toxicological information. 5. The students will learn the basic chemical concepts to analyze chemical processes involved in different environmental problems and describe causes and effects of environmental pollution by energy industry.
MCH-334	Instrumental Physical Chemistry Practicals-I	1. The students will be able to learn the knowledge ofspectrophotometer and polarimeter practicals.
MCH-335	Physical Chemistry Practicals-I	1. The students will be able to calculate the order and rate of reaction and eutectic point by using phase equilibria and also get practical knowledge about thin layer chromatography.
MCH-401	Environmental and Advanced Topics in ChemistryChemistry	1. The students will be able to demonstrate knowledge of chemical and biochemical principles of fundamental environmental processes in air, water, and soil. Recognize different types of toxic substances & responses and analyze toxicological information. 2. The students will be able to apply basic chemical concepts to analyze chemical processes involved in different environmental problems (air, water & soil). Describe water purification and waste treatment processes and the practical chemistry involved. 3. The students will be able to describe causes and effects of environmental pollution by energy industry and discuss some mitigation strategies.

		Explain energy crisis and different aspects of sustainability. Discuss local and global environmental issues based on the knowledge gained throughout the course 4. The students will have an understanding of chemical methods employed for environmental problem solving. Experience in some scientific methods employed in environmental chemistry. Developed skills in procedures and instrumental methods applied in analytical tasks of environmental chemistry 5. The students will be introduced to the chemistry, preparation, structure and physical properties of inorganic nanoparticles. Students will learn about methods to synthesize inorganic nanoparticles, and learn to evaluate particle size and shape distributions. 6. They will be able to predict the stability of nanoparticles in solution, and to understand the nucleation and growth of nanoparticles. Students will also be aware of applications of nanoparticles in science and technology. 7. The students will learn the concept of Green Chemistry its principles and applications.
MCH-411	Chemistry of Organometallic Compounds	1. The students will be able to explain and rationalize the synthesis, structure, bonding, properties and reactivity of both main group and transition metal organyls. 2. The students will be able to explain and rationalize industrially important catalytic processes through the application of organometallic principles know important applications of organometallic homogeneous catalysis in the production of large-scale (bulk) and smaller-scale (fine chemicals) production. 3. The students will be able to use knowledge about structure and bonding issues to understand the stability and reactivity of metal carbonyls.
MCH-412	Advanced Inorganic Chemistry	1. The course will enable the students to know about the synthesis methods and structural patterns observed in high nuclearity carbonyl clusters. They will be used to understand and apply capping rule. 2. The students will be able to understand various aspects of radioactivity, nuclear processes and application of radioactive elements in isotopic and exchange reactions.

		3. The students will be able to learn the role of metals in biological systems, metalloenzymes, metal containing pigments and other aspects of metals in biological systems. 4. The students will be able to understand principles of receptor design and role of receptors in recognition, transformation and transport. They will also understand the working of supramolecular devices.
MCH-413	Inorganic Spectroscopy-II	1. The student would be able to achieve advanced knowledge about the interactions of electromagnetic radiation and matter and their applications in spectroscopy. 2. The students will be able to apply formalisms based on molecular symmetry to predict spectroscopic properties. 3. The students will be able to analyze and interpret spectroscopic data collected by the methods discussed in the course. 4. They will be able to understand to solve problems related to the structure, purity and concentration of chemicals and to study molecular interactions by choosing suitable spectroscopic methods and interpreting corresponding data. 5. The students will learn about applications of the following methods: Electronic absorption spectroscopy of atoms and molecules, IR spectroscopy, Light scattering and Raman spectroscopy, NMR spectroscopy, NQR spectroscopy, MASS spectroscopy, EPR spectroscopy and Moss-Bauer spectroscopy.
MCH-414	Inorganic Chemistry Practicals-I	1. The students will be able to carry out preparation of various compounds and study their important properties viz. UV-Vis and IR spectra. 2. To give students a comprehensive understanding of the stereochemistry of synthesized compounds. 3. The students will be able to gain the skill to design and carry out experiments in order to synthesized Nano particles, use of ionic liquids and isolation of silver from lab waste.
MCH-415	Inorganic Chemistry Practicals-II	1. The students will be able to determine Fe(II), Fe(III), Cu(II), Cr(III), Ni(II) spectrophotometrically by complexation with suitable ligands. 2. They will be able to assign transitions and determine oscillator strengths in the UV-Vis spectra of transition metals.

		3. The students will understand the basis of spectrochemical series and will be able to determine the relative position of ligands on basis of 10Dq value. 4. They will become capable of recording the fluorescence spectra of organic dyes and understand fluorescence quenching phenomenon 5. The students will have a basic knowledge about the working of HPLC and GC.
MCH-421	Name Reactions and Reagents in Organic Synthesis	1. The students will get insights into reactions and reagents in organic synthesis. 2. The students will study the various name reaction with examples. 3. The students will learn the mechanism of rearrangement reaction, use synthetic reagent of oxidation and reduction for solving the problems.
MCH422	Organic Synthesis	1. The students will know the various methods employed for reactions like oxidation, reduction, carbocyclic and heterocyclic ring formation etc. 2. The students will know the utility of protecting group strategy in organic synthesis. 3. The students will be familiarised with the basic principles of retro syntheses, biosynthesis and biomimetic synthesis.
MCH-423	Heterocyclic Chemistry	1. The students will learn naming heterocycles using various methods of nomenclature. 2. The students will understand the criteria of aromaticity in heterocycles and the outcomes of steric and stereo electronic effects in non-aromatic heterocycles 3. The students will gain understanding of various synthetic strategies and application of those methods for the preparation of specific groups of heterocyclic systems. 4. The students will be made familiar with particular properties, reactions, and applications of the most important as well as less common heterocycles.
MCH-424	Organic Chemistry Practicals-I	1. The students will get insights into different reactions and reagents in organic synthesis. 2. The students willgain the skill of use of protecting group strategy in organic synthesis. 3. To further strengthen the ability of the students to characterize the compounds and monitoring of the reactions.

MCH-425	Organic Chemistry Practicals-II	1. To know the application of analytical methods based on titrations. 2. The principles of chromatography for characterizing aminoacids, sugars and dyes. 3. Students will gain an understanding of sampling for absorbance spectrophotometry. 4. To utilize UV spectrophotometry to monitor quantitative analysis. 5. To understand the performance of graphical analysis to analyze laboratory results.
MCH-431	Spectroscopy-II	1. This course will enable the students to learn the concepts of the fundamentals of spectroscopy and its applications in the study of structure of atoms, bonding in molecules and molecular spectroscopy. 2. The students will get the knowledge of the fundamentals of mass spectrometry, AES, PES, AES, Photoelectric effect, Mossbauer spectroscopy, Flame photometry, Refractometry, CD and ORD. 3. The students will be able to study the origin, instrumentation and important applications of mass spectrometry, AES, PES, AES, Photoelectric effect, Mossbauer spectroscopy, Flame photometry, Refractometry, CD and ORD.
MCH-432	Solid State and Radiation Chemistry	1. This course will enable the students to get an overview about the structure and properties of solid crystals and liquid crystals. To know the characterization of crystals using X-Ray diffraction. To learn the important aspects of gaseous state and electrochemistry. 2. The students will learn the principle, instrumentation and applications of diffraction method. Classify porous materials and discuss in detail properties. 3. The students will be able to understand the natural radioactivity, nuclear reactors, artificial radioactivity, Radiation sources, machine sources, Van de Graff accelerator, cyclotron, microwave linear accelerator. 4. The students will be familiarized with band model theory for metals Intrinsic and impurity semiconductor and also understand the laser, maser and their types.
MCH-433	Surface Chemistry and Polymer	1. This course will enable the students to Compare and contrast heterogeneous and homogeneous catalysts.

	Chemistry	Compare and contrast strong and weak chemical interactions and comment on their role in physisorption and chemisorptions. 2. The students will be able to Explain the importance of the adsorption processes in enabling heterogeneous catalysis. Describe assumptions behind models used in derivation of adsorption isotherms. 3. The students will be able to explain and how selected isotherms could be used for measurement of surface area of materials or in rationalization of catalysis (dissociative adsorption, mechanisms). 4. The students will learn to reflect on the evolution of knowledge about active sites in heterogeneous catalysts. Discuss modern approaches to fabrication of model heterogeneous catalysts and contrast these with simpler ones used in industry. 5. The students will learn about step-growth and chain polymerization, with respect to mechanism and kinetics. 6. The students will be able todistinguish between absolute and relative methods for molecular weight determination and describe the flow properties of polymer melts and solutions by using various methods.
MCH-434	Instrumental Physical Chemistry Practicals-II	1. The students will be able to demonstrate the practicals of conductance, pH meter and potentiometer for calculating the end point.
MCH-435	Physical Chemistry Practicals-II	1. The students will be able to understand the variation of absorption by using different concentrations of solution with the help of spectrophotometer.

The Program Specific Outcomes and Course Outcomes of all the Programmes

Program Name: B.Sc. Honours Chemistry

Learning Objectives:

- Students will learn to demonstrate, solve and an understanding of major concepts in all disciplines of chemistry.
- Students will be able to Solve the problem and also think methodically, independently and draw a logical conclusion.
- Students will employ critical thinking and the scientific knowledge to design, carry out, record and analyse the results of chemical reactions.

- It Creates an awareness among the students about the impact of chemistry on the environment, society, and development outside the scientific community.
- It will inculcate the scientific temperament in the students and outside the scientific community.
- To develop problem solving skills among the graduates.

Programme Specific Outcomes

- Students will gain the knowledge of Chemistry through theory and practical.
- Students will understand good laboratory practices and safety.
- Learners will develop research-oriented skills and to make aware and handle the sophisticated instruments/equipments.
- Acquaint the students with the skills in the proper handling of apparatus and chemicals. To be exposed to the different processes used in industries and their applications. Use modern techniques, decent equipments.
- After being a graduate in Chemistry he/she can pursue the further education by joining M.Sc. (Hons.) and followed by research. He/she can lead career as a teacher. They can also join as a chemist in any research organization.
- Students will understand basic facts and concepts in Chemistry while retaining the exciting aspects of Chemistry so as to develop interest in the study of chemistry as a discipline.
- Students will be familiarised with the emerging areas of Chemistry and their applications in various spheres of Chemical sciences and to apprise the students of its relevance in future studies.

Course Outcome:

Course Code	Course	Course Outcome
BHC 101	Inorganic Chemistry- I	Upon completion of this Course the student should be able to: • Impart a thorough knowledge about atoms and their structure and their bonding with other atoms. • Learn the complete information about the molecular stability, feasibility and what type of elements exists and how they arranged in periodic table according to their properties. • However, even understanding the chemical bonds lends itself to discover

		some important appreciation of our surrounding.
BHC 101(P)	Inorganic Chemistry-I Lab	• After completion of this course the students will able to • Calibrate and handle the apparatus and prepare different concentration of solutions using normality and molarity equations. • Determine the concentration of an analyte of unknown concentration by making use of acid-base and oxidation-reduction titrations.
BHC 102	Physical Chemistry-I	After the completion of this course students will be able to: • Get the complete knowledge about the gas law to gas phase reaction, perform stoichiometric calculations using gas properties and the relationship between kinetics energy and temperature of a gas. • Understand the influence of crystal binding energy on crystal structure and lattice vibration on thermal behaviour. • Demonstrate an understanding of models to describe defects and diffusion.

BHC 102(P)	Physical Chemistry-I Lab	• Students will be able to calculate the surface tension which is an important parameter in many industrial purposes. • Viscosity has precisely importance in industry, have application including biopharmaceutical and industrial industry. • Students will be acquainted to use the techniques for chemical laboratory analyses such as pH.
BHC 201	Organic Chemistry-I	On successful completion of this course students will be able to: • Know and recall the fundamental principles of organic chemistry that include hybridization, electronic displacements& types of organic reactions. • Describe the importance of configuration of chiral organic compounds and effect of this on physical and chemical properties. • Demonstrate an understanding of the structure, nomenclature, physical properties, preparation and major reactions of Aliphatic and aromatic hydrocarbons.
BHC201(P)	Organic Chemistry-I Lab	• The students will develop skills regarding determination of melting points and boiling points used to characterize compounds and to ascertain their purity. • The students will be well versed to perform chromatographic techniques like thin layer and paper chromatography used for separation and quality analyses.

BHC202	Physical Chemistry-II	• The students will develop skills regarding determination of melting points and boiling points used to characterize compounds and to ascertain their purity. • The students will be well versed to perform chromatographic techniques like thin layer and paper chromatography used for separation and quality analyses.
BHC 202(P)	Physical Chemistry-II Lab	• Students will be able to calculate the change in enthalpy based on Hess's law and bond energy data which is useful in predicting reactant and product throughout the course of given reaction. • Students will take up detail study of thermochemistry as it has various applications in chemical and biochemical system.
BHC301	Inorganic Chemistry-II	Upon completion of this Course the student would be able to: • Understand the S, p block elements, noble gases and also inorganic polymer have a great role in chemistry and our life. • To learn the concepts of acids and bases, pH and buffer solutions and able to distinguish between acids and bases among the laboratory chemicals and real life products. • Apply the concept of metallurgy for purification of metals.
BHC301 (P)	Inorganic Chemistry-II Lab	• Students understand the principle of iodometry and iodatometry and develop precise iodometric method for determination of chloride, useful in food industry.

		• Complexometric titrations are useful in a couple of different fields, namely analytical, pharmaceutical chemistry.
BHC302	Organic Chemistry-II	Upon completion of this Course the student would be able to: • Apply information from general chemistry that is relevant to organic chemistry, as well as to recognize the concepts of structure and functional groups in organic chemistry. • Name, detail the structure, properties and reactions of alkyl and aryl halides and demonstrate an understanding of the characteristics of the nucleophilic substitution reaction. • Name alcohols, ethers, carbonyl compounds, carboxylic acids,thiols,thioethers and sulphonic acid .As well as demonstrate an understanding of the major reactions of the alcohols, phenols, carboxylic acids and ethers.
BHC302 (P)	Organic Chemistry-II Lab	This course develop the basic skills for the single step and multi-step organic synthesis with the principle of organic chemistry
BHC303	Physical Chemistry-III	• The scholar will understand the concept of eutectic point, congruent and incongruent melting points, CST and CSC by exactly knowing the equilibrium existing between different states of matter. • The learners will understand the various phenomenon occurring at the interface of two surfaces and how these phenomenon get affected by change in pressure and temperature. • At the end of this course, the students will learn about chemical kinetics: the study of rate of reaction with proposed mechanism on a microscopic level.

		The students will understand the variation in reaction rate with change in temperature and concentration which will prove beneficial for them on industrial front as they will know the best way to produce the chemicals as fast as possible.
BHC303 (P)	Physical Chemistry III Lab	The students will be made to practically analyse the theoretical concepts through various practical problems like determination of critical solution temperature and composition of two component system, effect of impurities on them, construction of phase diagrams using cooling curves, study of kinetics of reactions and verification of different adsorption isotherms.
BHC305 A (P)	Skill Enhancement Course: Green Methods in Chemistry	Provides wide range of applications of green chemistry includes uses in the pharmaceutical industry, as well as new approach to eliminate or reduce the use of solvents or render them safer and more efficient.
BHC305 B (P)	Skill Enhancement Course: Pesticide Chemistry	• Pesticides application refers to the practical way in which pesticides including herbicides, fungicides, insecticides are delivered to biological targets.
BHC 401	Inorganic Chemistry-III	At the end of the course, the learners would be able to: • Identify the principles, structure and reactivity of selected coordination complexes Interpret their electronic spectra and magnetic properties. • To describe the shapes and structures of coordination complexes with coordination numbers ranging from 4 to 12. • To use Crystal Field Theory to understand the magnetic properties of coordination compounds. • To become familiar with some applications of coordination

		compounds. • Identify and understand the trasition, Lanthanoids and Actinoids and their properties. • Understand the role and action of metals in biological system.
BHC 401(P)	Inorganic Chemistry-III Lab	This course will train the students in the quantitative analysis of metal ions and anions using gravimetric method, chromatography techniques, inorganic preparations.
BHC 402	Organic Chemistry-III	Upon completion of this Course the student would be able to: • Get an idea of preparation methods , properties and reactions of the nitrogen containing functional group such as amines , diazonium salts etc. • Learn the technique of synthesis of heterocyclic compounds used in synthesis of various drugs & students will also get basic idea of properties and reactions of heterocyclic compounds . • Get to know the medicinal importance of various alkaloids & learn the method of structure elucidation of terpenoids as these two are the very important organic chemicals available in different kind of drug and perfumery chemicals.
BHC 402(P)	Organic Chemistry-III Lab	• Impart students a knowledge about the chemistry of some selected functional groups with a view to develop proper aptitude toward the study of organic compounds and their reactions. • The technique of synthesis of heterocyclic compound is important in the synthesis of different drugs.This course gives the quantitative idea about the synthesis of heterocyclic compounds.

BHC 403	Physical Chemistry-IV	● Upon completion of this course, the students will learn to construct an electrochemical cell. ● In addition to this, the students will understand how to measure the cell potential for an electrochemical cell and how to use this measured cell potential to calculate the free energy change, enthalpy change and entropy change.
BHC 403(P)	Physical Chemistry-IV Lab	• Students will be able to apply their knowledge for EMF measurements in determing (i) equilibrium constants and (ii) pH values using different electrodes. • Moreover, the course includes the study of potentiometric titrations of different acids and bases which has many applications in agriculture,medicine and food industry.
BHC405 A (P)	Basic Analytical Chemistry	Students get the knowledge in every aspect of the chemical industry, including catalysis, material sciences, fuels and agriculture.
BHC 405 B (P)	Fuel Chemistry	Students get the knowledge of broad range of renewable gasoline and diesel fuels ranging from currently available ethanol and biodiesel.
BHC 501	Organic Chemistry- IV	After the completion of this course students will be able to: • Get knowledge about the classification and biological role of carbohydrates, nucleic acids and Amino acids • Able to describe the different levels of protein structure and their interdependence. • Be familiar with the enzymes (biocatalysts), and their salient attributes including unique conformation and amazing catalytic properties.

		• Demonstrate an understanding of structure & metabolism of macromolecules and also understand the regulation and disorders of metabolic pathways.
BHC 501 (P)	Organic Chemistry- IV Lab	The students will be able to: • Apply various methods for the estimation and analysis of carbohydrates, amino acids and protein. • Compare the average fatty acid chain length by determining their saponification value. • Understand that what are favourable optimum conditions for enzymatic activity of salivary amylase.
BHC 502	Physical Chemistry-V	After the completion of this course students will be able to: • Understand concepts of the fundamentals of quantum mechanics and its applications in the study of structure of atoms, bonding in molecules and molecular spectroscopy. Learn the basic concepts of photochemistry.
BHC 502 (P)	Physical Chemistry-V Lab	At the end of this course, the students will be able to • Operate the Conductometer and Potentiometer for the redox titrations. • Apply the concepts of Beer-Lambert's law to different samples.

BHC 503 A	Inorganic Materials of Industrial Importance	After completion of this course the students will be able to • Learn the preparation of some industrial inorganic products and the challenges facing their production. • Emphasize on learning the importance of inorganic chemical industry, their economic impact, individual chemical processes and production challenges. • Develop creative thinking about how this industry can be improved by having knowledge of experimental factors.
BHC 503 A (P)	Inorganic Materials of Industrial Importance Lab	• Enable the students to analyse the binary mixtures of metallic ions by volumetric and gravimetric methods. • To acquire the skill to analyse some common alloys and ores.
BHC 503 B	Novel Inorganic Solids	After the completion of this course the students will be able to • Develop important processing skills of the engineering materials which will enhance lifelong learning. • Able to synthesise the nano particles specifically gold and silver NP's. Along by the end they will be familiar with the different methods used for the solid-state synthesis. • Understand the advantage of composite material over conventional material. • Learn the use of various engineering materials along with their properties in mechanical construction.

BHC503 B (P)	Novel Inorganic Solids Lab	• Students will gain an understanding of top down and bottom up methods of nanomaterials preparation. • Knowledge of tools behind nanomaterials characterization. • Approaches to the development of chemical and biological sensors based on plasmonics, spintronics, nano porosity and issues related to their translation from the research laboratory to the clinic applications.
BHC 504 A	Statistical Thermodynamics	On the completion of this course, the students will be able to • Give an account on the macroscopic and microscopic description of entropy and free energy in terms of thermodynamic probability. • Give an account on the theory of statistical mechanics to construct the microscopic models for gases and crystals. • Describe transport phenomenon.
BHC 504 A (P)	Physical Chemistry Lab	After the completion of this course, the students will be able to • Find out reaction rates and the various factors affecting the reaction rates. • Find out the molar refractivity, density and coefficient of expansion etc.
BHC 504 B	Research Methodology	● Students will learn to demonstrate knowledge of research processes (reading, evaluating and developing). ● Students will be able to identify, explain, compare and prepare the key elements of a research proposal. ● Students will develop the skills to Compare and contrast quantitative and qualitative research paradigms. ● Students can describe sampling methods, measurement scales and instruments and appropriate uses of each.

BHC 601	Inorganic Chemistry- IV	After the completion of this course, students will be able to: • Explain and rationalize the inorganic reaction mechanisms of square planar and octahedral complexes. • Knowledge about organometallic chemistry, knows the classes of ligand, metal carbonyl compounds and metal clusters. • Explain and rationalize industrially important catalytic processes through the application of organometallic principles.
BHC601(P)	Inorganic Chemistry- IV Lab	The students will be able to: • Apply this knowledge for qualitative analysis of mixtures of acid/basic radicals by Semi micro method. • Understand and Operate the UV-Visible spectrophotometer for metal-ligand complexation study.
BHC 602	Organic Chemistry-V	After the completion of this course, students will be able to: • Understand the basic principles of the following spectroscopic techniques: UV/Vis, IR and proton NMR spectroscopy. • Explain how the above-named techniques can be used to distinguish between and / or identify simple organic compounds. • Solve problems concerning the elucidation of the structure of simple organic compounds.
BHC602(P)	Organic Chemistry-V Lab	The students will be able to: • Gain the skill to prepare organic compounds using greener protocols. Prepare organic compounds via two step synthetic sequences.

BHC 603(A)	Polymer Chemistry	After the completion of this course students will be able to: • Indicate how the properties of polymeric materials can be exploited by a product designer. • Identify the repeat units of particular polymers and specify the isomeric structures which can exist for those repeat units. • Estimate the number- and weight-average molecular masses of polymer samples given the degree of polymerisation and mass fraction of chains present.
BHC 603(A)(P)	Polymer Chemistry Lab	After the completion of this course students will be able to: • To Know the methods of preparation of different polymers. • Indicate how the properties of polymeric materials can be exploited by a product designer. • Estimate the number- and weight-average molecular masses of polymer samples given the degree of polymerisation and mass fraction of chains present.
BHC 603(B)	Advanced Inorganic Chemistry	After the completion of this course students will be able to: • Apply The concepts of symmetry and group theory in solving chemical structure problems. • Understand the concept of Spin-orbital coupling in p^n and d^n configurations and calculate the term symbol. • Analyse the electronic spectra and also understand the magnetic behaviour using Gouy's methods of determining magnetic susceptibility of transition metal complexes.

BHC 603(B)(P)	Adavanced Inorganic Chemistry Lab	• To be able to synthesize and analyse the co-ordination complexes and its bonding. • The students will be able to use the chromatographic methods for separation of anionsand cations.
BHC 604(A)	Analytical Methods in Chemistry	After the completion of this course, students will be able to: 4. Understand the fundamental laws and selection rulesof spectroscopy including UV-Visible, Infrared and atomic absorption spectroscopy. 5. learn the experimental skills on thermal and electroanalytical methods for different applications. 6. Develop an understanding of the role of the chemist in measurement and problem solving in chemical analysis. Understand and skills in advanced methods of separation and analysis.
BHC 604(A)(P)	Analytical Methods in Chemistry Lab	After the completion of this course students will be able to: 7. To develop an understanding of the role of the chemist in measurement and problem solving in chemical analysis. 8. To have work experience of handling Spectro-photometric analysis **9.** To provide an understanding of and skillsin advanced methods of separation and analysis.
BHC 604(B)	Solid State And Radiation Chemistry	On the completion of this course, the students will be able to • Describe the specific crystal structures by applying basic crystallographic concepts • Give an account of generation of X-ray radiation and its effects on matter. • To characterize the structure parameter and relate the diffraction intensities mathematically. • Understand the basic concepts of laser

		and maser.
BHC604(B)(P)	Physical Chemistry Lab	On the completion of this course, the students will be able to • Construction of the phase diagrams in three component system. • Acquaint knowledge and handling of conductometer and spectrophotometer. • Understand and develop skills in methods of separation and analysis.

The Program Specific Outcomes and Course Outcomes of all the Programmes

Program Name: B.Sc Non Medical/CSM Computer Science (2018-19)

Learning Objectives:

- Become employable in various IT companies and government jobs.
- Possess strong foundation for their higher studies in the fields of Computer Applications.
- Develop practical skills to provide solutions to industry, society and business.
- Apply technical and professional skills to excel in business.

Programme Specific Outcome:

1. Focuses on preparing student for roles pertaining to computer applications and IT industry.

2. Develop programming skills, networking skills, learn applications, packages, programming languages and modern techniques of IT.

3. The focus is more on imparting and emphasizing hands-on practical expertise rather than going for more inclination towards theoretical aspects.

Course Outcome:

Course Code	Course	Course Outcome
BCC(CP)-102	**Computer Fundamental**	1. To understand the basics of computer system, its architectureNetworks. 2. To understand the basic concepts, terminology of IT and familiar with the use of IT tools.

		3. To Learn and explore new IT techniques in various applications and to identify the issues related to security. 4. To learn basic of word processing ,spreadsheet and presentation. 5. To be able to access the Internet, and internet application
BCC(CP)-202	**Computer Programming using C**	1. Learn how to draw flowcharts and write algorithm/pseudocode. 2. Learn, how to compile and debug programs in C language, use different data types, operators and console I/O function in a computer program. 3. Design programs involving decision control statements, loop control statements, case control structures, arrays, strings, pointers, functions and implement the dynamics of memory by the use of pointers
BCC(CP)-302	**Data Structure**	1. Implement the basic data structures and solve problems using fundamental algorithms. 2. Implement various search and sorting techniques. 3. Find the complexity of algorithms, to provide justification for that selection, and to implement the algorithm in a particular context. 4.To understand the abstract data types stack, queue, deque, and list.To understand prefix, infix, and postfix expression formats

BCC(CP)-402	**Database Management systems**	1. To understand the different issues involved in the design and implementation of a database system. 2. To study the physical and logical database designs, database modeling, relational, hierarchical, and network models. 3. Analyze Database design using E-R data model by identifying entities, attributes, relationships, generalization and specialization along with relational algebra. 4. Use data manipulation language to query, update, and manage a database the given real world problem 5. Use of SQL and PL/SQL to implementation database applications with usage of DDL aspect of SQL, DML aspect of SQL.
BSCSM (DSE-1)	**Operating System**:	1. Explain basic operating system concepts such as overall architecture, interrupts, APIs, user mode and kernel mode. 2. Distinguish concepts related to concurrency including, synchronization primitives, race conditions, critical sections and multi-threading. segmentation, virtual memory, and thrashing. 5. Understand concepts such as file systems, security, protection, virtualization and device-management, disk-scheduling algorithms and various file systems. 6. Use basic Linux commands and shell programming. 3. Learn and apply CPU scheduling algorithms, deadlock detection and prevention algorithms. 4. Examine and categorise various memory

		management techniques like caching, paging,
BSCSM (DSE-2)	**Software Engineering:**	1. Analyze software development process models, including agile models and traditional models like waterfall. 2. Demonstrate the use of software life cycle through requirements gathering, choice of process model and design model. 3. Use various UML Models for software analysis, design and testing. 4. Acquire knowledge about the concepts of application of formal specification, CASE tools and configuration management for software development. 5. Analysis of software estimation techniques for creating project baselines.
BSCSM (SEC – 1)	**Web Designing:**	1. Implement interactive web page(s) using HTML, CSS and JavaScript. 2. Design a responsive web site using HTML5 and CSS3. 3. Demonstrate Rich Internet Application.
BSCSM(SEC – 2)	**PHP Programming**:	1.Test and debug a PHP application,Use cookies and sessions,Work with regular expressions, handle exceptions and validate data. 2. Build Dynamic web site using server side PHP Programming and Database connectivity. 3. Describe and differentiate different Web Extensions and Web Services. 4. Demonstrate web application using

		PHP.
BSCSM(SEC – 3)	**Object Oriented Programming using C++**	1. Be able to understand the difference between object oriented programming and procedural oriented language and data types in C++. 2. Be able to program using C++ features such as composition of objects, Operator overloading, inheritance, Polymorphism etc.
BSCSM (SEC – 4)	**Visual Programming:**	1. Demonstrate knowledge of programming terminology and how applied using Visual Basic (e.g., variables, selection statements, repetition statements, etc.) 2. Develop a Graphical User Interface (GUI) based on problem description 3. Develop programs that retrieve input from a file as opposed to input only provided by user

The Program Specific Outcomes and Course Outcomes of all the Programmes

Program Name: BA-Information Technology (2018-19)

Learning Objectives:

- Develop practical skills to provide solutions to industry, society and business.
- Possess strong foundation for their higher studies in the fields of Information technology.
- Become employable in various IT companies and government jobs.
- Apply technical and professional skills to excel in business.

Programme Specific Outcome:

1. The focus is more on imparting and emphasizing hands-on practical expertise rather than going for more inclination towards theoretical aspects.

2. Focuses on preparing student for roles pertaining to Information technology.

3. Develop programming skills, learn applications, packages andweb designing.

Course Outcome:

Course Code	Course	Course Outcome
BA-1	**Computer Fundamental:**	1. To understand the basics of computer system, its architectureNetworks. 2. To understand the basic concepts, terminology of IT and familiar with the use of IT tools. 3. To Learn and explore new IT techniques in various applications and to identify the issues related to security. 4. To learn basic of word processing ,spreadsheet and presentation. 5. To be able to access the Internet, and internet application
BA**-2:**	**Computer Programming using C**:	1. Learn how to draw flowcharts and write algorithm/pseudocode. 2. Learn, how to compile and debug programs in C language, use different data types, operators and console I/O function in a computer program. 3. Design programs involving decision control statements, loop control statements, case control structures, arrays, strings, pointers, functions and implement the dynamics of memory by the use of pointers

BA-**3:**	**Web Designing:**	1. Implement interactive web page(s) using HTML, CSS and JavaScript. 2. Design a responsive web site using HTML5 and CSS3. 3. Demonstrate Rich Internet Application.
BA-**4:**	**Database Management systems**	1. To understand the different issues involved in the design and implementation of a database system. 2. To study the physical and logical database designs, database modeling, relational, hierarchical, and network models. 3. Analyze Database design using E-R data model by identifying entities, attributes, relationships, generalization and specialization along with relational algebra. 4. Use data manipulation language to query, update, and manage a database the given real world problem 5. Use of SQL and PL/SQL to implementation database applications with usage of DDL aspect of SQL, DML aspect of SQL..
BA-**5**	**Object Oriented Programming using C++**	1. Be able to understand the difference between object oriented programming and procedural oriented language and data types in C++. 2. Be able to program using C++ features such as composition of objects, Operator overloading, inheritance, Polymorphism etc.

BA-**6**	**PHP Programming**:	1.Test and debug a PHP application,Use cookies and sessions,Work with regular expressions, handle exceptions and validate data. 2. Build Dynamic web site using server side PHP Programming and Database connectivity. 3. Describe and differentiate different Web Extensions and Web Services. 4. Demonstrate web application using PHP.

The Program Specific Outcomes and Course Outcomes

Program Name: Bachelor of Computer Application (BCA)(2018-19)

Learning Objectives:

- Have an understanding of the style of a number of major programming languages and paradigms.
- Develop an understanding of a basic computer model and the basic theory required for computer science.
- Develop an understanding and practice of more advanced computing topics, including databases, concurrent programming, artificial intelligence and distributed systems.

Programme Specific Outcome:

BCA programme has been designed to prepare graduates for attaining the following specific outcomes:

1: Focuses on preparing student for roles pertaining to computer applications and IT industry.

2: Start from the basics and in every semester learns each and everything about computers.

3: Develop programming skills, networking skills, learn applications, packages, programming languages and modern techniques of IT

4: Get skill and info not only about computer and information technology but also in common, organization and management

5: Learn programming language such as Java, C++, HTML, SQL, etc…

6: An ability to apply knowledge of mathematics, computer science and management in practice.

7: An ability to enhance not only comprehensive understanding of the theory but its application too in diverse field.

8: The program prepares the young professional for a range of computer applications, computer organization, techniques of computer networking, software engineering-E- Commerce, Web Designing and JAVA.

9: Bachelor in computer applications (BCA) gives a number of opportunities to individuals to go ahead and shine in their lives.

Course Outcome:

Course Code	Course	Course Outcome
	Semester- I	
BCA-101 E1	Workshop on Corel Draw	1. Acquire practical proficiency in digital creativity. 2. Learn how to use all program features for implementation of their own ideas and projects and for poster presentation of various semester projects
BCA-101 E2	Workshop on Operating System (Linux)	1. Learn the Linux computing environment. 2. Get experience in using command-line utilities to navigate the file system, manage files and directories, and carry out basic file processing tasks.
BCA-102	Communication Skills- I (Foundation Course)	1. Develop and delivereffective communication. 2. Write letters, applications, resume, notes etc. using Microsoft Word

		editor.
BCA-103	Punjabi Compulsory /Punjabi(Mudhla Gyan)	1. Understand elementary structure of Punjabi Language. 2. Emphasize on speaking and reading skills in Punjabi.
BCA-104	Fundamentals of Information Technology	1. Convert between different number systems and describe some different codes. 2. Understand the basics of computer , its organization, Input/Output devices etc.
BCA-105	Web Designing using HTML and DHTML	1. Understand the basic elements of web page development. 2.Gain good knowledge of what a Web site is, including the latest developments in the field and learn the method of creating a functional Web site
BCA-106	Software Lab- I (OSCLI, OFFICE)	1. Facilitate and learn to use open source software. 2. Get hands on practice on libre / open office that facilitates them to create documents, spreadsheet and effective presentations.
BCA-107	Software Lab- II (Based on BCA-105)	Implement the basic elements of web page development. 2. Create a Web site using the latest developments in the field and creating a functional Web site .

	Semester- II	
BCA-201 E1	Workshop on Adobe Photoshop	1.Explore the best practices of learning with digital media. 2. Integrate creativity and digital media into a curriculum plan for the classroom.
BCA-201 E2	Workshop on Networking & Hardware	1. Introduce the concept of Computer Hardware. 2. Discuss the Input and Output Devices and describe network system.
BCA-202 F1	Workshop on Communication Skills- II	1. Demonstrate critical and innovative thinking. 2. Display competence in oral, written, and visual communication.
BCA-202 F2	Workshop on Accounting	Students will be able to demonstrate knowledge of preparation of Financial Statements and or financial schedules in accordance with Generally Accepted Accounting Principles through analysis and synthesis of information as well.
BCA-203	Punjabi Compulsory/ Punjabi (Mudhla Gyan)	1.Understand elementary structure of Punjabi Language. 2.Emphasize on speaking and reading skills in Punjabi.
BCA-204	Programming Fundamentals using C	1. Enable the students to solve the problems using programming technique and to implement these programming techniques to create software. 2. Enable the students to analyze the real life problems and write a program in C

		language to solve the problem.
BCA-205	Database Management System	1. Provide basic introduction to database system technologies. 2. Form the basic conceptual background necessary to design and develop simple database systems.
BCA-206	Software Lab- III (Based on Paper BCA-204)	1. Supplement what is learnt under paper BCA-204: Programming in C. 2. Implement programs in C.
BCA-207	Software Lab- IV (Based on Paper BCA-205)	1. Implement the concepts of creating tables and fetching the data using queries. 2. Understand the concepts of keys. 3. Understand Feature, Designing Database, Relationship (One to One, One to Many, Many to One, Many to Many)
	Semester- III	
BCA-301 E1	Linux Administration	1. Familiarize Students with Linux environment. 2. Learn the fundamentals of Shell Scripting programming and Control the resources with various commands.
BCA-301 E2	Multimedia	1. Provide the basic understanding of multimedia systems 2. Demonstrate the use of animation, digitized sound, video control, and scanned images

		3. Describe and understand the technical details of JPEG and MPEG families.
BCA-302 F1	Computer Networks	1. Build an understanding of the fundamental concepts of computer networking 2. Familiarize the basic terminology of computer networking area. 3. Introduce the advanced networking concepts.
BCA-302 F2	E-Commerce	1. Acquire general understanding of basic business management concepts. 2. Describe Internet trading relationship. 3. Discuss legal issues and privacy.
BCA-303	Punjabi Compulsory/ Punjabi (Mudhla Gyan)	1. Understand elementary structure of Punjabi Language. 2. Emphasize on speaking and reading skills in Punjabi.
BCA-304	Programming using C++	1. Understand how C++ improves C with object-oriented features. 2. Learn the syntax and semantics of the C++ programming language
BCA-305	Data Structure	1. Have a comprehensive knowledge of the data structures and algorithms on which file structures and data bases are based. 2. Understand the writing algorithms and step by step approach in solving problems with the help of fundamental data structures.

BCA-306	Software Lab- V (Based on Paper BCA-304)	1. To learn how to design C++ classes for code reuse. 2. To learn how to implement copy constructors and class member functions. 3. To learn how inheritance and virtual functions implement dynamic binding with polymorphism.
BCA-307	Software Lab- VI (Based on Paper BCA-305)	1. To develop skills to design programs for linear and non linear *data structures*. 2. To Strengthen the ability to identify and apply the suitable *data structure* for the given real world problem. 3. To understanding about writing algorithms and step by step approach in solving problems with the help of fundamental data structures.
	Semester- IV	
BCA-401 E1	Digital Electronics	1. Introduce fundamental concepts underlying the digital electronics. 2. Familiarize students the Number System, Boolean Algebra, logic Gates, design, basic structure and behaviour of the various functional modules of the computer.

BCA-401 E2	Microprocessors	1. Introduce the basic concepts of microprocessor 2. Introduce 8085 architecture and programming in assembly language. 3. Introduce basic concepts of interfacing memory and peripheral devices to a microprocessor.
BCA-402 F1	Mathematics	1. Provide the knowledge of Ma trice solving, Set Theory and methods to solve series of numbers. 2. Learn series operations. 3. Learn various Trigonometric functions.
BCA-402 F2	Statistical Methods	1. To understand the basic principles of Statistical inference. 2. To learn the language and core concepts of the statistical theory.
BCA-403	Punjabi Compulsory/ Punjabi (Mudhla Gyan)	1. Understand elementary structure of Punjabi Language. 2. Emphasize on speaking and reading skills in Punjabi.
BCA-404	Programming in JAVA	1. Understand fundamentals of programming such as variables, conditional and iterative execution, methods, etc. 2. Understand fundamentals of object-oriented programming in Java. 3. Define classes, invoking methods, using class libraries etc
BCA-405	Environmental Studies	1. Creating the awareness about environmental problems among people. 2. Imparting basic knowledge about the environment and its allied

		problems. 3. Developing an attitude of concern for the environment.
BCA-406	Quantitative and Logical Aptitude	1. Apply Logical reasoning and mathematical analysis methodologies to understand and solve problems. **2.** Enhance the skills of computations and aptitude.
BCA-407-	BCA-407- Software Lab- VII (Based on BCA-404)	1. To have the ability to write a computer program to solve specified problems. 2. To implemented concepts of object-oriented programming in Java. 3. To be able to use the Java SDK environment to create, debug and run simple Java programs.
	Semester- V	
BCA-501 E1	Corel Draw	1. Acquire practical proficiency in digital creativity. 2. Learn how to use all program features for implementation of their own ideas and projects.
BCA-501 E2	Operating System	1. Learn the fundamentals of Operating Systems. 2. Learn the mechanisms involved in memory management in contemporary OS.

BCA-502	*Foundation Course	
BCA-502 F1	Multimedia	1. To provide students with a basic understanding of multimedia systems 2. To demonstrate the use of animation, digitized sound, video control, and scanned images 3. Describe and understand the technical details of JPEG and MPEG families.
BCA-502 F2	System Software	1. Distinguish between Operating Systems software and Application Systems software. 2. To learn context free grammars, compiler parsing techniques. 3. To understand the theory and practice of compiler implementation.
BCA-503	Punjabi Compulsory/ Punjabi (Mudhla Gyan)	1. Emphasize on speaking and reading skills in Punjabi and Understand elementary structure of Punjabi Language.
BCA-504-	Software Engineering	1. Get Knowledge of basic Software engineering methods and practices and their appropriate application. 2. Describe software engineering layered technology and Process frame work. 3. A general understanding of software process models such as the waterfall and evolutionary models.

BCA-505	Web Designing using ASP .NET	1. Provide students with the tools and techniques to build dynamic Web sites using the ASP.Net programming environment. 2. Develop a data driven web application. 3. Understand the fundamentals of developing modular application by using object oriented methodologies.
BCA-506	Software Lab- VIII (Linux Administration)	1. Learn the Linux computing environment. 2. Get experience in using command-line utilities to navigate the file system, manage files and directories, and carry out basic file processing tasks.
BCA-507	Software Lab- IX (Based on Paper BCA-505)	1. Design web applications using ASP.NET 2. Use ASP.NET controls in web applications. 3. Debug and deploy ASP.NET web applications
	Semester- VI	
BCA-601 E1	Writing Skills and Personality Development	1. Meet the specific needs of our clients depending on their personal/organizational requirements. 2. Encourage the students to build up their writing skills. 3. Enhance the personality skills.

BCA-601 E2	System Analysis & Design	1. Introduce the overview of System Analysis & design. 2. Clear various business system concepts 3. Study the various system models.
BCA-602 F1	Computer Graphics	1. Introduce students to all aspects of computer graphics including hardware, software and applications. 2. Help students to apply graphics programming techniques to design, and create computer graphics.
BCA-602 F2	Relational Database Management System	1. Understand basic database concepts, including the structure and operation of the relational data model. 2. Construct simple and moderately advanced database queries using Structured Query Language (SQL). 3. Prepares the student to be in a position to use and design databases for different applications.
BCA-603	Punjabi Compulsory/ Punjabi (Mudhla Gyan)	1. Understand elementary structure of Punjabi Language. 2. Emphasize on speaking and reading skills in Punjabi.
BCA-604	Web Development using PHP	1. Gain the PHP Programming skills needed to successfully build interactive, data driven sites. 2. Test and debug a PHP application
BCA-605	Project	1. Introduce the skills of dissertation writing. 2. Provides a concrete description of the project's effect at the outcome level.

		3. Develop in a participatory process.
BCA-606	Software Lab X (Based on Found. Course)	1. Perform and implement the practical exercises to supplement what is learnt under paper BCA 602 F2.
BCA-607	Software Lab XI (Based on BCA-604)	1. Test and debug a PHP application 2. Use cookies and sessions 3. Work with regular expressions, handle exceptions and validate data.

The Program Specific Outcomes and Course Outcomes of all the Programmes

Program Name: Bachelor of Vocational (Software Development) (BV(SD))(2018-19)

Learning Objectives:

The University Grants Commission (UGC) has launched a scheme on skills development based higher education as part of college/university education, leading to Bachelor of Vocation (B.Voc.).Upon graduation, students will be able to:

- Become employable in various IT companies and government jobs.
- Possess strong foundation for their higher studies in the fields of Information Technology and Computer Applications
- Develop practical skills to provide solutions to industry, society and business.
- Apply technical and professional skills to excel in business.
- Aims at imparting practical and industry relevant skill in the domain of computer science and software development.
- This would enable the graduates to make a meaningful participation in accelerating India's economy by gaining appropriate employment, becoming entrepreneurs and creating appropriate knowledge.

Programme Specific Outcome:

- The program prepares the young professional for a range of computer applications, computer organization, techniques of computer networking, software engineering-Commerce, Web Designing, Big Data, IOT, Python and Advance JAVA.
- In order to enhance programming skills of the young IT professionals, the program has introduced the concept of project development in each language/technology learnt duringsemester.
- To produce employable IT workforce, that will have sound knowledge of IT and business fundamentals that can be applied to develop and customize solutions for Small and Medium Enterprises (SME)
- In order to enhance programming skills of the young IT professionals, the program has introduced the concept of project development in each language/technology learnt duringsemester.
- The focus is more on imparting and emphasizing hands-on practical expertise rather than going for more inclination towards theoretical aspects.

Course Outcome:

Course Code	Course	Course Outcome
	Semester- I	
BVSD-101	- Elective-I	
BVSD-101 E1	- Digital Creativity using Adobe Photoshop	1) Explore best practices for teaching and learning with digital media. 2) Integrate creativity and digital media into a curriculum plan for the classroom.

BVSD-101 E2-	Page Maker	1) To provide basic skills in page maker. 2) By the end of the course students will be capable to edit and create pages using features and tools of page maker
BVSD-102	- Punjabi Compulsory/ Punjabi(Mudhla Gyan)	The main purpose of this course is to equip the students with the nuances of the Punjabi language which includes proficiency in grammar and its effective usage in speaking and writing
BVSD-103	- Fundamentals of Computer	1) This course offers a good understanding of the various functional units of a computer system. 2) The students are also exposed to the recent trends in information technology.
BVSD-104	- Programming Fundamentals	1) To enable the students to solve the problems using programming technique and to implement these programming techniques to create software. 2) This course will enable the students to analyze the real life problems and write a program in C language to solve the problem. The main emphasis of the course will be on problem solving aspect.
BVSD-105	- Foundation- I	

BVSD-105 F1	- Communication Skills- I	1)Increased understanding of the meaning of communication and its importance in all spheres of life 2)Better understanding of the importance of spoken communication and how to become a good speaker in group as well as individually; improving interpersonal communication. Increased attention span as a listener.
BVSD-106	- Software Lab- I(Open Office)	1) To facilitate the students to use open source software. 2) To give hands on practice on libre / open office.
BVSD-107-	Software Lab- II(Based on BVSD-104)	1) To enable the students to solve the problems using programming technique and to implement these programming techniques to create software. 2) To provide the students hands on experience of "C' programming and to enhance their logical skills.
	Semester- II	
BVSD-201	- Elective- II (GE)	

BVSD-201 E1	- E-Commerce	1) Understand the value chain including the information, negotiation, and processing phase of electronic business transactions 2) Know the characteristics of customer relationship management and online marketing
BVSD-201 E2	- System Analysis & Design	1) The course has been designed to provide a solid foundation of systems principles 2) To provide understanding of how business function, while heightening students to the issues the analysts face daily.
BVSD-202	- Foudation- II (AECC)	
BVSD-202 F1	-Workshop on Commuication Skills-II	1) To provide employability skills 2) To know the process of Interview Techniques and Group discussion. 3) To understand the needs and benefits of written communication.
BVSD-202 F2	Workshop on Corel Draw	1) The objective of the course is to provide basic skills in CorelDraw. 2) By the end of the course a student will be capable to edit images and create documents using the features and tools available in Photoshop and Corel Draw.

BVSD-203	Data Base Management System	1) To provide basic introduction to database system technologies. 2) To form the basic conceptual background necessary to design and develop simple database systems.
BVSD-204-	Operating System	1) To introduce students with basic concepts of Operating System, its functions and services. 2) To familiarize the students with various views and management policies adopted by O.S. as pertaining with processes , Deadlock , memory , File and I/O operations
BVSD-205-	Programming using C++	1) To learn advanced features of the C++ programming language as a continuation of the previous course. 2)To learn the characteristics of an object-oriented programming language: data abstraction and information hiding, inheritance, and dynamic binding of the messages to the methods.
BVSD-206-	Software Lab- III (Based on Paper BVSD-203)	1) This lab provides a strong formal foundation in database concepts, technology and practice. 2) To present the concepts and techniques relating to query processing by SQL engines.

BVSD-207-	Software Lab- IV (Based on Paper BVSD-205)	1) To learn advanced features of the C++ programming language as a continuation of the previous course. 2) To learn the characteristics of an object-oriented programming language: data abstraction and information hiding, inheritance, and dynamic binding of the messages to the methods.
	Semester- III	
BVSD-301-	Elective- III (AECC)	
BVSD-301 E1	- Software Engineering	1) This course introduces the concepts and methods required for the construction of large software intensive systems. 2) Prepares students to be in a position to develop error free and quality software. 3) It aims to develop a broad understanding

		of the discipline of software engineering.
BVSD-301 E2	- Management Information System	1) This course helps to evaluate the role of the major types of information systems in a business environment and their relationship to each other; 2) It offers a good understanding of the concepts and methods of decision making. 3) Identify the major management challenges to building and using information systems and learn how to find appropriate solutions to those challenges;
BVSD-302-	Foudation- III (GE)	
BVSD-302 F1	- Commuication Skills-III	1) To provide employability skills 2) To know the process of Interview Techniques & Group discussion. 3) To understand the needs and benefits of written communication.
BVSD-302 F2-	Fundamentals of Hardware & Networking	1) This course offers a good understanding of the fundamentals of Computer and Organization of Hardware and Software. 2) Preparing students to know how to troubleshoot Computer and Networks.

		3) To clear Compressing and Encrypting File concepts.
BVSD-303	- Web Designing using HTML & DHTL	1) To develop the skill & knowledge of Web page design. 2) To understand the basics of creating dynamic web pages.
BVSD-304-	Environment Studies	Upon successful completion of the course, students should be able to: 1) Propose solutions to environmental problems related to resource use and management 2) Interpret the results of scientific studies of environmental problems 3) Describe threats to global biodiversity, their implications and potential solutions
BVSD-305	- Data Structure	1) This course provides the students with concept of the fundamentals of different types of data structures and also the ways to implement them. 2) To introduce various techniques for representation of the data in the real world. 3) To develop application using data structures. 4) To teach the concept of protection and management of data.

BVSD-306	- Quantitative & Logical Aptitude	1) This course provide the students with an understanding of deductive and inductive reasoning 2) To make students understand both Verbal and Non Verbal Reasoning. 3) To practise various quantitative aptitude question.
BVSD-307	- Software Lab- I (Based on BVSD-303)	1) To develop the skill & knowledge of Website design. 2) To understand the basics of creating dynamic web pages.
BVSD-308-	Software Lab- II (Based on BVSD-305)	1) This course provide the students with concept of the fundamentals of different types of data structures and also the ways to implement them. 2) To introduce various techniques for representation of the data in the real world. 3) To develop application using data structures. 4) To teach the concept of protection and management of data.
	Semester- IV	

BVSD-401	- Elective- IV (AECC)	
BVSD-401 E1	- Computer Networks	1) This course provides knowledge about computer network related hardware and software using a layered architecture. 2) Understand state-of-the-art in network protocols, architectures, and applications 3) To understand the functioning of different Layers of OSI and TCP/IP model.
BVSD-401 E2-	System Software	1)To have an understanding of the functionality of different types of system software. 2) To understand the basics of software tools.
BVSD-402	- Foudation- IV (GE)	
BVSD-402 F1-	Commuication Skills-IV	1) To provide employability skills 2) To know the process of Interview Techniques & Group discussion. 3) To understand the needs and benefits of written communication.

BVSD-402 F2	- Content Management System	1) This course is designed to give students a practical knowledge about the web content management environments. 2) The course will introduce the student both to the applied aspects of content management technologies but also to the theoretical issues involved. 3) Students will get knowledge of various CMS tools.
BVSD-403-	Software Testing-Concepts and Tools	1) Understand the fundamental concepts and theory of Software testing and Software Quality Management 2) To describe strategies for generating system test cases. 3) To understand the essential characteristics of tools used for test automation
BVSD-404	- Mathematics	1) Apply knowledge of computing and mathematics appropriate to the discipline. 2) Analyze a problem and identify and define the computing requirements to solution. 3)Understand some aspects of computer programming. 4) Understand the concepts of algorithms.

BVSD-405-	Programming With Java	1) This course will teach the basic concepts and techniques which form the object oriented programming paradigm. 2) Prepare students to be in a position to write object oriented programs using Java. 3) To build an application using user Interface Components, JDBC.
BVSD-406-	Software Lab- VII (Based on BVSD-403)	1) This course will enable students to prepare Test Plan and Test cases. 2) Students will learn various testing techniques 3)Understand the working of various Automated Testing Software
BVSD-407-	Software Lab- VIII (Based on BVSD-405)	1) This course will teach the implementation of basic concepts and techniques which form the object oriented programming paradigm. 2) Prepare students to be in a position to write object oriented programs using Java. 3) To build an application using user Interface Components, JDBC.
	Semester- V	

BVSD-501-	Elective- V	
BVSD-501 E1-	Relational Database Management System	1) To understand basic database concepts, including the structure and operation of the relational data model. 2) To construct simple and moderately advanced database queries using Structured Query Language (SQL). 3) It prepares the student to be in a position to use and design databases for different applications.
BVSD-501 E2	- CSA	1) The course is intended to give students a good understanding of internal architectural details. 2) To provide essential understanding of different subsystems of modern computer system and design aspects these subsystems.
BVSD-502-	Foudation- V	
BVSD-502 F1	- Personality Development	1) Students learnt the latest trends in business letter writing , resume ad report writing. 2) Learnt the unique characteristics of organizational communication and the

		various directional networks. 3) Appreciation and analysis of the role of literature in our lives through discussion of prescribed novel and short stories. The values were also reinforced.
BVSD-502 F2	- Oracle	1) This practical will enable students to retrieve data from relational databases using SQL. 2) Students will also learn about triggers, cursors, stored procedures etc.
BVSD-503	- Software Testing-Concepts and Tools	1) Understand the fundamental concepts and theory of Software testing and Software Quality Management 2) To describe strategies for generating system test cases. 3) To understand the essential characteristics of tools used for test automation
BVSD-504	- Computer Grapics	1) This course will introduce students to all aspects of computer graphics including hardware, software and applications. 2) It will help students to apply graphics programming techniques to design, and create computer graphics.

BVSD-505	- Web Development using ASP .NET	1) This course will offer a detailed knowledge of web site development using .NET technology. 2) Creating interactive applications using various controls. 3) Develop a data driven web application. 4) Connecting to data sources and managing them
BVSD-506	- Software Lab- IX (Based on BVSD-503)	1) Understand how server-side programming works on the web. 2) Creating conditional structures 3) Storing data in arrays
BVSD-507-	Software Lab- X (Based on BVSD-505)	1) Set up a programming environment for ASP.net programs. 2) Configure an asp.net application. 3) Creating ASP.Net applications using standard .net controls. 4) Develop a data driven web application. 5) Connecting to data sources and managing them
	Semester- VI	

BVSD-601	- Project (6- Month Industrial Training)	1) To master the art of working in group, and develop understanding of technical dissertation presentation and writing. 2) To improve technical knowledge and state-of-the art practice related to the real-world problems.

The Program Specific Outcomes and Course Outcomes of all the Programmes

Program Name: Master of Science -Information Techonology (M.Sc(IT))(2018-19)

Learning Objectives:

Knowledge and Understanding of:

- Major paradigms of programming - declarative, imperative and object oriented;
- Basic Computer Science, including Object Oriented Design, Databases, Communication and Networks, Architecture, Operating Systems and Logic;
- Practical programming skills;
- The detail and essential topics relevant to the students' chosen option and project areas;
- Communication skills, including project design, teamwork, written and oral reports and presentations and literature search, both web-based and hard copy;
- A broad awareness of the subject of computer science.

Intellectual Skills:

- Analyse and formally specify computing and programming problems of varying types;
- Match problems to tools and techniques most suitable for solving them;

 Have an understanding of the style of a number of major programming languages and paradigms; Develop an understanding of a basic computer model and the basic theory required for computer science;

 Develop an understanding and practice of more advanced computing topics, including databases, concurrent programming, artificial intelligence and distributed systems;

 Plan, conduct and write-up a programme of software development conducted in a team;

 Plan, conduct and write-up a programme of original research and software development;

Practical Skills:

 Design and develop programs of varying levels of complexity using a number of different programming languages and paradigms, including logic and functional programming, imperative and object oriented programming; Page 3 of 8

 Use computing tools and techniques, such as database, web-based and graphic tools and techniques;

 Analyse computing and computing related problems and devise solutions to them;

 Give technical presentations;

 Prepare technical reports;

 Conduct detailed literature searches;

 Conduct in-depth research on tools and languages available on line;

Transferable Skills:

 Communicate effectively through oral presentations, computer presentations and written reports;

 Program in the major computer programming paradigms;

 Use the World Wide Web effectively;

 Integrate and evaluate information from multiple and diverse sources;

 Work within and contribute to a team, apply management skills such as coordination, project design and evaluation and decision processes as applied in software engineering;

 Manage resources and time;

- Transfer techniques and solutions from one area to another;
- Learn independently with open mindedness and critical enquiry;

Programme Specific Outcome:

This course provides intensive training in computer science, and is suitable for graduates of disciplines other than computing who are who are keen to acquire core computing skills or deepen their existing knowledge of computing. This course provides a year of intensive training in computer science, and is suitable for graduates of disciplines other than computing who are preparing for a career in the computer industry. Applicants who want to add computing qualifications or to retrain as computing or IT professionals are the natural target for this programme, and the course is also a suitable preparation for PhD studies. This MSc provides opportunities for postgraduate students to develop and demonstrate knowledge, understanding, and practical skills in basic and specialised topics in computing, as well as the qualities and skills needed for group co-operation and for literature search, technical presentation and report writing. You also have the chance to join in development of a large software project.

Course Outcome:

Course Code	Course	Course Outcome
	Semester- I	
MS 111	Fundamentals of Information Technology	To understand the basics of computer system, its architecture, number system and Networks. To understand the basic concepts, terminology of IT and familiar with the applications of Internet.

MS 112	Programming Fundamentals using C Language	The objective of this paper is to familiarize the students with the core concepts **o**f C Language and program development.To make the students aware of pointers, structure and file handling system using C Language.
MS 113-	Web Designing	Develop skills in analysing the usability of a web site.Learn the language of the web: HTML, CSS and scripting.
MS 114-	Programming Lab I (Based on MS 112)	To familiarize the students with C language environment.To implement various concepts related to C language.
MS 115-	Programming Lab II (Based on MS 113)	Develop skills in analysing the usability of a web site.Learn the language of the web: HTML, CSS and scripting.
MS 116 C1	- Workshop on Page Maker	The objective of the course is to provide basic skills in Page Maker.By the end of the course a student will be capable to edit and create documents using the features and tools available in Page Maker.
MS 116 C2	- Workshop on Corel Draw	The objective of the course is to provide basic skills in CorelDraw. By the end of the course a student will be capable to edit images and create documents using the features and tools available in Corel Draw.
	Semester- II	

MS 121	- Object Oriented Programming using C++	To understand the difference between object oriented programming and procedural oriented language and data types in C++.To make the students able to program using C++ features such as composition of objects, Operator overloading, inheritance, Polymorphism etc.
MS 122	- Visual Programming	The objective of this paper is to familiarize the students with concept of Visual programming Information Technology.
MS 123	- Database Management System	To describe data models and schemas in RDBMS To understand the features of database management systems and Relational database. To understand the functional dependencies and design of the database. To understand the concept of Transaction and Query processing.
MS 124-	Programming Lab III (Based on MS 121)	To familiarize the students with basics and object oriented concepts of C++ To implement various OO concepts related to language.
MS 125	- Programming Lab IV (Based on MS 122)	Understand the needs of database processing and learn techniques for controlling the consequences of concurrent data access.
MS 126 C1-	System Analysis & Design	The objective of this paper is to familiarize the students with current System Analysis & Design tools used in various fields

MS 126 C2	- Principles & Practices of Management	The objective of the course is to teach managerial skills to aspiring manager or the trained managers who want to become more effective. The subject also emphasis on conceptual and technical frameworks of leadership and the role of communication.
	Semester- III	
MS 231	MS 231- Computer Networks	The objective of this paper is to familiarize the students with concept of various Networking Techniques.
MS 232-	MS 232- Data Structure	The objective of this paper is to familiarize the students with concept of data & file structures in Information Technology.
MS 233-	MS 233- Operating System	This paper is to familiarize the students with concept of Operating Systems in Information Technology.
MS 234-	MS 234- Programming Lab V (Based on MS 232)	The objective of this paper is to familiarize the students with concept of data & file structures in Information Technology.
MS 235-	MS 235- Programming Lab VI (Based on Linux)	The objective of this paper is to familiarize the students with Basic Linux commands, Shell programming, Networking in Linux operating system.

MS 236-	MS 236- Choice Based Course (CBC- III)	
MS 236 C1	MS 236 C1- Management Information System	The objective of this paper is to familiarize the students with current Information tools used in various fields
MS236 C2	MS 236 C2- Computer Graphics	The objective of this paper is to familiarize the students with concept various techniques related to Computer Graphics
	Semester- IV	
MS 241-	MS 241- Software Engineering	The objective of this paper is to familiarize the students with importance of Software Life Cycle and Engineering.
MS 242-	MS 242- Web Development	The objective of this paper is to familiarize the students with concept of Web Development using PHP.
MS 243-	MS 243- Programming in JAVA	The objective of this paper is to familiarize the students with concept of Java Programming.
MS 244-	MS 244- Programming Lab VII (Minor Project based on MS 242)	The objective of this paper is to familiarize the students with concept of Web Development using PHP.

MS 245	MS 245- Programming Lab VIII (Based on MS 243)	The objective of this paper is to familiarize the students with concept of Java Programming.
MS 246 C1	MS 246 C1- Artificial Intelligence	The objective of this paper is to familiarize the students with Significance of Artificial Intelligence in Computer Science field.
MS 246 C2-	MS 246 C2- Software Testing	The objective of this paper is to familiarize the students with importance of Software Testing in Software Life Cycle and Engineering.

The Program Specific Outcomes and Course Outcomes of all the Programmes

Program Name: Master of Science -Information Technology (Lateral Entry) (M.Sc(IT-LE))(2018-19)

Learning Objectives:

Knowledge and Understanding of:

- Major paradigms of programming - declarative, imperative and object oriented;
- Basic Computer Science, including Object Oriented Design, Databases, Communication and Networks, Architecture, Operating Systems and Logic;
- Practical programming skills;
- The detail and essential topics relevant to the students' chosen option and project areas;
- Communication skills, including project design, teamwork, written and oral reports and presentations and literature search, both web-based and hard copy;
- A broad awareness of the subject of computer science.

Intellectual Skills:

- Analyse and formally specify computing and programming problems of varying types;
- Match problems to tools and techniques most suitable for solving them;

 Have an understanding of the style of a number of major programming languages and paradigms; Develop an understanding of a basic computer model and the basic theory required for computer science;

 Develop an understanding and practice of more advanced computing topics, including databases, concurrent programming, artificial intelligence and distributed systems;

 Plan, conduct and write-up a programme of software development conducted in a team;

 Plan, conduct and write-up a programme of original research and software development;

Practical Skills:

 Design and develop programs of varying levels of complexity using a number of different programming languages and paradigms, including logic and functional programming, imperative and object oriented programming; Page 3 of 8

 Use computing tools and techniques, such as database, web-based and graphic tools and techniques;

 Analyse computing and computing related problems and devise solutions to them;

 Give technical presentations;

 Prepare technical reports;

 Conduct detailed literature searches;

 Conduct in-depth research on tools and languages available on line;

Transferable Skills:

 Communicate effectively through oral presentations, computer presentations and written reports;

 Program in the major computer programming paradigms;

 Use the World Wide Web effectively;

 Integrate and evaluate information from multiple and diverse sources;

 Work within and contribute to a team, apply management skills such as coordination, project design and evaluation and decision processes as applied in software engineering;

 Manage resources and time;

- Transfer techniques and solutions from one area to another;
- Learn independently with open mindedness and critical enquiry;

Programme Specific Outcome:

This course provides intensive training in computer science, and is suitable for graduates of disciplines other than computing who are who are keen to acquire core computing skills or deepen their existing knowledge of computing. This course provides a year of intensive training in computer science, and is suitable for graduates of disciplines other than computing who are preparing for a career in the computer industry. Applicants who want to add computing qualifications or to retrain as computing or IT professionals are the natural target for this programme, and the course is also a suitable preparation for PhD studies. This MSc provides opportunities for postgraduate students to develop and demonstrate knowledge, understanding, and practical skills in basic and specialised topics in computing, as well as the qualities and skills needed for group co-operation and for literature search, technical presentation and report writing. You also have the chance to join in development of a large software project.

Course Outcome:

Course Code	Course	Course Outcome
	Semester- III	
MS 231	- Computer Networks	The objective of this paper is to familiarize the students with concept of various Networking Techniques.

MS 232-	Data Structure	The objective of this paper is to familiarize the students with concept of data & file structures in Information Technology.
MS 233-	Operating System	This paper is to familiarize the students with concept of Operating Systems in Information Technology.
MS 234-	Programming Lab V (Based on MS 232)	The objective of this paper is to familiarize the students with concept of data & file structures in Information Technology.
MS 235-	Programming Lab VI (Based on Linux)	The objective of this paper is to familiarize the students with Basic Linux commands, Shell programming, Networking in Linux operating system.
MS 236 C1	- Management Information System	The objective of this paper is to familiarize the students with current Information tools used in various fields
MS236 C2	- Computer Graphics	The objective of this paper is to familiarize the students with concept various techniques related to Computer Graphics
	Semester- IV	
MS 241-	Software Engineering	The objective of this paper is to familiarize the students with importance of Software Life Cycle and Engineering.

MS 242-	Web Development	The objective of this paper is to familiarize the students with concept of Web Development using PHP.
MS 243-	Programming in JAVA	The objective of this paper is to familiarize the students with concept of Java Programming.
MS 244-	Programming Lab VII (Minor Project based on MS 242)	The objective of this paper is to familiarize the students with concept of Web Development using PHP.
MS 245	- Programming Lab VIII (Based on MS 243)	The objective of this paper is to familiarize the students with concept of Java Programming.
MS 246 C1	- Artificial Intelligence	The objective of this paper is to familiarize the students with Significance of Artificial Intelligence in Computer Science field.
MS 246 C2-	Software Testing	The objective of this paper is to familiarize the students with importance of Software Testing in Software Life Cycle and Engineering.

The Program Specific Outcomes and Course Outcomes of all the Programmes

Program Name: Master of Computer Application (MCA)(2018-19)

Learning Objectives:

Master of Computer Applications (MCA) is a full-time four-semester course. The objective of MCA programme is to impart quality education in Computer Science and its applications, so that students are well prepared to face the challenges of the highly competitive IT industry. The

course structure ensures overall development of the student, while concentrating on imparting technical skills required for an IT profession.

Programme Specific Outcome:

PSO1:To produce knowledgeable and skilled human resources which are employable in IT industry.

PSO2:To cater to the challenging opportunities being faced in Information Technology.

PSO3:To analyze and identify the customer requirements in multidisciplinary domains, create high level design and implement robust software applications.

PSO4: To impart knowledge required for planning, designing and building Software Systems.

Course Outcome:

Course Code	Course	Course Outcome
MCA-111	Introduction to Information Technology	1.This course offers a good understanding of the various functional units of a computer system. 2.The students are also exposed to the recent trends in computing models.
MCA-112	Problem Solving & Programming in C	1.To enable the students to solve the problems using programming technique and to implement these programming techniques to create software. 2.This course will enable the students to analyse the real life problems and write a program in C language to solve the problem. The main emphasis of the course will be on problem solving aspect.
MCA-113	Computer Organization & Architecture	1.The objective of this course is to make the student understand the concept of programs as sequences of machine instructions.

		2.This course offers understanding the working of the control unit, memory and CPU. 3.After the completion of course, the students will be able to understand the design of logic circuits.
MCA-114	Mathematical Foundations of Computer Science	1.The purpose of this course is to understand and use discrete structures as a backbone of computer science. 2.This course is designed to introduce the students to the basic mathematics concept like set theory, algebraic structures, Boolean algebra, and graph theory. 3.On the completion of this course, the students will be able to explain and apply the basic methods of discrete mathematics in Computer Science.
MCA 115 C1	Communincation Skills	1. The proposed syllabus will help in enhancing Business Etiquettes, Media etiquettes, Table Etiquettes. 2. This course will develop self confidence in students by enhancing their verbal and non-verbal communication skills.
MCA 115 C2	Principles and Practices of Management	1.This course enables students to take better management and planning decisions. 2.Improves Communication and Interpersonal skills.
MCA 115 C3	Accountancy & Financial Management	1.Students will be exposed to the fundamental accounting concepts. 2.Finally students will be able to manage their day to day financial matters.

MCA-116	Programming Lab- I (Based on Paper MCA 111)	1.This course offers a good understanding of the various functional units of a computer system. 2.The students are also exposed to the recent trends in computing models.
MCA-117	Programming Lab- II (Based on Paper MCA 112)	1.To enable the students to solve the problems using programming technique and to implement these programming techniques to create software. 2.This course will enable the students to analyse the real life problems and write a program in C language to solve the problem. The main emphasis of the course will be on problem solving aspect.
MCA 121	Operating System	1.To help students become familiar with the fundamental concepts of operating systems and provide students with sufficient understanding of operating system design. 2.Students will be exposed in such a way as to permit the effective development, testing, and introduction of new system functions without interfering with service.
MCA 122	Object Oriented Programming using C++	1.To provide information about concepts of OOPS. 2.By the end of the course a student will be capable to design and develop different computer software applications and will be able to implement various algorithms in programming languages for research.
MCA 123	Relational Database Management System	1.To provide basic introduction to database system technologies. 2.To form the basic conceptual background necessary to design and develop simple database systems.

MCA 124	Software Engineering	1.To study how to plan and manage projects at each stage of the software development life cycle. 2.To train software project managers and other individuals involved in software project planning and tracking and oversight in the implementation of the software project management process. 3.To understand successful software projects that support organization's strategic goals.
MCA 125 C1	Data Communication	1.This course will make the students learn about different types of data transmission and data encoding techniques. By the end of the course, students will be able to create networks using various data transmission facilities. 2.This course will make the students learn about different types of data transmission and data encoding techniques. 3.By the end of the course, students will be able to create networks using various data transmission facilities.
MCA 125 C2	Organizational Behaviour & Development	1.To develop organizational skills among the students. 2.Students will learn different motivation theories which will help to make them confident to solve problems effectively.
MCA 125 C3	Computer Oriented Numerical Methods	1.The objective of this course is to make students familiar with numerical methods so that they are able to do numerical analysis and to solve based problems. 2.Students will learn Numerical differentiation, Integration, Interpolation

		and curve fitting.
MCA 126	MCA 126- Programming Lab-III (Based on Paper MCA 122)	1.To provide information about concepts of OOPS. 2.By the end of the course a student will be capable to design and develop different computer software applications using C++.
MCA 127	MCA 127- Programming Lab-IV (Based on Paper MCA 123)	1.To implement the database system technologies. 2.To form the basic conceptual background necessary to design and develop simple database systems.
MCA 231	Object Oriented Analysis & Design UML	1.To understand the importance and basic concepts and of object oriented modeling. 2.Specify, analyze and design the use case driven requirements for a particular system. 3.Model the event driven state of object and transform them into implementation specific layouts.
MCA 232	Programming in JAVA	1.To provide information about concepts of Java. 2.By the end of the course a student will be capable to design and develop different computer software applications in Java.
MCA 233	Computer Networks	1.To help students become familiar with the fundamental concepts of Computer Networks. 2.Students will be made aware about different Network Layers and Network Security.

MCA 234	Data Structures	1.To help students become familiar with the fundamental concepts of Data Structures. 2.Students will be exposed to use of different Data Structures like stacks, Queues, Linked Lists, Trees, Graphs etc.
MCA 235 C1	Software Testing and Quality Assurance	1.To study how to test projects at each stage of the software development life cycle. 2.To train software project managers and other individuals involved in software project planning and tracking and oversight in the testing of the software project management process.
MCA 235 C2	Research Methodology	1.To develop understanding of the basic framework of research process. 2. To develop an understanding of various research designs and techniques.
MCA 235 C3	System Software	1.The objective of this course is to help students become familiar with the fundamental concepts of System Software and provide students with sufficient understanding of features of system programming. 2.Students will be exposed to different system software like compilers, assemblers etc.
MCA 2336	Programming Lab- V (Based on MCA 232)	1.To implement the concepts of Java. 2.By the end of the course a student will be capable to design and develop different computer software applications in Java.
MCA 237	Programming Lab- VI (Based on MCA 234)	1.To help students become familiar with the fundamental concepts of Data Structures. 2.Students will be exposed to use of

		different Data Structures like stacks, Queues, Linked Lists, Trees, Graphs etc.
MCA 241	Computer Graphics	1.The objective of this course is to help students become familiar with the fundamental concepts of Computer Graphics. 2. Students will be exposed to implementation of 2D and 3D Graphics.
MCA 242	Web Programming using ASP .NET	1.To understand the basic concepts of Internet and Web design. 2.To learn how to develop professional web pages with server side scripting.
MCA 243	Algorithm Analysis & Design	1.To analyze the asymptotic performance of algorithms and write rigorous correctness proofs for algorithm. 2.Demonstrate a familiarity with major algorithms and data and apply important algorithmic design paradigms and methods of analysis.
MCA 244	Artificial Intelligence	1.Demonstrate knowledge of the building blocks of AI as presented in terms of intelligent agents. 2. Analyze and formalize the problem as a state space, graph, design heuristics and select amongst different search or game based techniques to solve them
MCA 245 C1	Content Management System	1.To help students become familiar with the fundamental concepts of Content Management systems. 2.Students will be exposed to use Joomla

		and its comparison with other CMS.
MCA 245 C2	Data Mining	1.To interpret the contribution of data warehousing and data mining to the decision-support level of organizations & evaluate different models used for OLAP and data preprocessing. 2.To categorize and carefully differentiate between situations for applying different data-mining techniques: frequent pattern mining, association, correlation, classification, prediction, and cluster and outlier analysis
MCA 245 C3	Computer Based Optimizaion Techniques	1.To develop proficiency in business study and decide the feasibility of system. 2.To carry out the profitable solution for an industries.
MCA 246	Programming Lab- VII (Based on MCA 241)	1.To understand the need of developing graphics application. 2.Learn algorithmic development of graphics primitives like: line, circle, polygon etc. 3.Learn the representation and transformation of graphical images and pictures.
MCA 247	Programming Lab- VIII (Based on MCA 242)	To develop professional web pages with server side scripting.
MCA 351	Theory of Computation	1.Provide the basic knowledge to the students to understand the relationship between the automata and regular expressions. 2.To make students aware regarding the role of context free grammar,

		simplification of grammar and parsing.
MCA 352	Programming With Python	1.The contents learnt under this course will enable students to learn a new programming language which has high demand in industry. 2. Students are expected to use Dictionary, Functions in effective manner in order to create a reliable and user friendly application.
MCA 353 C1	PHP (PHP Hypertext Preprocessor)	1.Students will be able to create Web applications and web sites after completing this course. 2.Students will learn to handle Relational database using queries embedded in PHP functions.
MCA 353 C2	Mobile Application Development using Android	1.Students will be able to create Android based Mobile applications like camera, telephony apps. 2.Students will learn to handle SQLite database using Android and will also be able to create and use web services for handling remote databases.
MCA 354	Advanced JAVA	1.Students will be able to create Web applications in java after learning this course. 2.Students will learn to handle database using java.
MCA 355	Big Data Analysis using HADOOP	1. This workshop will enable the students to manage a very large amount of data in a database effectively. 2.Students will learn to store and retrieve data on distributed computers in a network.

MCA 356	Minor Project	1. Students will create an application (either web or mobile) in a technology learnt under Elective subjects. 2. To enable students to plan, manage and create project that support organization's or an individual's strategic goals.
MCA 361	Project	1.To prepare graduates who will be successful professionals in industry, government, academia, research, entrepreneurial pursuit and consulting firms.

The Program Specific Outcomes and Course Outcomes of all the Programmes

Program Name: Post Graduate Diploma in Computer Application (PGDCA)(2018-19)

Learning Objectives:

After the successful completion of this program, one can work as:

- Software Engineer
- Computer Programmer & Analyst
- Interface Engineer
- Internet Basics
- E-Business
- Project Manager
- Information Security Analyst
- IT Consultant

Programme Specific Outcome:

Post Graduate Diploma in Computer Applications (PGDCA) is designed for graduate students who are interested in computer applications. This course has been made for students who want to learn computer applications in different fields like banking, insurance and accounting. This program allows students to seek professional knowledge in computer applications.

In India, PGDCA is a one year long program that a student can take after graduation. This program provides specialization in computer science with technical, professional and communications skills. It also trains students to become future IT professionals.

This programme will give the aspirants a sound understanding of basic computer applications in business covering key programming languages, data base management, systems analysis, computer software development in specific applications such as studies, financial management and long range planning.

Course Outcome:

Course Code	Course	Course Outcome
	Semester- I	
PGDCA 101	- Fundamentals of Information Technology	To understand the basics of computer system, its architecture, number system and Networks. To understand the basic concepts, terminology of IT and familiar with the applications of Internet.
PGDCA 102-	E-Commerce	The objective of this paper is to familiarize the students with current E-Commerce tools used in various fields
PGDCA 103	- Programming Fundamentals Through C Language	The objective of this paper is to familiarize the students with the core concepts **o**f C Language and program development. To make the students aware of pointers, structure and file handling system using C Language.

PGDCA 104	- Software Lab- I Office Automation & Productivity Tools	To learn the working knowledge of windows and its accessories. To learn the various features of MS-Office.
PGDCA 105	- Software Lab- II Based on PGDCA 103	To familiarize the students with C language environment. To implement various concepts related to C language.
PGDCA 106	- Choice Based Course (CBC- I)	
PGDCA 106 C1	- Workshop on Page Maker	The objective of the course is to provide basic skills in Page Maker. By the end of the course a student will be capable to edit and create documents using the features and tools available in Page Maker.
PGDCA 106 C2	- Workshop on Corel Draw	The objective of the course is to provide basic skills in CorelDraw. By the end of the course a student will be capable to edit images and create documents using the features and tools available in Corel Draw.
	Semester- II	
PGDCA 201	- Fundamentals of Computer Network, Internet & Scripting Languages	To explain how communication works in computer networks and to understand the basic terminology of computer networks To understand design issues in Network Security and to understand security threats,

		security services and mechanisms to counter them.
PGDCA 202	- Object Oriented Programming With C++	To understand the difference between object oriented programming and procedural oriented language and data types in C++.To make the students able to program using C++ features such as composition of objects, Operator overloading, inheritance, Polymorphism etc.
PGDCA 203	- Database Management System	To gain a good understanding of the architecture and functioning of database management systems. To understand the principles of data modeling using entity relationship and develop a good database design and normalization techniques to normalize a database.
PGDCA 204	- Software Lab- III Based on Photoshop	Use basic selection tools and edge refinement to isolate and edit parts of an image. Manipulate layers through ordering, positioning, scaling, rotation, and adjustments Create composite images that demonstrate advanced selection and layering techniques.
PGDCA 205-	Software Lab- IV Based on PGDCA 202	To familiarize the students with basics and object oriented concepts of C++ To implement various OO concepts related to language.

PGDCA 206-	Choice Based Course (CBC- II)	
PGDCA 206 C1-	System Analysis & Design	The objective of this paper is to familiarize the students with current System Analysis & Design tools used in various fields
PGDCA 206 C2	- Principles & Practices of Management	The objective of the course is to teach managerial skills to aspiring manager or the trained managers who want to become more effective. The subject also emphasis on conceptual and technical frameworks of leadership and the role of communication.

The Program Specific Outcomes and Course Outcomes of all the Programmes

Program Name : Bachelor of Arts (Fine Arts)

B.A. - FINE ARTS

LEARNING OBJECTIVES :

The Students of Fine Arts with itsGraduate and Post-Graduate program, intent creative profession that shape society and advance economic growth. Fine Arts nurtures the creativity that is vital to the enrichment of modern culture. The programme aims at equipping enabling future researchers with the fundamental concepts, theories and practices of different knowledge domains. To empower the curiosity,interest and enjoyment in their own creativity that explore through the processes of visual and performing arts .To apply appropriate terminology to show aesthetic and critical awareness,this syllabus has been again revised ,redesigned and restructured with a futuristic approach, keeping in mind the new challenges .The course serves to extend the student's awareness of the visual arts mechanism of creativity tools and materials.The candidate will be informed about the socio-political and religious circumstances which contributed in the field of art.

PROGRAM SPECIFIC OUTCOME :

After completing the program, the student will be able to:

1. Explore the experiences of the modern art in practical.

2. Understand the problems and use different techniques of our times.
3. Understand the present existing social, political and religious circumstances which contributed to art.
4. Gain knowledge regarding different artists and their art works
5. To inculcating in them mind involvement in art process by exploration..
6. Introduce to them different styles of art works, various schools and phases of art works.
7. Gain knowledge about art works different trends and point of view eastern and western concepts of art.

Course Code	Course (B.A. Fine Arts)	Course Outcome
BA(UG-I) TH (1st semester)	History of Indian Art and Aesthetics	1. Develop the knowledge of techniques and subject matter of the different pre-historic periods. Their valuable contribution for art. 2. Understand the basic elements of arts : lines color , shape , texture etc. and their role in modern art. 3. The students will be able to show aesthetical and critical awareness with detail of principles of art six limbs of art.
BA-(UG-I) P	Still life and Alphabet Writing\Design	**1.** The course serves to extend the student's awareness of the visual arts mechanism of creativity, precision tools and materials. **2.** The students will be able to skills specific to the art form studied to elaborate an idea , a theme or a composition to a point of realization. **3.** Gain knowledge for further development and the knowledge of design and skills acquired during the studies.
BA(UG-II) TH (2nd semester)	History of Indian Sculptures	1. The students will be understand with different styles and development of forms in Indian sculptures as well as temples (stupas) . 2. Gain knowledge to discuss the special structural abilities and their social and historical significances.

		3. The students will be understand the brief history of rulers and their role to engage with conceptual composition during their eras.
BA-(UG-II) P	Alphabet Writing\Design and Poster	**1.** The course serves to study proportion ,volume , texture and light & shades **2.** The students will be understand about materials and methods involved and development of creatives ability. **3.** Students will be able to extend their basic understanding of design and making of simple layouts of poster advertisement etc.
BA(UG-III) TH (3rd semester)	History of Indian Sculptures	**1.** The students will be able to understand the painting and sculpture in India . **2.** The emphasis will be to make them aware of different terms , concepts, forms and subject matter of these works. **3.** They will be able to inculcating mind involvement in the art process by exploration.
BA-(UG-III) P	Landscape\Composition and Head Study	**1.** The course serves to extend the students advanced studies in different shapes , form , life models of different age groups . **2.** Delineation of the structural character of the head . **3.** The students will be able study theory of pictorial space including figures and ground the three dimension and the picture field , sub division and grouping of objects figures , interiors etc.
BA(UG-IV) TH (4th semester)	History of Indian Miniature Painting	**1.** The students will be able to introduce the various schools, styles and phases of the development . **2.** Emphasis will be to make aware of the different terms , concept , forms and subject matter of these works . **3.** The students will be aware of the development of miniature art style during different Indian rulers .
BA-(UG-IV) P	Landscape\Composition and Head Study	**1.** The students will learn about feature , complexion ,expressions in various medium and structural character of the head **2.** Extend the students knowledge in different

		shapes from models of a different age groups. **3.** The students will be develop knowledge about composition based on human figures, figurative and non figurative elements of nature . .
BA(UG-V) TH (5^{th} semester)	History of Indian Painting (Modern Period)	1. The students will be able to introduced the concepts of art ,its relationships basic terms and categories. 2. The aim is to enable students to engage with visual and conceptual comparisons in arts of different times and places . 3. The students will be able to study the modern aspect of art and new concept , subject matter of these works .
BA-(UG-V) P	Landscape\Composition and Life Study	**1.** Make students aware to advanced study from life models to develop a volume conception , human structure as it relates to form , contour and movement . **2.** The students will be able to understand distinction features of different age group and different size . **3.** The entire syllabus is design to understand the process of learning to observe and reproduce the pure designs .
BA(UG-VI) TH (6^{th} semester)	History of Modern Movements in Europe and History of Western Art	1. The students will be able aware to study the different phases of western art history 2. While discussing the development in the field of art ; they will also be informed about the socio-political and religious circumstances which contributed in art . 3. The students will learn taking into account the changes in social and technological spheres the emergence of modern art would be discussed.
BA-(UG-VI) P	Landscape\Composition and Life Study	1. The students make capable to exhibit their work with a professional responsibility 2. The students will be able to understand the academic related to proportion structure tonal values , volumes and perspective . 3. The students will learn about the arrangement of shapes based on subject and color application in

		harmony.

M.A. - FINE ARTS
The Program Specific Outcomes and Course Outcomes of all the Programmes

Program Name : Master of Fine Arts

LEARNING OBJECTIVES :

The Students of Fine Arts with itsGraduate and Post-Graduate program, intent creative profession that shape society and advance economic growth. Fine Arts nurtures the creativity that is vital to the enrichment of modern culture. The programme aims at equipping enabling future researchers with the fundamental concepts, theories and practices of different knowledge domains. To empower the curiosity,interest and enjoyment in their own creativity that explore through the processes of visual and performing arts .To apply appropriate terminology to show aesthetic and critical awareness,this syllabus has been again revised ,redesigned and restructured with a futuristic approach, keeping in mind the new challenges .The course serves to extend the student's awareness of the visual arts mechanism of creativity tools and materials.The candidate will be informed about the socio-political and religious circumstances which contributed in the field of art.These specializations will be able to utilize their skills in various practical fields.

PROGRAM SPECIFIC OUTCOMES

After completing the program, the student will be able to

1. Explore the experiences of the modern art and become aware of the views, aspirations and struggles of the prior human communities this help them to better understand the art concepts and techniques of modern time.
2. Understand the present existing social, political and religious circumstances which contributed to art.
3. Gain knowledge regarding different artists and their art works
4. To inculcating in them mind involvement in art process by exploration..
5. Introduce to them different styles of art works, various schools and phases of art works.
6. Gain knowledge about art works different trends and point of view eastern and western concepts of art.
7. Learn the various histories of nations with comparative approach.

Course Code	Course (M.A.Fine Arts)	Course Outcome
MAFA-1.I	HISTORY OF INDIAN	1. The students will beable to acquaint

(1st semester)	ART	with different styles and development of forms in Indian architecture ,rock cut as well as temples. 2. Emphasized on to make them aware of the different terms , concepts , forms and subject matter of these works. 3. Introduction of different style of art works various art schools and phases of works.
MAFA-1.II	AESTHETICS AND PRINCIPLES OF ART APPRECIATION	1. The students are introduced to the concepts of art its principles, basic terms and categories. 2. To make the students enable them to engage with visual and conceptual comparision in arts of different times and plaes. 3. To make them able to evaluation of art works different trends and points of view eastern and western.
MAFA-1.III	CREATIVE LANDSCAPE	1. The students will be able to gradually develop the proficiency in work and his understanding of creative works. 2. The students will be aware to use the new materials ,new techniques of modern art. 3. Gain knowledge about to introduced the imaginative and original composition based on natural elements
MAFA-1.IV	PORTRAIT PAINTING\ CREATIVE COMPOSITION	**1.** The students will be able to study thge featuers,complexion ,expression in various medium and structural character of head. **2.** The students will be aware about imaginative composition based on human figures, figurative and non figurative elements of nature. **3.** Gain knowledge about to do mounting, framing and presentation

		of art Facts in the form of exhibition and display.
MAFA-2.I (2^{nd} semester)	HISTORY OF INDIAN ART UPTO 1850AD	1. The students will be aware about the development of miniature art style, concepts, forms and subject matter of these works. 2. The students will be able to inculcating mind involvement In the art process by exploration in basic studies, styles and development of Indian sculptures 3. The students will be aware the development in the field of art they will also be informed about socio-political and religious cricumstances of art during this period.
MAFA-2.II	AESTHETIC AND PRINCIPLES OF ART APPRECIATION	1. To show the aesthetical and critical awareness with detail study of principles of art , six limbs of art. 2. To make them understand the various concepts forms, terms, subjects matter and their impotance in routine life EXAMPLE:- The folk art 3. Deeper understanding of modern concepts open to the contemporary works/artists
MAFA-2.III	CREATIVE LANDSCAPE	1. The students will be able to equip with such abilities as to inspire them recreated the living qualities of our art traditions in the contemporary manifestations of their works. 2. Gain knowledge about to introduced the imaginative and original composition based on natural elements. 3. The students will be aware to use the new materials ,new techniques of modern art.

MAFA-2.IV	PORTRAIT PAINTING\ CREATIVE COMPOSITION	**1.** The students will be able to study thge featuers,complexion ,expression in various medium and structural character of different age groupes. **2.** The students will be aware about imaginative composition based on human figures, figurative and non figurative elements of nature. 3. The students will be able to learn theory of pictorial space including figures and ground ,three dimension , sub division and grouping of objects.
MAFA-3.I (3^{rd} semester)	ART AND CULTURE HISTORY OF EUROPE	1. Important and necessary criticism and evaluation of art work , art trends from the western points of view. 2. In western context emergence of new trends and their impact will be discussed . 3. The aim to study western culture and art taking into account the theories of various art periods
MAFA-3.II	MODERN MOVEMENTS IN ART	1. The aim is to impart information about the development in the different movements in India and the west. 2. The students will be able to study about western artists taking into account theories and works during different Isms 3. The students will be able to evaluation of art works different trends and points of view eastren and western.
MAFA-3.III	CREATIVE COMPOSITION	1. The students will be able to equip with such abilities as to inspire them recreated the living qualities of our art traditions in the contemporary

		manifestations of their works. 2. Make the students able to design composition with exploration of various phases of contemporary painting in order to develop creativity. 3. The students will be aware to use the new materials ,new techniques of modern art.
MAFA-3.IV	PAINTING FROM LIFE\ CREATIVE LANDSCAPE COMPOSITION	1. Extend the students knowledge in different shapes from models of a different age groups. 2. Make students aware to advanced study from life models to develop a volume conception , human structure as it relates to form , contour and movement. 3. The students will be able to understand the academic related to proportion structure tonal values , volumes and perspective
MAFA-4.I (4 th semester)	ART AND CULTURE HISTORY OF EUROPE	1. The students will be able aware of the different phases of western art history through the centuries. 2. The students will be able to discussing about field of art ,they also informed about socio-political and religious circumstances. 3. The students will be understand to introduce the different styles and phases of painting and sculpture of europe.
MAFA-4.II	MODERN MOVEMENTS IN ART	1. The students will be able to learn the modern aspects of art and new trends,concepts and subject matter of these works. 2. Gain knowledge about brief history of Ism's and conceptual composition during that time. 3. The students will be able to

		understand with different style and development of works in india and west
MAFA-4.III	CREATIVE COMPOSITION	**1.** The students will be able to equip with such abilities as to inspire them recreated the living qualities of our art traditions in the contemporary manifestations of their works. **2.** The students will be aware about imaginative composition based on human figures, figurative and non figurative elements of nature. 3. Gain knowledge about to do mounting, framing and presentation of art facts in the form of exhibition and display.
MAFA-4.IV	PAINTING FROM LIFE\ CREATIVE LANDSCAPE COMPOSITION	**4.** Make students aware to advanced study from life models to develop a volume conception , human structure as it relates to form , contour and movement. **5.** The students will be able to understand the academic related to proportion structure tonal values , volumes and perspective 6. The course is to facilitate the students to develop his\her own individual creative visual language in order to effectivelu express through their medium of expression.

The Program Specific Outcomes and Course Outcomes (2018-19)

Program Name: Bachelor of Arts
Course Name: History

Learning Objectives:

History is an important subject among all the subjects included in social sciences. That's why history is the most favorite subjects among the students of under-graduate classes especially in

Bachelor of Arts. Why history is so famous amongst the students because it is very favorite subject for civil services examinations and all other competitive examinations,specially, students learn about their past and never follow the mistake which has been done in the past. This is also a universal truth that without history there is no existence of any subject. So, history is very extensive in its nature and a very important and essential subject in the course of Bachelor of Arts.

Program Specific Outcome:

After completing the program, the student will be able to

1. Explore the experiences of the human past.
2. Understand the problems and promises of our times
3. Understand the present existing social, political, religious and economic conditions of the people
4. Gain knowledge regarding empires of different times by maps
5. Use knowledge in all competitive exams
6. Use the reading of history which trains memory, reasoning, and presentation of facts systematically and successfully.
7. Enhance their intellectual development
8. Gain knowledge about background of our religions, customs, institutions, administrations, science, wars and social events.

Course Outcome:

Course Code	Course	Course Outcome
BA 111	**HISTORY OF INDIA UPTO A.D 1000**	1. The students will be able toanalyse the culture of India 2. Understand the contribution of various dynasties to art and literature 3. The students will be able to critically evaluate the socio-cultural ethos of Indian society

BA 211	**HISTORY OF INDIA (A.D 1000 to 1707)**	1. Gain knowledge about the cultural heritage of Medieval India 2. The students will be able to evaluate the socio religious ethos of Indian Society 3. The students will understand the advent of Muslim rule in India
BA311	**HISTORY OF INDIA (A.D. 1707-1966)**	1. The students will learn about the advent of British rule in India 2. The students will be able to understand the hard earned freedom 3. The students will gain knowledge to appreciate and respect national leaders
BA411	**HISTORY OF THE PUNJAB (A.D. 1469-1799)**	1. The students will gain knowledge about the rise of Sikh movement 2. The students will be aware of the contribution of Sikh Gurus in the growth of Sikhism 3. The students will be develop knowledge about the early resistance against the Mughal rule
BA511	**HISTORY OF THE WORLD (A.D. 1500-1950)**	1. The students will learn about the Renaissance and Reformation of Europe 2. Gain knowledge about French Revolution of 1789 3. The students will be able to understand main events of the modern world
BA611	**HISTORY OF THE PUNJAB (A.D. 1799-1990)**	1. The students will gain knowledge about the empire of Maharaja Ranjit Singh 2. The students will understand about the British rule in Punjab 3. Gain knowledge about the various phases of Freedom Movement

The Program Specific Outcomes and Course Outcomes (2018-19)

Program Name: Master of Arts
Course Name: History

Learning Objectives:

A society without history is like a man without memory and perception. Memory as a flowing stream of past is an integral part of man's total awareness of the present. A kind of his personal identity for a modern man of the contemporary period, history is extremely significant, for he has lived more history than the human of any other previous era. The gigantic ideological struggles of the peoples, historical changes colossal scientific and technological advances, and the fear of future have made philosophy of history everybody's concern, a major industry of intellectuals, researchers and scholars. So, M.A History is very inspirational and beneficial for the students.

Program Specific Outcome:

After completing the program, the student will be able to

1. Explore the experiences of the human past and become aware of the views, aspirations and struggles of the prior human communities this help them to better understand the problems and promises of our times.
2. Understand the present existing social, political, religious and economic conditions of the people
3. Gain knowledge about background of our religions, customs, institutions, administrations, science, wars and social events.
4. Develop interest as well as love for reading historical figures, characters, events and facts which area found necessary for solving the present problems effectively.
5. Use the reading of history which trains memory, reasoning, and presentation of facts systematically and successfully.
6. Use the readings of the history subject in most of the competitive exams like UPSC, PTET, UGC-NET, CTET, Net Banking and so many other exams.
7. Understand the identity of the nation as without History no nation can survive.
8. Understand the basic themes, concepts, chronology and scope of history.
9. Learn the various histories of nations with comparative approach.

Course Outcome:

Course Code	Course	Course Outcome
MAH 101	HISTORY OF THE PUNJAB (A.D. 1469-1675)	1. The students will be able to know about the foundation of Sikh Faith. 2. The students will understand the various institutions of Sikh Faith 3. Understand the concept of Martyrdom of Sikh Gurus

MAH102	HISTORY OF THE WORLD (A.D. 1500-1815)	1. Gain knowledge about the Renaissance and Reformation of Europe. 2. The students will understand the importance of American Revolution and French revolution. 3. The students will evaluate the reforms and continental system of Napoleon
MAH103	HISTORY: ITS THEORY AND RESEARCH METHODOLOGY	1. The students will understand the scope and purpose of History 2. Enable the students to understand the history relations with other disciplines 3. The students will be able to learn and make use of different techniques of research methodology.
MAH104(A)	HISTORY OF THE WORLD (A.D. 1871-1919)	1. The students will be able to evaluate the era of Bismarck 2. Understand the partition of Africa 3. The students will gain knowledge about the causes and effects of the first world war.
MAH104(B)	HISTORY OF THE USA (A.D. 1860-1914)	1. The students will gain knowledge of important landmarks in history of the U.S.A 2. The students will understand the economic expansion of U.S.A 3. Gain knowledge about slavery in U.S.A
MAH201	HISTORY OF THE PUNJAB (A.D 1675-1799)	1. To enable the students study of the KhalsaPanth 2. The students will understand the first independent rule of the Sikhs 3. To gain knowledge regarding the Sikhs struggle against the Mughals and Afghans
MAH202	HISTORY OF THE WORLD (A.D 1815-1870)	1. The students will gain knowledge about the era of Metternich 2. The students will develop knowledge about the growth of Parliamentary System in England 3. Understand the various phases of unification Italy and German.
MAH203	HISTORY: ITS THEORY AND RESEARCH METHODOLOGY	1. The students will be able to understand the Emerging Trends of History 2. The students will develop knowledge and skills for thesis writing 3. Gain knowledge about the new avenues in doing historical research

MAH204 (A)	HISTORY OF THE CONTEMPORARY WORLD (A.D 1919-1991)	1. Understand the burning issues of the world 2. The students will gain knowledge regarding U.N.O 3. The students will be able to understand the Disintegration of U.S.S.R
MAH204 (B)	HISTORY OF THE U.S.A (A.D. 1914-1973)	1. The students will develop awareness about the History of the U.S.A 2. The students will be able to assess the impact of the U.S.A foreign policy since the world war 3. The students will gain knowledge regarding U.S.A role in the U.N.O
MAH301	HISTORY OF PUNJAB (A.D. 1799-1849)	1. Understand political condition of the Punjab on the eve of Ranjit Singh accession to Power 2. The students will be able to know about the contribution of the Ranjit Singh security of North –West frontier and administration 3. The students will gain knowledge about the first and second Anglo Sikh Wars.
MAH302	HISTORY OF INDIA (A.D. 1707-1772)	1. The students will be able to analyze the downfall of Mughal Empire 2. Understand the political History of the Regional Powers 3. The students will gain knowledge about the struggle of European Companies for Supremacy in India
MAH303	HISTORY OF INDIA (A.D 1818-1947)	1. Understand the policies of British Governor-General's 2. The students will understand about the Revolt of 1857 3. The students will gain knowledge regarding the British relations with other countries.
MAH304 (A)	NATIONAL MOVEMENT IN INDIA AND CONSTITUTIONAL DEVELOPMENTS (A.D 1858-1930)	1. Gain knowledge about the I.N.C 2. The students will understand the policies of Moderates and Extremists 3. The student will gain knowledge about the Gandhian Movements

MAH304 (B)	STUDY OF INSTITUTIONS: SOCIAL, CULTURAL AND ECONOMIC	1. The students will gain knowledge about the society of Medieval India 2. Understand the policies of Sultans of Delhi 3. The students will learn about the importance of historical monuments of India under Sultans of Delhi
MAH401	HISTORY OF PUNJAB (A.D. 1849-1947)	1. The students will gain knowledge about the society and economy of Punjab 2. The students will be able to evaluate the socio-religious reforms movements of Punjabi society 3. The students will be aware of the partition of Punjab
MAH402	HISTORY OF INDIA (A.D. 1772-1818)	1. Understand the establishment of British Empire 2. The students will gain knowledge about the Administration policies of Governor-Generals 3. The students will develop knowledge about the Downfall of Mysore, Maratha and Pindaris
MAH403	SOCIAL AND ECONOMIC HISTORY OF MODERN INDIA (A.D. 1818-1947)	1. The students will gain knowledge about the socio-religious reforms movements in India 2. The students will be able to know about the New Middle class of India 3. Understand the Economic policies of the British
MAH404 (A)	NATIONAL MOVEMENT IN INDIA AND CONSTITUTIONAL DEVELOPMENTS (A.D 1930-1947)	1. The students will be able to understand the hard earned freedom 2. The students will be able to appreciate and respect national leaders 3. Gain knowledge about the value of Patriotism and Nationalism

MAH404 (B)	STUDY OF INSTITUTIONS-SOCIAL, CULTURAL AND ECONOMIC UNDER THE MUGHALS	1. Gain knowledge about the land Revenue system of Mughal India 2. Understand the Mansabdari and Jagirdari Systems 3. The students will develop knowledge about the importance of Historical monuments of Mughal India.

DEPARTMENT OF JOURNALISM & MASS COMMUNICATION

PROGRAMME SPECIFIC OUTCOMES AND COURSE OUTCOMES

Session 2018/19

BAJMC

PROGRAM Name- BA Journalism and Mass Communication BA (JMC)

LEARNING Objectives

Journalism and Mass Communication Department is committed to providing undergraduate students with a quality education in the journalism disciplines that is current, relevant and practical. Advanced, innovative and technology driven communication tools have shrunk the world; this has given a new meaning to the field of Journalism and Mass Communication. A huge shortfall of trained personnel is being felt in the media world. BA (Journalism and Mass Communication) offers the students an introductory as well as in-depth knowledge about the media industry, its working and the wide spectrum of opportunities available in it. Enabling students who graduate to be able to compete successfully for positions. To develop efficient and required skills required in the dynamic multi-media and convergent environment. And to provide on-hand training in the field of journalism, television and new media.

Programme specific Outcomes

1) The students learn competencies and skills required by the media world.
2) The course provides the opportunity to enhance one's communication skills along with other personality skills that will be of great help for the students further in their career.
3) The students would have acquired great confidence by the end of the course.

BA (JMC) PART I SEMESTER I

Objectives: To introduce the students to the basics of Journalism and mass communication and to improve their communication skills.

Outcomes: The students will have a clear and basic knowledge about the field they are entering into and they will also learn to have an effective communication with their audience.

Code	Course	Outcomes
BA (JMC) - 101	PUNJABI LAZMI	1.Students will improve the writing skills in Punjabi 2. Students will have knowledge of Punjabi Literature which will further help them in Journalistic career.
BA (JMC) - 102	INTRODUCTION TO JOURNALISM	1. The students will have a clear and basic knowledge about the field they are entering into.
BA (JMC) - 103	INTRODUCTION TO COMMUNICATION	1. The students will be able to communicate better within the media industry. 2. They will also learn to have an effective communication with their audience.
BA (JMC) 104	ENVIRONMENTAL & ROAD SAFETY AWARENESS	1. The students will be easily able to identify and work upon the problems of environment, road safety and inform others about it too.
	SELECT ANY ONE	
BA (JMC) - 105 A	INDIAN ADMINISTRATION	1.The students will write better news copies when they have a wide knowledge about such subjects.
BA (JMC) - 105 B	MEDIA & SOCIETY	1.The students will be able to contribute towards developing the nation after learning the role played by the media in the society. 2.The knowledge of social structure will help the students to communicate better with various strata of the society.

BA (JMC) PART I SEMESTER II

Objective: To introduce students to the concept and different elements of reporting, editing, fundamentals of computer, geography and Administrative structure of Punjab.

Outcomes: Students will improve the writing, speaking, listening, reading skills in English. They will be capable to draft a news story from a rough copy, having knowledge of

administrative structure of Punjab and will be able to use the computer applications of media with ease and as per their requirement.

Code	Course	Outcome
BA (JMC) - 201	COMMUNICATIONS SKILLS IN ENGLISH	1.Students will improve the writing, speaking, listening, reading skills in English 2. Students will have knowledge of Literature which will further help them in Journalistic career.
BA (JMC) - 202	REPORTING & EDITING FOR PRINT	1. The students will be capable to draft a news story from a rough copy. 2. The students will be able to understand the role and function of every member of the media industry.
BA (JMC) - 203	MEDIA & CULTURAL STUDIES	1. The students will be able to communicate their message effectively within different cultures. 2. The students will know how to strategise their content as according to their culture.
BA (JMC) - 204	APPLICATIONS OF COMPUTER FOR MASS MEDIA	1. The students will be able to use the computer applications of media with ease and as per their requirement. 2. The knowledge will help the students to be ahead in this dynamic environment and effectively achieve their goals with minimum difficulties.
	SELECT ANY ONE	
BA (JMC) - 205 A	MEDIA PSYCHOLOGY	1.The students will apply the media psychology theories while dealing with media audience and while planning different campaigns.
BA (JMC) - 205 B	PUNJAB- GENERAL KNOWLEDGE & CURRENT AFFAIRS	1.The students will be able to draft and create better content with knowledge about the current situations of the society. 2.The regional knowledge of their workplace will put them two steps ahead in the field.

BA (JMC) PART II SEM III

Objective: To familiarize the students with various parameters involved in the various stages of broadcast media, print media, advertising and Public Relations.

Outcomes: The students will have a better knowledge about the workings of the Broadcast media, Print media, Advertising industry and Public Relations and the students will be able to differentiate and perform accordingly as regards to the various media.

Code	Course	Outcome
BA (JMC) 301	INTRODUCTION TO BROADCAST MEDIA	1. The students will have a better knowledge about the workings of the broadcast media. 2. The students will be able to differentiate and perform accordingly as regards to the various broadcast media.
BA (JMC) 302	PRINT MEDIA	1. The students will be able to design a newspaper page or a copy effectively. 2. The students will be able to understand the importance of various elements of the editorial page and the role they play in the newspaper.
BA (JMC) 303	WRITING FOR MEDIA	1. Students will learn the skills, techniques and principles of writing for various mass media.
BA (JMC) 304	ADVERTISING AND PR	1. The students will be able to make and maintain good relations with different type of publics. 2. The students will be able to make effective and relevant advertising copies after strategising their content and media.
	CHOOSE ANY ONE FROM BAJMC 305 A OR BAJMC 305 B	
BA (JMC) 305	EVENT MANAGEMENT	1.Students will learn the required skills to plan different types of events and will learn the principles of managing them efficiently

A		
BA (JMC) 305 B	INDIAN POLITY	1.The knowledge about the political system will make students well sound while writing about various political and social issues.
BA (JMC) 306	PRACTICAL	1. The students will be able to perform better during the field work.

BA (JMC) PART II SEMESTER IV

Objective: To update the students about the changing technologies in the media, process of documentary production, dynamics of development in a society and various economic and political issues of Indian Society.

Programme specific Outcomes: The students will be able to use the various applications of new media and will be able to draw a framework about how the media can develop a society with good communication. The students will be able to comprehend the cultural and regional values and ethics so as to write responsibly about the society.

Code	Course	Outcome
BA (JMC) 401	NEW MEDIA	1.The students will be able to use the various applications of new media with ease and as per their requirement. 2.The knowledge will help the students to be ahead in this dynamic environment and effectively achieve their goals with minimum difficulties.
BA (JMC) 402	DEVELOPMENT COMMUNICATION	1.The students will be able to draw a framework about how the media can develop a society with good communication. 2.The students will also be able to perform well in the implementation of such development theories and drive conclusions from it.
BA (JMC) 403	MEDIA ETHICS & LAWS	1.The students will have a handy knowledge about the legality of various issues and how should they be presented in front of the audience. 2.The students will be able to comprehend the cultural and

		regional values and ethics so as to write responsibly about the society.
BA (JMC) 404	DOCUMENTARY PRODUCTION	1.The students will be able to work upon the minute details needed to turn an idea to a full scale production.
	CHOOSE ANY ONE FROM BAJMC 405 A OR BAJMC 405 B	
BA (JMC) 405 A	INDIAN ECONOMY	1.The knowledge about the Indian economy will help students to write better about the various current issues in journalism.
BA (JMC) 405 B	INDIAN POLITICAL SYSTEM	1.The knowledge about the Indian political system will make students well sound and unbiased while writing about various political issues. 2.The students will learn to be always updated with the news and make informed decisions.
BA (JMC) 406	PROJECT	The practical work gives an overview and prepares students for the field work.

BA (JMC) PART III SEMESTER V

Objective:To instil the technical skills among the students, to familiarize students with the relevant regional and national eventsand to make students comprehend the different aspects and parameters of Research.

Programme specific Outcomes: The students will improve their technical skills like conducting research and gathering information about the international issues, gender and human rights issues will help the students to address and relate them at the national level.

Code	Course	Outcome

BA (JMC) -501	GLOBAL MEDIA	1.The students will be able to function well with the understanding of a global scenario. 2. The information about the international issues will help the students to address and relate them at the national level.
BA (JMC) -502	COMMUNICATION RESEARCH & METHODS	1.The students will be ready to conduct a basic research on the society using various methods or methodologies. 2.The students will be able to draft a full-fledged research report and perform well in academic sector too.
BA (JMC) -503	PHOTOJOURNALISM	1.The students will be able to click better photographs by understanding the various dynamics of photography. 2.The students will be able to judge the news value of a photograph and write a caption or a feature accordingly.
	SELECT ANY ONE FROM BAJMC 504 A OR BAJMC 504 B	
BA (JMC) -504 A	INDIA: GENERAL KNOWLEDGE & CURRENT AFFAIRS	1.The knowledge about the Indian Constitution will make students well sound while writing about various political and social issues 2.THE STUDENTS WILL LEARN TO BE ALWAYS UPDATED WITH THE NEWS AND MAKE INFORMED DECISIONS.
BA (JMC) -504 B	MEDIA, GENDER & HUMAN RIGHTS	1. The students will be socially and politically active. 2.The students will be able to highlight and inform people about the issues that are needed to be discussed.
BA (JMC) 505	PRACTICAL	1. The practical work gives an overview and prepares students for the field work.

BA (JMC) PART III SEMESTER VI

Objectives: To teach students about the emerging trends in Cyber Journalism, film production, TV news production and different International organisations and their relevance in our society.

Outcomes: The students will remain updated, tech-savvy and ahead in their field with the knowledge and the students will be able to grasp and write well about the national and international issues.

Code	Course	Outcome
BA (JMC) - 601	INTRODUCTION TO CINEMA	1.The students will be able to conceptualize old ideas into new productions. 2.The students will be able to work onto the concept of storytelling from a micro to macro level.
BA (JMC) - 602	CYBER JOURNALISM	1.The students will remain updated, tech-savvy and ahead in their field with the knowledge about journalism in the cyber world. 2.The students will be able to use applications and software for easy and effective transmission of content.
BA (JMC) - 603	TV NEWS PRODUCTION	1.The students will be able to draft, write and edit the T.V. news programs. 2.The students will be able to understand their individual and organisational role better in a T.V. production media house or industry.
	SELECT ANY ONE FROM BAJMC 604 A OR BAJMC 604 B	
BA (JMC) - 604 A	INTERNATIONAL: GENERAL KNOWLEDGE & CURRENT AFFAIRS	1.The students will be able to grasp and write well about the national and international issues. 2.The students will easily comprehend the role, relevance and effect of the different International organisations on Indian media and society.
BA	MEDIA INDUSTRY	1.The students will be able to decide and make informed decisions about the content strategy,

(JMC) - 604 B	&MANAGEMENT	audience fragmentation, media buying and selling and other elements involved in planning a media campaign. 2.They will perform better managerial and individual roles in an organisation.
BA (JMC) 605	AUDIO VISUAL PROJECT	1.The students will be able to produce packages, short film and documentaries.

MAJMC

Course Name- MA Journalism and Mass Communication MA(JMC)

Program Objective

Advanced, innovative and technology driven communication tools have shrunk the world; this has given a new meaning to the field of Journalism and Mass Communication. A huge shortfall of trained personnel is being felt in the media world. MA (Journalism and Mass Communication) offers the students an in-depth knowledge about the media industry, its working and the wide spectrum of opportunities available in it.To hone the journalistic and research skills through practical work, assignments, project reports, seminars and media practices.To develop efficient and required skills required in the dynamic multi-media and convergent environment. And provide on-hand training in the field of journalism, television and new media. Also To groom competent and dynamic professionals in Mass Communication and allied professions like Advertising and Public Relations.

Program specific Outcomes

1) The course opens many pathways and avenues to choose from and provides a detailed insight about them.
2) The students will be able to foresee the opportunities in and the future of Indian media.
3) The course provides the opportunity to enhance one's communication skills along with other personality skills that will be of great help for the students further in their career.
4) The students will be able to understand the Indian society and the role media is playing in its development in a better way.

MA (JMC) PART I SEMESTER I

Objectives: To introduce the students to the basics of Journalism and mass communication and to improve their communication skills while learning about the history and current scenario of media/ press laws.

Programme specific Outcomes: The students will have a clear and basic knowledge about the field they are entering into and will enhance their skills in writing, photography and audio-visual productions.

Code	Course	Outcome
MA(JMC) 101	INTRODUCTION TO MASS COMMUNICATION	1.Students will be able to apply communication principles, models and theories in real- life situations. 2.Students will be able to learn and identify communication barriers and techniques to eliminate them. 3.Students will be able to improve on their use of media for communication.
MA(JMC) 102	MEDIA- HISTORY, LAWS & ETHICS	1.Students will understand the role played by the press in the Indian freedom struggle and the overall national development. 2.Students will have an insight of challenges being faced by the Indian Press. 3.Students will get handy knowledge about the various laws and ethics to be followed for the proper functioning of the Press in the society.
MA(JMC) 103	PRINT MEDIA I	1.Students will learn the process and technicalities of collecting information and then shaping it into a proper structured news story. 2.They will understand the hierarchy and the role of the individual elements of structure of the newspaper.
	SELECT ANY ONE FROM MAJMC 104 A, MAJMC 104 B OR MAJMC 104 C	
MA(JMC) 104 A	PHOTO JOURNALISM	1.Students will learn the art of capturing good photographs with keeping in mind the various camera elements like shots, angles, movements and rules. 2.Students will learn the skills of writing photo features, essays and stories.
MA(JMC)	APPLICATIONS OF COMPUTER	1.The students will be able to use the computer

104 B	FOR MASS MEDIA	applications of media with ease and as per their requirement. 2.The knowledge will help the students to be ahead in this dynamic environment and effectively achieve their goals with minimum difficulties.
MA(JMC) 104 C	DOCUMENTARY/ SHORT FILM MAKING	Students will learn to develop ideas and concepts into a full-fledged audio-visual project including writing scripts, framing shots and directing and editing the documentaries or short films.
MA(JMC) 105	PRACTICAL	Students will learn to report the events, draft press notes, write stories and capture photographs with news value.

MA (JMC) PART I SEMESTER II

Objectives: To give introductory knowledge to students about the various fields and avenues of Media.

Programme specific Outcomes: The students will understand the concept of audience and how particular messages are written and driven for different types of media- Print, Radio and Advertising and also, know about the functioning of a media house or industry.

Code	Course	Outcome
MA(JMC) 201	ADVERTISING	1. Students will be able to have basic knowledge about various techniques required to plan and implementa multi-media advertising campaign.
MA(JMC) 202	PRINT MEDIA II	2. Students will learn to design, edit and manage the various elements of a newspaper copy.
MA(JMC) 203	RADIO PRODUCTION	1. Students will learn to write scripts and news bulletins for the radio. 2. Students will learn the skills of recording and presenting the radio programmes in various formats.
	SELECT ANY ONE FROM MAJMC 204 A, MAJMC 204 B	

	OR MAJMC 204 C	
MA(JMC) 204 A	MEDIA MANAGEMENT	1. Students will learn the management skills necessary to run a media house. 2. Students will learn the organisational structure of different media organisations.
MA(JMC) 204 B	EVENT MANAGEMENT	1.Students will learn the required skills to plan different types of events and will learn the principles of managing them efficiently
MA(JMC) 204 C	CURRENT AFFAIRS	1. Students will have the knowledge of regional, national and international affairs and their impact on the society. 2. Students will have the knowledge of Indian Constitution which will further help them in their journalistic career.
MA(JMC) 205	PRACTICAL	1. Students will learn to design a newspaper from the scratch, present different formats of radio programmes and design advertisements for various media.

MA (JMC) PART II SEMESTER III

Objectives: To enhance the communication skills of the students as per the needs of different media and situations.

Outcomes: The students will be able to perform academically well with the knowledge of Research, understand the relationship between media and various publics and learn how to communicate their messages effectively so as to fulfil their responsibility towards the society.

Code	Course	Outcome
MA(JMC) 301	MASS COMMUNICATION RESEARCH	1. Students will practically learn how to conduct research, and frame a research report on it.
MA(JMC) 302	TV PRODUCTION	2. Students will be able to create a T.V. program after understanding the different issues related to it.

MA(JMC) 303	CORPORATE COMMUNICATION & PR	1. The students will be able to understand the levels and types of Communication within the cooperate world. 2. The students will be able to draft a press note and learn how to maintain relations with different type of public.
	SELECT ANY ONE FROM MAJMC 304 A OR MAJMC 304 B	
MA(JMC) 304 A	DEVELOPMENT COMMUNICATION	1. The students will be able to identify the issues and problems acting as a hindrance to the development of a society and take remedial steps towards it. 2. The students will be able to learn the role of Communication in the development of a society.
MA(JMC) 304 B	MEDIA PSYCHOLOGY	1. The students will apply the media psychology theories while dealing with media audience and while planning different campaigns.
MA(JMC) 305	PRACTICAL	1. The students will be able to perform the various tasks related to media in their respective fields.

MA (JMC) PART II SEMESTER IV

Objectives: To introduce the students to recent trends in media, and their dependence and effects on society.

Programme specific Outcomes: The students will realize the scope and technicalities of working in the dynamic environment of new media, research and films. The students will also learn the significance and impact of various strata and culture of the society on the the messages and their channels.

Code	Course	Outcome
MA(JMC) 401	NEW MEDIA	1. The students will be able to realize the scope of New Media in today's world. 2. The students will be able to write and design effective content on New Media.
MA(JMC) 402	FILM PRODUCTION & STUDIES	1. The students will be acknowledged about the background of the Indian cinema. 2. The students will be able to conceptualize a film with the understanding of screen grammar, production phases and other technicalities.

MA(JMC) 403	INTERCULTURAL & INTERNATIONAL COMMUNICATION	1. The students will be able to identify the techniques to effectively communicate with their audience per their cultural values and systems. 2. The students will be able to maintain a proper balance between their content and cultural and global ethics.
	SELECT ANY ONE FROM MAJMC 404 A OR MAJMC 404 B	
MA(JMC) 404 A	MEDIA & SOCIETY	1. The students will be able to use effective communication and media tools for proper dissemination of values and Social norms in the society. 2. The students will be able to choose their media strategies and content as regard to the society accordingly.
MA(JMC) 404 B	INDIAN ECONOMY	1. The knowledge about the Indian economy will help students to write better about the various current issues in journalism.
MA(JMC) 405	DISSERTATION	2. The students will be able to conduct a full fledged research and draft a report on it.
MA(JMC) 406	PROJECT	1. The students will be able to polish their skills further in their area of the specialization.

BA (Elective Subject)

Objective: To aware the students about the field of Journalism & Mass Communication and make the competent to enter in the field of media.

Programme specific Outcomes: The students will be able to communicate better within the media industry. Students will learn the process and technicalities of collecting information and then shaping it into a proper structured news story. They can opt this subject for higher education.

Class	Course	Outcome
BA I Semester I	Introduction To Communication	1. The students will be able to communicate better within

		the media industry. 2. They will also learn to have an effective communication with their audience.
BA I Semester II	Introduction To Journalism	1. The students will have a clear and basic knowledge about the field they are entering into.
BA II Semester III	Fundamentals of Journalism	1. Students will understand the role played by the press in the Indian freedom struggle and the overall national development. 2. Students will have an insight of prominent newspapers, journalists and challenges being faced by the Indian Press.
BA II Semester IV	Print Media	1. Students will learn the process and technicalities of collecting information and then shaping it into a proper structured news story. 2. They will understand the hierarchy and the role of the individual elements of structure of the newspaper.
BA III Semester V	Photo Journalism	1. The students will be able to click better photographs by understanding the various dynamics of photography. 2. The students will be able to judge the news value of a photograph and write a caption or a feature accordingly.

BA III Semester VI	Radio Journalism	1. Students will learn to write scripts and news bulletins for the radio. 2. Students will learn the skills of recording and presenting the radio programmes in various formats.

Program Name: BACHELOR OF BUSINESS ADMINISTARTION (BBA)

1. Program Outcomes of Bachelor of Business Administration

The Bachelor of Business Administration (BBA) programme is a sensible mix of all functional and operational elements of Business studies/ Corporate which provide participants with foundational knowledge on different aspects of the administration of a business/ corporate concern. It includes at one end the need to realize why an organization exists while the other shows the new frontiers to which it can be developed.

1. The programme intends to train the students to become competent enough for entry level management professionals in business and corporate.
2. The basic aim of this course is to impart basic and operational knowledge on all functional areas of management makes the programme convergently unique.
3. The core objective of the programme is to make young BBA's a change agent in the society by nurturing values which self declare that "Turn to enterprising serves the society and the nation".
4. This course also analyse the theoretical business knowledge with the practical aspects of Organizational setting and techniques or management.
5. It also determines conceptual and analytical abilities required for effective decision making for business in the current changing environment.
6. With the help of this course students can understand the dynamic and complex business environment.

ProgrammeSpecific Outcome:

Course Outcome:

Course Code	Course	Course Outcome
BBA- 104	Financial Accounting	1. To develop the ability to use the fundamental accounting equation to analyze the effect of business transactions on an organization's

		accounting records and financial statements. 2. Develop the ability to use a basic accounting system to create (record, classify, and summarize) the data needed to solve a variety of business problems. 3. Develop the ability to use accounting concepts, principles, and frameworks to analyze and effectively communicate information to a variety of audiences. 4. To familiarize the students with the deprecation methods applicable in today's business/ Corporate environment.
BBA-105	Theory and Practice of Management	1. To help the students in understanding of the functions and responsibilities of managers 2. To understand the concepts related to Management. 3. To demonstrate the roles, skills and functions of management. 4. To help the students to develop cognizance of the importance of management principles 5. To enable them to analyze and understand the environment of the organization
BBA-GE (I)	Professional Ethics	1. The students will understand the basic perception of profession, professional ethics, various moral & social issues, industrial standards, code of ethics and role of corporate ethics. 2. The students will aware of functional ethics and responsibilities according to functions of business. 3. The students will acquire knowledge about variety of global issues and able to apply ethical principles to resolve situations that arise in their professional lives. 4. They will understand about role of

		business ethics a Developing Civilised Society and also about CSR.
BBA-GE (II)	Entrepreneurship Development	1. Have the ability to discern distinct entrepreneurial traits. 2. To know the parameters to assess opportunities and constraints for new business ideas. 3. To Understand the systematic process to select and screen a business idea. 4. To design strategies for successful implementation of ideas and write a business plan. 5. To understand about business venture and practically how to start-up a business.
BBA-GE (III)	Corporate Communication	1. Apply corporate communication strategies and principles to prepare effective communication for domestic and international business situations. 2. Identify ethical, legal, cultural, and global issues affecting business communication. 3. Utilize analytical and problem-solving skills appropriate to business communication. 4. Participate in team activities that lead to the development of collaborative work skills.
BBA-GE (IV)	Managing Small and Medium Business Enterprises	1. Understand the importance of defining the right strategy for the SME in a fast-changing world and to apply specific tools, models and

		processes. 2. Understand the importance of the three Pillars for Success: Strategy - Execution - HR and to assess their effectiveness at specific case studies. 3. Understand the Opportunities and Risks of Internationalisation and Strategic Options for accessing global markets. 4. Understand the importance of values at an SME for their sustainability and their innovation capacity.
BBA-GE (V)	Organisational Behaviour	1. To understand the concept of Organisational Behaviour 2. To learn about various theories of Organisational Behaviour 3. To understand the by there is need to understand the behaviour of personals working in the organisation.
BBA-GE (VI)	Insurance Management	1. To understand the concepts of insurance. 2. To know about the importance of the insurance. 3. To understand latest policies issued by different companies. 4. To know about the role of IRDA
BBA-GE (VII)	Business Mathematics and Statistics	1. Identify situations in which Math and Stats can be used effectively to aid managerial decision-making and planning.

		2. Select and apply appropriate techniques to solve particular optimisation problems. 3. Develop analytical skills in applying a scientific approach to structure and solve managerial problems. 4. Develop statistics skills in using a range of business.
BBA-GE (VIII)	India's Diversity and Business	1. Gain a heightened understanding of and appreciation for Indian Peoples, their sovereign status, along with their cultural, spiritual, aesthetic, literary, philosophical, social/family, political, and economic/subsistence expressions, and, as well as the diversity of those expressions within the contemporary world. Each tribal community is to be appreciated for its uniqueness and individuality. 2. Learn about the unique cultural traditions and world view, as well as realize the common threads of our shared humanity, transcending the cultural differences between Indian and non-Indian communities, and between Indian communities.
BBA-205	Cost Accounting	1. To understand the concepts of Cost and Cost Accounting. 2. To know about the various elements of cost. 3. To know the application part of costing in the organization. 4. To understand how cost is to be determined.

BBA-303	Human Resource Management	1. To understand the concepts related to Human resource Management 2. To help the students in understanding different aspect of HRP 3. To provide fundamental knowledge of managing career. **4.** To familiarize the students with the basic of Managing Separations
BBA-304	Principles of Marketing Management	1. To understand the concepts related to Marketing management 2. To help the students in understanding different environment which influencing the marketing of the companies 3. To provide fundamental knowledge of consumer behavior 4. To familiarize the students with the basic of new product development
BBA-403	Advertisement and Sales Management	1. To describe different types of advertisement and to Identify key players in advertising industry

		2. To discuss the ethics in advertisement and it helps the students in Identifying and taking decisions regarding the most feasible advertising appeal and media mix 3. To understand pre-testing, post testing and concurrent testing of ads to determine their effectiveness. 4. Identify the dealer-oriented promotion techniques, customer-oriented promotion techniques and the salesmen-oriented promotion techniques through communication concept
BBA-501	Business Law	1. To understand the concept of law applicable in the business. 2. To understand the latest guideline issued by the government in context of different law. 3. To aware about the policies followed by the business in the direction of law.
BBA-502	Financial Management	1. The students will understand the basic concept of finance and financial management 2. The students will aware of

		financial planning 3. The students will acquire knowledge about capital budgeting and working capital management 4. They will understand Dividend policy used by the corporate
BBA-602	Financial Institution and Services	1. The students will understand the basic concept of financial services 2. The students will aware of fixed and variable interest bearing security 3. The students will acquire knowledge about the merchant banking 4. They will understand about hire purchase
BBA-DSE I (A)	Management Accounting	1. Each student shall have a thorough understanding of basic management accounting concepts and be able to apply this understanding to business situations. 2. To demonstrate the need for a balance between financial and non-financial information in decision making, control and performance evaluation applications of management accounting; 3. To improve the knowledge of the students regarding operations of organisations through the application

		of management accountingtechniques
BBA-DSE I (B)	Income Tax	1. To introduce the basic concept of Income Tax. 2. To familiarize the students with heads of income with its components. 3. It should help students to build an idea about income from house property as a concept. 4. It gives more idea about the income from business or profession.
BBA-DSE I (C)	Financial Institution and Markets	1. To provide an introduction to the financial markets. 2. To analyze the role of financial markets for the broader macro economy. 3. To help them to understand the practical aspects of primary and secondary market operations. 4. The subject will help them in building career in stock market/broking houses.

BBA-DSE I (D)	Investment Management	1. To explore the theory and practice of investments, covering the topic areas of capital market structure, valuation, security analysis and portfolio management. 2. This subject will emphasize an understanding of the economic forces that influence the pricing of financial assets. 3. To understand of investment theory will be stressed and tied in with discussion of applicable techniques such as portfolio selection. 4. The subject will cover formulae that can be applied in different business situations, a primary objective of this course will be to learn the concepts behind the formula.
BBA-DSE II (B) Service Marketing		1. To provide the students with appreciation of concepts, functions, and techniques of the craft of marketing services. 2. To help them in demonstrating ability in evaluating service designs and in understanding of the challenges inherent in managing and delivering quality services. 3. To promote a customer service-oriented mindset. 4. To know the Service Sector and apply the 7 P's of Service Marketing. 5. Understand the consumer behaviour in Service Sector. Set standard and measure service quality and productivity
BBA-DSE II (C)	Retail Management	1. To provide Conceptual knowledge about rural marketing with special reference to Indian context. 2. They will understand the Rural

		market distribution. 3. To know about the consumer behaviour and trends in Rural marketing.
BBA-DSE II (D)	Brand and Product Management	1. Students should be able to apply the fundamental concepts of product and brand development and management. 2. Students should be able use the brand positioning framework to develop a brand, keep it relevant, expand a brand internationally, and reposition a brand. 3. To recognize the importance of using teams and organization to coordinate multiple interdisciplinary tasks in order to create and manage products within an organization. 4. Students should be able use portfolio analysis and the product life cycle to understand how a firm manages its product mix.
BBA-DSE III (A)	CAREER PLANNING & MANAGEMENT	1. Students should be able to Better manage your own careers in general and prepare your job search process in particular.

		2. Conceptualize, implement, and complete a project in a team. 3. Articulate awareness and insights about your strengths and growth areas and develop practical strategies to apply these insights in managing your own career development. 4. Identify and describe a career path that best suits your values, interests, personality, and skills. 5. Develop an in-depth understanding of theory and research in career development.
BBA-DSE III (B)	TRAINING AND DEVELOPMENT	The students should be able to understand the need for training and development and various methods of training and development.
		Possess the knowledge of various retail formats and value of induction process.
		They will understand the retail customer.
BBA-DSE III (C)	Management of Change	1. The students will understand the basic concept organisational change and its models 2. The students will aware about the

		strategies for change 3. The students will acquire knowledge about Organizational culture. 4. They will understand Issues in consultant-client relationship.
BBA-DSE III (D)	Management of Industrial Relations	1. 2. Establish and foster sound relationship between workers and management by safeguarding their interests. 3. Avoid industrial conflicts and strikes by developing mutuality among the interests of concerned parties. 4. Keep, as far as possible, strikes, lockouts and gheraos at bay by enhancing the economic status of workers. 5. Raise productivity in the organization to curb the employee turnover and absenteeism.. 6. To understand the concept of Industrial Relation and Trade Union
BBA-DSE IV (A)	Search Engine Optimization	1. The students will understand the Programmer and Search Engine Marketer 2. The students will aware about the

		basic SEO 3. The students will acquire knowledge about the causes and effects of duplicate content. 4. They will understand the technical analysis of Black-Hat Techniques.
BBA-DSE IV (B)	E-Commerce	1. Students are able to understand regarding the principles of office management 2. Learn about the authorities and responsibilities of an office manger 3. Students are able to understand about the importance of record in office and also learned about its maintenance
BBA-DSE IV (C)	Data Management System	1. Students are able to understand regarding the database management system 2. Learn about the data language, data models 3. Students are able to understand about the Entity relationship model and Database design and its process
BBA-DSE IV (D)	Software Engineering	1. To understand about the software engineering and software crisis. 2. Students are able to understand regarding the recent trends in

		software engineering 3. Students are able to understand Object Oriented Design using UML 4. To understand the concept of software documentation
BBA-DSE V (A)	Event Planning and Management	1. To obtain a sense of responsibility for the multi-disciplinary nature of event management 2. To gain confidence and enjoyment from involvement in the dynamic industry of event management 3. To identify best practice in the development and delivery of successful conference and corporate gatherings 4. To identify the key elements of a conference and the processes involved in venue selection, registration, catering, accommodation, transport, theming, security and entertainment 5. To identify management essentials such as developing budgets, critical paths, work breakdown structures, risk mitigation and contingency planning.
BBA-DSE V (B)	Financial Management of Events	1. To Identify the need of event financial management 2. To know about the elements which helps in Managing events 3. To know about the financial appraisal of event 4. To identify the categories for an event expenses 5. To identify the structure of event

		management fees
BBA-DSE V (C)	Event Resource Management	1. To understand the process of managing and marketing events from conceptualization, planning, and feasibility analysis to staging the event, and post event evaluation 2. To learn the concept of entertainment, its purpose, forms, its timing. 3. To know how performers work, their mindset, performance needs. 4. To get the knowledge of Décor design theory, their set up considerations prior to and after the event. 5. To identify how the electrical distribution works with regard to safety.
BBA-DSE V (D)	Event Proposal and Marketing	1. To understand the proposal request process. 2. To learn about how to make itinerary, its transportation costs sheet, company's profile. 3. To know about event promotion techniques, it's costing 4. To get the knowledge of that how the events design their

		promotion and sponsorship.
BBA-DSE VI (A)	Principle of Mass Communication	1. To understand the concept in Mass Communication 2. To learn about 7 C's of Communication 3. To know about the tools of Mass Communication 4. To get the knowledge of different models of Mass Communication 5. To know the theories of communication
BBA-DSE VI (B)	Public Relation Management	1. To understand the concept Public Relations 2. To learn about PR and its allied disciplines 3. To know about Public Relations in government and Private sector 4. To get the knowledge of IPRA code

BBA-DSE VI (C)	Media Management	1. To make students aware about the responsibilities, structure of Media Management 2. Students will be able to analyze individual media businesses and understand the Economic drivers of the media economy. 3. Students will have developed hands-on experience as content marketers using Journalistic and digital techniques. 4. Students will gain a perspective on the ownership patterns of mass media and evolution of media on key current trends and its media audiences.
BBA-DSE VI (D)	Corporate Communication	1. To understand the role of communication in traditional and modern media in development. 2. To discuss various paradigms of communication message development, channels, promotion strategies to be used. 3. To learn the Indian experiences in Communication for Development 4. To develop an understanding of the concept of communication budget, communication effectiveness. 5. To understand the guidelines related to corporate communication

Master of Business Administration (MBA)

Program Outcomes:

The students of MBA programme will have the theoretical and practical knowledge in the areas of Marketing, Finance, Human Resources Management, International Business and Retail Management which could be used in the corporate sector. MBA focuses on Leadership,

Analytical Thinking, Communication, Creativity which are the key demands of every single industry for success and enabling the students to seek a corporate career or satisfy their Entrepreneurial ambitions.All the MBA graduates are trained and groomed to think with a strategic bent of mind which will not be only helping them in business but in all spheres of life. Development of self-discipline in the students will gives rise to better management of time for getting an adequate time out for every activity.It also leads to the better acknowledgment of their abilities like – finishing the work within the time limit and thinking rationally to find out ways to get work done on time.

Programme Specific Outcome:

1. To inculcate knowledge in students with empirical learning.
2. To increasetactical understanding of vital principles of business administration.
3. To train the students for vibrant business environment and apply theirviewpoints through innovation and creativity.
4. To develop capabilities in qualitative and quantitative practices to analyze the business data.
5. To develop an understanding of economic, legal and socialenvironment of Indian business.
6. To train students with interpersonal skills and team work so as to enable them to manage andco-operate in varied work environments.
7. To inspire student on their professional development plans by reflecting on their first year's learning and Summer Internship experiences.

Course Outcome:

COURSE CODE	COURSE	COURSE OUTCOME
MBA-101	Management Practices & Organization Behaviour	After successful completion of this course , the students shall be able to: 1. Understand the various Concepts of Management. 2. Understand Planning, Organizing, Staffing, Directing and Controlling Functions of Management. 3.Understand of the Contemporary Management Practices in terms of Motivation and Communication. 4.Develop peer based Learning and Working in Groups and Teams.
MBA-102	Accounting for Management	After successful completion of this course , the students shall be able to: 1.Understand the basic Concepts, Principles and Process of Accounting and to make them aware about the formats of Financial Statements.

		2.Understand the concepts of Cost and various intricacies for preparing the Cost Sheet. 3.Understand the Decision Making Techniques using the concepts of Marginal Costing, Standard Costing And Budgetary Control. 4.Understand the contemporary developments in the Accounting.
MBA-103	Business Environment	After successful completion of this course , the students shall be able to: 1.Learn impact of Legal & Regulatory, Cultural, Political, Technological, Global And Natural Environment On Business Enterprise. 2.Understand the concept of Goods And Service Tax. 3.Discuss various development strategies in India.
MBA-104	Economic Analysis for Business Decisions	After successful completion of this course , the students shall be able to: 1.Understand the basic concepts of Economics and relate it with other disciplines and identify the importance of Economics in managerial decision making. 2.Recognize the relationship between Short-Run and Long-Run costs and will also be able to establish the linkage between Production Function and Cost Function 3.Compare and contrast four basic types of market i.e. Perfect, Monopoly, Monopolistic ,Oligopoly and can determine Price and Output under different market types. 4.Understand basic concepts of Macroeconomics and shall be able to measure National Income using different approaches.
MBA-105	QUANTITATIVE TECHNIQUES IN MANAGEMENT	After successful completion of this course , the students shall be able to: 1.Apply the concepts of Central Tendency and Variation in Managerial Decision Making 2.Understand the concept of Correlation Regression Analysis and their Applications. 3.Enhance knowledge in Probability Theory and Normality and its Distribution concepts 4.Apply the learnt techniques to build the best fit route of Transportation for carrying schedule of activities.

		5.Understand the concept of Linear Programming and their Applications.
MBA-106 (a)	Software Lab (Office Automation)	After successful completion of this course , the students shall be able to: 1.Learn basic Word Processing. 2.Learn Presentation, Graphics, Software skills. 3.Learn basic Spreadsheet and statistics formula used in Spreadsheet 4.Understand the concept of Database Management system 5.Understand basics of E-commerce.
MBA-107 (b)	Workshop on Executive Communication	After successful completion of this course , the students shall be able to: 1.Learn Communicate effectively. 2.Boost the confidence and help them to present their thoughts clearly. 3.Learn the role of body language as a non-verbal tool of communication 4.Learn presentation skills.
MBA-107	Seminar on Environmental Management	After successful completion of this course , the students shall be able to: 1. Develop an understanding towards basic presentation skills. 2.Understand the use of relevant and contemporary Software packages as part of the presentation. 3.Understand the various Environment Issues In Business Management.
MBA-201	Research Methodology	After successful completion of this course , the students shall be able to: 1.Understand Research Problem, Research Process and Research Methods. 2.Develop the skills to identify the appropriate Statistical Techniques for the analysis of data 3.Design a good Quantitative Purpose Statement and good Quantitative Research Questions and Hypotheses. 4.Understand the various types of Quantitative Sampling Techniques and conditions to use. 5.Understand effective Report Writing skills.
MBA-202	Marketing Management	After successful completion of this course , the students shall be able to: 1.Learn the basics of Marketing, Selling,

		Marketing Mix and its Core Concepts 2.Understand the intricacies of the Marketing Environment and Marketing Information Systems for effective Marketing Planning and Strategies. 3.Equip them self with necessary skills for effective Market Segmentation, Targeting and Positioning. 4. Understand the various components of Product Mix, Product Life Cycle and The New Product Development Process. 5. Gain knowledge about the emerging trends in Marketing.
MBA-203	Financial Management	After successful completion of this course , the students shall be able to: 1.Explain the Evolution, Objectives and Functions of Corporate Finance and Interface of Corporate Finance with other functional areas. 2.Illustrate the concept of Time Values of Money and Valuation of Securities. 3.Understand the applications of Approaches of Working Capital Management 4.Understand Mergers and Acquisitions, Motives, Legal Procedure and Evaluation.
MBA-204	Production& Operations	After successful completion of this course , the students shall be able to: 1.Understand growing importance of Production and Operations management in uncertain Business Environment. 2.Examine the issues related to Designing and Managing Operations 3.Understand the concepts of Inventory and Purchasing Management.
MBA-205	Management of Human Resources	After successful completion of this course , the students shall be able to: 1.Explain the basics of Human Resource Management and analyse the evolution of HRM 2.Appraise various functions of HRM that facilitate Employee Hiring viz. Human Resource Planning, Job Analysis Recruitment and Selection. 3.Understand the role of Training, Development, Career Planning and Performance Appraisal functions in Human

		Resource Development. 4.Facilitate the development of better understanding of Human Resources issues as they relate to other Managerial Functions.
MBA-206	Workshop on Tally.ERP 9	After successful completion of this course , the students shall be able to: 1.Become familiar with the Organization format of Tally ERP. 2.Use technology in managing the Accounts of a company. 3.Use information generated through tally software.
MBA-207	Seminar on Business Ethics	After successful completion of this course , the students shall be able to: 1.Develop an understanding towards basic presentation skills. 2.Use the relevant and contemporary software packages as part of the presentation. 3.Understand the environmental issues in Ethics and Ethical Dilemmas in Business Management.

COURSE CODE	COURSE	COURSE OUTCOME
MBA-301	Strategic Management	After successful completion of this course , the students shall be able to: 1.Focus on the link between Strategic Analysis and Strategic Management, Interdependence of Strategic Analysis. 2.Develop the skills of various perspective and concepts in Strategic Management. 3.Develop the skills for applying the concepts for solving business problems. 4.Use analytical tools of Strategic Management and business policy.
MBA-302	Project Management	After successful completion of this course , the students shall be able to: 1.Understand suitable framework for gaining insight in the Process of Preparation, Appraisal, Monitoring and Control of a Project. 2.Focuses on the role of Project Management Techniques and how to mobilize finance for domestic and international projects. 3.Understandthe underlying concepts, strategies and issued involved in the management of project's risk.
MBA-303	Advertising and Sales	After successful completion of this course , the

	Management	students shall be able to: 1.Understand Objectives, Nature & Scope, Sales Environment, Sales Planning, and Strategic role of Sales Management. 2.Analyzes the Sales Force, Recruitment, selection and training the sales force. 3. Understand Sales Planning, Sales Forecasting, Budgeting , Sales Quotas and Targets. 4.Understand Rules and Techniques of Effective Advertising
MBA-304	Consumer Behaviour	After successful completion of this course , the students shall be able to: 1.Understand Environmental Influences on Consumer Behavior 2.Illustrate Influence of Marketing Mix Variables, 3.Understand Individual Determinants of Consumer Behavior and formulation of Consumer Attitude.
MBA-305	Management of Industrial Relations	After successful completion of this course , the students shall be able to: 1.To understand various act related to Labour welfare. 2.Understand causes of industrial dispute and dispute settlement methods. 3.Have an insight into emerging trends in industrial relations and latest amendments in labour legislation.
MBA-306	Human Resource Development	After successful completion of this course , the students shall be able to: 1.Critically explain and apply the principles and methods of strategic workforce planning and its practical application in contemporary contexts. 2.Critically explain and apply the theoretical background and conceptual tools used in designing and implementing staff development programs/initiatives. 3.Demonstrate an in-depth understanding of the learning organization and its fundamental philosophy and practice. 4.Apply relevant theories and concepts to case examples or to their own workplace.
MBA-307	Security Analysis and Portfolio Management	After successful completion of this course , the students shall be able to: 1.Define the concept of investment management and different alternatives of investment 2.Understand the role of Risk – Return Framework and economy , industry and company analysis. 3.Discuss Technical Analysis and Capital Asset Pricing Model 4.Understand Portfolio Management.

MBA-308	Financial Services and Markets	After successful completion of this course , the students shall be able to: 1.Know about the meaning,importance and functions of financial system. 2.Understand financial markets money market and capital market. 3.To have an understanding of concept, nature and scope of financial services and financial institutions in India.
MBA-309	Production Planning and Control	After successful completion of this course , the students shall be able to: 1.Understand the problems and opportunities faced by the operations manager in Manufacturing And Service Organizations. 2.Develop an ability to apply PPC concepts in a various areas like Sampling Plans. Dispatching and Expediting, Recording progress and feedback. 3. Examine several classic Operations Management planning topics including production planning and inventory control.
MBA-310	Inventory Management & Control	After successful completion of this course , the students shall be able to: 1.Integrate operations concepts with other functional areas of business 2.Examine several classic Operations Management planning topics including inventory control, Safety Stock, Standard Order Quantity. 3.Understand various techniques related to inventory management such as Materials Handling & Warehouse Management and JIT.
MBA-311	Database Management System	After successful completion of this course , the students shall be able to: 1. Understand database concepts and structures and query language. 2.Understand the E R model and relational model 3. Design and build a simple database system and demonstrate competence with the fundamental tasks involved with modeling, designing, and implementing a DBMS. 4.Understand Functional Dependency and Functional Decomposition. 5.Apply various Normalization techniques.
MBA-312	Web Designing	After successful completion of this course , the students shall be able to: 1.Understand Static and Dynamic concepts of web designing.

		2.Introduce the basic elements of web page designing 3. Design web pages that apply various dynamic effects on the web site. 4.Solve complex and large problems using Scripting Language & Markup Language.
MBA-313	Foreign Exchange Management	After successful completion of this course , the students shall be able to: 1.Understand International Trade Policy and Foreign Exchange 2.Understand World Financial Environment ,Spot rate, Forward rate Direct & Indirect quote 3. Elaborate Economic, Transaction and Translation Exposure 4.Explain Multinational Cash Management. International Taxation.
MBA-314	Global Marketing Management	After successful completion of this course , the students shall be able to: 1.Understand emergence of Trading Blocks like E.U. and steps/stages involved in their formation (Customs union to common currency). 2.Express the role of International Institutions like IMF, WTO, IBRD 3.Analysis international Product life-Cycle, Promotion and Pricing in International marketing.
MBA-315	Management of Retail Organisation	After successful completion of this course , the students shall be able to: 1.Apply a broad theoretical and technical knowledge of Retail Management to understand opportunities and challenges for creating excellent retailing experience. 2.Make analysis of Market Information to assess the Retailing Environment and Formulate Effective Retail Strategies. 3.Learn how to procure, display and maintain merchandise to meet daily business requirements.
MBA-316	Store Management	After successful completion of this course , the students shall be able to: 1.Understand basics of Store Management and Roles and Responsibilities of Store Managers. 2.Make Critical analysis of Cost Controls - Labor scheduling, Store Maintenance, Reducing inventory shrinkage, 3.Understand Marked Area Analysis - Factors Affecting Attractiveness of Market Areas and Trade Areas.
MBA-317	Agricultural Finance	After successful completion of this course , the students shall be able to:

		1.Understand in detail about Agriculture Finance and International Trends in Agribusiness. 2.Learn legal formalities regarding issue loan and interest rate . 3.Understand role of Institutions in Agri-Finance - Public and Private Sector Banks.
MBA-318	Agricultural Marketing	After successful completion of this course , the students shall be able to: 1. Classify Agriculture markets, its components and dynamics of market structure. 2.Explain Packaging and its Impact on Selling. 3.Understand Marketing Channels: Distribution Channels, Marketing Agencies and Marketing Institutions.
MBA-401	Organisational Development & Change	After successful completion of this course , the students shall be able to: 1.Facilitate Organizational Change; and apply diagnostic models and concepts to change issues at the organizational, group and individual levels. 2.Understand concepts related to system theory, Action Research and Models, 3.Examine various issues in the relationship between Client and Consultant Relationship. 4.Understand the role of various Intervention strategies in Organizational Development.
MBA-402	Research Project Report in Major Areas of Specialisations	After successful completion of this course , the students shall be able to: 1.Gain deeper understanding in specific areas. 2.Develop Research Aptitude 3.Prepare project report with assigned topics. 4.Expand knowledge base with Literature Review on the current topic
MBA-403	Seminar on Project Report	After successful completion of this course , the students shall be able to: 1.Develop an understanding towards presentation skills. 2 Use the relevant and contemporary software packages as part of the presentation. 3.Apply research test to various problems pertaining to research area.
MBA-405	Marketing Research	After successful completion of this course , the students shall be able to: 1. Know about the Meaning & role of Marketing Research 2.Design Questionnaires & Observation forms for

		different Marketing Research Situations 3.Solve the case studies on Sampling Decisions like Defining Universe, Sampling Unit, Sampling Element, Choice of Sampling Frame, Determining Sample Size for Probability & Non-Probability Sampling Methods 4.Know about the Experimentation in Marketing Research and Interpretation of Data. 5.Test and develop Interpretation of the hypothesis with the techniques like Chi Square Test, Conjoint Analysis.
MBA-406	Digital Marketing	After successful completion of this course , the students shall be able to: 1.Understand fundamentals of Digital Marketing and difference between Traditional and Digital Marketing Communication. 2. Learn Online Consumer Behavior and Segmentation. 3.Explain E-CRM and approaches to its implementation. 4.Understand future challenges of Digital Marketing and E-Payment System.
MBA-407	Marketing of Services	After successful completion of this course , the students shall be able to: 1.Know about the Definition, Significance, Characteristics of Services 2.Frame Extended Marketing Mix for Services, Traditional Marketing Mix Elements in Services 3.Explain Service Process 4.Illustrate People & Physical Evidence 5.Demonstrate Applications of Service Marketing: like Tourism, Hospitality, Airlines, etc.
MBA-408	International Logistics	After successful completion of this course , the students shall be able to: 1.Prepare, explain Logistics Documentation like Commercial Invoice, Certificate of Origin, Bill of Lading 2.Explain Modes of transportation, Air Cargo, Major Ports in India and Important Sea Routes of world, concept of Containerization, Inland Container Depots & Container Freight Stations 3.Compare and explain Types of Ships and Explain Shipping Formalities and Function and Roles of Shipping Intermediaries 4.Understand Freight and Carriage of Goods by Road, Rail, Air and Sea.
MBA-409	Rural Marketing	After successful completion of this course , the students shall be able to:

		1.Gain Conceptual knowledge about rural marketing with special reference to Indian context 2.Understand the Rural Market Distribution 3.Know about the Consumer Behaviour and Trends in Rural Marketing.
MBA-410	Data Communication & Computer Network	After successful completion of this course , the students shall be able to: 1.Have a good understanding of the OSI Reference Model and in particular have a good knowledge of Layers 2.Analyze the requirements for a given organizational structure and select the most appropriate networking architecture and technologies 3.Have a basic knowledge of the use of cryptography and network security; 4.Specify and identify deficiencies in existing protocols, and then go onto formulate new and better protocols 5.Have an understanding of the issues surrounding Mobile and Wireless Networks. 6.Security Attacks and Security mechanism,virus and worms.
MBA-411	PHP Programming	After successful completion of this course , the students shall be able to: 1. Understand how server-side programming works on the web. 2. PHP Basic syntax for variable types and calculations. 3.Creating conditional structures. 4.Storing data in arrays. 5. Using PHP built-in functions and creating custom functions. 6.Understanding POST and GET in form submission.
MBA-412	Software Engineering	After successful completion of this course , the students shall be able to: 1.Aware about the engineering approach to analysis, design and built the software 2. Understand the phases and activities involved in the software life cycle models 3.Analyse problems, and identify and define the computing requirements appropriate to its solution. 4.Apply design and development principles in the construction of software systems of varying complexity 5. Apply current techniques, skills, and tools necessary for computing practice. 6. Apply various testing techniques to test a software

		7.Measure various characteristics of software. 8.Compare and choose between maintenance and reengineering of software, when there is requirement to make changes in the software.
MBA-413	RDBMS	After successful completion of this course , the students shall be able to: 1.Understand database concepts and structures and query language. 2.Understand the E R model and relational model 3.Design and build a simple database system and demonstrate competence with the fundamental tasks involved with modeling, designing, and implementing a DBMS. 4.Understand Functional Dependency and Functional Decomposition. 5.Apply various Normalization techniques.
MBA-414	Enterprise Resource Planning	After successful completion of this course , the students shall be able to: 1.Make basic use of Enterprise software, and its role in integrating business functions 2.Analyze the strategic options for ERP identification and adoption. 3. Design the ERP implementation strategies. 4.Create reengineered business processes for successful ERP implementation. 5.Basics of SCM and E-Business.
MBA-415	Management of Financial Institutions	After successful completion of this course , the students shall be able to: 1.Understand Financial Institutions in India and their role in economic development. 2.Discuss models and concept of micro and non-banking finance companies. 3.Elaborate growth of Insurance Industry in India.
MBA-416	Banking & Insurance Management	After successful completion of this course , the students shall be able to: 1.Understand basic concepts and functions of banking and KYC norms and operations. 2.Understand Universal Banking, ADR and GDR. 3.Explain Insurance Business Environment in India and regulations of IRDA.
MBA-417	Management Control Systems	After successful completion of this course , the students shall be able to: 1.Discuss basic Concepts And Domain Of Management Control. 2.Explain responsibility centres and informal and formal control systems.

		3.Analyse Financial Performance Report and Management Control Of Multinational Companies.
MBA-418	Management of Working Capital	After successful completion of this course , the students shall be able to: 1.Define and understand the importance of working capital. 2.Identify the optimum sources of financing working capital needs. 3.Learn the techniques of managing cash flows. 4.Learn to manage the components of the working capital efficiently in order to minimise the cost and maximise the profit of the business firm.
MBA-419	Corporate Tax Planning	After successful completion of this course , the students shall be able to: 1.Understand the Income Tax Act, 1961 – Definitions and concepts (Section1 to 4), Scope of Total income and Residential Status. 2.Learn about Deductions to be made in Computing Total Income of Company, Deduction of Tax at Source. 3.Know about various Tax Planning Decisions with regard to Capital Structure, Bonus Shares & Dividend Policy, Make or Buy Decision, Own or Lease, Closure or Continue and Repair or Renewal, Online Filing of Return.
MBA-420	International Financial Management	After successful completion of this course , the students shall be able to: 1.Elaborate concepts and role of International Finance manager in a MNC. 2.Understand Role of IMF, IBRD and Development banks. 3.Explain Multinational Fund Flows and Country Risk Analysis. 4.Express International Investment Management, Mergers and Acquisitions.
MBA-421	Material Planning and Inventory Management	After successful completion of this course , the students shall be able to: 1.Understand the Elements of Inventory Management, Types of inventory and Role of inventory in Operations. 2.Elaborate Inventory costs, Carrying costs, Ordering costs, Shortage costs in Inventory Management. 3.Elaborate the concept of Economic Order Quantity Models based on Reorder Point, Safety Stocks, Service Level and order size.
MBA-422	Management of	After successful completion of this course , the

	Logistics	students shall be able to: 1.Understand Geo-Market dynamic Logistical operation and network. 2.Explain different transportation modes and their pros and cons. 3.Describe Material Handling including Warehousing and Packing.
MBA-423	Plant Design & Layout	After successful completion of this course , the students shall be able to: 1.Discuss types of building and importance of ideal building. 2.Elaborate Plant Layout, Designing Process Layout and Line Balancing Concepts. 3.Understand Material Handling System and classification of Material Handling Concepts.
MBA-424	Total Quality Management	After successful completion of this course , the students shall be able to: 1. Understand methods and history of TQM. 2.Express Reliability of Quality characteristics and Quality directors. 3.Understand JIT, its cause and effects.
MBA-425	Technology Management	After successful completion of this course , the students shall be able to: 1.Understand various aspects and issues of Technological Change and Innovation. 2.Elaborate Technology Acquisition and alternatives for acquiring new Technology. 3.Discuss Technological Environment in India and role of various Government Organizations such as DST.
MBA-426	Compensation Management	After successful completion of this course , the students shall be able to: 1.Understand Compensation Management in Organization, factors affecting compensation system in Organization. 2.Understand the types of Grade and Pay Structures for Organizational Performance. 3.Elaborate Govt. and Legal issues in Compensation System, National Wage Policy.
MBA-427	Social Security and Labour Welfare	After successful completion of this course , the students shall be able to: 1.Comprehend the meaning of Labour Welfare. 2.Learn about various legislations regarding wages and compensation to be paid to labour . 3.Understand provisions relating to Provident Fund and Gratuity .
MBA-428	Industrial Psychology	After successful completion of this course , the

		students shall be able to: 1.Understand the basic concepts of Psychology. 2.Learn about the concept of Individual Differences. 3.Elaborate Organisation Stress and managing Stress.
MBA-429	Management of Training and Development	After successful completion of this course , the students shall be able to: 1.Learn Meaning and importance of Training 2.Understand the role and challenges to Training Managers. 3.Familiarize with new trends in training methods and their effectiveness..
MBA-430	Cross Cultural Issues in Global Management	After successful completion of this course , the students shall be able to: 1.Understand the concept of International Cultural Environment, Comparison of Cross-cultural 2.Elaborate Cross Cultural Communication and Negotiation 3.Elaborate Ethics in International Business 4.Understand the concept Diversity at Work, Managing diversity and Causes of diversity.
MBA-431	International Economic Environment	After successful completion of this course , the students shall be able to: 1.Understand International Economic Organisation 2.Elaborate stages of Economic Integration and factors affecting Economic Integration. 4.Have Understanding of various Regional Blocks.
MBA-432	International Financial Management	After successful completion of this course , the students shall be able to: 1.Know about the operations in Capital Budgeting and its use for MNCs 2.Describe complexities of managing finance of multinational firm, currency and interest rate risk management 3.Understand the regulatory framework within which the operations can take place 4. Know about key elements and issues of International Taxation.
MBA-433	Foreign Trade Policy and Documentation	After successful completion of this course , the students shall be able to: 1.Know about the significance of Procedures and Documentation in International Trade, the Procedures and Documentation as Trade Barriers. 2.Elaborate the official machinery for trade Procedures and Documentation, methods of payment in International Trade, realization of Export proceeds – provisions of RBI's, Export Promoting Institutions,

		Pre-shipment and Post Shipment 3.Define the Export Order Processing & Export Price Quotations, role of Forwarding Agents; Cargo Insurance and Claim Procedure.
MBA-434	Global Human Resources Management	After successful completion of this course , the students shall be able to: 1.Explain forms of International HRM and its functions. 2.Describe Global Workforce Management and Organizational renewal. 3.Understand Structural Evaluation of Global Organization and Cross Cultural Communication.
MBA-435	Foreign Language for Business	After successful completion of this course , the students shall be able to: 1.Explain Definite & Indefinite articles 2.Describe Conjunction of verbs of the first and second groups 3.Understand Comparative adjectives, superlatives, possessive pronouns, personal pronoun.
MBA-436	Supply Chain Management	After successful completion of this course , the students shall be able to: 1.Understand Concept & Definitions of Supply Chain, Supply Chain Structure, distribution management in SCM 2.Explain Role of SC as a value driver : Integrative Management, Responsiveness, Financial Sophistication 3.Study impact of Globalization & Technological revolution in Supply Chain management.
MBA-437	Merchandising Management	After successful completion of this course , the students shall be able to: 1.Discuss needs and importance of Visual Merchandising. 2.Explain the Psychological effects of Colours and identify basic colour schemes. 3.Critical analysis of Ethical and Legal issues in Merchandise Purchasing and Pricing Strategies.
MBA-438	Sales and Distribution Management	After successful completion of this course , the students shall be able to: 1.Explain Objectives, Nature & Scope, Sales Environment, Sales Planning, Strategic role of sales management, Sales Planning and Sales Forecasting & Budgeting, Sales Quotas and Targets, 2.Define Marketing Channels and Functions and Significance, Structure -Vertical and Horizontal, Symbiotic, Role of marketing channels in the dynamic market place

		3.Explain Reporting Formats for Primary and Secondary Sales, Monthly Sales Plan, Territory Sales and Coverage Plan, Daily Sales Call Report.
MBA-439	Consumer Behaviour in Retailing	After successful completion of this course , the students shall be able to: 1.Understand Consumer Behavior and Decision Making Process. 2.Explain types of groups and family influence on decision making. 3.Understand Gaps Model of Service Quality
MBA-440	Customer Relationship Management	After successful completion of this course , the students shall be able to: 1.Fundamentals concepts in Relationship Marketing. 2.Role of CRM in various sectors 3.Sales promotion and public relations and determining promotional budget.
MBA-441	Agribusiness Supply Chain Management	After successful completion of this course , the students shall be able to: 1.Evaluation of Supply chain management and its significance. 2.Understand Inventory management, EOQ,ABC Inventry Control System 3.Elaborate the use of IT in supply chain management.
MBA-442	Rural Marketing	After successful completion of this course , the students shall be able to: 1.Understand the basic Rural Market Environment. 2.Describe Rural Demand and Rural Market Index. 3.Explain the role of Corporative Institutions in Rural Marketing.
MBA-443	Rural Development and Agriculture Extension	After successful completion of this course , the students shall be able to: 1.Understand Rural Environment in India and comparison between rural and urban business environment. 2. Learn about various development programs such as Food for worker, IndraAwaasYojna and NREGA Yojna. 3.Understand Agencies for Rural and Agriculture development.
MBA-444	Farm Business Management	After successful completion of this course , the students shall be able to: 1.Elaborate the concept of Farm management in India. 2.Understand tools of Farm Management Analysis 3.Explain the Classification and Composition of Farm Labour, Labour Problem Under Indian Conditions.

The Program Specific Outcomes and Course Outcomes of all the Programmes

Program Name: BACHELOR OF VOCATION (RETAIL MANAGEMENT)

Learning Objectives:

The students of B VOC (RETAIL MANAGEMENT) will get real world understanding of the Retail Sector. This course prepares the students for a promising career in the Retail Sector. In this course students will gain exposure to Retail Management, Visual Merchandising, Store Management, Sales management, billing procedures in retail, warehousing, logistic management, supply chain management, computer applications and communication skills.

Programme Specific Outcome:

1. To use the flexibility to opt for three-year degree program after completion of 1st and 2nd year.
2. To get a diploma after the completion of 1st year and at the same time gain the benefit of employability at the entry level in any small or medium or large-scale retail organization.
3. To get an advanced diploma after the completion of 2nd year and at the same time gain the benefit of employability in any medium or large-scale retail or logistics organization.
4. To acquire practical application in retail business based on theoretical knowledge acquired through curriculum.
5. To gain an understanding of both the retail and logistic components that is evenly distributed across the six semesters.
6. To convert the theoretical knowledge into skill through internships and field works.
7. To develop an interest in the subjects of retail management.

Course Outcome:

COURSE CODE	COURSE	COURSE OUTCOME
BVR- 103	Retail & Store Management	**After successful completion of this course, the student shall be able to:** Understand the overview and aspects of retail stores and types of retail stores. Learn the concept of merchandise management and process of store opening Know about store layout, SCM, and

		responsibilities of store manager
BVR- 104	Retail Consumer Behaviour	**After successful completion of this course, the student shall be able to:** Create a positive image of product, services, and organization in the customers' mind. Understand consumer buying process and motivational aspects. Demonstrate products to customers according to their needs and motives. Know the aspects of consumer perception, learning, and personality.
BVR-105	Customer Relationship Management	**After successful completion of this course, the student shall be able to:** Understand the concept of customer relationship management. Resolve customer concerns and to improve customer relationship. Understand how to meet with customers' expectations. Understand the emerging perspectives in CRM.
BVR- 201	Business Communication	**After successful completion of this course, the student shall be able to:** Communicate effectively. Present their thoughts eloquently. Learn the role of body language as a non-verbal tool of communication. Face interviews with confidence. Learn the technicalities of presentation skills.
BVR- 202	Fundamentals of Accounting	**After successful completion of this course, the student shall be able to:** Learn the basics of accounting terminology and comprehensive knowledge of maintenance of accounts. Apply the accounting concepts and conventions to maintain the business records. Learn about the various subsidiary books used in retail business. Understand the preparation of financial statements.
BVR- 203	Store display & visual Merchandising	**After successful completion of this course, the student shall be able to:** Know about the Store merchandise handling and basics of Visual Merchandising.

		Understand the accessories, equipment, and hygiene of display area. Know about safe transfer of merchandise to display area. Learn about the assembling of products before display.
BVR- 204	Sales Management	**After successful completion of this course, the student shall be able to:** Gain knowledge about products and services, and retail competitions. Maintain the availability of goods, and manage waste material. Understand the concept of point of sale (POS) and various modes of payments.
BVR-205	Organization and Team Dynamics	**After successful completion of this course, the student shall be able to:** Understand the concepts of Company Vision, Mission, and Policies. Know the tactics of effective communication in an organization. Learn about how to work effectively in a Retail Team.
BVR- 302	Introduction to Accounting	**After successful completion of this course, the student shall be able to:** Learn the basics of accounting terminology and comprehensive knowledge of maintenance of accounts. Apply the accounting concepts and conventions to maintain the business records. Learn about the various subsidiary books used in retail business. Understand the preparation of financial statements.
BVR- 303	Marketing Management	**After successful completion of this course, the student shall be able to:** Understand the basics of marketing, selling, marketing mix and its core concepts. Know about the different ways of promoting products and increasing sales and promotions. Understand the process of new product development. Get knowledge about the emerging pricing methods and new channels of marketing. Develop necessary skills for effective market segmentation, targeting and positioning.

BVR- 304	Economics for Retail Managers	**After successful completion of this course, the student shall be able to:** Understand basics of business economics. Develop an understanding of law of demand and elasticity of demand and its determinants. Provide a detailed analysis of the cost and revenues in business. Understand the term break even analysis and profit forecasting. Understand the Price and Output Determination in different market structures.
BVR- 401	Introduction to Research Methodology	**After successful completion of this course, the student shall be able to:** Understand the research process and types of research, and sampling methods. Understand the various methods of data collection and other observational techniques. Know the mechanics of writing a good research report and evaluation of reports.
BVR- 402	Macro Economics for managers	**After successful completion of this course, the student shall be able to:** Understand basic macroeconomic concepts. Apply economic analysis in the formulation of business policies. Analyze the various stages of trade cycles in economy.
BVR- 403	Business Environment	**After successful completion of this course, the student shall be able to:** Understandthe micro and macro environment Understand the economic systems & Globalisation. Understand WTO and technology transfer in India.
BVR-GE (I)	Business Ethics	**After successful completion of this course, the student shall be able to:** Learn about business ethics and code of conduct for Business. Understand the role of Corporate Social Responsibility. Understand about various legal, economic and ethical dimensions of business. Apply the principles of corporate governance in business operations.
BVR-GE (II)	Entrepreneurship Development	**After successful completion of this course,**

		the student shall be able to: Understand the concept of entrepreneurship and factors influencing entrepreneurship. Know the various types of entrepreneurs. Identify the financial help provided by Govt., Banks and other institutions for start-ups. Identify business opportunities and challenges faced by the entrepreneurs.
BVR-GE (III)	E-Commerce	**After successful completion of this course, the student shall be able to:** Learn the information systems being used in business and management. Assess the impact of the Internet and Internet technology on business, electronic commerce and electronic business. Functioning of e-payment systems.
BVR- 501	Total Quality Management	**After successful completion of this course, the student shall be able to:** Understand the concept and dimensions of quality. Evaluate the principles of quality management and how these principles can be applied within quality management systems. Critically appraise the organisational, communication and teamwork requirements for effective quality management.
BVR- 502	Retail Consumer Behavior	**After successful completion of this course, the student shall be able to:** Create a positive image of product, services, and organization in the customers' mind Understand consumer buying process and motivational aspects Demonstrate products to customers according to their needs and motives Know the aspects of consumer perception, learning, and personality
BVR- 503	Mall Management	**After successful completion of this course, the student shall be able to:** Understand the dynamics of mall management. Understand different types of malls and determinants of designing of the malls.

		Analyse the growth of malls in India and revenue model of shopping malls. Know about the strategic decisions regarding financing and leasing administration**.**
BVR-DSE(I)	Merchandise Planning and buying	**After successful completion of this course, the student shall be able to:** Explain how retailers forecast expected sales for merchandise categories. Summarize how retailers plan about the merchandise and maintain requisite inventory levels. Explore the techniques used to evaluate merchandising decisions. Learn about how retailers decide on merchandise allocations.
BVR-DSE(II)	Business Law	**After successful completion of this course, the student shall be able to:** Demonstrate an understanding of the Legal Environment of Business. Learn the application of basic legal knowledge to business transactions. Understand provisions of various laws used in retail industry while dealing with customers and vendors.
BVR-DSE(III)	Negotiation Skills	**After successful completion of this course, the student shall be able to:** Understand fundamentals of negotiation skills and to apply these concepts in the formulation of business policies. Learn the nature, role and tactics of negotiation and its process. Understand how culture affects negotiation.
BVR-DSE(IV)	Production and Operations Management	**After successful completion of this course, the student shall be able to:** Learn the Role & Responsibilities of operations manager. Understand Product Planning and Design. Understand productivity techniques.

		Understand Inventory Management
BVR-DSE(V)	Advertising and Sales Management	**After successful completion of this course, the student shall be able to:** Describe different types of advertisement and to Identify key players in advertising industry. Discuss the ethics in advertisement and it helps the students in Identifying and taking decisions regarding the most feasible advertising appeal and media mix Understand pre-testing, post testing and concurrent testing of ads to determine their effectiveness.
BVR-DSE(VI)	Inventory Management	**After successful completion of this course, the student shall be able to:** Understand Inventory Management & Control Policy. Learn Material requirement planning. Understand the modern Inventory Management Techniques and Manufacturing Systems.
BVR-DSE(VII)	Retail Logistic Management	**After successful completion of this course, the student shall be able to:** Understand Logistics Management and Physical Distribution Learn Transportation and Freight Management. Learn Containerisation and Interstate tariffs and documentation.

Program Name: Bachelor of Arts (BA)

Learning Objectives:

The students of BA will acquire knowledge about all the major genres, forms and styles of Literature. The course will enable the students to understand the literature belonging to variousages and to be able to analyze and interpret the same. They will become equipped to deliver and understand the English language and various Literature genres such as prose, poetry, drama, etc thoroughly. The students will become familiar with the social, cultural, political and intellectualbackgrounds of the various periods in literary history. The program will also provide a holistic grooming of communication skills in Englishencompassing speaking skills, writing skills, listening skills and reading skills and will encourage students towards self-expression. The learning of the art of communication will greatly help the students to empower themselves and

build a confident personality which acts as a key to establish oneself in professional field these days.

Programme Specific Outcome:

1: Writing Skills

Graduating seniors will construct clear, grammatical sentences and produce well-organized texts that exhibit an attention to audience, genre, and purpose and that follow the conventions of logical argumentation**.**

2: Diverse Genres

Graduating students will use the conventions of diverse textual genres (e.g., the nonfiction essay, poetry, proposals, autobiography, novel, memoir, film, plays, editorials, and so forth) in their own work and will explain and evaluate the use of these conventions in the work of other writers.

3: Literary/Rhetorical Strategies

Graduating seniors will identify, employ, and interpret the literary and rhetorical methods and strategies that inform English as a discipline in their reading and writing of texts.

4: Theoretical Terms, Concepts

Graduating seniors will define, apply, and integrate theoretical terms, concepts, and perspectives important to English as a discipline in their own work and will identify and analyze them in the work of other writers.

5: Information Literacy

Graduating seniors will demonstrate the ability to find, select, assess, and analyze information sources, both print and electronic, and to credit, integrate, and synthesize those sources in their own work.

6. Develop communication skills:

The students will showcase the art of effective communication and the traits to develop an impressive personality. They would demonstrate themselves confidently and also face the interviews, group discussions, etc without any hesitation.

Course Outcome:

Course Code	Course	Course Outcome
BA 103	English Communication Skills	After the completion of the course, the students: 1. Can illustrate and explain the process of communication. 2. Can compose, write and speak complete and meaningful ideas. 3. Can use Grammar efficiently,effectively and appropriately according to the situation.
BA 104	English Literature	After the completion of the course, the students: 1. Can illustrate and analyseEnglish

		prose. 2. Can compose, write and speak complete and meaningful ideas. 3. Can understand the various literary genres.
BA 105	Functional English	After the completion of the course, the students: 1. Can enhance their writing skills 2. Can develop their english language skills in speaking,reading and writing. 3. Can Expand their use of grammatically correct and situationally appropriate language in speaking and writing.
BA 105	Functional English (P)	After the completion of the course, the students: 1. Can develop their english language skills in speaking,reading and listening. 2. Can Expand their use of grammatically correct and situationally appropriate language in speaking.
BA 203	English Communication Skills	After the completion of the course, the students: 1. Can illustrate and explain the process of communication. 2. Can compose, write and speak complete and meaningful ideas. 3. Can use Grammar efficiently,effectively and appropriately according to the situation.
BA 204	English Literature	After the completion of the course, the students: 1.Can analyse the different kinds of prose writings with an eye to their form and content. 2. Can acquire knowledge of the history of english prose writings. 3. Can improve their pronunciation.
BA 205	Functional English	After the completion of the course, the students: 1.Can make difference between

		various Accents. 2. Can develop their english language skills in speaking,reading and writing. 3. Can transcribe the words using IPA symbols.

Course Code	Course	Course Outcome
BA 303	English Communication Skills	After the completion of the course, the students: 1. Can illustrate and explain the process of communication. 2. Can compose, write and speak complete and meaningful ideas. 3. Can use Grammar efficiently,effectively and appropriately according to thesituation.
BA 304	English Literature	After the completion of the course, the students: 1.Can analyse the different kinds of Live Performances. 2. Can acquire knowledge of the history of English Drama. 3. Can get acquainted with important Literary texts of these Ages.
BA 305	Functional English	After the completion of the course, the students: 1. Can apply english skills in a variety of contexts. 2. Can write academically. 3. Can demonstrate behavior and attitudes appropriate to social environment.
BA 323	English Honours	After the completion of the course, the students: 1.Can understand the impact of History on Literature. 2. Can acquire knowledge of the various literary devices. 3. Can improve their Cognitive abilities.
BA 403	English Communication Skills	After the completion of the course, the students: 1. Can improve their writing skills. 2. Can read and compose complete

		and meaningful ideas. 3. Can use Grammar efficiently,effectively and appropriately according to thesituation.
BA 404	English Literature Module-I: The Study of Classics Module-II: Elementary Linguistics Module III: English Journalism: Reporting, Editing and Writing	After the completion of the course, the students: 1.Can analyse the different kinds Genres. 2. Can acquire knowledge of the history of English Literature 3. Can acquaint students with important Literary Masterpieces. After the completion of the course, the students: 1.Can analyse the different components of Linguistics 2. Can acquire knowledge of the Sentence Formation. 3. Can acquaint students with the various branches of Linguistics. After the completion of the course, the students: 1. Can join Radio Stations and News Agencies. 2. Can Compose News, Reviews and Articles for Magazines. 3. Can conduct Interviews of celebrities and other renowned public figures.
BA 405	Functional English	After the completion of the course, the students: 1. Can conduct and face interviews. 2. Can speak formally on any situation in public. 3. Can improve their formal writing skills.
BA 423	English honours	After the completion of the course, the students: 1.Can understand the impact of History on Literature. 2. Can acquire knowledge of the various literary devices. 3. Can improve their cognitive abilities.

Course Code	Course	Course Outcome
BA 503	English Communication Skills	After the completion of the course, the students: 1.Can improve their writing skills. 2.Can read and compose complete and meaningful ideas. 3.Can use appropriate vocabulary in writing various forms of compositions.
BA 504	English Literature	After the completion of the course, the students: 1.Can analyse the different kinds Genres. 2. Can acquire knowledge of the history of English Literature 3. Can acquaint students with important Literary Compositions.
BA 505	Functional English	After the completion of the course, the students: 1. Can join Radio Stations and News Agencies. 2. Can Compose News, Middles and Articles for Magazines. 3. Can conduct Interviews of celebrities and other renowned public figures.
BA 523	English Honours	After the completion of the course, the students: 1.Can understand the impact of History on Literature. 2. Can acquire knowledge of the various literary devices. 3. Can improve their Cognitive abilities.
BA 603	English Communication Skills	After the completion of the course, the students: 1.Can improve their writing skills. 2.Can read and interpret meaningful ideas in Poetry. 3.Can use appropriate vocabulary in writing various forms of compositions.

BA 604	English Literature Module-I: Study of Classics	After the completion of the course, the students: 1.Can analyse the different kinds of Genres. 2. Can acquire knowledge of the history of English and Indian Literature 3. Can acquaint with important Literary Terms.
	Module-II: Phonetics of English	After the completion of the course, the students: 1.Can analyse and understands the different kinds of Accents. 2. Can acquire knowledge of the formation of sounds. 3. Can improve their Pronunciation.
	Module III: English For Journalism: Public Relations And Advertising	After the completion of the course, the students: 1. Can understand the structure and functioning of Advertising Agencies. 2. Can defining Public relations with its various aspects. 3. Can understand the circulation of newspapers and various factors involved in it.
BA 605	Functional English	After the completion of the course, the students: 1. Can understand the structure and functioning of Advertising Agencies. 2. Can defining Public relations with its various aspects. 3. Can understand the circulation of newspapers and various factors involved in it.
BA 623	English Honours	After the completion of the course, the students: 1.Can understand the impact of History on Literature. 2. Can acquire knowledge of the various literary devices. 3. Can improve their Cognitive abilities.

Program Name: B.A. (Honours) English

Learning Objectives:

The coursework of B.A. (Honours) English exposes students to a wide range of writing from British, American, Indian and Anglophone traditions. It helps students to explore how writers use the creative resources of language -- in fiction, poetry, nonfiction prose, and drama -- to inculcate the entire range of human experience. It enables students to read a variety of texts critically and proficiently and also helps them to demonstrate, in writing or speech, comprehension, analysis, and interpretation of those texts.

It will allow the students to strive, to be imaginative and technically proficient and as a result, to gain a deeper insight into life. Apart from developing these skills, the English Honours course will help the students to become more effective thinkers and communicators who are well-equipped for a variety of careers in the society.

Programme Specific Outcomes:

1. To introduce the students to major genres, styles and forms of Literature.
2. To enable the students to understand the literatures belonging to various ages and to be able to analyze and interpret the same.
3. To deliver knowledge and understanding of English Language and Literature in totality.
4. To introduce the students to the social, cultural, political and intellectual backgrounds of the various periods in literary history.
5. To encourage the students towards self-expression.
6. To provide a holistic grooming of communication skills in English encompassing speaking skills, writing skills, listening skills and reading skills.

Course Outcome:

Course Code	Course	Course Outcome
BHE 101	Indian Classical Literature	1. This course will provide knowledge to the students about the important concepts, themes and traditions through the study of influential classical texts from the ancient world. 2. It will create awareness among the students of the rich and diverse literary cultures of ancient India.

		3. The students will acquaint themselves with some of the greatest masterpieces of the Indian classical literature. 4. It will enhance the ability of the students to read the texts critically and proficiently. 5. It will enable the students to distinguish between the essential features of Literature – that remain central to literary creation across time and space.
BHE 102	European Classical Literature	1. This course will enable the students to become aware of the literary cultures of Augustan Rome and Athens. 2. It will introduce the students to the various literary terms and its implementation and significance in European writing. 3. It will acquaint the students with the origin of the European Canon. 4. It will enhance their ability to interpret the translated works and provide them with an understanding of the significance of how translation bridges cultures across the world. 5. The students will be able to discover the best of the ethical, ideological and cultural elements from the wide gamut of classical texts from across cultures. 6. It will introduce the students to some of the best poetry and drama of European classical literature.
BHE 104	Academic Writing and Composition	1. The students will be able to plan and structure their writing effectively. 2. It will enable the students to employ various learning strategies to build grammatical accuracy and vocabulary range. 3. The students will be able to demonstrate an understanding of the connection between writing and thinking and use writing and reading for inquiry, learning, thinking and communicating in an academic setting.

		4. It will enable the students to communicate their ideas effectively and coherently. 5. The students will be able to demonstrate skills in using the conventions of academic writing, including appropriate use of referencing and citations.
BHE 201	Indian Writing in English	1. The students will be able to evaluate the literary, cultural, historical and political impact of the works of Indian writers in English and thereby understand their role in bringing about social awareness and transformation. 2. The students will be able to comprehend the evolution of Indian Writing in English from the colonial phase till the present. 3. It will provide students a deeper understanding of the major traditions and values of India. 4. It will enable the students to analyze and appreciate the idea of 'Indianness' and 'Indian sensibility' inscribed in the works of Indian writers in English. 5. It will enable the students to critically appreciate various Indian English short stories, poems and novels.
BHE 202	British Poetry and Drama: 14^{th} to 17^{th} Century	1. This course will acquaint students with major religious, political and social movements from fourteenth to seventeenth centuries and their influence on British Literature. 2. It will introduce the students to British poetry and drama from the age of Chaucer to the Jacobean age. 3. It will enable the students to critically appreciate various literary works of the prescribed period. 4. It will acquaint students with the origin and

		growth of drama in England. 5. The students will be able to analyze and appreciate the representative works of Elizabethan and Jacobean drama with respect to its plot, character, dialogue, theme, characters, etc.
BHE 204	Media and Communication Skills	1. The students will be able to comprehend the significant role of media as a platform which can create awareness about the social issues. 2. The students will become knowledgeable about the language and intricacies of the art of advertising through practical training. 3. It will raise their level of confidence in critical analysis and research in creative works of writing. 4. It will acquaint students with the process and practice of writing for the media. 5. The students will be able to opt for careers in journalism and media, cultural and creative industries, publishing industries like digital design, digital journalism and the field of advertising and marketing.
BHE 301	American Literature	1. The students will be acquainted with the various historical, cultural, political and intellectual developments that shaped the Literature of America. 2. It will enable the students to appreciate the different forms and styles of American poetry. 3. It will acquaint students with social realism and folklore in American Literature. 4. To understand the historical background of American Literature and the American dream. 5. To familiarize the students with cultural, ethnic, racial and gender disparity in America and its effect on American Literature. 6. To acquaint the students with the evolution and development of American Literature from

		the colonial period to present times.
BHE 302	Popular Literature	1. The students will be introduced to various genres such as romance, detective fiction, fantasy which can help them to gain a better understanding of the popular roots of literature. 2. It will educate the students about how gender functions in the social context and how it affects Literature. 3. It will educate students about ethics and education in children's literature. 4. The students will be acquainted with the distinct characteristics of Popular Literature. 5. It will enable the students to understand the various concerns and prejudices of the contemporary times as represented in the popular Literature.
BHE 303	British Poetry and Drama: 17^{th} and 18^{th} Century	1. It will acquaint students with the seventeenth and eighteenth century British poetry and drama. 2. The students will be able to critically analyze the literary texts from the prescribed literary period. 3. They will be able to understand different features of Neoclassicism and its influence on English society. 4. It will make students adept in their knowledge and use of poetic devices and common techniques involved in poetry. 5. It will enable the students to understand how society and culture played a significant role in the lives and careers of the writers of the age.
BHE 304	Text and Performance	1.The students will be able to appreciate the difference between drama and other genres of Literature. 2. The students will be able to demonstrate an

		understanding of the social and artistic movements that have shaped theatre as we know it today. 3. The students will be able to develop practical skills related to the theory and practice of theatre arts. 4. It will allow the students to integrate and synthesize skills, knowledge and processes into realizing a performance. 5. It will equip the students with an understanding of Alienation Effect, the theory of Rasa, etc.
BHE 305	English Language Teaching	1. The students will be able to gain in-depth knowledge of the structure and different methods of teaching English. 2. It will enable them to evaluate and use English language teaching materials. 3. The students will get acquainted with the psychology of learning and applying it to the classroom situations. 4. The students will be able to develop all the four language skills - listening, speaking, reading and writing. 5. It will enable them to comprehend new and newer methodologies, techniques and strategies of teaching.
BHE 401	British Literature: 18th Century	1. This course will acquaint students with three remarkable forms of literature: novel, poetry and drama. 2. The students will be able to explore the literary, cultural and socio-political factors that are called forth in the making of the novel. 3. It will introduce the students to the poetry of the eighteenth century within the context of the literary, cultural, religious and political developments of the age. 4. It will educate the students on didactic

		human values as virtually mirrored in Thomas Gray's poem. 5. A detailed analysis of the prescribed texts will help students to formulate their critical thinking about the diverse genres of literary output in that era.
BHE 402	British Romantic Literature	1. The students will be able to evaluate and compare various thematic perspectives and styles within English Romanticism. 2. It will enable them to analyze key themes, topics, and debates that emerge in Romantic texts. 3. The students will be able to examine works of major English Romantic poets by situating them in their historical context of rapid social change and violent political upheavals. 4. The students will be able to understand the difference between reason and imagination and its use in Romantic Literature. 5. The students will be able to analyze the major authors and texts of English Romanticism through close reading. 6. It will enable the students to appreciate the nuances of poetic language and poetic devices.
BHE 403	British Literature: 19th Century	1. It will acquaint the students with an understanding of the existing conflict between faith and doubt in Victorian society. 2. It will enable the students to study English fiction and poetry written during the nineteenth century, and to reflect on their meanings and reception at the time of writing, and their meanings and reception today. 3. It will acquaint the students with various literary devices used by the writers of the Victorian and late Victorian period. 4. It will enable students to understand the concept of marriage and sexuality, the concept

		of utilitarianism and its role in human life. 5. The students will be able to demonstrate a critical understanding of the selected texts.
BHE 404	Language and Linguistics	1. This course will equip the students with some tools, techniques, and skills for linguistic analysis. 2. The students will be acquainted with the basic concepts necessary to pursue linguistics studies further. 3. It will enable them to understand the relationship between written and spoken language. 4. The students will be able to perform a phonemic and morphological analysis to determine the phonemes, allophones, morphemes and allomorphs of the given language. 5. The students will be able to identify the basic constituent structure of the given language.
BHE 405	Soft Skills	1. The students will be able to understand the significance and essence of a wide range of soft skills. 2. They will learn how to apply soft skills in social and professional settings. 3. It will enable them to employ these skills to improve interpersonal relationships. 4. Through Teamwork, they will learn how to connect and work with others to achieve a set task. 5. The students will learn how to employ soft skills in order to ensure workplace and career success.
BHE 501	Women's Writing	1. The students will learn to recognize the meaning and significance of feminine voices and concerns in a text. 2. This course will enable the students to

		know the diversity of women's experiences and their varied cultural moorings. 3. They will be able to understand different forms of literature including poetry and short stories written by women. 4. The students will learn about the impact of culture, ethnicity, class, sexuality and religion on women's experience and their responses. 5. It will enable them to understand women's literary history, women's studies and feminist criticism. 6. To enable the students to form critical opinions and express views on recurrent themes and issues in literature written by women, and understand the impact of gender on literature.
BHE 502	British Literature: The Early 20th Century	1. It will introduce the students to major British writers of modern times whose poetry has an inerasable mark throughout the latter decades. 2. The students will be able to analyze the reasons for the rapidly growing prominence of the novel. 3. It will acquaint students with the historical background including the socio-political changes in the early twentieth century. 4. It will enable the students to comprehend and critically analyze the selected texts of this literary era. 5. It will enable the students to develop and practice their interpretive skills and textual analysis in reading literature.
BHE 503	Literature of the Indian Diaspora	1. This course will acquaint the students with the experiences of dislocation, relocation, acculturation and marginalization as explored and addressed in the works of these writers. 2. It will acquaint students with the changing historical, political, socioeconomic, and

		cultural contexts of migration from the Indian subcontinent. 3. The students will be able to analyze and appreciate the idea of 'Indianness' and 'Indian sensibility' inscribed in the works of various writers of the Indian Diaspora. 4. The students will develop a fuller understanding of the extensive and multidisciplinary literature on the diasporic studies. 5. It will enable the students to apply this theoretical literature to various dispersed populations (refugees, migrants, etc.) while using it as a critical and analytic lens to shed light on identity, political mobilization, etc.
BHE 504	Literary Criticism	1. The students will be able to comprehend and effectively apply knowledge of practical criticism to appreciate and evaluate literary work with reference to its structure, texture and tone. 2. It will enable the students to examine historical contexts for the development of contemporary theory and criticism. 3. The students will be able to span the history of western literary criticism. 4. It will strengthen and deepen critical reading, writing, and interpretive practices of the students. 5. It will enable the students to develop the skill of attempting a close reading of the text.
BHE 601	Modern European Drama	1. The students will become acquainted with the rich diversity of themes, techniques, and forms used in drama across Europe. 2. The students will be able to develop knowledge of literary terms and key concepts involved in reading and analyzing drama. 3. The students will understand the historical and cultural background of each drama in

		order to become sensitive towards the critical relation between society and theatre. 4. It will enable the student to understand the origin of Absurd drama and major themes of Absurd drama. 5. The students will be able to demonstrate a critical understanding of the selected texts.
BHE 602	Post Colonial Literature	1.The students will be acquainted with the key concepts of postcolonial literary theory through the study of postcolonial texts. 2.It will enable the students to understand and evaluate the key debates in postcolonial studies. 3. It will facilitate them to gain knowledge about the terms and concepts exclusive of post colonial literature. 4. The students will be introduced to aspects of subjectivity, race, class and feminism as they inhere in the postcolonial space. 5. It will enable the students to make a critical analysis of a work of art within the frames of postcolonial studies.
BHE 603	Partition Literature	1.The students will become familiar with the development and practice of the Partition Literature. 2.The students will develop a strong understanding of the complex politics that led to the partition of the Indian subcontinent. 3. It will enable the students to demonstrate an understanding of the ways that race, ethnicity, gender and religion developed in a related way during the colonial era. 4. The students will develop an awareness of the regional, social and political upheavals caused due to geopolitical power struggles. 5. The students will be able to demonstrate an ability to express and evaluate their responses to the selected works.

BHE 604	Autobiography	1.The students will be able to compare and contrast the ways in which a perceiving, living individual (the "subject") is treated in biography, autobiography, and other literary genres such as poetry, fiction etc. 2. It will enable the students to recognize how an author's own ideology shapes reality in an autobiography, including how it raises questions about truth, factuality, objectivity, and subjectivity. 3. The students will be able to connect the autobiographical texts to their historical and cultural contexts. 4. It will enable the students to explore the ways in which the writers construct and represent memory. 5. The students will be able to understand the impact that these narratives have on our understanding of the political and cultural context in which these are produced.

English Programme Details

Programme Objectives:

1. To cater to the interest of students to study various literatures in English with a focus on the socio-historical and political contexts.
2. To acquaint the students with various genres of literature.
3. To comprehend literature in the light of critical approaches.
4. To develop an understanding of various Literary ages and trends thereof.

Programme Specific Outcomes:

1. The course of Masters in English offers students the opportunity to study influential writings from the Indian, British, American, and global Anglophone traditions. Apart from developing the literary skills, this course helps students to build skills of analytical and interpretive argument. It enables the students to become careful and critical readers. The students become effective thinkers and communicators who will be well-equipped for a variety of careers in our information-intensive society.
2. To display an in depth knowledge of the genres of fiction, poetry and drama by writers of various cultures and historical eras.
3. To display the knowledge of historical and cultural contexts of literature.

4. To develop the ability to read works of literary, rhetorical and cultural criticism and deploy ideas from these texts in their own reading and writing.

Course Code	Course	Course Outcome
MAE 1001	The Elizabethan and Jacobean Periods in English Literature1560-1640	1. To acquaint the students with the social and political background of Elizabethan and Jacobean periods. 2. To familiarize the students with the major literary texts of the period. 3. To train the students in the reading of the literary texts in relation to the socio- political context.
MAE 1002	The Restoration Period in English Literature 1640-1700	1 .To familiarize students with the socio-political background of the Restoration Period in English Literature. 2. To acquaint students with the major literary trends of this periods. 3. To help students relate literary texts with the socio-political contexts of the Restoration period.
MAE 1003	The Augustan Period in English Literature 1700-1798	1. To make students aware of the political and social background of the Augustan period in English Literature. 2. To acquaint students with the major literary trends in this period. 3. To help students read literary texts in the context of socio-political history.
MAE 1004(A)	(a)Women's Writing in English	1. To acquaint the students with the basic concepts of feminism. 2. To make the students aware of the tradition of women's writing. 3. To help students read women's writing in the context of modern literature.

MAE 1004(B)	(b)An Introductory Course In Linguistics	1. To enable students to understand the scope of the discipline of Linguistics. 2. To make students aware of the basic concepts in the study of languages. 3. To initiate students into the study of the various concepts of Linguistics.
MAE 1005	Literature and Psychology	1. To help students relate Literature to other disciplines. 2. To train students read literary texts in the light of psychological theories. 3. To familiarize students with the discourse of psychology and the relevance of psychological concepts to the study of literature.
MAE 1006	Seminar	1. To enhance the presentation skills of the students. 2. To make the students do extensive research on literary topics. 3. To improve the research aptitude of the students.
MAE 2001	The Romantic Period(1798-1840)	1. To acquaint students with the socio-political background of Romanticism in English Literature. 2. To acquaint the students with the major works of the Romantic Period. 3. To help students the philosophical ideas generated during this period and read literary texts in relation to them.
MAE 2002	The Victorian Period (1840-1900)	1. To acquaint students with the intellectual and socio-political background of the Victorian period. 2. To introduce the major literary works of the Victorian period. To train students in relating literary texts to their social contexts.

MAE 2003	The Modern Period (1840-1900)	1. To acquaint students with the political and social events that shaped Modern Literature. 2. To contextualize the modernist works in literature in relation to the intellectual currents of the period. 3.To encourage students to read the texts closely in relation to the larger trends of the Modern period.
MAE 2004(A)	(a)Indian Literature in English Translation	1To familiarize students with Indian Literary Traditions. 2. To help understand the problems of literary translation. 3.To enable students relate Indian texts produced in Indian Languages to the larger socio-political contexts of modern literature.
MAE 2004(B)	(b)New Literatures in English	1. To acquaint the students with the various literary traditions of non-British English-speaking countries. 2. To introduce the major literary works of countries like Canada, Nigeria, South Africa and Australia in relation to their historical context to students. 3. To help students read the literary texts of New Literatures in a comparative context.
MAE 2005	Literature and History	1. To help students relate Literature to History. 2. To train students read literary texts in the light of historical backgrounds. 3. To make students understand how Literature and History are connected. 4. To familiarize students with the discourse of History and relevance of its concepts to the study of Literature.

MAE 2006	Seminar	1. To enhance the presentation skills of the students. 2. To make the students do extensive research on literary topics. 3. To improve the research aptitude of the students.
MAE 3001	English Prose	1. To acquaint the students with the defining features of essay. 2. To familiarize the students with the development of the essay through different ages of English Literature. 3. To make the students learn comparative analysis of essays from different ages written by different essayists.
MAE 3002	Literary Criticism	1.To acquaint the students with the principles of criticism. 2.To familiarize the students with the Classical, Neoclassical, Victorian, Modernist, the New Critical and Marxist orientations with the reading of the critical essays representative of the critical trends.
MAE 3003	Indian Writing In English	To acquaint the students with Indian Literature written in English. 2. To familiarize the students with Indian Writing in English in terms of poetry, drama and fiction in historical context. 3.To train the students in the reading of the texts of Indian writing in English with reference to themes and forms in Indian Context.
MAE 3004 (A)	(a)American Literature –Novel and Poetry	1. To acquaint the students with the history and development of American Literature. 2. To familiarize the students with the important texts of American

		Literature. 3. To train the students in the reading of American Literary texts in the terms of themes, forms and social-historical contexts.
MAE 3004 (B)	(b)English Language Teaching	1. To acquaint the students with the concepts of English Language Teaching. 2. To familiarize the students with English Language Teaching in Indian context and in terms of its methodology, items and skills. 3. To initiate the students into the study of various concepts and applications of English Language Teaching. 4. To familiarize the students with English Language Teaching in terms of syllabus, design, material production, ESP (English for Specific Purpose) and teaching aids.
MAE 3005	Philosophy and Literature	1. To help the students to relate the Literature to Philosophy. 2. To train students to read literary texts in the light of Philosophy. 3. To familiarize the students with various philosophers and application of their philosophy with the study of Literature.
MAE 3006	Seminar	1. To enhance the presentation skills of the students. 2. To make the students do extensive research on literary topics. 3. To improve the research aptitude of the students.
MAE 4001	World Fiction in English	1. To acquaint the students with the World Fiction. 2. To make the students explore the real life complexities of relationships, society or culture in a

		fictional narrative. 3. To train the students in the close reading of the world famous novels written in English.
MAE 4002	Literary Theory	1. To acquaint the students with the principles and history of literary theories. 2. To familiarize the students with the recent critical trends like structuralism, feminism, postmodernism, post colonialism and ecocriticism. 3. To initiate the students into a critical discourse of variety and contestation through various original critical essays.
MAE 4003	World Literature in Translation	1. To acquaint the students with the classics in the World Literature. 2. To familiarize the students with the world classics in various literary forms. 3. To cultivate the sense of comparison and analysis in students.
MAE 4004(A)	(a)American Literature – Drama and Non –Fictional Prose	1. To acquaint the students with the history and development of American Literature. 2. To familiarize the students with American literary texts. 3. To train the students in the reading of American literary texts in the terms of themes, forms and socio-historical context.
MAE 4004 (B)	(b)English Language Teaching	1. To acquaint the students with the concepts of English Language Teaching. 2. To familiarize the students with the techniques and approaches of teaching English. 3. To encourage the students to study pragmatic aspects of English Language Teaching.

MAE 4005	Literature and History	1. To help the students relate literature to other disciplines. 2. To train the students in the reading of literature in terms of history. 3. To familiarize the students with the discourse of history.
MAE 4006	Seminar	1. To enhance the presentation skills of the students. 2. To make the students do extensive research on literary topics. 3. To improve the research aptitude of the students.

Programme Specific Outcomes and Course Outcomes

Program Name: Bachelor of Science Non-medical (B. Sc.N.M.) (Physics subjects)

Learning Objectives:

The objectives of the B.Sc. N.M. programme are manifold and start with imparting students with an in-depth knowledge and understanding through the core courses which form the basis of Physics namely Mechanics, Electricity and Magnetism, Quantum Mechanics, Statistical Physics, Solid State Physics, Electronics. Creative thinking and problem-solving capabilities are also aimed to be encouraged through tutorials. The elective and discipline specific elective courses are designed for more specialized and interdisciplinary content to equip students with a broader knowledge base. The core and elective labs are designed to develop an appreciation for the fundamental concepts and working of devices used in everyday life employing scientific methods/tools of physics. In addition, the B.Sc. course is aimed to equip the students to use experimental apparatus as a tool for scientific investigations/understanding.

Programme Specific Outcomes (PSOs):

1. Understanding the basic concepts of physics particularly concepts in mechanics, quantum mechanics, statistical mechanics and electricity and magnetism to appreciate how diverse phenomena observed in nature follow from a small set of fundamental laws through logical and mathematical reasoning.

2. Learn to carry out experiments in basic as well as certain advanced areas of physics such as nuclear physics, condensed matter physics, and electronics.
3. Understand the basic concepts of certain sub fields such as nuclear, wave optics, solid state physics, and Special theory of relativity etc.
4. Gain hands-on experience to work in applied fields.
5. Gain a through grounding in the subject to be able to teach it at school levels.
6. Viewing physics as a training ground for the mind developing and critical attitude.
7. Facility of logical reasoning that can be applied to diverse fields.

Course Outcomes:

B.Sc. (N. M.)-I(PHYSICS)
SEMESTER I

Course code	Course	Course outcome
BCC(P)-101	**Mechanics**	On completion of this course, student will be able to • Understand relative motion, inertial and non-inertial frames, Newton's Law of motion and conservation principles, the analogy between translational and rotational kinematics. universal law of gravitation, gravitational potential energy and explain central forces • Develop a qualitative understanding of rotational inertia • Explain how two body problem can be reduced to a one body problem. • Describe the behaviour of a damped and driven harmonic oscillator in both time and frequency domains. • Derive Lorentz transformation equations by using special theory of relativity.

B.Sc. (N. M.)-I(PHYSICS)
SEMESTER II

Course code	Course	Course outcome
BCC(P)-201	**Electricity, magnetism and EMT**	On completion of this course, student will be able to • Understand electric and magnetic fields in matter. • Apply Maxwell's equations to various physical problems. • Calculate EM wave propagation. • Understand the use of Coulomb's law and Gauss's law for the electrostatic force. • Use the Lorentz force Law for the magnetic force. • Use of Faraday's Law in induction problems. • Understand the basic laws that underlie the properties of

		electric circuit elements.

B.Sc. (N. M.)-II(PHYSICS)

SEMESTER-III

B.Sc. (N. M.)-II(PHYSICS)

S. No.	Course code	Course	Course outcome
1.	**BCC(P)-301**	**Statistical Mechanics and Optics**	On completion of this course, student will be able to • Identify and describe the statistical nature of concepts and laws in thermodynamics. • Use the statistical physics methods such as Maxwell Boltzmann, Fermi-Dirac and Bose-Einstein distribution. • Apply the concepts and principles of Black-Body radiation to analyze radiation phenomenon. • Use the principles of wave motion and superposition to explain the physics of polarization, interference and diffraction. • Describe the operation of optical devices including polarizers and interferometers.
2.	**BSEC(P)-304**	**Skill Enhancement Course-I: Physics Workshop Skills**	On completion of this course, student will be familiar with • Meter scale, Vernier caliper, Screw gauge, manufacturing methods like cutting, welding, soldering and the lever mechanism.

SEMESTER-IV

S. No.	Course code	Course	Course outcome

1.	**BCC(P)-401**	**Quantum Mechanics**	On completion of this course, student will be able to • Understand the basic knowledge about non relativistic quantum mechanics. • Understand the time-dependent and time-independent Schrodinger wave equation for simple potentials and harmonic oscillator. • Show an understanding of wave mechanics in one and three dimensions. • Describe the structure of the hydrogen atom and show an understanding of quantization of angular momentum • Know about spin, angular momentum sates, angular momentum addition rules and identical particles.
2.	**BSEC(P)-404 404**	**Skill Enhancement Course-II: Applied Optics**	On completion of this course, student will be able to • Understand the theory of laser action, light amplification, principle and application of holography and fibre optics.

B.Sc. (N. M.)-III(PHYSICS)
SEMESTER-V

S. No.	Course code	Course	Course outcome
1.	**BDSE(P)-501**	**Solid State Physics and Electronics Devices**	On completion of this course, student will be able to • Have a basic knowledge of crystal systems and spatial symmetries. • Understand the concept of reciprocal lattices. • Know the principles of structure determination by Bragg's diffraction. • Know the significance of Brillouin zones. • Know the concept of phonons. • Understand the phenomenon of superconductivity.

			• Understand the biasing of transistors and design of simple amplifier circuits. • Understand the current voltage characteristics of semiconductor devices. • Calculate cutoff frequencies and to determine bandwidth. • Understand the effect of positive and negative feedback on amplifier circuits. • Analyze the different oscillator circuits to determine the frequency of oscillation.
2.	**BSEC(P)-504**	**Skill Enhancement Course-III: Basic Instrumentation Skills**	On completion of this course, student will be able to • Explain types of errors, specifications and significance of multimeter and voltmeter. • Describe types of millivoltmeters and their significance, features of CRO and CRT. • Understand the working of impedance bridges and digital instruments.

B.Sc. (N. M.)-III(PHYSICS)
SEMESTER-VI

S. No.	Course code	Course	Course outcome
1.	**BDSE(P)-601**	**Nuclear & Particle Physics**	On completion of this course, student will be able to • Understand the fundamental aspects of the structure of the nucleus and intrinsic properties of the atomic nucleus. • Explain the interaction of radiation with matter. • Understand the concepts of radioactive decay, nuclear reactions. • Describe the working of radiation detectors and accelerators. • Understand the classification and properties of elementary particles. • Recognize that all leptons and quarks have corresponding antiparticles. • Understand that quarks and antiquarks

			combine to form baryons, antibaryons and mesons. • Discuss the conservation laws obeyed by elementary particles.
2.	**BSEC(P) 604**	**Skill Enhancement Course-IV: Radiation Safety**	On completion of this course, student will be able to • Understand the atomic structure, X-rays, Bremstrahlung. • Explain nuclear reactions, kinematics of nuclear reactions, radioactive decay, fission and fusion processes. • Describe interaction of radiations, photons, neutrons and charged particles with matter. • Have knowledge about radiation detectors, dosimeters and radiation safety methods.

Programme Specific Outcomes and Course Outcomes

Program Name: Bachelor of Science Hons. Physics (B. Sc.Hons. Physics)

Learning Objectives:

The objectives of the B.Sc. Hons. Physics programme are manifold and start with imparting students with an in-depth knowledge and understanding through the core courses which form the basis of Physics namely Quantum Mechanics, Mathematical Physics, Statistical Physics, Solid State Physics, Electronics. Creative thinking and problem-solving capabilities are also aimed to be encouraged through tutorials. The elective and discipline specific elective courses are designed for more specialized and interdisciplinary content to equip students with a broader knowledge base. The core and elective labs are designed to develop an appreciation for the fundamental concepts and working of devices used in everyday life employing scientific methods/tools of physics. In addition, the B.Sc. course is aimed to equip the students to use experimental apparatus and computers as a tool for scientific investigations/understanding.

Programme Specific Outcomes (PSOs):

1. Understanding the basic concepts of physics particularly concepts in mechanics, quantum mechanics, statistical mechanics and electricity and magnetism to appreciate how diverse phenomena observed in nature follow from a small set of fundamental laws through logical and mathematical reasoning.
2. Learn to carry out experiments in basic as well as certain advanced areas of physics such as nuclear physics, condensed matter physics, lasers, and electronics.
3. Understand the basic concepts of certain sub fields such as nuclear, atomic and molecular physics, solid state physics, and Special theory of relativity etc.
4. Gain hands-on experience to work in applied fields.
5. Gain a through grounding in the subject to be able to teach it at school levels.
6. Viewing physics as a training ground for the mind developing a critical attitude and a faculty of logical reasoning that can be applied to diverse fields.

Course Outcomes:

B.Sc. (Hons.) PHYSICS-I
SEMESTER I

S. No.	Course code	Course	Course outcome
1	**BPH 102**	**MATHEMATICAL PHYSICS-I**	On completion of this course, student will be able to • Understand the basic fundamentals of Calculus Recapitulation. • Describe and use the Differentiation. • Explain the Calculus of functions of more than one variable. • Discuss the applications Vector Calculus. • Explain the use of Vector Differentiation and interaction. • Understand proof of Fundamental Theorem of Calculus and the concept of the integrals of functions and vector field • Understand theconcept of Dirac Delta function and its properties.
2	**BPH 103**	**MECHANICS**	On completion of this course, student will be able to • Describe relative motion, inertial and non-inertial frames.

			• Have a basic knowledge of concepts of vectors. • Understand the Conservation Laws and Properties of Space and Time. • Understand the analogy between translational and rotational kinematics. • Understand universal law of gravitation, gravitational potential energy and explain central forces. • Know the significance of Inverse Square Law Force. • Know the concept of Frames of Reference. • Know the principles of rotational motion and Special Theory of Relativity as well as Oscillations.

B.Sc. (Hons.) PHYSICS-I
SEMESTER-II

S. No.	Course code	Course	Course outcome
1	**BPH 202**	**ELECTRICITY AND MAGNETISM**	On completion of this course, student will be able to • Understand electric and magnetic fields in matter. • Apply Maxwell's equations to various physical problems. • Calculate EM wave propagation. • Understand the use of Coulomb's Law and Gauss's Law for electrostatic force. • Use of Lorentz force Law for magnetic force. • Use of Faraday's Law in induction problems. • Understand the basic laws that underlie the properties of electric circuit elements.

2	**BPH 203**	**WAVES AND OPTICS**	On completion of this course, student will be able to • Understand the Superposition of two perpendicular Harmonic Oscillations. • Describe the behaviour of a damped and driven harmonic oscillator in both time and frequency domains • Understand the concept of Velocity of Transverse Vibrations of Stretched Strings. • Understand the basics of Superposition of Two Harmonic Waves

B.Sc. (Hons.) PHYSICS-II
SEMESTER-III

S. No.	Course code	Course	Course outcome
1	**BPH 301**	**LASERS**	On completion of this course, students will be able to • Understand the basic fundamentals of LASER. • Describe the construction and working of different types of lasers. • Explain the relation between Einstein coefficients. • Discuss the applications of lasers- in medical field, in industry field,holography etc. • Explain the attenuation mechanisms.
2	**BPH 302**	**SOLID STATE PHYSICS-I**	On completion of this course, student will be able to • Have a basic knowledge of crystal systems and spatial symmetries. • Understand the concept of reciprocal space and be able to use it as a tool. • Know the significance of Brillouin zones. • Know the concept of phonons.

			• Know the principles of structure determination.
3	**BPH 303**	**STATISTICAL PHYSICS AND THERMODYNAMICS**	On completion of this course,students will be able to • Identify and describe the statistical nature of concepts and laws in thermodynamics. • Use the statistical physics methods such as Boltzmann distribution, Gibbs distribution, Fermi-Dirac and Bose-Einstein distribution. • Apply the concepts and principles of Black-Body radiation to analyze radiation phenomenon. • Apply the concepts and laws of thermodynamics to derive the equation of State of an Ideal Gas from Simple Statistical Consideration
4	**BPH 304**	**SKILL ENHANCEMENT COURSE-I: PHYSICS WORKSHOP SKILLS**	On completion of this course, student will be familiar with • Meter scale, Vernier caliper, Screw gauge, manufacturing methods like cutting, welding, soldering and the lever mechanism.

B.Sc. (Hons.) PHYSICS-II

SEMESTER-IV

S. No.	Course code	Course	Course outcome
1	**BPH 401**	**SOLID STATE PHYSICS-II**	On completion of this course, students will be able to

			• To calculate thermal and electrical properties in the free-electron model. • Know Bloch's theorem and about energy bands. • Understand the fundamental principles of semiconductors, including pn-junction, and be able to estimate the charge carrier mobility and density. • To account for what the Fermi surface is and how it can be measured. • Know basic models of magnetism.
2	**BPH 402**	**QUANTUM MECHANICS**	On completion of this course,student will be able to • Show an understanding of wave mechanics in three dimensions. • Describe the structure of the hydrogen atom and show an understanding of quantization of angular momentum • Apply techniques such as fourier methods and ladder operators for selected problems in quantum mechanics • Use the tools, methodologies, language and conventions of physics test and communicate ideas and explanations
3	**BPH 403**	**SPECTROSCOPY**	On completion of this course, students will be able to • Describe the atomic spectra of one and two valence electron atoms • Explain the change in behavior of atoms in external applied electric and magnetic field • Explain rotational, vibrational, electronic and Raman spectra of molecules • Describe electron spin and nuclear magnetic resonance spectroscopy and their applications.

4	**BPH 404**	**SKILL ENHANCEMENT COURSE-II: APPLIED OPTICS**	On completion of this course, student will be able to • Understand the theory of laser action, light amplification, principle and application of holography and fibre optics.

B.Sc. (Hons.) PHYSICS-III
SEMESTER-V

S. No.	Course code	Course	Course outcome
1	**BPH 501**	**MATHEMATICAL PHYSICS-II**	On completion of this course, students will be able to • Apply separation of variables technique to solve partial differential equations. • Apply the method of Frobenius to solve certain ordinary differential equations (Legendre,Bessel etc.) • Understand the concept of Laplace function • Evaluate integrals using gamma and beta functions • Know the rules to find systematic errors.
2	**BPH 502**	**DIGITAL SYSTEMS AND APPLICATIONS**	On completion of this course, students will be able to • Understand the fundamental concepts and techniques used in digital electronics. • To analyze and design various combinational and sequential circuits. • Have the ability to identify and prevent various hazards and timing problems in a digital design. • Explain the basic features of CRO, deflection sensitivity and application of CRO. • Describe the general architecture of

			a microprocessor. • Understand and realize the interfacing of memory and various I/O devices with 8085 microprocessors.
3	**BPH 503**	**CLASSICAL DYNAMICS**	On completion of this course,students will be able to • Define and understand basic mechanical concepts related to discrete and continuous mechanical systems. • Describe and understand the motion of a mechanical system using Lagrange-Hamiltonian formalism. • Familiar with the concept of special theory of relativity. • Derive Lorentz transformation equations by using special theory of relativity. • Define four dimensional space and deduce the transformation formulae between **E,B, J**, ρ
4	**BPH 504**	**NUCLEAR AND PARTICLE PHYSICS**	On completion of this course, student will be able to • understand nuclear properties such as binding energy, nuclear moments. • understand the Constituents of nucleus. • Modes of decay of radioactive nuclides. • understand the decay Laws. • understand nature about particle and antiparticles • how particle and antiparticles exist in nature. • understand how nuclear particles can be detected with the help of detectors.

B.Sc. (Hons.) PHYSICS-III

SEMESTER-VI

S. No.	Course code	Course	Course outcome
1	BPH 601	MATHEMATICAL PHYSICS-III	On completion of this course, students will be able to • Perform basic algebra manipulation with complex numbers. • Understand the geometric interpretation of complex numbers. • Know the method of contour integration, evaluate definite integrals of varying complexity. • Learn the fundamentals and applications of Fourier series, Fourier and Laplace transforms, their inverse transforms etc. • Expand Laurent and Taylors's series
2	BPH 602	ANALOG SYSTEMS AND APPLICATIONS	On completion of this course,students will be able to • Understand the biasing of transistors and design of simple amplifier circuits • Methods of calculating cutoff frequencies and to determine bandwidth. • Understand the current voltage characteristics of semiconductor devices. • Learn basic operational amplifiers characteristics, OP-AMP parameters, applications as inverter, integrator, differentiator etc. • Understand the effect of positive and negative feedback on amplifier circuits. • Analyze the different oscillator circuits to determine the frequency of oscillation.

3	**BPH 603**	**PHYSICS OF DEVICES AND INSTRUMENTS**	On completion of this course,students will be able to • Understand the characteristics of devices like UJT, JFET, Metal oxide semiconductor (MOS), MOSFET's and tunnel diode. • Describe working of various filters like active and passive filters, low pass, high pass, Band pass and band reject filters. • Understand the processing of devices. • Learn digital data communication standards, Universal serial bus (USB) standards, types and elements of USB transfers. • Understand the electronic communication systems, Modulation and demodulation of electronic signals.
4	**BPH 604**	**NANOMATERIALS AND APPLICATIONS**	On completion of this course,students will be able to • Understand 1D, 2D, 3D nanostructures, nanodots, nanowires, nanorods and thin films. • Learn synthesis of nanostructured materials using various techniques such as top down and bottom up approach, photolithography, ball milling, gas face condensation, chemical vapor deposition, spray pyrolysis, Sol-Gel etc. • Understand how to characterize materials with various techniques like XRD, optical microscopy, SEM,TEM, AFM and STM. • Learn applications of nanomaterials such as nanoparticles, quantum dots, nanowires, LED solar cells, single electron devices, CNT

			based transistors, quantum dots heterostructured lasers, magnetic quantum well, magnetic dots, MEMs etc.

Programme Specific Outcomes and Course Outcomes

Program Name: Master of Science Physics (M. Sc.Physics)

Learning Objectives:

The objectives of the M.Sc. Physics programme are manifold and start with imparting students with an in-depth knowledge and understanding through the core courses which form the basis of Physics namely classical mechanics, Quantum Mechanics, Mathematical Physics, Statistical Physics, Electromagnetic theory, Solid State Physics, nuclear and particle physics along with electronics. Creative thinking and problem-solving capabilities are also aimed to be encouraged through tutorials. The elective and discipline specific elective courses are designed for more specialized and/or interdisciplinary content to equip students with a broader knowledge base. The core and elective labs are designed to develop an appreciation for the fundamental concepts and working of devices used in everyday life employing scientific methods/tools of physics. In addition, the M.Sc. course is aimed to equip the students to use experimental apparatus and computers as a tool for scientific investigations/understanding. The dissertation(s) in both theory and experimental stream are expected to give a flavour of how research leads to new findings. In addition, the M.Sc. course is to lay a solid foundation for a doctorate in physics/allied subjects later.

Programme Specific Outcomes (PSOs):

1. Understanding the basic concepts of physics particularly concepts in classical mechanics, quantum mechanics, statistical mechanics and electromagnetic theoryto appreciate how diverse phenomena observed in nature follow from a small set of fundamental laws through logical and mathematical reasoning.
2. Learn to carry out experiments in basic as well as certain advanced areas of physics such as nuclear physics, condensed matter physics, nanoscience, lasers and electronics.
3. Understand the basic concepts of certain sub fields such as nuclear, atomic and molecular physics, solid state physics, plasma physics and experimental techniques in physics etc.
4. Gain hands-on experience to work in applied fields.
5. Gain a through grounding in the subject to be able to teach it at college and school levels.

6. Viewing physics as a training ground for the mind developing a critical attitude and facility of logical reasoning that can be applied to diverse fields.

Course Outcomes:

M.Sc. (PHYSICS)-I
SEMESTER-I

S. No.	Course code	Course	Course outcome
1	**P1.1.1**	**Mathematical Physics-I**	On completion of this course, student will be able to • To understand Generating function for Legendre polynomials and recurrence relations. • Apply the method to solve certain ordinary differential equations (Legendre, Bessel etc.) • Understand the concept of hermite and Laguerre Polynomials. • Evaluate integrals using gamma and beta functions. • Know the rules to find systematic error and Tensors.
2	**P1.1.2**	**Classical Mechanics**	On completion of this course, student will be able to • define and understand basic mechanical concepts related to discrete and continuous mechanical systems, • Describe and understand the motion of a mechanical system using Lagrange-Hamiltonian formalism. • Students will be able to solve problems related tomechanics and Kepler's problem. • Understanding the Rigid body dynamics and Hamiltonian formulation.
3	**P1.1.3**	**Quantum Mechanics**	On completion of this course, student will be able to • Understand the basic knowledge about non relativistic quantum mechanics. • Understand the time-dependent and time-independent Schrodinger wave equation for simple potentials and harmonic oscillator. • Show an understanding of wave mechanics in one and three dimensions,Linear vector spaces. • Describe the structure of the hydrogen atom

			and show an understanding of quantization of angular momentum • Know about spin, angular momentum sates, angular momentum addition rules and identical particles.
4	**P1.1.4**	**Nuclear and Particle Physics**	On completion of this course, student will be able to • Understand the fundamental aspects of the structure of the nucleus and intrinsic properties of the atomic nucleus, • explain the interaction of radiation, charged particles and neutrons with matter, • Understand the concepts of radioactive decay, laws of radioactive decay and successive disintegration.
5	**P1.1.5 Elective Paper Option (i)**	**Electronics -I**	On completion of this course, students will be able to • Understand the Active circuit model's equivalent circuit for BJT. • Methods of calculating cutoff frequencies and to determine bandwidth. • Understand the current voltage characteristics of semiconductor devices. • Learn basic operational amplifiers characteristics, OP-AMP parameters, applications as inverter, integrator, differentiator etc. • Understand the effect of biasing in FET. • Analyze the number systems, combinational logic gates, binary counters.

M.Sc. (PHYSICS)-I
SEMESTER-II

S. No.	Course code	Course	Course outcome
1	**P1.2.1**	**MATHEMATICAL PHYSICS-II**	On completion of this course, students will be able to

			• Understand the Laplace transforms. • Understand proof of Fundamental Theorem of Calculus and the concept of the integrals of functions and vector field • Explain Complex variables, Fourier series and transform. • Understand the Partial differential equations, apply formulae to solve problems like One dimensional wave equation
2	**P1.2.2**	**NUCLEAR PHYSICS**	On completion of this course, students will be able to • Demonstrate knowledge of fundamental aspects of the structure of the nucleus, radioactive decay, nuclear reactions and the interaction of radiation and matter. • Explain internal and external properties of the atomic nucleus. • Explain the processes of nuclear collisions and nuclear reactions. • State radiation detectors and accelerators. • Understand the nuclear accelerators and models
3	**P1.2.3**	**STATISTICAL MECHANICS**	On completion of this course,students will be able to • Identify and describe the statistical nature of concepts and laws in thermodynamics. • Use the statistical physics methods such as Boltzmann distribution, Gibbs distribution, Fermi-Dirac and Bose-Einstein distribution. • Body radiation to analyze radiation phenomenon. • Apply the concepts and laws of thermodynamics to solve problems such as gases, heat engines
4	**P1.2.4**	**CLASSICAL ELECTRODYNAMICS**	On completion of this course, student will be able to • Interpret the deeper meaning of Maxwell field equation. • Formulate and solve electromagnetic problems with the help of electrodynamic potential. • Formulate and solve electrodynamic problems in relativistic covariant form in

			four dimensional space-time.
5	**P1.2.5 Elective Paper Option (i)**	**ELECTRONICS-II**	On completion of this course, students will be able to • Understand the amplifiers and their applications. • Methods of calculating cutoff frequencies and to determine bandwidth. • Understand the current voltage characteristics of semiconductor devices. • Learn basic operational amplifiers characteristics, OP-AMP parameters, applications as Comparator etc. • Analyze 555 timer.

M.Sc. (PHYSICS)-II
SEMESTER-III

S. No.	Course code	Course	Course outcome
1	**P2.1.1**	**CONDENSED MATTER PHYSICS-I**	On completion of this course, student will be able to • Have a basic knowledge of binding in crystal systems and elastic properties. • Understand the concept of various models and theories of condensed matter physicssuch as Drude model, Free electron theory. • Know the significance of Brillouin zones and band theory and Kronig-Penney model. • Know the concept of phonons. • Understand the concept of Fermi Surfaces, semiconductors and superconductors.
2	**P2.1.2**	**RADIATION PHYSICS**	On completion of this course, student will be able to

			• Understand basics of thermal neutrons like energy distribution of thermal neutrons, effective cross section of thermal neutron. • Understand the concept of nuclear chain reaction. • Learn thermal Neutron diffusion, Neutron diffusion equation, Thermal diffusion length. • Analyze nuclear spectrometric data and able to measure g-factors and hyperfine fields. • Understand the principle, Instrumentation and spectrum analysis of XRF, PIXE and neutron activation analysis techniques.
3	**P2.1.3**	**COMPUTATIONAL METHODS AND SIMULATION**	On completion of this course, student will be able • To understand the tools like FORTRAN language and programming to enhance knowledge of physics. • To have knowledge and application of numerical methods used in computation and programming. • To have understanding of Random Variables and Monte Carlo Methods.
4	**P2.1.4 Elective Paper Option (i)**	**LASER PHYSICS**	On completion of this course, students will be able to • Understand the basic fundamentals of LASER. • Describe the construction and working of different types of lasers. • Explain the relation between Einstein coefficients and Laser rate equation. • Discuss the applications of lasers-in medical field, in

			industry field, holography etc.

M.Sc. (PHYSICS)-II
SEMESTER-IV

S. No.	Course code	Course	Course outcome
1	**P2.2.1**	**CONDENSED MATTER PHYSICS-II**	On completion of this course, student will be able to learn about • Langevin diamagnetism equation, Anti ferromagnetic magnons, Ferromagnetic domains, Crystal field splitting. • Cooling by adiabatic demagnetization, Ferromagnetism, Debye equations, Dipole theory of ferroelectricity. • Nanoparticles, Metal nano clusters (various types), Quantum well, Quantum wire and Quantum dots (in brief) and their fabrication. • Plasmons, polaritons, polarons and Lattice defects, Mott transition. • Burger's vector, Low angle and large angle grain boundaries, Dislocation multiplication by Frank-Read source.
2	**P2.2.2**	**ADVANCED QUANTUM MECHANICS**	On completion of this course, student will be able to • Understand first order and second order perturbation theory for nondegenerate case, an harmonic oscillator. • Learn exchange operators, Variational method, Transition probability for constant and harmonic perturbation, Golden rule. • Understand the Principle of WKB, Born approximation , Optical theorem, s and p-wave scattering. • Understand the theory of Klein-Gordon equation, Dirac equation,

			spin and magnetic moment.
3	**P2.2.3**	**ADVANCED CLASSICAL MECHANICS AND ELECTRODYNAMICS**	On completion of this course, student will be able to • Understand covariant formulation of electrodynamics to explore the unification of electricity and magnetism. • Understand the concept of Origin of the electromagnetic radiation by an accelerating charge particle. • Understand the scattering of electromagnetic wave by free and bound electron. • Understand the concept of Electromagnetic wave propagation.
4	**P2.2.4 Option (i)**	**EXPERIMENTAL TECHNIQUES IN PHYSICS**	On completion of this course, student will be able to • Learn about thermal evaporation, cathodic sputtering, and glow discharge sputtering. • Understand the analytical and transducers techniques. • Understand the theories of Scanning Electron Microscope, Transmission Electron Microscope, Scanning Tunneling Microscope, Atomic Force Microscope. • Know about the basic concepts and applications of spectroscopic techniques.

Department of Political Science
Learning Objectives and Outcomes (Session 2018-19)

Department of Political Science Mata Gujri College, Fatehgarh Sahib aims to provide the learners a sound base in political studies by an in-depth investigation into broad range of political phenomena at the national, regional and international levels. The Programme provides option for specializing in Political Theories, Comparative Politics, International Relations and Indian

Government and Politics. Learners would thus acquire skills in political analysis as well as sharpen their critical and analytical abilities.

Name of Programme: Bachelor of Art (Subject- Political Science)

Learning Objectives

Following are the learning objectives:-

1. To familiar with basics of Political Science as well as theories.
2. To make students aware of the main provisions of Indian Constitution, working of Indian Political System since independence with special reference to key constitutional functionaries.
3. To introduce the field of comparative politics to students.
4. To make students understand and analyze the origins and working of two political systems, the UK and USA.
5. To provide an overview of major concepts and developments in international politics since the beginning of the twentieth century.

Programme Specific Outcomes:

Students completing the requirements for B.A. degree in Political Science will be able to:

1. Understand the basics of Political Science
2. Distinguish systematic normative inquiry from other kinds of inquiry within the discipline of political science
3. Understand political science through interdisciplinary approach with other social science
4. Understand the constitutional framework and provisions of Indian political system.
5. Discuss the theory and apply the methodology of comparative analysis within the discipline of political science
6. Compare and contrast the main political institutions and processes in UK &USA politics
7. Demonstrate an understanding of the basic structures of the contemporary international system; and the key actors, institutions and their functions.

Course Outcome:

Course Code	Course Name	Course Outcome
BA-116	POLITICAL THEORY-I	• An ability to formulate and construct logical arguments about political phenomena and an ability to evaluate these through empirical and theoretical methods. • Be able to understand the fundamentals of political science.

		• Be able to understand genesis and growth of political science.
BA-216	POLITICAL THEORY-II	• Be able to familiar with the basic concepts of political science. • Be able to understand the basics theories of political science • Familiarity with different approaches to the study of politics and an ability to apply these to contemporary collective and political problems, and political behavior
BA-316	INDIAN GOVT & POLITICS-I	• Be able to know how the constitution was adopted and why not some other, how the institutions grow in the company of actual politics and fundamental understanding of making Indian constitution & constitutional structure. • Be able to make a good and vigilant citizen of India through understanding of fundamental rights, duties and directive principal of state policy. • Be able to identify and explain the central principles, institutions, procedures, and decision-making processes of the Indian political system.
BA-416	INDIAN GOVT & POLITICS-II	• Be able to have a fundamental understanding of working of Indian government and politics at state level. • Be able to identify, describe, analyze the role of different political parties and the electoral scenario of India. • Understand basic strengths and weaknesses of the Indian political system through the application of political concepts and ideas.
BA-516	Comparative Political Systems (UK and USA)	• Understand the political regime types in a comparative framework. • Be able to compare and contrast the main political institutions and processes in UK &USA politics. • Have a stronger and more informed perspective and knowledge of the political systems of UK and USA
BA-616	International Politics: Theory and Practice	• Understand the fundamental concepts, issues, and theories central to international politics. • Be able to understand the role and workingof international organization for maintaining world peace. • Demonstrate skills in critical thinking.

Name of Programme: Master of Political Science (MA- Political Science)

Learning Objectives

Following are the learning objectives:-

1. To provide a central knowledge of the core Political Concepts and values that shapes the lives and institutions of society, the analytic expertise indispensable for understanding

their relationship to civil society and connect the relationship of political Science to other academic disciplines, with a view to provide successful academic careers in higher Education, Media and Administration.

2. To enable the learners with the thorough understanding of politics, the CONCEPTUAL part of the syllabus is deconstructed chronologically (though not exhaustively) in a reflective and critical manner through papers like 'Comparative politics', 'Western' and 'Indian Political thought' and thinkers and institutions, processes and political development.
3. To increase recognition of the major problems, the leading policies, constitutional framework, and the legal issues confronting contemporary political systems, particularly in India. The INDIAN POLITICS segment is crucial as it examines the prominent ideas that have influenced India's political trajectory in papers like 'Indian Political System: Constitution and Institution', 'Foreign Policy of India' and 'State Politics in India' in a critical historical –institutional perspective. Such an endeavor is crucial in light of India's profile in terms of amongst others its size in population, territory, besides its uninterrupted practice of democratic developmentalism since India's Political independence in 1947.
4. To increase knowledge of diverse political systems around the world, including empirical area-based knowledge; broader theoretical understanding of different political systems, institutions and processes; and the changing domestic and global contexts within which they operate, there will be exposure to the papers like 'International Politics', 'Global Politics', 'International Organization', 'South Asia and World Politics', 'Foreign Policy of Major Powers' etc. This segment seeks to critically evaluate the causal assumptions and norms of governance along with the policy challenges posed by globalization.
5. To broaden the INTERDISCIPLINARY and GENERAL thinking we enable the learners to analyze and critique the political and administrative processes affected by major social trends, leading to Policy change as manifest in Papers like 'Public Administration' and 'Human Rights'. 'Research Methodology' course aims at honing the skills of students and prospective researchers by providing a conceptual understanding of the methods, techniques and a research orientation and comprehension of the basic framework of research process which also forms a backdrop of the 'Project and Viva' Paper.

Programme Specific Outcome:

Students completing the requirements for M.A. degree in Political Science will be able to:

1. Understand the contribution of the main traditions of western political thinkers to political thought.
2. Understand the contribution of the main traditions of Indian Political Thought.

3. Understand the processes and dynamics of Indian government and politics. It also familiarize with the vital contemporary emerging issues of centre-state relation, political parties, emergence of new leadership at different levels, demand for autonomy movement, ethnic conflicts etc.
4. Understand and be able to interrelate the leading theories, literature, and approaches and subfields of international politics and comparative politics
5. Demonstrate the ability to outline and defend a vision of politics in areas such as justice, democracy, community, or freedom by means of persuasive writing for a specific audience
6. Critically assess the actions of actors in the political process and determine their motives
7. Understand the decisions human beings make in political settings, including those regarding the forms of government available and understand the philosophical underpinnings of political systems and, major ideologies and political parties.
8. Demonstrate competency with basic tools underlying modern social science research including competency in qualitative and quantitative analysis

Course Outcomes:

MA -1 (Semester-1)		
Course Code	**Course Name**	**Course Outcome**
MAPOL-101	INDIAN POLITICAL THOUGHT	• Be able to showcase a basic understanding over some critical issues and debates within Indian political thought. • Be able to have a thorough understanding of comparative study of thinkers on similar concepts. • Understand the various political thinkers in different historical backdrop and different environment shaping them. • Understand nature and value of normative thinking. • Demonstrate the concepts of political thinkers in the context of new situations.
MAPOL -102	WESTERN POLITICAL THOUGHT	• Have a preliminary understanding over major themes within Western political thought. • Have information about the ways in which western political thinkers responded to the political problems of their times and the way in which they contributed to a broader view about human goals and needs, justice, democracy and the ever changing relationship between the citizen and the state.

		• Find out how various political philosophies have shaped various forms of government, from tyranny to republican democracy and welfare. • Have a better understanding of questions concerning power, justice, rights, laws and other issues pertaining to governance, how they have come about and to what effect. • Gain a critical perspective on the present day by evaluating the strengths and weaknesses of various regimes and philosophical approaches.
MAPOL -103	INDIAN GOVERNMENT AND POLITICS	• Be able to have a fundamental understanding of working of Indian government in the backdrop of the critical Constitutional debates. • Be able to know how Indian political system has been working and the way it shapes institutions India and how institutions are shaped through interaction with actual politics. • Understand the idea of political system and the account of the making and working of constitutional institutions. • Be able to understand how the constitution was adopted and why not some other, how the institutions grow in the company of actual politics. • Critically analyze how to identify and explain the central principles, institutions, procedures, and decision-making processes of the Indian political system. • Evaluate the basic strengths and weaknesses of the Indian political system through the application of political concepts and ideas.
MAPOL -104	INTERNATIONAL POLITICS	• Understand the fundamental concepts, issues, and theories central to international politics. • Demonstrate capacity to theories and explain political outcomes. • Demonstrate familiarity with current political debates. • Demonstrate skills in critical thinking. • Demonstrate knowledge of social scientific inquiry norms and standards. • Demonstrate knowledge to political systems. • Apply theories and concepts to new situations
MA -1 (Semester-2)		
MAPOL	MODERN INDIAN	• Understand Indian political thinking through

-201	POLITICAL THOUGHT	modern Indian political thinkers developed during the times of freedom struggle. • Identify the role and contribution of modern Indian political thinkers in Indian political thought and freedom movement.
MAPOL -202	CONTEMPORARY ISSUES IN GLOBAL POLITICS	• Understand key issues and identify major challenges in global politics in the twenty first century. • Demonstrate the understanding of basic facts about the world. • Think analytically about the implementation of international human rights law and its limits in national setting.
MAPOL -203	LIBERAL POLITICAL THEORY	• Understand liberal political thinkers and ideology developed by key western political thinkers. • Develop greater understanding of the various forms of liberalism, both classical and modern. • Observe and reflect upon the modern application of liberal philosophy.
MAPOL -204	DEMOCRACY IN INDIA	• Be able to understand democratic institutions and processes in India. • Be able to understand the socio-economic factors influencing Indian democratic setup. • Trace the evolution of Local self-Government in India. • Be able to understand emerging trends in Indian democracy.

Department of Public Administration
Learning Objectives and Outcomes (Session 2018-19)
Name of Programme: Bachelor of Art (Subject- Pub Admins)

The programme is dedicated to maintaining an educational environment in which diversity can flourish and an atmosphere in which mutual respect characterizes relations among members of a pluralist community.

Learning Objectives

Following are the learning objectives:-

6. To enable the learners to thoroughly understand theories, concepts and practices relevant to public administration and its sub-fields.
7. Develop the conceptual foundation requisite for success in public administration careers.

8. Establish the ability to function effectively in complex, culturally diverse organizational structures.
9. Promote student commitment to ethical standards of managerial practice.

Programme Specific Outcomes:

Students who graduate with a B.A in Public Administration will

1. Understand the basic concepts of public administration
   a) General concept of public administration and bureaucracy.
   b) Understanding knowledge of human resource management.
   c) Understanding knowledge of public budgeting and finance.
   d) Understanding knowledge of policy analysis.
   e) Understanding knowledge of information management and technology.
   f) Understanding how administrative responsibility, accountability, efficiency, diversity, and teamwork within the context of government and non-profit public service programs.
2. Have the research skills to critically analyze public administration issues and analyze managerial issues and policy recommendations.
3. Have the ability to communicate and interact productively with a diverse and changing workforce and citizenry.
4. To enable the learners to develop/formulate a public policy response to social or economic problem.

Course Outcome:

Course Code	Course Name	Course Outcome
BA-121	ADMINISTRATIVE THEORY	To acquaint with the theories, approaches, concepts and principles of Public Administration
BA-221	INDIAN ADMINISTRATION	Understand the Constitutional Setting of the Indian Administration and various Governing Bodies under the Central Administration in India.
BA-321	PERSONNEL ADMINISTRATION IN INDIA	Demonstrate the basic concept and principles of PublicPersonnel Administration and types of personnel system.
BA-421	FINANCIAL ADMINISTRATION IN INDIA	Elaborate the process involved in Budgeting and the role of Ministry of Finance, Comptroller and Auditor General of India.
BA-521	LOCAL GOVERNMENT IN INDIA(with special reference to Punjab)	Describe the functioning of municipalities, Nagar Panchayats, Urban Programmes and Public-Private partnerships and understand the Panchayati Raj Institutions and the rural

		development programmes
BA-621	DEVEOPMENT ADMINISTRATION IN INDIA(with special reference to Punjab)	Explain the development administration process and Administrative Development in India and describe the officials role in development process and the impact of Liberalization, privatization and Globalisation in Rural, Urban and tribal development.

The Program Specific Outcomes and Course Outcomes of all the Programmes

2018-19

Program Name: Program Name: Bachelor of Arts
Course Name: Psychology

Learning Objectives:

Psychology is a scientific discipline and a profession. The course will demonstrate familiarity with major concepts, theoretical perspectives and historical trends. It develops understanding of various psychological principles of growth and development and individual differences.The study of Psychology at undergraduate level facilitate the students with the basic aspects of experimentation and testing in psychology so that students are able to conduct simple tests and experiments, write brief reports based on the findings from the tests and experiments. It enablesacquisition of basic skills for building responsible professionals in varied settings and encourages self-understanding, reflection and personal growth.Psychology major will develop a strong research background and understanding of the scientific foundation of psychology.

ProgrammeSpecific Outcome:

After completing the program, the student will be able

1. To understand basic concepts of psychology
2. To analyze and understand abnormal human behavior in practice
3. To understand the impact of environment, society and heredity on persons behaviour
4. To think scientifically about surrounding human behaviour
5. To gain understanding of human development
6. To develop knowledge and skills of psychological assessments
7. To use basic psychological tests and experiments
8. To understand how behaviour can be influenced by thoughts, emotions and the environment
9. To deal with challenges like everyday life stress, anxiety and depression and all other mentalhealth problems.

Course Outcome:

Course Code	Course	Course Outcome
BA-115	General Psychology- A	1.The students will be able to establish a solid foundation in psychological theories 2. The students will learn variety of research methods used in psychology 3. The knowledge will help the students to understand the concepts like intelligence and personality. 4. The students will be able to understand basic statistical concepts
BA-115 (P)	Practical	1. The students will be able to administer various tests of personality and Intelligence 2 The students will gain knowledge about how to use survey method in psychology
BA-215	General Psychology- B	1. The students will understand biological bases of human behaviour 2. The students will develop understanding of emotion, motivation and Sensory Processes 3. The students will be able to learn statistical techniques used in psychology 4. The students will learn the psychology concepts that can be applied in daily life
BA-215 (P)	Practical	1. The students will be practically able to administer tests of motivation, emotions and level of aspiration 2.The students will be able to understand and administer locus of control of the individual

BA-315	Experimental Psychology-I	1. The students will be able to understand various types of theories of Learning and memory 2. The students shall be able to make use of Normal Distribution Curve. 3. The students will develop an understanding of basics of experimental psychology.
BA-315 (P)	Practical	1.The students will gain practical knowledge about the administration of psychological experiments such as division of attention and maze learning 2 The students will be able to use various tests related to learning and memory
BA-415	Experimental Psychology-II	.1. The students will develop understanding of perceptual processes. 2. The students will gain knowledge of concepts of sensation, attention and perception. 3. The students shall be able to understand how bio-psychology is relevant in our daily lives 4. The students will gain knowledge about methods of psychophysics
BA-415 (P)	Practical	The students will gain knowledge about the experiments of perception and psychophysics
BA-515	Abnormal Psychology- A	1. The students will be able to understand various perspectives of psychopathology 2. The students will gain knowledge of nature, aetiology, symptoms and treatment of disorders. 3. The students will understand the criteria of abnormal behavior

BA-515 (P)	Practical	1.The students will be able to administer the tests of anxiety and adjustment 2. The students will be able to assess the general health of an individual 3. The students will gain knowledge about the projective tests.
BA- 615	Abnormal Psychology-B	1. The students will learn and apply various psychotherapies. 2. The students will understand substance related disorders 3. The students will gain knowledge about the applications of various psychotherapies
BA-615 (P)	Practical	1. The student will be able to make project report 2. The students will develop understanding of abnormal behaviour by doing practical work 3. The students will understand the process of case study

The Program Specific Outcomes and Course Outcomes of all the Programmes

Program Name: Master of Psychology
2018-19

Learning Objectives:

The course would allow students to nurture their academic interests in specialized domains of psychology along with quest for personal growth and citizenship. Keeping pace with the disciplinary advances, the program would address learning about psychological functioning at individual and social levels in an inclusive manner. It would facilitate acquiring specialized knowledge, inculcating relevant attitude, values and a sense of empowerment.MA psychology will develop professional skills that empower the students to gain employment as well as contribute towards the well-being of other individuals and promote harmony in the society. The course will familiarize the students with applications of psychological principles in different areas of Psychology and prepare the students for professional fields of psychology i.e. in the field of Clinical Psychology, Counseling,Organizational Psychology and Child Psychopathology etc. It also creates a strong research oriented theoretical foundation in consonance with recent advances in the discipline of psychology.

ProgrammeSpecific Outcome:

After completing the program, the student will be able

1. .To use knowledge and skill to work as clinical psychologist in hospitals and also as counselors in schools and other settings
2. To gain knowledge of the diagnosis, assessment and treatment of people with a range of psychological problems or disabilities.
3. To develop important clinical insights that can help the students to become future mental health care professional
4. To use psychological testing tools to assess the personality, intelligence and other psychological characteristics.
5. To enter into careers as professional psychologists competent in psychological assessment, intervention, research and evaluation in teaching and practice settings.
6. To apply the knowledge of psychology in their day to day interaction with the society and serve those who seek help in psychological aspects
7. To adopt a scientifically minded orientation to evaluating information presented to them and conduct sound research pertinent to the practice of psychology.
8. To develop knowledge of mental disorders/psychosocial impairments and skills to diagnose mental disorders.
9. To apply the skills gained during the course of study at clinical / industrial areas.
10. To develop an understanding of concepts and methods of psychology to pursue social work and even to choose psychology in competitive exams.

Course Outcome:

Course Code	Course	Course Outcome
MAPSY-101	Systems and Theories of Psychology	1. The student shall be able to understand the process of knowledge building in Psychology 2. The students would gain theoretical knowledge of historical developments in the field of Psychology. 3. The students will develop understanding of different school of thoughts that shaped Psychology as science. 4. The student shall be able to understand the significant contributions of major schools of Psychology

MAPSY-102	Social Psychology	1. The students will have understanding of some of the major theoretical perspectives in social psychology 2. The students will gain knowledge about how individual behaviour is influenced by socio-cultural factors. 3. The knowledge will enable the student to understand and explain behaviour in the social setting 4. The students shall be able to understand causes of human behavior and the psychological aspect of various social issues in the society and nation
MAPSY-103	Experimental Psychology	1. The students will have understanding of the basics of experimental psychology. 2. The students will gain knowledge about the applications of experimental psychology in learning, cognition and motivation. 3. The students shall be able to use the conceptual and experimental knowledge of conditioning in further research and its applications in everyday situations
MAPSY-104	Research Methods and Statistics in Psychology	1. The students will have understanding of research methodology as a process 2. The students will be able to use co relational techniques and various statistical techniques for psychological research 3. The students will develop thorough understanding of parametric and non-parametric techniques. 4. The knowledge will help the students to handle data at individual testing and then for the group.

MAPSY-105	Practicals (Familiarization with Psychological instruments, Field Studies & Computers)	1. The students will be able to learn and make use of various apparatus used in psychology. 2. The students will be aware about Psychological Experiments and Testing. 3. The students will gain practical knowledge about the administration of Psychological tests
MAPSY-201	Cognitive Psychology	1. The students will have understanding of human thinking and reasoning for the benefit of individual as well as society 2. The students will gain knowledge of major concepts, theoretical perspectives and empirical findings in cognitive psychology 3. The students will develop insights in the areas of Attention, Perception, Memory and Learning. 4. The knowledge will help the students to understand and apply the importance of these cognitive processes in everyday life
MAPSY-202	Physiological Psychology	1. The students will have understanding of different physiological systems involved in behaviour 2. The students will gain knowledge about how bio-psychology is relevant in our daily lives 3. The students acquire knowledge and understanding of structure and functions of Nervous System 4. The students will gain knowledge of research methods of physiological psychology

MAPSY-203	Experimental Designs in Psychology	1. The students will have understanding of the experimental designs in research. 2. The students will be able to use various factorial designs 3. The students would have knowledge of multiple comparison tests 4. The students will be able to employ various statistical techniques for psychological research
MAPSY-204	Environmental Psychology	1. The students will gain knowledge about the key concepts of environmental psychology 2. The students would become sensitized to the psychological impact of natural disasters, noise and air pollution 3. The students will have understanding of major theories that deal with human-environment relations 4. The students will be aware of the impact of physical surroundings on their behaviour
MAPSY-205	Practical (Cognitive Testing & Computers)	1. The students will gain knowledge about the administration of cognitive testing 2. The students will be able to use and interpret various tests in psychology 3. The students shall be able to understand cognitive assessment tools such as reasoning, problem solving, concept formation and memory etc.

MAPSY-301	Personality Theories	1. The students will have understanding of key personality theories. 2. The students will be able to observe and interpret individual differences in behaviour in light of theoretical systems of personality 3. The knowledge will acquaint the students with the applications of personality theories in different walks of life 4. The students will be able to understand individual differences in behaviour
MAPSY-302	Psychometrics	1. The students will have understanding of meaning and methods of psychological testing 2. The knowledge will acquaint the students with the characteristics of standardised tests 3. The students will develop knowledge about the psychometric theory and principles of test construction 4. The students will be able to apply different measurement techniques
MAPSY-303(i)	Life Span Development	1. The students will have understanding of meaning and methods of psychological testing 2. The knowledge will acquaint the students with the characteristics of standardised tests 3. The students will develop knowledge about the psychometric theory and principles of test construction 4. The students will be able to apply different measurement techniques

MAPSY-303(ii)	Health Psychology	1. The students will have understanding of nature and significance of emerging areas of health psychology 2. The students will be aware of the role of social, psychological and behavioural risk factors in health promotion and disease prevention 3. The students would gain knowledge about the treatment of issues relating to HIV Aids, Obesity and Substance abuse, interventions for managing stress 4. The students will be able to work in the area of health psychology
MAPSY-303(iii)	Positive psychology	1. The students would gain knowledge about the nature of positive psychology 2. The knowledge about human virtues and positive emotional states would enable the students to understand the relationship of these concepts with wellbeing and undertake research in this area 3. Knowledge about the latent role played by positive cognitive states in boosting well-being would prove an asset to the students in their profession.
MAPSY-304(i)	Industrial Psychology	1. The students would gain knowledge about the concepts and principles of Industrial psychology 2. The students will have understanding of major factors that influences the human performance and productivity in industry. 3. The students will gain knowledge about the theoretical perspectives of job satisfaction and motivation 4. The students would be able to design and analyse Personnel Selection and developmental procedures in Industrial setting.

MAPSY-304(ii)	Psychopathology	1. The students would gain knowledge about the symptomatology of psychological disorders 2. The students will have understanding of nature, aetiology and treatment of childhood disorders 3. The students will be able to apply various therapies used for treatment of different psychological disorders.
MAPSY-304(iii)	Intelligence & Creativity	1. The students would gain conceptual knowledge of intelligence and creativity 2. The students will have understanding theoretical foundations of intelligence 3. The students will gain knowledge about the historical perspectives and determinants of intelligence 4. The students will be able to understand the relationship between intelligence and creativity
MAPSY-305	Practicals (Field training, practicals& Computers)	1. The students will be able to assess individual personality, wellbeing etc. 2. The students shall be able to use various types of tests 3. The students will be able to administer tests such as GHQ, EQ etc.
MAPSY-401	Personality Assessment	1. The students would gain conceptual knowledge of purpose and use of psychological assessment 2. The students will develop skill in utilizing various tests in mental health setting 3. The students will be able to apply different assessment techniques in practical life 4. The students will gain knowledge about the various projective tests of personality

MAPSY-402	Research Methodology	1.The students will gain critical understanding of qualitative research methods in psychology 2. The students will be able to learn and apply appropriate research methods 3. The students will be able to understand & evaluate the significance of psychological research and findings 4. The students will have understanding of sampling techniques
MAPSY-403(i)	Counselling Psychology	1. The students will have understanding of historical roots of counselling psychology 2. The students will gain knowledge regarding the processes of counselling 3. The students will understand the dynamics of various approaches and areas of counselling 4. The students will be able to use different counselling skills and techniques for effective counselling treatment and prevention
MAPSY-403(ii)	Psychology of Criminal Behaviour	1. The students would be able to explain the various perspectives of Criminal Psychology. 2. The knowledge helps the student to work in diverse areas in which forensic psychologists might work 3. The students will have understanding of theory and practice of criminal psychology 4. The students will be able to use various psychological Measures in correction of crime

MAPSY-403(iii)	Sports Psychology	1. The students would understand the role of personality and motivation in sports 2. The students will gain knowledge regarding the role of training and other psychological interventions towards performance enhancement in sports 3. The students will understand the role of sport psychologist 4. The students will be able to learn and use various stress management techniques
MAPSY-404(i)	Media Psychology	1. The students will apply the media psychology theories while dealing with media audience and while planning different campaigns 2. The students will be able to promote positive views of media for the betterment of society
MAPSY-404(ii)	Organizational Behaviour	1. The students will gain knowledge of perspectives to organizational psychology and managerial assumptions about human nature. 2. The students will learn and use different techniques and strategies in Organizational Growth and Development 3. The students will able to implement techniques to deal the organization effectively 4. The students will have understanding of the researches and applications of organizational psychology.
MAPSY-404(iii)	Clinical Psychology	1. The students will gain knowledge about history taking and mental status examination 2. The students will be able to use psychotherapies in practice. 3. The students will develop understanding of various clinical disorders. 4. The students will understand the criteria of abnormal behaviour

MAPSY-404(iv)	Behavioural Economics	1. The students will gain knowledge of fundamental principles of Behavioural economics 2. The students will better analyse economic transactions from the angle of Psychology 3. The students will have understanding of the concepts like decision making and mental accounting
MAPSY-405	Practicals (Personality and ability testing & Computers)	1. The students will be able to do psychometric testing 2. The students will gain knowledge about personality and ability testing 3. The students will practically able to administrate psychological tests

DEPARTMENT OF ZOOLOGY

SESSION 2018-19

Programme Name : BSc (Honours) Zoology

ProgrammeSpecific Outcome:

- In-depth knowledge and understanding about the fundamental concepts, principles and processes underlying the academic field of Zoology and its different subfields
- Appreciate the complexity of life processes, their molecular, cellular and physiological processes, their genetics, evolution and behaviour and their interrelationships with the environment.
- Technical and analytical skills in modern biological research
- Acquisition of knowledge that creates different types of professionals in the field of Zoology and related fields such as, apiculture, aquarium fish keeping, medical diagnostics
- Prepare students to undertake careers in Biological Science.

Course Outcome:

Course Code	Course	Course Outcome
ZOO (H) CC101	Non Chordates I: Protists to Pseudocoelomates	• Develop understanding on the diversity of life • Ability to understand the major

		characteristics of Phylum Protista to Nematoda their diversity classification and importance
ZOO (H) CC 102	Principles of Ecology	Understanding of ecology at organism, population and community levels, various biotic and abiotic interactions , and basic skills for ecological investigation .
ZOO (H)CC 201	Non Chordates II:Coelomates	Ability to understand the major characteristics of Coelomates (Phylum Echinodermata)Annelida their diversity ,classification and importance
ZOO (H)CC 202	Cell Biology	Understanding of cell structure and function, functioning of signal transduction pathways and process of cell division and cell cycle . Able to demonstrate knowledge of the tools and methods needed to study structure of cell.
ZOO (H)CC 301	Diversity of Chordata	Ability to understand the major characteristics of Chordates , origin, their diversity ,classification and importance
ZOO (H)CC 302	Animal Physiology : Controlling and Coordinating Systems	• Ability to understand the different structure and function of various tissues and the physiology of the systems (Nervous, Muscle, Sensory and Endocrine) which control and coordinate the organism • Understand the organization of nervous system and process of nerve conduction. • Understand the process of vision and hearing • Understand the process of muscle contraction.
ZOO (H)CC 303	Fundamentals of Biochemistry	Ability to understand the structure and working mechanism of biomolecules responsible for life.
ZOO (H) CC 401	Comparative Anatomy of Vertebrates	Ability to understand and compare the anatomy of Vertebrates with respect to Functional and evolutionary significance .
ZOO (H)CC 402	Animal Physiology : Life sustaining Systems	Ability to understand the: • physiology of life sustaining systems : Digestion, Respiration, Renal, Blood and Circulation and Thermoregulation. • how mammalian body gets nutrition from different biomolecules. • Understand the mechanism and regulation of breathing, oxygen consumption and determination of respiratory quotient.

		• process of excretion. • Composition of blood and the process of blood circulation
ZOO (H) CC 403	Biochemistry of Metabolic Processes	Ability to understand the metabolism of Carbohydrates, Proteins, Lipids, Purines and Pyrimidines ; Role of Vitamins; Integration of metabolic pathways and their regulatory mechanisms
ZOO (H)CC : 111	Fundamentals of Molecular Biology	Ability to understand the principles of molecular biology and recombinant DNA Technology and to get practical skills in DNA isolation, amplification and separation
ZOO (H)CC : 112	Principles of Genetics	Acquisition of knowledge of • Mendelaian and post Mendalian modes of inheritance • Mutation and Mutagens • Transposable Genetic elements • Recombination in Bacteria and Viruses • ability to demonstrate Pedigree analysis • Interpretation of Karyotypes and construction of Linkage Maps
ZOO (H) CC : 113	Developmental Biology	Ability to understand the: • basic concepts of development: embryonic and postembryonic development • Explain and contrast the processes of spermatogenesis, oogenesis. • hormonal control of reproduction in males and female and how this is regulated • implication of teratogens and to identify their effects
ZOO (H)CC: 114	Evolutionary Biology	• Acquisition of in-depth knowledge on the diversity and relationships in animal world. • Ability to understand origin and evolution of Universe and Life • Understanding on the process and theories in evolutionary biology • Understanding of basic concepts of Population Genetics Phylogenetic trees and their interpretation
ZOO (H) (DSE) 301	Fundamentals of Entomology	Ability to • have in depth knowledge of general

		morphology, anatomy and physiology of an insect • apply the knowledge to identify the major economically important insects. • Understand the social organisation of insects
ZOO (H) (DSE)302	Immunology	Understanding of human immune system, its disorders and the basic immunological techniques.
ZOO (H) 303	Research methodology	Ability to • Understand research process, research methodologies, and foundational research theories and protocols. • identify a study topic, formulate inquiry questions, organize a literature review, and select appropriate research designs and methodologies. • write a research proposal that includes an introduction, problem statement (significance of study), literature review, methods section, references, and a project timeline.
ZOO (H) (DSE)304	Parasitology	•Able to identify the human and Veterinary parasites and the stages of their life cycle, prevalence and pathogenicity
ZOO (H) (DSE) 305	Wild Life Conservation	Ability to understand • how animals interact with each other and their natural environment • Major wildlife of India and the endangered species • Techniques followed in field of wildlife conservation • Develop the ability to use the fundamental principles of wildlife ecology to solve local, regional and national conservation and management issues through understanding of major wild life projects
ZOO (H) (DSE) 306	Economic Entomology and	• Students will gain an understanding of • the impacts of arthropods of economic importance particularly in agriculture

	Pest Management	• tactics and strategies employed in the management of pest species • utilization of beneficial species for commercial use
ZOO (H) (DSE) 307	Fish and Fisheries	The course is designed to make the student able toAbility to • identify the fish on the basis of general morphology • understand the Fish preservation • identify the Fish diseases- Bacterial, viral and parasitic • understand the challenges of aquaculture .
ZOO (H)(DSE)308	Animal Biotechnology	Ability to understand • Animal Cell culture methods • fundamental molecular tools and their applications of DNA modification and cloning • transgenic animals and their importance
ZOO (H) (DSE) 309	Animal Behaviour and chronobiology	Ability to understand • historical foundations of the field, current theories and major concepts for a broad range of behavioural topics. • how animals learn and communicate with each other • how they find food, avoid predators, choose their mates, and rear their offspring.
ZOO (H) GE 01	Animal Diversity	Acquisition of knowledge of diversity of Non Chordates and Chordates , their general features and importance.
ZOO (H) GE 04	Insect Vectors and diseases	• understanding of various insect vectors and the diseases caused by them. • Able to apply the acquired knowledge in preventive measures and control of the disease
ZOO (H) GE 02	Human Physiology	Ability to understand the physiology of different coordinating and life sustaining systems
ZOO (H) GE 03	Food Nutrition and Health	• Ability to understand the relationship between food, nutrition and health

		• Ability to know the major food and water borne and lifestyle diseases.
ZOO (H) (SEC) 101	Apiculture	• practical identification of honey bee species, equipments , diseases • knowledge of commercially important honey bee products. • setting up and maintainence of an apiary get self employed.
ZOO (H) (SEC) 102	Aquarium Fish keeping	Ability to • Get knowledge of exotic and endemic aquarium fish • Biology of aquarium fish • Get skill of Budgeting, Construction and Maintainence of Aquarium and transportation of fish • Set up aquarium fish keeping as cottage industry
ZOO (H) (SEC) 103	Biotechniques	Ability to know the • General safety measures to be followed in labs • principles and aquire skill in techniques of spectrophotometry, Chromatography, Electrophoresis, Microtomy
ZOO (H)(SEC) 104	Medical Diagnostics	Aquisition of • Skill in laboratory diagnostic methods (Blood and Urine), • Skill in Sterilisation techniques • knowledge of lab safety rules • Understanding of Infectious and Non Infectious Diseases
ZOO (H) (SEC) 105	Vermicompost Technology	Aquisition of skill of setting up vermicompost units at domestic level or commercial level.

Programme Name : MSc Zoology

ProgrammeSpecific Outcome:

- Developing deeper understanding of key concepts of biology at cellular, biochemical and molecular level as well as organism level
- Elucidation of animal interaction with other living organisms and the environment

- Strengthening knowledge and practical skills in light of advancements in instrumentation and techniques.
- Development of understanding of zoological sciences for its application in Entomology, Aquaculture, Veterinary , Agriculture and Modern Medicine
- Developing the ability to develop research question, organise relevant available literature, learning data handling and interpretation and developing technical writing skills

Course Code	**Course**	**Course Outcome**
MZOO CC 101	Biosystemetics and taxonomy	• Ability to understand the principles and practice of biosystematics • in depth knowledge on the diversity and relationships existing in the animal world • to develop a holistic appreciation of the phylogeny of animal world • use of different taxonomic tools used in the classification.
MZOO CC 102	Evolutionary Biology	Understanding of • evolutionary patterns and relationships , • Major Extinctions and their causes • concepts of Molecular Evolution.
MZOO CC 103	Metabolism : Concepts and Regulation	Ability to understand • the metabolic pathways and their linkage • metabolism of primary metabolites monosaccharides, lipids, amino acids • the mechanism of enzyme action.
MZOO CC 104	Molecular Cell Biology	Ability to understand • the transport across cell membrane • cell motility and energetics, • mechanism and regulation of cell cycle and the regulatory mechanisms of the cell
MZOO IDC 105A	General microbiology	Ability to • acquire knowledge of diversity of microorganisms • know the cell structure and function • understand the microbial growth and metabolism • demonstrate practical skills in fundamental

		microbiological techniques.
MZOO CC : 105	Genetics and Cytogenetics	Ability to understand • Mendelaian and post Mendalian modes of inheritance • Mutagens and their effects • Genetic analysis , • The Interpretatation of pathology of human chromosome • cause and effect of chromosome abnormalities and associated human diseases.
MZOO CC : 106	Fundamentals of Molecular Biology	Ability to • understand the principles of molecular biology and recombinant DNA Technology • get practical skills in DNA isolation, amplification and separation
MZOO CC : 107	Comparative animal physiology	Ability to understand • the basic physical and chemical principles underlying the physiological processes • Understand the relative positionof individual organs and associated structures and to understand the similarity in similar physiological mechanisms in very diverseorganism • how animals adapt physiologically to the environment changes.
MZOO CC : 108	Developmental Biology	Ability to understand • cell signalling underlying the development process • Axis and pattern formation in development • Environment cues in development • Development teratogens and their effects
MZOO IDC : 110 B	Biostatistics	Ability to understand and apply fundamental quantitative skills and statistical analysis so as to properly interpret published research and apply such skills in their own research

The Program Specific Outcomes and Course Outcomes of all the Programmes

Program Name: B.A. Music(Gurmat sangeet)

Learning outcomes:

The students of B.A. Music (Gurmat sangeet) programme will Understand, apply, and integrate foundational concepts of musical study in theory, aural skills, history, composition, improvisation, and keyboard competency, and do so independently and cooperatively. The course is designed Develop and demonstrate effective performance skills (technical and expressive) using critical thinking to inform historical and stylistic performance practices and artistic expression. The student will learn communication skills, including artistic self-expression, with diverse audiences through multiple media. The student will acquire a basic understanding of diverse musical systems and traditions across the world, and develop a sensitivity to and awareness of cultural and societal differences, and their contribution to an interdependent global consciousness.

Programme specific outcomes:

- To introduce the students to historical study of Gurmat sangeet.
- To enrich the students with knowledge about the development of Gurmat sangeet.

- To enable students to become efficient in the practical field of Gurmat sangeet Covering

Course Code	Course B.A.Music (Gurmat sangeet)	Course Outcome

various styles i.e. Classical, Semi-Classical, Folk, Light Music.

- To introduce the students to the contribution of Sikh Gurus in the creations of new String Instruments.
- To enable the students to know about the manufacturing structure of Gurmat instruments and their playing techniques.
- To introduce the students to the contribution of Sikh Gurus in the development of Gurmat sangeet.

Course Outcome:

BA-118	**Paper-I (Theory)** Paper-II (Practical)	The student will be learning about: • The student will be learning about the historical background, musical terms, role of Gurmat sangeet in human life. • The student will beable to learn aboutcontribution of different musicologist in the field ofGurmat sangeet. • The students will also know about the different rags and taals, and how string instruments are used.
BA-218	**Paper-I (Theory)** Paper-II (Practical)	The student will be learning about: • The student will be learning about the historical background, musical terms, role of music in human life and contribution of different musicologist in the field of music. • The students will also know about the different rags and taals, and how instruments are used • The students will ba eable to learn about the scientific and acoustic structure of musicology.
BA-318	**Paper-I (Theory)** Paper-II (Practical)	The student will be learning about: • The student will be learning about the historical background, musical terms, role of music in human life and contribution of different musicologist in the field of music. • The students will also know about the different rags and taals, and how instruments are used. • The students will be able to learn about the importance of music in life.
BA-418	**Paper-I (Theory)** Paper-II (Practical)	The student will be learning about: • The student will be learning about the historical background, musical terms, role of music in human life and contribution of different musicologist in the field of music. • The students will also know about the different rags and taals, and how instruments are used.

		• The students will be able to have the knowledge of various raags.
BA-518	**Paper-I (Theory)** Paper-II (Practical)	The student will be learning about: • The student will be learning about the historical background, musical terms, role of music in human life and contribution of different musicologist in the field of music. • Further the students will also know about the different rags and taals, and how instruments are used. • The students will be able to know the different gharanas.
BA-618	**Paper-I (Theory)** Paper-II (Practical)	The student will be learning about: • The student will be learning about the historical background, musical terms, role of music in human life and contribution of different musicologist in the field of music. • The students will also know about the different rags and taals, and how instruments are used. • The students will also know about the performance behavior.

The Program Specific Outcomes and Course Outcomes of all the Programmes

Program Name: B.A. Vocal (Music)

Session : (2018-19)

Learning outcomes:

The students of B.A. Music (Vocal) programme will Understand, apply, and integrate foundational concepts of musical study in theory, aural skills, history, composition, improvisation, and keyboard competency, and do so independently and cooperatively. The course is designed Develop and demonstrate effective performance skills (technical and expressive) using critical thinking to inform historical and stylistic performance practices and artistic expression. The student will learn communication skills, including artistic self-expression, with diverse audiences through multiple media. The student will acquire a basic understanding of diverse musical systems and traditions across the world, and develop a sensitivity to and awareness of cultural and societal differences, and their contribution to an interdependent global consciousness.

Programme specific outcomes:

To introduce the students to basic study of Indian Music along with historical study of Vocal music.

To enrich the students with knowledge about development of Indian music from ancient period to modern Period.

To enable students to become efficient in the practical field of Vocal in Indian Music Covering various styles i.e. Classical, Semi-Classical, Folk, Light Music.

To introduce the students to the contribution of Sikh Gurus in the creations of new gayan shellies in Indian Classical Music.

To enable the students to know about the voice culture.

Course Outcome:

Course Code	Course (B.A. Music Vocal)	Course Outcome
BA-122	**Paper I (Theory) Paper-II (Practical)**	The student will be learning about: • The student will be learning about the historical background, musical terms, role of music in human life and contribution of different musicologist in the field of Indian classical music. • The students will be able learn about the raag system of Indian classic music . • The students will also learn the various gayan shellies prevailed in indain classical music.
BA-222	**Paper I (Theory) Paper-II (Practical)**	The student will be learning about: • The student will be learning about the historical background, musical terms, role of music in human life and contribution of different musicologist in the field of music. • Further the students will also know about the various ragas and talas which are mainly focused in Indian classical Music.
BA-322	**Paper I (Theory) Paper-II (Practical)**	The student will be learning about: • Students will gain skills in practical access as well as knowledge and understanding of scores and techniques of score reading. • Students will gain basic performance skills and knowledge of pedagogical techniques in specific performance mediums. • Students will gain a basic understanding of the use of technology in music and music education.
BA-422	**Paper I (Theory) Paper-II (Practical)**	The student will be learning about: • Students will gain skills in conducting both instrumental and choral ensembles, as well as knowledge and understanding of scores and techniques of score reading. • Students will gain basic performance skills and knowledge of pedagogical techniques in specific performance mediums. • Students will gain a basic understanding of the use of technology in music and music education.

BA-522	**Paper I (Theory) Paper-II (Practical)**	The student will be learning about: • Music students will be able to perform as professional or will be prepared for entering graduate music study and for public school and studio teaching etc. in various fields of music. • Students will be able to create, analyze, and synthesize music as a means of supporting developing careers in music teaching and/or performance. • Students will be able to recognize, classify, and interpret a common body of western literature and individual repertory by written and oral means.
BA-622	**Paper I (Theory) Paper-II (Practical)**	The student will be learning about: The basic study of Indian classical Music along with historical study of Vocal Music. The different gayan shellies of Indian Classical Music. The knowledge about Notation system of Hindustani Music. The various singing styles of Indian classical music, semi-classical,folk music and shabad gayan in gurmat sangeet.

The Program Specific Outcomes and Course Outcomes of all the Programmes

Program Name: MA Music Vocal
Session: (2018-19)

Learning Objectives:

The students of MA Music Vocal Programme will have the theoretical and practical knowledge in the areas of Hindustani Classical Music, Semi-Classical, Folk, Light, Religious Music which are the various types of Indian Music. MA Music Vocal Programme focuses on professional music and Teaching areas like: - Music direction, Research in Musicology, Scientific study of Music etc. which are the key demands of every student in Music field for success and enabling the students to satisfy their ambitions.MA Music Vocalgraduates are trained with various Gayan shellies of Indian Classical Music. With the course, development of self-discipline in the students will give rise to better future in Music fields.It also leads to the better acknowledgment of their abilities like: knowledge regarding cultural music, Raag system of music, manufacturing and singing styles.

Programme Specific Outcome:

The students will be able:

1. The students will be able know about the various shellies of Hindustani classical music and study about the important granths of Indian classical music.
2. To learn about the theoretical behavior like technical and scientific terms and scales of music and essential aspects of music like voice culture.
3. To study the different terms of practical music like avaroh-avaroh, kan, murki etc.
4. To make the students well known about the development of Indian music in ancient to modern period and also about the proper study of gharanas.
5. The students will be able to know about the eminent music scholars and musicians.
6. To give the ability to understand the importance of shri guru granth granth sahib in Indian music and kirtan chownki parampara in Gurmat Sangeet .
7. The students will be able know about the various shellies of Hindustani music and study about the important granths of Indian music.

Course Outcome:

Course Code	Course	Course Outcome

MV	**MA 1st sem**	• The students will be able to learn about the technical and scientific terms and scales of music and essential aspects of music like voice culture. • The students will be able to study the different terms of practical music like avaroh-avaroh,kan,murki etc. • To make the students well known about the development of Indian music in ancient to modern period and also about the proper study of gharanas. • The students will be able to know about the eminent music scholars and musicians. • The ability to give the information of talas on hands as well as on tabla.
MV	**MA 2nd sem**	• The detailed study of swaras,gramas and technical terms of music will be defined by students. • The students will be able to learn about the comparative study of Hindustani and Karnataka styles of music. • The student wil be introduced to the cycle in the context of swara-samvada in Indian music. • The students will be interduced to the development of Indian music in different periods and contribution of Sikh Gurus. • The historical development of difeerent gayan shellies and khayal gharanas will be introduced to the students.

MV	**MA 3rd sem**	• The students will be able to know about theaesthetical study of indain classical music. • The students will be well known about thetraditional system of teaching music. • The students will be able to learn about different ragas and talas and their physics and aesthetical concepts. • The performance will be given by students with various gayan shellies of ragas and other practical manners. • The students will be able to know about the classical singing styles of Guru Granth Sahib.
MV	**MA 4th sem**	• The students will be able to know about the aesthetical theories of western scholars with respect to music. • The students will be able to know about the Rasa concept and relation of music with religion. • The students will be able to learn about the folk forms of music in Shri Guru Granth Sahib. • The students will know about the raga classification and raga dhyan values in Indian classical music. • The students will be able to know about the various table ghranas and will be able to perform with various gayan shellies of Indian classical music.

The Program Specific Outcomes and Course Outcomes

2018-19

Program Name: B.A. Instrumental (Music)

Learning outcomes:

The students of B.A. Music (Instrumental) programme will Understand, apply, and integrate foundational concepts of musical study in theory, aural skills, history, composition, improvisation, and keyboard competency, and do so independently and cooperatively. The course is designed Develop and demonstrate effective performance skills (technical and expressive) using critical thinking to inform historical and stylistic performance practices and artistic expression. The student will learn communication skills, including artistic self-expression, with diverse audiences through multiple media. The student will acquire a basic understanding of diverse musical systems and traditions across the world, and develop a sensitivity to and awareness of cultural and societal differences, and their contribution to an interdependent global consciousness.

Programme specific outcomes:

- To introduce the students to basic study of Indian Music along with historical study of instrumental music.
- To enrich the students with knowledge about development of Indian music from ancient period to modern Period.
- To enable students to become efficient in the practical field of Instruments in Indian Music Covering various styles i.e. Classical, Semi-Classical, Folk, Light Music.
- To introduce the students to the contribution of Sikh Gurus in the creations of new String Instruments.
- To enable the students to know about the manufacturing structure of instruments and their playing techniques.

Course Outcome:

Course Code	Course (B.A. Music Instrumental)	Course Outcome
BA-117	**Paper I (Theory) Paper-II (Practical)**	The student will be learning about: • The student will be learning about the historical background, musical terms, role of music in human life and contribution of different musicologist in the field of music. • Further the students will also know about the different rags and taals, and how instruments are used. • The students will also know about the analytical study of raag system.
BA-217	**Paper I (Theory) Paper-II (Practical)**	The student will be learning about: • The student will be learning about the historical background, musical terms, role of music in human life and contribution of different musicologist in the field of music. • Further the students will also know about the different rags and taals, and how instruments are used.
BA-317	**Paper I (Theory) Paper-II (Practical)**	The student will be learning about: • Students will gain skills in conducting both instrumental and choral ensembles, as well as knowledge and understanding of scores and techniques of score reading. • Students will gain basic performance skills and knowledge of pedagogical techniques in specific performance mediums. • Students will gain a basic understanding of the use of technology in music and music education.
BA-417	**Paper-I (Theory) Paper-II (Practical)**	The student will be learning about: • Students will gain skills in conducting both instrumental and choral ensembles, as well as knowledge and understanding of scores and techniques of score reading. • Students will gain basic performance skills and knowledge of pedagogical techniques in specific performance mediums. • Students will gain a basic understanding of the use of technology in music and music education.

BA-517	**Paper-I (Theory) Paper-II (Practical)**	The student will be learning about: Music students will be able to perform as soloists, ensemble members, and chamber musicians at appropriate levels for entering graduate music study and for public school and studio teaching. Students will be able to create, analyze, and synthesize music as a means of supporting developing careers in music teaching and/or performance. Students will be able to recognize, classify, and interpret a common body of western literature and individual repertory by written and oral means.
BA-617	**Paper-I (Theory) Paper-II (Practical)**	The student will be learning about: • About the basic study of Indian Music along with historical study of instrumental music. • About various VaadanShaillies. • The knowledge about Notation system of Hindustani Music.

ਸੈਸ਼ਨ 2018-19 ਵਿਚ ਪੜ੍ਹਾਏ ਜਾਣ ਵਾਲੇ ਸਿਲੇਬਸਾਂ ਦੇ ਗਿਆਨ ਵਰਧਕ ਸਿੱਟੇ

ਕੋਰਸ - ਬੀ.ਏ/ B.A.

ਸੈਸ਼ਨ 2018-19

ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੇ ਗਿਆਨ ਵਰਧਕ ਸਿੱਟੇ

ਉਦੇਸ਼ :

ਬੀ. ਏ ਦਾ ਕੋਰਸ ਕਰਨ ਦੁਆਰਾ ਵਿਦਿਆਰਥੀ ਵੱਖ- ਵੱਖ ਖੇਤਰਾਂ ਵਿੱਚ ਗਿਆਨ ਹਾਸਲ ਕਰਨ ਦੇ ਯੋਗ ਹੁੰਦੇ ਹਨ।

ਬੀ. ਏ ਵਿੱਚ ਪੰਜਾਬੀ ਲਾਜ਼ਮੀ ਅਤੇ ਪੰਜਾਬੀ ਸਾਹਿਤ ਦਾ ਵਿਸ਼ਾ ਪੜ੍ਹਨ ਦੁਆਰਾ ਸਾਹਿਤ ਲਿਖਣ ਪੜ੍ਹਨ ਦੇ ਨਾਲ-ਨਾਲ ਸਖ਼ਸ਼ੀਅਤ, ਸਮਾਜ ਅਤੇ ਹੋਰ ਬਹੁਪੱਖੀ ਵਿਚਾਰਧਾਰਵਾਂ ਬਾਰੇ ਜਾਣਨ ਦੇ ਯੋਗ ਹੁੰਦੇ ਹਨ ।

ਬੀ.ਏ ਪਾਸ ਕਰਨ ਉਪਰੰਤ :

1. ਬੀ.ਏ ਵਿੱਚ ਪੰਜਾਬੀ ਲਾਜ਼ਮੀ ਦਾ ਵਿਸ਼ਾ ਵਿਦਿਆਰਥੀਆਂ ਦੀ ਸਰਬਪੱਖੀ ਸਖ਼ਸ਼ੀਅਤ ਉਸਾਰੀ ਲਈ ਸਾਰਥਕ ਹੈ ।

2. ਇਹ ਵਿਸ਼ਾ ਵਿਦਿਆਰਥੀਆਂ ਲਈ ਵੱਖ-ਵੱਖ ਮੁਕਾਬਲੇ ਦੀਆਂ ਪ੍ਰੀਖਿਆਵਾਂ ਦੇ ਯੋਗ ਬਣਾਉਂਦਾ ਹੈ।

3. ਇਸ ਵਿਸ਼ਾ ਵਿਚ ਪੜ੍ਹਾਏ ਜਾਂਦੇ ਵਿਸ਼ੇ ਉਚੇਰੀ ਸਿੱਖਿਆ ਲਈ ਅਧਾਰ ਬਣਦੇ ਹਨ।

4. ਮਾਤ-ਭਾਸ਼ਾ ਦਾ ਇਹ ਵਿਸ਼ਾ ਵਿਦਿਆਰਥੀ/ਜਗਿਆਸੂ ਨੂੰ ਭਾਸ਼ਾ,ਸਾਹਿਤ,ਕਲਾ ਅਤੇ ਸਭਿਆਚਾਰ ਨਾਲ ਜੋੜ ਕੇ ਉੱਚਤਮ ਜੀਵਨ ਜਾਂਚ ਸਿਖਾਉਂਦਾ ਹੈ ।

5. ਇਹ ਵਿਸ਼ਾ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਚੇਤੰਨ ਅਤੇ ਚਿੰਤਨਸ਼ੀਲ ਬਣਾਉਣ ਦੇ ਨਾਲ-ਨਾਲ ਇਸ ਮਸ਼ੀਨੀ ਯੁੱਗ ਵਾਲੀ ਤਣਾਓ ਪੂਰਨ ਜਿੰਦਗੀ ਨਾਲ ਜੂਝਣ ਦੀ ਸਮਰੱਥਾ ਪੈਦਾ ਕਰਦਾ ਹੈ ।

6. ਇਹ ਵਿਸ਼ਾ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਅਤੇ ਗੁਰਮੁਖੀ ਲਿਪੀ ਵਿਚ ਨਿਪੁੰਨ ਬਣਾਉਦਾ ਹੈ ।

7. ਇਹ ਵਿਸ਼ਾ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਤਕਨਾਲੋਜੀ ਦੇ ਯੁੱਗ ਅੰਦਰ ਵੀ ਵਧੇਰੇ ਸੰਵੇਦਨਸ਼ੀਲ ਬਣਾਉਦਾ ਹੈ।

ਬੀ.ਏ ਭਾਗ –ਪਹਿਲਾ,ਸਮੈਸਟਰ ਪਹਿਲਾ/ B.A. – I, Sem-I

ਕੋਰਸ ਕੋਡ	ਕੋਰਸਦਾ ਨਾਂ	ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੇ ਗਿਆਨ ਵਰਧਕ ਸਿੱਟੇ

ਬੀਏ/ **BA 101**	ਪੰਜਾਬੀ ਲਾਜ਼ਮੀ	1. ਇਸ ਪਾਠਕ੍ਰਮ ਦਾ ਮਨੋਰਥ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਪੰਜਾਬੀ ਸਾਹਿਤ ਪੜ੍ਹਨ ਦੀ ਜਾਗ ਲਾਉਣਾ, ਉਨ੍ਹਾਂ ਅੰਦਰ ਰਚਨਾਤਮਕ ਰੁਚੀਆਂ ਪੈਦਾ ਕਰਨਾ ਅਤੇ ਆਧੁਨਿਕ ਸਮਾਜ ਵਿਚ ਫੈਲੇ ਵਿਰੋਧਾਂ, ਵਿਸੰਗਤੀਆਂ ਤੇ ਤਣਾਵਾਂ ਨੂੰ ਘਟਾਉਣਾ ਹੈ । 2. ਮਾਤ-ਭਾਸ਼ਾ ਦੇ ਵਿਆਕਰਨ ਦੇ ਵਿਭਿੰਨ- ਵਿਭਿੰਨ ਪੱਖਾਂ ਦਾ ਅਧਿਐਨ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਭਾਸ਼ਾ ਵਿਚ ਮੁਹਾਰਤ ਹਾਸਿਲ ਕਰਨ ਅਤੇ ਉਚੇਰੀ ਸਿੱਖਿਆ ਗ੍ਰਹਿਣ ਕਰਨ ਲਈ ਪ੍ਰੇਰਿਤ ਕਰਦਾ ਹੈ। 3. ਮਾਤ-ਭਾਸ਼ਾ ਦਾ ਗਿਆਨ ਭਾਸ਼ਾ ਦੀ ਅਮੀਰੀ ਅਤੇ ਮਹੱਤਤਾ ਨੂੰ ਉਜਾਗਰ ਕਰਦਾ ਹੈ। 4. ਮਨੁੱਖ ਦੀਆਂ ਵਿਵਹਾਰਕ ਲੋੜਾਂ ਨੂੰ ਮੁੱਖ ਰੱਖਦੇ ਹੋਏ ਚਿੱਠੀ-ਪੱਤਰ ਨੂੰ ਵੀ ਇਸ ਪਾਠਕ੍ਰਮ ਵਿਚ ਰੱਖਿਆ ਗਿਆ ਹੈ। 5. ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਸਮਾਜ ਵਿਚ ਫ਼ੈਲ ਰਹੇ ਦੁਰਾਚਾਰ ਅਤੇ ਸਮਾਜ ਨੂੰ ਦਰਪੇਸ਼ ਸਮੱਸਿਅਵਾਂ ਨਾਲ ਸੰਬੰਧਿਤ ਵਿਸ਼ਿਆ ਬਾਰੇ ਸੁਚੇਤ ਕਰਨਾ ਅਤੇ ਚਿੰਤਨਸ਼ੀਲ ਬਣਾਉਣਾ ਹੈ।
ਬੀਏ/ **BA 102**	ਪੰਜਾਬੀ ਸਾਹਿਤ	1. ਇਸ ਪਾਠਕ੍ਰਮ ਦਾ ਮਨੋਰਥ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਵਧੀਆ ਇਨਸਾਨ ਬਣਾਉਣਾ ਅਤੇ ਸਮਾਜ ਵਿਚ ਫ਼ੈਲ ਰਹੇ ਦੁਰਾਚਾਰ ਪ੍ਰਤੀ ਜਾਗਰੂਕ ਕਰਨਾ ਹੈ। 2. ਸਾਹਿਤ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਸਭਿਆਚਾਰ,ਇਤਿਹਾਸ, ਮਿਥਿਹਾਸ, ਧਰਮ ਅਤੇ ਵਿਚਾਰਧਾਰਕ ਤੌਰ ਤੇ ਜ਼ਮੀਨੀ ਹਕੀਕਤ ਨੂੰ ਸਮਝਣ ਵਿਚ ਸਮਰੱਥ ਹੁੰਦਾ ਹੈ। 3. ਸਾਹਿਤ ਦੇ ਰੂਪ ਕਵਿਤਾ ਮਨੁੱਖ ਨੂੰ ਤਣਾਓ ਭਰੀ ਜ਼ਿੰਦਗੀ ਵਿਚ ਵੀ ਜਿਊਂਣ ਦਾ ਬਲ ਅਤੇ ਸਮਰੱਥਾ ਬਖ਼ਸ਼ਦੀ ਹੈ। 4. ਪੰਜਾਬੀ ਸਾਹਿਤ ਦਾ ਇਤਿਹਾਸ ਮਨੱਖ ਨੂੰ ਜ਼ਿੰਦਗੀ ਜਿਊਣ ਦੀ ਸੇਧ ਅਤੇ ਵੱਖਰੇ-ਵੱਖਰੇ ਸਮਿਆਂ ਵਿਚ ਪੈਦਾ ਹੋਏ ਸਾਹਿਤ ਅਤੇ ਉਨ੍ਹਾਂ ਦੀਆ ਸਿਖਿਆਵਾਂ ਤੋਂ ਉਸਾਰੂ ਸੇਧ ਮਿਲਦੀ ਹੈ। 5. ਸਾਹਿਤ ਦੇ ਇਤਿਹਾਸ ਬਾਰੇ ਜਾਣਕਾਰੀ ਵਿਦਿਆਰਥੀਆਂ ਅੰਦਰ ਪੜ੍ਹਨ ਦੀ

		ਰੁਚੀ ਨੂੰ ਵਧੇਰੇ ਪ੍ਰਚੰਡ ਕਰਦੀ ਹੈ।

ਬੀ.ਏ ਭਾਗ –ਪਹਿਲਾ,ਸਮੈਸਟਰ ਦੂਜਾ/ B.A.- I, Sem- II

ਕੋਰਸ ਕੋਡ	ਕੋਰਸਦਾ ਨਾਂ	ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੇ ਗਿਆਨ ਵਰਧਕ ਸਿੱਟੇ
ਬੀਏ/ BA 201	ਪੰਜਾਬੀ ਲਾਜ਼ਮੀ	1. ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਪੰਜਾਬੀ ਸਾਹਿਤ ਦੇ ਵਾਰਤਕ ਦੇ ਵੱਖਰੇ-ਵੱਖਰੇ ਵਿਸ਼ਿਆਂ ਨੂੰ ਪੜ੍ਹਾਉਣ ਦਾ ਮਨੋਰਥ ਉਹਨਾਂ ਅੰਦਰ ਉਸਾਰੂ ਰੁਚੀਆਂ ਨੂੰ ਪੈਦਾ ਕਰਨਾ ਹੈ । 2. ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਅਤੇ ਧੁਨੀਆਂ ਦਾ ਅਧਿਐਨ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਭਾਸ਼ਾ ਦੀ ਸ਼ੁੱਧਤਾ,ਉਚਾਰਣ ਦੇ ਪੱਧਰ ਤੇ ਅਤੇ ਲੇਖਣ ਦੇ ਪੱਧਰ ਤੇ ਨਿਪੁੰਨ ਬਣਾਉਣਾ ਹੈ। ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੇ ਕੇਂਦਰੀ ਰੂਪ ਅਤੇ ਉਸ ਵਿਚ ਆ ਰਹੀਆਂ ਤਬਦੀਲੀਆਂ ਅਤੇ ਭਾਸ਼ਾ ਦੇ ਵੱਖਰੇ-ਵੱਖਰੇ ਰੂਪਾਂ ਬਾਰੇ ਜਾਣਕਾਰੀ ਦੇਣਾ ਹੈ । 3. ਲੋਕ ਮੇਲੇ ਅਤੇ ਤਿਉਹਾਰਾਂ ਸੰਬੰਧੀ ਅਧਿਐਨ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਆਪਣੇ ਸਭਿਆਚਾਰ ਅਤੇ ਲੋਕਧਾਰਾ ਦੇ ਨਿਕਟ ਅਧਿਐਨ ਅਤੇ ਵਿਸ਼ਵੀਕਰਨ ਦੇ ਪੱਧਰ ਤੇ ਆ ਰਹੀਆਂ ਤਬਦੀਲੀਆਂ ਬਾਰੇ ਵਡਮੁੱਲੀ ਜਾਣਕਾਰੀ ਦੇਣਾ ਅਤੇ ਉਹਨਾਂ ਅੰਦਰ ਸਵੈ-ਮਾਣ ਨੂੰ ਜਗਾਉਂਣਾ ਹੈ।
ਬੀਏ/ BA 202	ਪੰਜਾਬੀ ਸਾਹਿਤ	1. ਪੰਜਾਬੀ ਸਾਹਿਤ ਦਾ ਇਤਿਹਾਸ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਪੰਜਾਬੀ ਸਾਹਿਤ ਦੇ ਗੌਰਵਮਈ ਵਿਰਸੇ ਤੋਂ ਜਾਣੂ ਕਰਵਾਉਂਦਾ ਹੈ। 2. ਸਾਹਿਤ ਦੀਆਂ ਧਾਰਾਵਾਂ ਸਿੱਧੇ ਅਸਿੱਧੇ ਤੌਰ ਤੇ ਵਿਦਿਆਰਥੀ ਨੂੰ ਸਮਾਜ ਦੇ ਵਿਕਾਸ ਲਈ ਪ੍ਰਯਤਨਸ਼ੀਲ ਬਣਾਉਂਦੀਆਂ ਹਨ। 3. ਸਾਹਿਤ ਲੋਕ-ਰੂੜੀਆਂ ਨੂੰ ਵਿਗਿਆਨਕ ਦ੍ਰਿਸ਼ਟੀ ਤੋਂ ਸਮਝਣ ਦੀ ਜਾਂਚ ਸਿਖਾਉਂਦਾ ਹੈ । 4. ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਸਮਾਜ ਵਿਚ ਫ਼ੈਲ ਰਹੇ ਦੁਰਾਚਾਰ ਅਤੇ ਸਮਾਜ ਨੂੰ ਦਰਪੇਸ਼ ਸਮੱਸਿਅਵਾਂ ਨਾਲ ਸੰਬੰਧਿਤ ਵਿਸ਼ਿਆ ਬਾਰੇ ਸੁਚੇਤ ਕਰਨਾ ਅਤੇ ਚਿੰਤਨਸ਼ੀਲ ਬਣਾਉਣਾ ਹੈ।

ਬੀ.ਏ ਭਾਗ– ਦੂਜਾ/B.A.- II

ਸੈਸ਼ਨ 2018-19

ਬੀ.ਏ ਭਾਗ ਦੂਜਾ, ਸਮੈਸਟਰ ਤੀਜਾ/B.A.- II, Sem- III

ਕੋਰਸ ਕੋਡ	ਕੋਰਸਦਾ ਨਾਂ	ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੇ ਗਿਆਨ ਵਰਧਕ ਸਿੱਟੇ
ਬੀਏ/ BA 301	ਪੰਜਾਬੀ ਲਾਜ਼ਮੀ	1. ਸਮਕਾਲੀ ਪੰਜਾਬੀ ਕਵਿਤਾ ਸਮਕਾਲ ਦੀਆਂ ਵਿਭਿੰਨ ਵਿਭਿੰਨ ਵਿਸੰਗਤੀਆਂ ਪ੍ਰਤੀ ਚੇਤੰਨਤਾ ਪ੍ਰਦਾਨ ਕਰਦੀ ਹੋਈ ਵਿਦਿਆਰਥੀ ਨੂੰ ਸਮਾਜਿਕ ਸਮੱਸਿਆਵਾਂ ਨਾਲ ਜੂਝਣ ਦੀ ਸਮਰੱਥਾ ਅਤੇ ਜ਼ਿੰਦਗੀ ਜਿਊਣ ਦਾ ਬਲ ਸਿਖਾਉਂਦੀ ਹੈ। 2. ਸਮਕਾਲੀ ਪੰਜਾਬੀ ਕਹਾਣੀ ਸੰਗ੍ਰਹਿ ਦੇ ਮਾਧਿਅਮ ਰਾਹੀਂ ਵਿਦਿਆਰਥੀ ਨੂੰ ਸਾਹਿਤ ਪੜ੍ਹਨ ਦੀ ਲਗਨ ਲਾਉਣਾ ਅਤੇ ਇਸ ਪਾਠਕ੍ਰਮ ਦਾ ਮਨੋਰਥ ਸਮਾਜ ਵਿਚ ਕਿਤਾਬ ਸਭਿਆਚਾਰ ਪੈਦਾ ਕਰਨਾ ਹੈ। 3. ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੇ ਨੇਮ-ਪ੍ਰਬੰਧਾਂ ਤੋਂ ਜਾਣੂ ਕਰਵਾਉਣਾ ਹੈ । 4. ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਸਾਹਿਤ ਦੀ ਆਲੋਚਨਾ ਕਰਨ ਸੰਬੰਧੀ ਵੱਖਰੀਆਂ-ਵੱਖਰੀਆਂ ਪ੍ਰਣਾਲੀਆਂ ਤੋਂ ਜਾਣੂ ਕਰਵਾਉਣਾ ਤੇ ਆਪਣੇ ਜੀਵਨ ਵਿਚ ਵੱਖ-ਵੱਖ ਵਰਤਾਰਿਆਂ ਨੂੰ ਘੋਖਣ ਦੀ ਸੂਝ ਪੈਦਾ ਕਰਨਾ ਹੈ। 5. ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਸਭਿਆਚਾਰ ਦੇ ਸੰਕਲਪ ਦੀ ਜਾਣਕਾਰੀ ਦੇਣ ਲਈ ਸਮਾਜ ਵਿਚ ਪੈਦਾ ਹੋਈਆਂ ਕੁਰੀਤੀਆਂ ਨੂੰ ਖ਼ਤਮ ਕਰਨਾ ਅਤੇ ਨਿਰੋਏ ਸਭਿਅਕ ਸਮਾਜ ਦੀ ਸਿਰਜਣਾ ਕਰਨਾ ਹੈ।
ਬੀਏ/ BA 302	ਪੰਜਾਬੀ ਸਾਹਿਤ	1. ਇਸ ਸਿਲੇਬਸ ਦਾ ਮਨੋਰਥ ਵਿਦਿਆਰਥੀਆਂ ਅੰਦਰ ਰਚਨਾਤਮਕ ਰੁਚੀਆਂ ਪੈਦਾ ਕਰਨਾ ਹੈ। 2. ਪੰਜਾਬੀ ਸਾਹਿਤ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਮੱਧਕਾਲੀ ਪੰਜਾਬੀ ਸਾਹਿਤ ਸਮਾਜ ਦੀ ਬਣਤਰ ਅਤੇ ਸਮਾਜਿਕ ਸਥਿਤੀਆਂ ਬਾਰੇ ਜਾਣੂ ਕਰਵਾਉਦਾ ਹੈ । 3. ਇਸ ਸਿਲੇਬਸ ਦਾ ਮਨੋਰਥ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਆਧੁਨਿਕ ਸਾਹਿਤ ਰੂਪ 'ਕਹਾਣੀ' ਦੇ ਮਾਧਿਅਮ ਰਾਹੀ ਸਮਾਜ ਵਿਚ ਵਾਪਰ ਰਹੇ ਵਭਿੰਨ ਵਰਤਾਰਿਆ ਤੋਂ ਜਾਣੂ ਕਰਵਾਉਦਾ ਹੈ। 4. ਇਸ ਸਿਲੇਬਸ ਦੇ ਮਾਧਿਅਮ ਰਾਹੀਂ ਵਿਦਿਆਰਥੀ ਸਾਹਿਤ ਦੇ ਵੱਖ-ਵੱਖ

		ਸਾਹਿਤ ਰੂਪਾਂ ਦੇ ਨੇਮ ਵਿਧਾਨ ਤੋਂ ਜਾਣੂ ਹੁੰਦਾ ਹੈ।

ਬੀ.ਏ ਭਾਗ ਦੂਜਾ, ਸਮੈਸਟਰ ਚੌਥਾ/B.A.- II, Sem- IV

ਕੋਰਸ ਕੋਡ	ਕੋਰਸਦਾ ਨਾਂ	ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੇ ਗਿਆਨ ਵਰਧਕ ਸਿੱਟੇ
ਬੀਏ/ BA 401	ਪੰਜਾਬੀ ਲਾਜ਼ਮੀ	1. ਪੰਜਾਬੀ ਸਾਹਿਤ ਦਾ ਰੂਪ ਨਾਟਕ ਵਿਦਿਆਰਥੀ-ਮਨ ਦਾ ਵਿਰੇਚਨ ਕਰਦੇ ਹੋਏ, ਉੱਚਤਮ ਜੀਵਨ ਜਾਂਚ ਸਿਖਾਉਂਦਾ ਹੈ । 2. ਨਾਟਕ ਵਿਦਿਆਰਥੀਆਂ ਅੰਦਰ ਕਲਪਨਾ ਦੇ ਅੰਸ਼ ਪੈਦਾ ਕਰਕੇ ਸਮਾਜਿਕ ਯਥਾਰਥ ਨਾਲ ਜੋੜਦਾ ਹੈ । 3. ਗੁਰਮੁਖੀ ਲਿੱਪੀ ਦਾ ਇਤਿਹਾਸ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਭਾਸ਼ਾ ਲਿਖਣ ਦੇ ਸਮਰੱਥ ਅਤੇ ਮਨੁੱਖੀ ਭਾਸ਼ਾ ਦੇ ਇਤਿਹਾਸ ਨੂੰ ਸਮਝਣ ਵਿਚ ਪ੍ਰਮੁੱਖ ਰੋਲ ਅਦਾ ਕਰਦਾ ਹੈ । 4. ਮੁਹਾਵਰਿਆਂ ਦਾ ਅਧਿਐਨ ਵਿਦਿਆਰਥੀਆਂ ਦੀ ਵਿਵਹਾਰਕ ਗਿਆਨ ਵਿਚ ਵਾਧਾ ਕਰਦਾ ਹੈ । 5. ਮੱਧਕਾਲੀ ਪੰਜਾਬੀ ਸਾਹਿਤ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਮੱਧਕਾਲੀ ਸਮਾਜ ਦਾ ਗਿਆਨ ਦਿੰਦੇ ਹੋਏ, ਸਾਹਿਤ ਦੇ ਵਿਭਿੰਨ ਰੂਪਾਕਾਰ ਅਤੇ ਉਹਨਾਂ ਦੀ ਆਪੋ-ਆਪਣੀ ਸਾਹਿਤਕ ਮਹੱਤਤਾ ਤੋਂ ਜਾਣੂ ਕਰਵਾਉਂਦਾ ਅਤੇ ਜ਼ਿੰਦਗੀ ਜਿਊਣ ਦੀ ਜਾਂਚ ਸਿਖਾਉਂਦਾ ਹੈ।
ਬੀਏ/ BA 402	ਪੰਜਾਬੀ ਸਾਹਿਤ	1. ਇਸ ਪਾਠਕ੍ਰਮ ਦਾ ਮਨੋਰਥ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਉਚਤਮ ਅਤੇ ਸੁਚਾਰੂ ਜੀਵਨ ਜਾਂਚ ਪ੍ਰਦਾਨ ਕਰਨਾ ਹੈ। 2. ਇਸਦੇ ਅੰਤਰਗਤ ਮੱਧਕਾਲੀ ਸਾਹਿਤ, ਸਭਿਆਚਾਰ ਅਤੇ ਪੰਜਾਬੀ ਸਭਿਆਚਾਰ ਅਤੇ ਪੱਛਮੀ ਆਲੋਚਨਾ ਪ੍ਰਣਾਲੀਆਂ ਨਾਲ ਸੰਬੰਧਤ ਮੂਲ ਸੰਕਲਪਾਂ ਨੂੰ ਸਿਲੇਬਸ ਵਿਚ ਸ਼ਾਮਿਲ ਕੀਤਾ ਗਿਆ ਹੈ। 3. ਇਸ ਪਾਠਕ੍ਰਮ ਦੇ ਅਧੀਨ ਵਿਦਿਆਰਥੀ ਮੱਧਕਾਲੀ ਧਾਰਾਵਾਂ (ਸੂਫ਼ੀ ਕਾਵਿ, ਕਿੱਸਾ ਕਾਵਿ, ਬੀਰ ਕਾਵਿ) ਵਿਦਿਆਰਥੀਆਂ ਦੇ ਜੀਵਨ ਵਿਚ ਰਾਹ ਮੁਨਾਰੇ ਦਾ ਕੰਮ ਕਰਦੀਆਂ ਹਨ ।

		4. ਇਸ ਪਾਠਕ੍ਰਮ ਦਾ ਮਨੋਰਥ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਸਮਾਜਿਕ ਸਰੋਕਾਰਾਂ ਨਾਲ ਜੋੜਨਾ ਅਤੇ ਉਹਨਾਂ ਦੀ ਸ਼ਖ਼ਸੀਅਤ ਵਿੱਚ ਨਿਖਾਰ ਵੀ ਲਿਆਉਣਾ ਹੈ। 5. ਇਸ ਪਾਠਕ੍ਰਮ ਦਾ ਮਨੋਰਥ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਚੇਤੰਨ ਅਤੇ ਚਿੰਤਨਸ਼ੀਲ ਬਣਾਉਣ ਦੇ ਨਾਲ-ਨਾਲ ਇਸ ਮਸ਼ੀਨੀ ਯੁੱਗ ਵਾਲੀ ਤਣਾਓ ਪੂਰਨ ਜਿੰਦਗੀ ਨਾਲ ਜੂਝਣ ਦੀ ਸਮਰੱਥਾ ਪੈਦਾ ਕਰਨਾ ਅਤੇ ਉਹਨਾਂ ਨੂੰ ਸੰਵੇਦਨਸ਼ੀਲ ਬਣਾਉਣਾ ਹੈ।

ਬੀ.ਏ ਭਾਗ- ਤੀਜਾ/ B.A.-III

ਸੈਸ਼ਨ 2018-19

ਬੀ.ਏ ਭਾਗ-ਤੀਜਾ, ਸਮੈਸਟਰ-ਪੰਜਵਾਂ/B.A.- III, Sem- V

ਕੋਰਸ ਕੋਡ	ਕੋਰਸਦਾ ਨਾਂ	ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੇ ਗਿਆਨ ਵਰਧਕ ਸਿੱਟੇ
ਬੀਏ/ BA 501	ਪੰਜਾਬੀ ਲਾਜ਼ਮੀ	1. ਇਸ ਪਾਠਕ੍ਰਮ ਦੀ ਪੜ੍ਹਾਈ ਨਾਲ ਵਿਦਿਆਰਥੀ ਨੂੰ ਸੁਚਾਰੂ ਜੀਵਨ ਜਾਂਚ ਦੀ ਸਿੱਖਿਆ ਮਿਲਦੀ ਹੈ। 2. ਇਸ ਪਾਠਕ੍ਰਮ ਵਿੱਚ ਲੱਗੇ ਨਾਵਲ ਦਾ ਅਧਿਐਨ ਵਿਦਿਆਰਥੀ ਨੂੰ ਸਮਾਜ ਵਿਚਲੇ ਅਣਗੌਲੇ ਕਿਰਦਾਰਾਂ ਨੂੰ ਰੂਬਰੂ ਕਰਵਾ ਕੇ ਵਿਵੇਕਸ਼ੀਲ ਬਣਾਉਂਦਾ ਹੈ। 3. ਇਹ ਪਾਠਕ੍ਰਮ ਨਾ ਕੇਵਲ ਵਿਦਿਆਰਥੀ ਨੂੰ ਮਾਤ-ਭਾਸ਼ਾ ਨਾਲ ਜੋੜਦਾ ਹੈ ਬਲਕਿ ਉਸਦੇ ਮਨ ਅੰਦਰ ਮਾਤ ਭਾਸ਼ਾ ਪ੍ਰਤੀ ਸਤਿਕਾਰ ਪੈਦਾ ਵੀ ਕਰਦਾ ਹੈ। 4. ਇਹ ਪਾਠਕ੍ਰਮ ਵਿਦਿਆਰਥੀ ਦੀ ਕੁਸ਼ਲ ਲੇਖਣੀ,ਭਾਸ਼ਾ ਦੇ ਸ਼ੁੱਧ ਉਚਾਰਨ ਵਿੱਚ ਮਦਦਗਾਰ ਸਾਬਿਤ ਹੁੰਦਾ ਹੈ। 5. ਇਹ ਪਾਠਕ੍ਰਮ ਵਿਦਿਆਰਥੀ ਨੂੰ ਵਿਅਕਤੀਗਤ ਪੱਧਰ ਤੇ ਇੱਕ ਸੁੱਚਜੀ ਜੀਵਨ ਜਾਂਚ ਅਤੇ ਸਮਾਜਿਕ ਸੂਝ-ਬੂਝ ਵੀ ਪ੍ਰਦਾਨ ਕਰਦਾ ਹੈ।
ਬੀਏ/ BA 502	ਪੰਜਾਬੀ ਸਾਹਿਤ	**1.** ਇਹ ਪਾਠਕ੍ਰਮ ਵਿਦਿਆਰਥੀਆਂ ਦੀਆਂ ਨਾ ਕੇਵਲ ਅੜ੍ਰਿਪਤ ਸੰਵੇਦਨਾਵਾਂ ਨੂੰ ਹੁਲਾਰਾ ਦਿੰਦਾ ਹੈ ਬਲਕਿ ਉਸਦੀ ਲੇਖਣ ਪ੍ਰਤਿਭਾ ਨੂੰ ਸਹੀ ਦਿਸ਼ਾ ਪ੍ਰਦਾਨ ਕਰਦਾ ਹੈ।। 2. ਇਹ ਪਾਠਕ੍ਰਮ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਸਮਾਜਿਕ ਵਿਸੰਗਤੀਆਂ,ਪ੍ਰਾਚੀਨ ਵਿਰਾਸਤ,ਉਸਦੇ ਧਰਾਤਲ,ਭਾਸ਼ਾ ਆਦਿਕ ਪ੍ਰਤੀ ਲਾਹੇਵੰਦ ਸਮੱਗਰੀ ਪ੍ਰਦਾਨ ਕਰਦਾ

		ਹੈ। 3. ਕਵਿਤਾ ਦਾ ਇਤਿਹਾਸ,ਇਸਦੀ ਮੁੱਢਲੀ ਜਾਣਕਾਰੀ,ਇਸਦੇ ਗਹਿਨ ਅਧਿਐਨ ਨਾਲ ਵਿਦਿਆਰਥੀਆਂ ਅੰਦਰ ਕਾਵਿ ਸਿਰਜਣਾ ਪੈਦਾ ਕਰਨ ਦੇ ਯੋਗ ਬਣਦਾ ਹੈ। 4. ਨਾਟਕ ਵਿਦਿਆਰਥੀਆਂ ਅੰਦਰ ਇੱਕ ਕਲਪਨਿਕ ਦ੍ਰਿਸ਼ ਸਾਕਾਰ ਕਰਕੇ ਉਸਦੀ ਕਲਪਨਿਕ ਸ਼ਕਤੀ ਨੂੰ ਯਥਾਰਥਕ ਰੂਪ ਦਿੰਦਾ ਹੈ। 5. ਸਾਹਿਤ ਦੀਆਂ ਧਾਰਾਵਾਂ ਸਿੱਧੇ ਅਸਿੱਧੇ ਤੌਰ ਤੇ ਵਿਦਿਆਰਥੀ ਨੂੰ ਸਮਾਜ ਦੇ ਵਿਕਾਸ ਲਈ ਪ੍ਰਯਤਨਸ਼ੀਲ ਬਣਾਉਂਦੀਆਂ ਹਨ। 6. ਇਹ ਪਾਠਕ੍ਰਮ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਸਵੈ ਦੀ ਪੜਚੋਲ ਕਰਨ ਦੇ ਨਾਲ-ਨਾਲ ਚਿੰਤਨਸ਼ੀਲ ਬਣਾਉਂਦਾ ਹੈ ਅਤੇ ਆਦਰਸ਼ਕ ਸਮਾਜ ਸਿਰਜਣ ਲਈ ਪ੍ਰੇਰਿਤ ਕਰਦਾ ਹੈ।

ਬੀ.ਏ ਭਾਗ-ਤੀਜਾ ਸਮੈਸਟਰ-ਛੇਵਾਂ B.A.- III, Sem- VI

ਕੋਰਸ ਕੋਡ	ਕੋਰਸਦਾ ਨਾਂ	ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੇ ਗਿਆਨ ਵਰਧਕ ਸਿੱਟੇ
ਬੀਏ/ BA 601	ਪੰਜਾਬੀ ਲਾਜ਼ਮੀ	1. ਇਹ ਪਾਠਕ੍ਰਮ ਪੰਜਾਬੀ ਲੋਕਧਾਰਾ ਦਾ ਨਿਕਟ ਅਧਿਐਨ ਕਰਵਾ ਕੇ ਉਸਦੇ ਵੱਖਰੇ-ਵੱਖਰੇ ਪੱਖਾਂ ਨੂੰ ਉਜਾਗਰ ਕਰਦਾ ਅਤੇ ਆਪਣੇ ਮਾਣ-ਮੱਤੇ ਵਿਰਸੇ ਪ੍ਰਤੀ ਸਤਿਕਾਰ ਦੀ ਭਾਵਨਾ ਪੈਦਾ ਕਰਦਾ ਹੈ। 2. ਲੋਕਧਾਰਾਈ ਵਰਤਾਰਿਆਂ ਬਾਰੇ ਮੁੱਢਲੀ ਜਾਣਕਾਰੀ ਦੇ ਕੇ ਵਿਦਿਆਰਥੀ ਨੂੰ ਅਪਣੇ-ਆਲੇ ਦੁਆਲੇ ਪ੍ਰਤੀ ਉਸਦੀ ਜਿੰਮੇਵਾਰੀ ਦਾ ਬੋਧ ਕਰਵਾਉਂਦਾ ਹੈ। 3. ਵਿਸ਼ਵੀਕਰਨ ਦੇ ਵੱਧਦੇ ਪਸਾਰ ਨੂੰ ਦੇਖਦਿਆਂ ਇਹ ਪਾਠਕ੍ਰਮ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਵੱਖਰੀਆਂ-ਵੱਖਰੀਆਂ ਭਾਸ਼ਾਵਾਂ ਦੇ ਗਿਆਨ ਅਤੇ ਅਨੁਵਾਦ ਕਰਨ ਦੇ ਸਮਰੱਥ ਬਣਾਉਂਦਾ ਹੈ। 4. ਇਹ ਪਾਠਕ੍ਰਮ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਮਾਤ-ਭਾਸ਼ਾ ਦੇ ਨੇਮਾਂ ਸੰਬੰਧੀ ਜਾਗਰੂਕ ਕਰਦਾ ਹੈ ਅਤੇ ਸੰਚਾਰ ਲਈ ਉਸਦੇ ਵਾਕ ਬੋਧ ਨੂੰ ਨਿਖਾਰਦਾ ਅਤੇ ਉਸ ਅੰਦਰ ਸਲੀਕਾ ਪੈਦਾ ਕਰਦਾ ਹੈ।
ਬੀਏ/ BA 602	ਪੰਜਾਬੀ ਸਾਹਿਤ	1. ਅਜੋਕੇ ਮਸ਼ੀਨੀਕਰਨ ਦੇ ਦੌਰ ਅੰਦਰ ਸਾਹਿਤ ਹੀ ਵਿਦਿਆਰਥੀ ਨੂੰ ਨਿੱਜਤਵ ਤੋਂ ਪਰ੍ਹੇ ਸਮੂਹਗਤ ਸਮਾਜਿਕ ਵਿਡੰਬਨਾਵਾਂ ਪ੍ਰਤੀ ਚਿੰਤਿਤ ਕਰਦਾ ਹੈ। 2. ਇਹ ਪਾਠਕ੍ਰਮ ਵਿਦਿਆਰਥੀ ਨੂੰ ਕਵਿਤਾ ਰਚਨਾ ਤੋਂ ਪਹਿਲਾਂ ਉਸਦੇ

		ਇਤਿਹਾਸ,ਨਿਕਾਸ ਅਤੇ ਵਿਕਾਸ ਦੇ ਨਾਲ-ਨਾਲ ਉਸਦੇ ਸੁਨਹਿਰੀ ਭਵਿੱਖ ਦਾ ਬੋਧ ਕਰਾ ਕੇ ਉਸਨੂੰ ਇੱਕ ਕੁਸ਼ਲ ਲੇਖਣੀ ਲਈ ਉਤਸ਼ਾਹਿਤ ਕਰਦਾ ਹੈ। 3. ਸਾਹਿਤ ਦਾ ਵਿਸ਼ੇਸ਼ ਰੂਪ ਸਫ਼ਰਨਾਮਾ ਵਿਦਿਆਰਥੀ ਨੂੰ ਦੇਸ਼-ਵਿਦੇਸ਼ ਦੇ ਧਰਾਤਲ, ਜਲਵਾਯੂ, ਆਕਰਸ਼ਕ ਥਾਵਾਂ ਪ੍ਰਤੀ ਮਨੋਰੰਜਨੀ ਢੰਗ ਨਾਲ ਲੋੜੀਂਦਾ ਗਿਆਨ ਦੇਣ ਦੇ ਸਮਰੱਥ ਹੁੰਦਾ ਹੈ। 4. ਸਾਹਿਤ ਦੀਆਂ ਵਿਭਿੰਨ-ਵਿਭਿੰਨ ਵਿਧਾਵਾਂ ਦਾ ਡੂੰਘਾ ਅਧਿਐਨ ਵਿਦਿਆਰਥੀ ਮਨ ਅੰਦਰਲੇ ਸਾਹਿਤਕਾਰ ਨੂੰ ਇੱਕ ਸਹੀ ਸੇਧ ਪ੍ਰਦਾਨ ਕਰਦਾ ਹੈ। 5. ਇਹ ਪਾਠਕ੍ਰਮ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਗਿਆਨ ਭਰਪੂਰ ਜਾਣਕਾਰੀ ਦਿੰਦਾ ਹੈ ਅਤੇ ਉਸਦੇ ਮਨ ਦੀਆਂ ਅਤ੍ਰਿਪਤ ਸੰਵੇਦਨਾਵਾਂ ਨੂੰ ਇੱਕ ਸੇਧ ਪ੍ਰਦਾਨ ਕਰਦਾ ਹੋਇਆ ਇੱਕ ਸੁੱਚਜੀ ਜੀਵਨ-ਜਾਂਚ ਵੀ ਸਿਖਾਉਂਦਾ ਹੈ।

ਕੋਰਸ - ਬੀ.ਬੀ.ਏ/ B.B.A.

ਸੈਸ਼ਨ 2018-19

ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੇ ਗਿਆਨ ਵਰਧਕ ਸਿੱਟੇ

ਉਦੇਸ਼ :

ਬੀ. ਬੀ. ਏ/ ਬੀ. ਵੋਕੇਸ਼ਨਲ (ਆਰ. ਐੱਮ) ਦੇ ਕੋਰਸ ਵਿੱਚ ਪੰਜਾਬੀ ਲਾਜ਼ਮੀ ਦਾ ਵਿਸ਼ਾ ਪੜ੍ਹਨ ਦੁਆਰਾ ਸਾਹਿਤ ਲਿਖਣ- ਪੜ੍ਹਨ ਦੇ ਨਾਲ-ਨਾਲ ਸਖ਼ਸ਼ੀਅਤ, ਸਮਾਜ ਅਤੇ ਹੋਰ ਬਹੁਪੱਖੀ ਵਿਚਾਰਧਾਰਵਾਂ ਬਾਰੇ ਜਾਣਨ ਦੇ ਯੋਗ ਹੁੰਦੇ ਹਨ ।

ਬੀ.ਬੀ.ਏ/ਬੀ. ਵੋਕੇਸ਼ਨਲ (ਆਰ. ਐੱਮ) ਪਾਸ ਕਰਨ ਉਪਰੰਤ :

1. ਇਹ ਵਿਸ਼ਾ ਵਿਦਿਆਰਥੀਆਂ ਦੀ ਸਰਬਪੱਖੀ ਸਖ਼ਸ਼ੀਅਤ ਉਸਾਰੀ ਲਈ ਸਾਰਥਕ ਹੈ ।
2. ਇਹ ਵਿਸ਼ਾ ਵਿਦਿਆਰਥੀਆਂ ਲਈ ਵੱਖ-ਵੱਖ ਮੁਕਾਬਲੇਦੀਆਂ ਪ੍ਰੀਖਿਆਵਾਂ ਦੇ ਯੋਗ ਬਣਾਉਂਦਾ ਹੈ।
3. ਇਸ ਵਿਸ਼ਾ ਵਿਚ ਪੜ੍ਹਾਏ ਜਾਂਦੇ ਵਿਸ਼ੇ ਉਚੇਰੀ ਸਿੱਖਿਆ ਲਈ ਅਧਾਰ ਬਣਦੇ ਹਨ।
4. ਮਾਤ-ਭਾਸ਼ਾ ਦਾ ਇਹ ਵਿਸ਼ਾ ਵਿਦਿਆਰਥੀ/ਜਗਿਆਸੂ ਨੂੰ ਭਾਸ਼ਾ,ਸਾਹਿਤ,ਕਲਾ ਅਤੇ ਸਭਿਆਚਾਰ ਨਾਲ ਜੋੜ ਕੇ ਉੱਚਤਮ ਜੀਵਨ ਜਾਂਚ ਸਿਖਾਉਂਦਾ ਹੈ ।
5. ਇਹ ਵਿਸ਼ਾ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਚੇਤੰਨ ਅਤੇ ਚਿੰਤਨਸ਼ੀਲ ਬਣਾਉਣ ਦੇ ਨਾਲ-ਨਾਲ ਇਸ ਮਸ਼ੀਨੀ ਯੁੱਗ ਵਾਲੀ ਤਣਾਓ ਪੂਰਨ ਜਿੰਦਗੀ ਨਾਲ ਜੂਝਣ ਦੀ ਸਮਰੱਥਾ ਪੈਦਾ ਕਰਦਾ ਹੈ ।
6. ਇਹ ਵਿਸ਼ਾ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਅਤੇ ਗੁਰਮੁਖੀ ਲਿਪੀ ਵਿਚ ਨਿਪੁੰਨ ਬਣਾਉਦਾ ਹੈ ।
7. ਇਹ ਵਿਸ਼ਾ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਤਕਨਾਲੋਜੀ ਦੇ ਯੁੱਗ ਅੰਦਰ ਵੀ ਵਧੇਰੇ ਸੰਵੇਦਨਸ਼ੀਲ ਬਣਾਉਦਾ ਹੈ।

ਬੀ.ਬੀ.ਏ ਭਾਗ ਪਹਿਲਾ, ਸਮੈਸਟਰ ਪਹਿਲਾ/B.B.A.- I, Sem-I

ਕੋਰਸ ਕੋਡ	ਕੋਰਸਦਾ ਨਾਂ	ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੇ ਗਿਆਨ ਵਰਧਕ ਸਿੱਟੇ
ਬੀਬੀਏ/ BBA 102	ਪੰਜਾਬੀ ਲਾਜ਼ਮੀ	1. ਨਾਵਲ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਸਮਾਜਿਕ ਤੌਰ ਤੇ ਚੇਤੰਨ ਕਰਦਾ ਹੈ ਅਤੇ ਖੂਬਸੂਰਤ ਜ਼ਿਦਗੀ ਜਿਊਂਣ ਦਾ ਬਲ ਬਖਸ਼ਦਾ ਹੈ। 2. ਪਾਠਕ੍ਰਮ ਵਿਚਲਾ ਨਾਵਲ 'ਏਹੁ ਹਮਾਰਾ ਜੀਵਣਾ' ਜਾਗੀਰਦਾਰੀ ਸਮਾਜ ਵਿਚ ਔਰਤ ਦੀ ਸਥਿਤੀ ਬਾਖੂਬੀ ਪੇਸ਼ ਕਰਦਾ ਹੈ। 3. ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਅਤੇ ਧੁਨੀਆਂ ਦਾ ਅਧਿਐਨ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਭਾਸ਼ਾ ਦੀ ਸ਼ੁੱਧਤਾ,ਉਚਾਰਣ ਦੇ ਪੱਧਰ ਤੇ ਅਤੇ ਲੇਖਣ ਦੇ ਪੱਧਰ ਤੇ ਨਿਪੁੰਨ ਬਣਾਉਣਾ ਹੈ। 5. ਸਾਡੇ ਸਮਾਜ ਵਿਚਲੀਆਂ ਘਟਨਾਵਾਂ, ਚਲੰਤ ਮਾਮਲਿਆਂ ਤੋਂ ਜਾਣੂ ਕਰਵਾਉਂਣ ਲਈ ਨਿਬੰਧ ਰਚਨਾ ਵਿਦਿਆਰਥੀ ਲਈ ਲਾਹੇਵੰਦ ਸਾਬਿਤ ਹੁੰਦੀ ਹੈ। 6. ਇਹ ਪਾਠਕ੍ਰਮ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਸਮਾਜਕ ਵਿਸੰਗਤੀਆਂ ਪ੍ਰਤੀ ਜਾਗਰੂਕ ਕਰਕੇ ਉਹਨਾਂ ਦੇ ਸਮਾਧਾਨ ਪ੍ਰਤੀ ਸਿੱਖਿਅਤ ਕਰਦਾ ਹੈ। 7. ਇਸ ਵਿਸ਼ੇ ਦਾ ਮਨੋਰਥ ਸੰਬੰਧਿਤ ਤਕਨੀਕੀ ਸ਼ਬਦਾਵਲੀ ਰਾਹੀਂ ਵਿਦਿਆਰਥੀ ਨੂੰ ਸਾਧਾਰਣ ਜਨ-ਜੀਵਨ ਨਾਲ ਵਰਤੋਂ-ਵਿਹਾਰ ਕਰਨ ਅਤੇ ਸੰਬਾਦ ਰਚਾਉਣ ਦੇ ਯੋਗ ਬਣਾਉਣਾ ਹੈ। 8. ਇਸ ਪਾਠਕ੍ਰਮ ਦਾ ਮਨੋਰਥ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਪੰਜਾਬੀ ਸਾਹਿਤ ਪੜ੍ਹਣ ਦੀ ਜਾਗ ਲਾਉਣਾ ਅਤੇ ਉਹਨਾਂ ਅੰਦਰ ਰਚਨਾਤਮਕ ਰੁਚੀਆਂ ਪੈਦਾ ਕਰਨਾ ਹੈ।

ਬੀ.ਬੀ.ਏ ਭਾਗ ਪਹਿਲਾ, ਸਮੈਸਟਰ ਦੂਜਾ/B.B.A.- I, Sem-II

ਕੋਰਸ ਕੋਡ	ਕੋਰਸਦਾ ਨਾਂ	ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੇ ਗਿਆਨ ਵਰਧਕ ਸਿੱਟੇ
ਬੀਬੀਏ/ BBA 202	ਪੰਜਾਬੀ ਲਾਜ਼ਮੀ	1. ਇਸ ਕੋਰਸ ਵਿੱਚ ਲੱਗੀ ਪੁਸਤਕ 'ਚੋਣਵੇਂ ਪੰਜਾਬੀ ਨਿਬੰਧ', ਪੰਜਾਬੀ ਸਾਹਿਤ ਦੇ ਮਹਾਨ ਸਾਹਿਤਕਾਰਾਂ ਦੇ ਵਿਚਾਰਾਂ ਤੋਂ ਜਾਣੂ ਕਰਵਾਉਂਦਾ ਹੈ। 2. ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਪੰਜਾਬ ਦੀਆਂ ਉਪਭਾਸ਼ਾਵਾਂ ਅਤੇ ਉਨ੍ਹਾਂ ਦੀਆਂ ਵਿਲੱਖਤਾਵਾਂ ਤੋਂ ਜਾਣੂ ਕਰਵਾਇਆ ਜਾਂਦਾ ਹੈ। 3. ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੀ ਮੁਹਾਰਤ ਹਾਸਿਲ ਕਰਨ ਲਈ ਸ਼ੁਧ ਭਾਸ਼ਾ ਵਰਤੋਂ-ਵਿਹਾਰ

		ਪ੍ਰਤੀ ਜਾਣੂ ਕਰਵਾਉਂਦਾ ਹੈ। 4. ਵਿਦਿਆਰਥੀ ਨੂੰ ਆਉਂਦੇ ਸਮੇਂ ਦਫ਼ਤਰੀ ਕਾਰਜ ਲਈ ਤਿਆਰ ਕਰਨ ਲਈ ਪੱਤਰ, ਚਿੱਠੀ-ਪੱਤਰ ਲਿਖਣ ਦੇ ਕਾਬਿਲ ਬਣਾਉਂਦਾ ਹੈ। 5. ਇਸ ਕੋਰਸ ਦਾ ਮਨੋਰਥ ਵਿਦਿਆਰਥੀ ਨੂੰ ਆਪਣੀ ਭਾਸ਼ਾ, ਸਮਾਜ, ਪੰਜਾਬੀ ਸਭਿਆਚਾਰ ਦੀਆਂ ਵਿਭਿੰਨ ਵਿਸ਼ੇਸ਼ਤਾਵਾਂ, ਗੌਰਵਮਈ ਇਤਿਹਾਸ ਦੀ ਜਾਣਕਾਰੀ ਦਿੰਦਿਆਂ ਇਨ੍ਹਾਂ ਵਿੱਚੋਂ ਸਮਾਜਿਕ ਸਰੋਕਾਰਾਂ ਨੂੰ ਸਹੀ ਪਰਿਪੇਖ ਵਿੱਚ ਸਮਝਣ ਅਤੇ ਚਿੰਤਨ ਕਰਨ ਯੋਗ ਬਣਾਉਂਦਾ ਹੈ। 6. ਇਸ ਦੇ ਨਾਲ ਹੀ ਭਾਸ਼ਾ ਦਾ ਸਹੀ ਉਚਾਰਣ, ਧੁਨੀਆਂ/ਭਾਸ਼ਾ ਦੀ ਕੁਸ਼ਲਤਾਪੂਰਵਕ ਵਰਤੋਂ ਕਰਨ ਦੇ ਯੋਗ ਬਣਾਉਂਦਾ ਹੈ।

ਬੀ.ਬੀ.ਏ ਭਾਗ-ਦੂਜਾ/B.B.A-II

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ਬੀ.ਬੀ.ਏ ਭਾਗ ਦੂਜਾ, ਸਮੈਸਟਰ ਤੀਜਾ/B.B.A.- II, Sem-III

ਕੋਰਸ ਕੋਡ	ਕੋਰਸਦਾ ਨਾਂ	ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੇ ਗਿਆਨ ਵਰਧਕ ਸਿੱਟੇ
BBA 302	ਪੰਜਾਬੀ ਲਾਜ਼ਮੀ	1. ਸਮਕਾਲੀ ਪੰਜਾਬੀ ਕਵਿਤਾ ਸਮਕਾਲ ਦੀਆਂ ਵਿਭਿੰਨ ਵਿਭਿੰਨ ਵਿਸੰਗਤੀਆਂ ਪ੍ਰਤੀ ਚੇਤੰਨਤਾ ਪ੍ਰਦਾਨ ਕਰਦੀ ਹੋਈ ਵਿਦਿਆਰਥੀ ਨੂੰ ਸਮਾਜਿਕ ਸਮੱਸਿਆਵਾਂ ਨਾਲ ਜੂਝਣ ਦੀ ਸਮਰੱਥਾ ਅਤੇ ਜ਼ਿੰਦਗੀ ਜਿਊਣ ਦਾ ਬਲ ਸਿਖਾਉਂਦੀ ਹੈ। 2. ਸਮਕਾਲੀ ਪੰਜਾਬੀ ਕਹਾਣੀ ਸੰਗ੍ਰਹਿ ਦੇ ਮਾਧਿਅਮ ਰਾਹੀਂ ਵਿਦਿਆਰਥੀ ਨੂੰ ਸਾਹਿਤ ਪੜ੍ਹਨ ਦੀ ਲਗਨ ਲਾਉਣਾ ਅਤੇ ਇਸ ਪਾਠਕ੍ਰਮ ਦਾ ਮਨੋਰਥ ਸਮਾਜ ਵਿਚ ਕਿਤਾਬ ਸਭਿਆਚਾਰ ਪੈਦਾ ਕਰਨਾ ਹੈ। 3. ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੇ ਨੇਮ-ਪ੍ਰਬੰਧਾਂ ਤੋਂ ਜਾਣੂ ਕਰਵਾਉਣਾ ਹੈ । 4. ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਸਾਹਿਤ ਦੀ ਆਲੋਚਨਾ ਕਰਨ ਸੰਬੰਧੀ ਵੱਖਰੀਆਂ-ਵੱਖਰੀਆਂ ਪ੍ਰਣਾਲੀਆਂ ਤੋਂ ਜਾਣੂ ਕਰਵਾਉਣਾ ਤੇ ਆਪਣੇ ਜੀਵਨ ਵਿਚ ਵੱਖ-ਵੱਖ ਵਰਤਾਰਿਆਂ ਨੂੰ ਘੋਖਣ ਦੀ ਸੂਝ ਪੈਦਾ ਕਰਨਾ ਹੈ।

		5. ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਸਭਿਆਚਾਰ ਦੇ ਸੰਕਲਪ ਦੀ ਜਾਣਕਾਰੀ ਦੇਣ ਲਈ ਸਮਾਜ ਵਿਚ ਪੈਦਾ ਹੋਈਆਂ ਕੁਰੀਤੀਆਂ ਨੂੰ ਖ਼ਤਮ ਕਰਨਾ ਅਤੇ ਨਿਰੋਏ ਸਭਿਅਕ ਸਮਾਜ ਦੀ ਸਿਰਜਣਾ ਕਰਨਾ ਹੈ।

ਬੀ.ਬੀ.ਏ ਭਾਗ ਦੂਜਾ, ਸਮੈਸਟਰ ਚੌਥਾ/B.B.A.- II, Sem-IV

ਕੋਰਸ ਕੋਡ	ਕੋਰਸਦਾ ਨਾਂ	ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੇ ਗਿਆਨ ਵਰਧਕ ਸਿੱਟੇ
BBA 402	ਪੰਜਾਬੀ ਲਾਜ਼ਮੀ	1.ਪੰਜਾਬੀ ਸਾਹਿਤ ਦਾ ਰੂਪ ਨਾਟਕ ਵਿਦਿਆਰਥੀ-ਮਨ ਦਾ ਵਿਰੇਚਨ ਕਰਦੇ ਹੋਏ, ਉੱਚਤਮ ਜੀਵਨ ਜਾਂਚ ਸਿਖਾਉਂਦਾ ਹੈ । 2. ਨਾਟਕ ਵਿਦਿਆਰਥੀਆਂ ਅੰਦਰ ਕਲਪਨਾ ਦੇ ਅੰਸ਼ ਪੈਦਾ ਕਰਕੇ ਸਮਾਜਿਕ ਯਥਾਰਥ ਨਾਲ ਜੋੜਦਾ ਹੈ । 3. ਗੁਰਮੁਖੀ ਲਿੱਪੀ ਦਾ ਇਤਿਹਾਸ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਭਾਸ਼ਾ ਲਿਖਣ ਦੇ ਸਮਰੱਥ ਅਤੇ ਮਨੁੱਖੀ ਭਾਸ਼ਾ ਦੇ ਇਤਿਹਾਸ ਨੂੰ ਸਮਝਣ ਵਿਚ ਪ੍ਰਮੁੱਖ ਰੋਲ ਅਦਾ ਕਰਦਾ ਹੈ । 4. ਮੁਹਾਵਰਿਆਂ ਦਾ ਅਧਿਐਨ ਵਿਦਿਆਰਥੀਆਂ ਦੀ ਵਿਵਹਾਰਕ ਗਿਆਨ ਵਿਚ ਵਾਧਾ ਕਰਦਾ ਹੈ ।

ਬੀ.ਬੀ.ਏ ਭਾਗ–ਤੀਜਾ/ B.B.A.-III

ਸੈਸ਼ਨ 2018–19

ਬੀ.ਬੀ.ਏ ਭਾਗ ਤੀਜਾ, ਸਮੈਸਟਰ ਪੰਜਵਾਂ/B.B.A.- III, Sem-V

ਕੋਰਸ ਕੋਡ	ਕੋਰਸਦਾ ਨਾਂ	ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੇ ਗਿਆਨ ਵਰਧਕ ਸਿੱਟੇ
BBA 502	ਪੰਜਾਬੀ ਲਾਜ਼ਮੀ	1. ਇਹ ਪਾਠਕ੍ਰਮ ਪੰਜਾਬੀ ਲੋਕਧਾਰਾ ਦਾ ਨਿਕਟ ਅਧਿਐਨ ਕਰਵਾ ਕੇ ਉਸਦੇ ਵੱਖਰੇ-ਵੱਖਰੇ ਪੱਖਾਂ ਨੂੰ ਉਜਾਗਰ ਕਰਦਾ ਅਤੇ ਆਪਣੇ ਮਾਣ-ਮੱਤੇ ਵਿਰਸੇ ਪ੍ਰਤੀ ਸਤਿਕਾਰ ਦੀ ਭਾਵਨਾ ਪੈਦਾ ਕਰਦਾ ਹੈ। 2. ਲੋਕਧਾਰਾਈ ਵਰਤਾਰਿਆਂ ਬਾਰੇ ਮੁੱਢਲੀ ਜਾਣਕਾਰੀ ਦੇ ਕੇ ਵਿਦਿਆਰਥੀ ਨੂੰ ਅਪਣੇ-ਆਲੇ ਦੁਆਲੇ ਪ੍ਰਤੀ ਉਸਦੀ ਜਿੰਮੇਵਾਰੀ ਦਾ ਬੋਧ ਕਰਵਾਉਂਦਾ ਹੈ।

		3. ਇਹ ਪਾਠਕ੍ਰਮ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਸਮਾਜਕ ਵਿਸੰਗਤੀਆਂ ਪ੍ਰਤੀ ਜਾਗਰੂਕ ਕਰਕੇ ਉਹਨਾਂ ਦੇ ਸਮਾਧਾਨ ਪ੍ਰਤੀ ਸਿੱਖਿਅਤ ਕਰਦਾ ਹੈ। 4. ਇਹ ਪਾਠਕ੍ਰਮ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਮਾਤ-ਭਾਸ਼ਾ ਦੇ ਨੇਮਾਂ ਸੰਬੰਧੀ ਜਾਗਰੂਕ ਕਰਦਾ ਹੈ ਅਤੇ ਸੰਚਾਰ ਲਈ ਉਸਦੇ ਵਾਕ ਬੋਧ ਨੂੰ ਨਿਖਾਰਦਾ ਅਤੇ ਉਸ ਅੰਦਰ ਸਲੀਕਾ ਪੈਦਾ ਕਰਦਾ ਹੈ।

ਬੀ.ਬੀ.ਏ ਭਾਗ ਤੀਜਾ, ਸਮੈਸਟਰ ਛੇਵਾਂ/B.B.A.- III, Sem-VI

ਕੋਰਸ ਕੋਡ	ਕੋਰਸਦਾ ਨਾਂ	ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੇ ਗਿਆਨ ਵਰਧਕ ਸਿੱਟੇ
BBA 602	ਪੰਜਾਬੀ ਲਾਜ਼ਮੀ	1. ਇਸ ਪਾਠਕ੍ਰਮ ਵਿੱਚ ਲੱਗੇ ਨਾਵਲ ਦਾ ਅਧਿਐਨ ਵਿਦਿਆਰਥੀ ਨੂੰ ਸਮਾਜ ਵਿਚਲੇ ਅਣਗੌਲੇ ਕਿਰਦਾਰਾਂ ਨੂੰ ਰੂਬਰੂ ਕਰਵਾ ਕੇ ਵਿਵੇਕਸ਼ੀਲ ਬਣਾਉਂਦਾ ਹੈ। 2. ਵਿਸ਼ਵੀਕਰਨ ਦੇ ਵੱਧਦੇ ਪਸਾਰ ਨੂੰ ਦੇਖਦਿਆਂ ਇਹ ਪਾਠਕ੍ਰਮ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਵੱਖਰੀਆਂ-ਵੱਖਰੀਆਂ ਭਾਸ਼ਾਵਾਂ ਦੇ ਗਿਆਨ ਅਤੇ ਅਨੁਵਾਦ ਕਰਨ ਦੇ ਸਮਰੱਥ ਬਣਾਉਂਦਾ ਹੈ। 3. ਇਸ ਪਾਠਕ੍ਰਮ ਦੀ ਪੜ੍ਹਾਈ ਨਾਲ ਵਿਦਿਆਰਥੀ ਨੂੰ ਸੁਚਾਰੂ ਜੀਵਨ ਜਾਂਚ ਦੀ ਸਿੱਖਿਆ ਮਿਲਦੀ ਹੈ। 4. ਮਾਤ-ਭਾਸ਼ਾ ਦੇ ਵਿਆਕਰਨ ਦੇ ਵਿਭਿੰਨ- ਵਿਭਿੰਨ ਪੱਖਾਂ ਦਾ ਅਧਿਐਨ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਭਾਸ਼ਾ ਵਿਚ ਮੁਹਾਰਤ ਹਾਸਿਲ ਕਰਨ ਅਤੇ ਉਚੇਰੀ ਸਿੱਖਿਆ ਗ੍ਰਹਿਣ ਕਰਨ ਲਈ ਪ੍ਰੇਰਿਤ ਕਰਦਾ ਹੈ।

ਬੀ. ਵੋਕੇਸ਼ਨਲ (ਆਰ. ਐੱਮ) ਭਾਗ ਪਹਿਲਾ/B.Voc.(RM)

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ਬੀ. ਵੋਕੇਸ਼ਨਲ (ਆਰ. ਐੱਮ) ਭਾਗ ਪਹਿਲਾ, ਸਮੈਸਟਰ-ਪਹਿਲਾ/B.Voc.(RM)-I,Sem-I

ਕੋਰਸ ਕੋਡ	ਕੋਰਸਦਾ ਨਾਂ	ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੇ ਗਿਆਨ ਵਰਧਕ ਸਿੱਟੇ
BVR 101	ਪੰਜਾਬੀ ਲਾਜ਼ਮੀ	1. ਨਾਵਲ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਸਮਾਜਿਕ ਤੌਰ ਤੇ ਚੇਤੰਨ ਕਰਦਾ ਹੈ ਅਤੇ ਖੂਬਸੂਰਤ ਜ਼ਿਦਗੀ ਜਿਊਂਣ ਦਾ ਬਲ ਬਖਸ਼ਦਾ ਹੈ। 2. ਪਾਠਕ੍ਰਮ ਵਿਚਲਾ ਨਾਵਲ 'ਏਹੁ ਹਮਾਰਾ ਜੀਵਣਾ' ਜਾਗੀਰਦਾਰੀ ਸਮਾਜ ਵਿਚ ਔਰਤ ਦੀ ਸਥਿਤੀ ਬਾਖੂਬੀ ਪੇਸ਼ ਕਰਦਾ ਹੈ। 3. ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਅਤੇ ਧੁਨੀਆਂ ਦਾ ਅਧਿਐਨ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਭਾਸ਼ਾ ਦੀ ਸ਼ੁੱਧਤਾ,ਉਚਾਰਣ ਦੇ ਪੱਧਰ ਤੇ ਅਤੇ ਲੇਖਣ ਦੇ ਪੱਧਰ ਤੇ ਨਿਪੁੰਨ ਬਣਾਉਣਾ ਹੈ। ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੇ ਕੇਂਦਰੀ ਰੂਪ ਅਤੇ ਉਸ ਵਿਚ ਆ ਰਹੀਆਂ ਤਬਦੀਲੀਆਂ ਅਤੇ ਭਾਸ਼ਾ ਦੇ ਵੱਖਰੇ-ਵੱਖਰੇ ਰੂਪਾਂ ਬਾਰੇ ਜਾਣਕਾਰੀ ਦੇਣਾ ਹੈ । 4. ਇਸ ਪਾਠਕ੍ਰਮ ਦਾ ਮਨੋਰਥ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਪੰਜਾਬੀ ਸਾਹਿਤ ਪੜ੍ਹਣ ਦੀ ਜਾਗ ਲਾਉਣਾ ਅਤੇ ਉਹਨਾਂ ਅੰਦਰ ਰਚਨਾਤਮਕ ਰੁਚੀਆਂ ਪੈਦਾ ਕਰਨਾ ਹੈ। 5. ਇਸ ਪਾਠਕ੍ਰਮ ਦਾ ਮੰਤਵ ਆਧੁਨਿਕ ਯੁੱਗ ਦੇ ਮਨੁੱਖ ਦੇ ਅੰਦਰ-ਬਾਹਰ ਫੈਲੇ-ਵਿਰੋਧਾਂ, ਵਿਸੰਗਤੀਆਂ ਤੇ ਘਟਨਾਵਾਂ ਨੂੰ ਨਾਟਕ ਵਿਧਾ ਰਾਹੀ ਸਿਖਿਅਤ ਕਰਨਾ ਹੈ। ਕਿਉਕਿ ਸਾਹਿਤ ਦੀ ਨਾਟਕ ਵਿਧਾ ਦਾ ਮਨੁੱਖ ਦੀ ਸਮਾਜਿਕ ਵਿਧਾ ਨਾਲ ਅਤਿ ਨੇੜਲਾ ਸੰਬੰਧ ਹੈ ।

ਕੋਰਸ - ਬੀ. ਸੀ. ਏ./B.C.A.

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ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੇ ਗਿਆਨ ਵਰਧਕ ਸਿੱਟੇ

ਉਦੇਸ਼ :

ਬੀ. ਸੀ. ਏ/ਬੀ.ਵੋਕੇਸ਼ਨਲ (ਸਾਫਟਵੇਅਰ ਡਿਵੈਲਪਮੈਂਟ) ਕੰਪਿਊਟਰ ਦੇ ਖੇਤਰ ਨਾਲ ਸਬੰਧਿਤ ਕੋਰਸ ਹਨ। ਇਸ ਕੋਰਸ ਵਿੱਚ ਪੰਜਾਬੀ ਲਾਜ਼ਮੀ ਦਾ ਵਿਸ਼ਾ ਪੜ੍ਹਨ ਦੁਆਰਾ ਸਾਹਿਤ ਲਿਖਣ- ਪੜ੍ਹਨ ਦੇ ਨਾਲ-ਨਾਲ ਸਖ਼ਸ਼ੀਅਤ, ਸਮਾਜ ਅਤੇ ਹੋਰ ਬਹੁਪੱਖੀ ਵਿਚਾਰਧਾਰਵਾਂ ਬਾਰੇ ਜਾਣਨ ਦੇ ਯੋਗ ਹੁੰਦੇ ਹਨ।

ਬੀ. ਸੀ. ਏ. /ਬੀ.ਵੋਕੇਸ਼ਨਲ (ਸਾਫਟਵੇਅਰ ਡਿਵੈਲਪਮੈਂਟ) ਪਾਸ ਕਰਨ ਉਪਰੰਤ:

1. ਇਹ ਵਿਸ਼ਾ ਵਿਦਿਆਰਥੀਆਂ ਦੀ ਸਰਬਪੱਖੀ ਸਖ਼ਸ਼ੀਅਤ ਉਸਾਰੀ ਲਈ ਸਾਰਥਕ ਹੈ ।
2. ਇਹ ਵਿਸ਼ਾ ਵਿਦਿਆਰਥੀਆਂ ਲਈ ਵੱਖ-ਵੱਖ ਮੁਕਾਬਲੇਦੀਆਂ ਪ੍ਰੀਖਿਆਵਾਂ ਦੇ ਯੋਗ ਬਣਾਉਂਦਾ ਹੈ।
3. ਇਸ ਵਿਸ਼ਾ ਵਿਚ ਪੜ੍ਹਾਏ ਜਾਂਦੇ ਵਿਸ਼ੇ ਉਚੇਰੀ ਸਿੱਖਿਆ ਲਈ ਅਧਾਰ ਬਣਦੇ ਹਨ।
4. ਮਾਤ-ਭਾਸ਼ਾ ਦਾ ਇਹ ਵਿਸ਼ਾ ਵਿਦਿਆਰਥੀ/ਜਗਿਆਸੂ ਨੂੰ ਭਾਸ਼ਾ,ਸਾਹਿਤ,ਕਲਾ ਅਤੇ ਸਭਿਆਚਾਰ ਨਾਲ ਜੋੜ ਕੇ ਉੱਚਤਮ ਜੀਵਨ ਜਾਂਚ ਸਿਖਾਉਂਦਾ ਹੈ ।
5. ਇਹ ਵਿਸ਼ਾ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਚੇਤੰਨ ਅਤੇ ਚਿੰਤਨਸ਼ੀਲ ਬਣਾਉਣ ਦੇ ਨਾਲ-ਨਾਲ ਇਸ ਮਸ਼ੀਨੀ ਯੁੱਗ ਵਾਲੀ ਤਣਾਓ ਪੂਰਨ ਜਿੰਦਗੀ ਨਾਲ ਜੂਝਣ ਦੀ ਸਮਰੱਥਾ ਪੈਦਾ ਕਰਦਾ ਹੈ ।
6. ਇਹ ਵਿਸ਼ਾ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਅਤੇ ਗੁਰਮੁਖੀ ਲਿਪੀ ਵਿਚ ਨਿਪੁੰਨ ਬਣਾਉਦਾ ਹੈ ।
7. ਇਹ ਵਿਸ਼ਾ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਤਕਨਾਲੋਜੀ ਦੇ ਯੁੱਗ ਅੰਦਰ ਵੀ ਵਧੇਰੇ ਸੰਵੇਦਨਸ਼ੀਲ ਬਣਾਉਦਾ ਹੈ।

ਬੀ. ਸੀ. ਏ. ਭਾਗ ਪਹਿਲਾ, ਸਮੈਸਟਰ ਪਹਿਲਾ/ B.C.A.-I, Sem- I

ਕੋਰਸ ਕੋਡ	ਕੋਰਸਦਾ ਨਾਂ	ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੇ ਗਿਆਨ ਵਰਧਕ ਸਿੱਟੇ
BCA 103	ਪੰਜਾਬੀ ਲਾਜ਼ਮੀ	1.ਇਸ ਕੋਰਸ ਵਿੱਚ ਵਿਦਿਆਰਥੀ ਨੂੰ ਨਾਵਲ ਵਿਧਾ-ਵਿਧਾਨ ਬਾਰੇ ਜਾਣੂ ਕਰਵਾਇਆ ਜਾਵੇਗਾ। 2. ਇਸ ਪਾਠਕ੍ਰਮ ਦਾ ਮਨੋਰਥ ਸਮਾਜ ਵਿਚਲੇ ਬਹੁ-ਪੱਖੀ ਪਸਾਰਾਂ; ਜਿਸ ਵਿੱਚ ਸਮਾਜਕ, ਆਰਥਿਕ, ਪਰੰਪਰਕ ਰੂੜੀਆਂ ਤੋਂ ਜਾਣੂ ਕਰਵਾ ਕੇ ਪੰਜਾਬ ਦੇ ਸਭਿਆਚਾਰ, ਸੰਸਕ੍ਰਿਤੀ ਪ੍ਰਤੀ ਵਿਗਿਆਨਕ ਨਜ਼ਰੀਆਂ ਪੈਦਾ ਕਰਨਾ ਹੈ। 3. ਵਿਦਿਆਰਥੀ ਨੂੰ ਸਮਾਜਿਕ, ਵਾਤਵਰਣ ਅਤੇ ਸਭਿਆਚਾਰਕ ਪੱਖਾਂ ਦੀ ਜਾਣਕਾਰੀ ਪ੍ਰਦਾਨ ਕਰਕੇ ਉਸ ਵਿੱਚ ਮੌਲਿਕ ਰਚਨਾਤਮਕ ਰੁਚੀਆਂ ਪੈਦਾ ਕਰਨਾ ਹੈ । 4. ਪੰਜਾਬੀ ਦਾ ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਦੀਆਂ ਧੁਨੀਆਂ ਦੇ ਉਚਾਰ ਢੰਗ ਅਤੇ ਉਚਾਰਨ ਸਥਾਨ ਤੋਂ ਜਾਣੂ ਹੋ ਕੇ ਭਾਸ਼ਾ ਦੇ ਸਹੀ ਪ੍ਰਯੋਗ ਨੂੰ ਤਰਜੀਹ ਦੇਵੇਗਾ। 5. ਵਿਸ਼ੇ ਨਾਲ ਸੰਬੰਧਿਤ ਤਕਨੀਕੀ ਸ਼ਬਦਾਵਲੀ ਵਿਦਿਆਰਥੀ ਨੂੰ ਆਉਂਦੇ ਜੀਵਨ ਵਿੱਚ ਸਾਧਾਰਣ ਜਨ-ਜੀਵਨ ਨਾਲ ਵਰਤੋਂ-ਵਿਹਾਰ ਕਰਨ ਦੇ ਕਾਬਿਲ

		ਬਣਾਉਣਾ ਹੈ। 6. ਇਸ ਸਿਲੇਬਸ ਦਾ ਮਨੋਰਥ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਚੌਗਿਰਦੇ ਪ੍ਰਤੀ ਜਾਗਰਿਤ ਕਰਕੇ ਚੇਤੰਨ/ ਸੰਵੇਦਨਸ਼ੀਲ ਬਣਾਉਣਾ ਹੈ।

ਬੀ. ਸੀ. ਏ. ਭਾਗ ਪਹਿਲਾ, ਸਮੈਸਟਰ ਦੂਜਾ/ B.C.A.-I, Sem-II

ਕੋਰਸ ਕੋਡ	**ਕੋਰਸਦਾ ਨਾਂ**	**ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੇ ਗਿਆਨ ਵਰਧਕ ਸਿੱਟੇ**
BCA 203	ਪੰਜਾਬੀ ਲਾਜ਼ਮੀ	1. ਇਸ ਕੋਰਸ ਦਾ ਮਨੋਰਥ ਵਿਦਿਆਰਥੀ ਨੂੰ 'ਚੋਣਵੇਂ ਪੰਜਾਬੀ ਨਿਬੰਧ' ਰਾਹੀਂ ਪੰਜਾਬੀ ਦੇ ਮਹਾਨ ਨਿਬੰਧਕਾਰਾਂ ਦੇ ਵਿਚਾਰਾਂ ਤੋਂ ਜਾਣੂ ਕਰਵਾਉਣਾ ਹੈ। 2. ਇਸ ਸਿਲੇਬਸ ਦਾ ਮਨੋਰਥ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਪੰਜਾਬੀ ਦੀਆਂ ਉਪ-ਭਾਸ਼ਾਵਾਂ ਦੀਆਂ ਵਿਸ਼ੇਸ਼ਤਾਵਾਂ, ਵਿਲੱਖਣਾਵਾਂ ਤੋ ਜਾਣੂ ਕਰਵਾਉਣਾ ਹੈ। 3. ਇਸ ਦੇ ਨਾਲ ਹੀ ਭਾਸ਼ਾਵਾਂ ਅਤੇ ਉਪਭਾਸ਼ਾਵਾਂ ਦੀ ਵਿਲੱਖਣਤਾ ਨੂੰ ਸਮਝਣ ਯੋਗ ਬਣਾਉਂਦਾ ਹੈ। 4. ਇਸ ਵਿਸ਼ੇ ਦਾ ਮਨੋਰਥ ਸੰਬੰਧਿਤ ਤਕਨੀਕੀ ਸ਼ਬਦਾਵਲੀ ਰਾਹੀਂ ਵਿਦਿਆਰਥੀ ਨੂੰ ਸਾਧਾਰਣ ਜਨ-ਜੀਵਨ ਨਾਲ ਵਰਤੋਂ-ਵਿਹਾਰ ਕਰਨ ਅਤੇ ਸੰਬਾਦ ਰਚਾਉਣ ਦੇ ਯੋਗ ਬਣਾਉਣਾ ਹੈ। 5. ਇਸ ਕੋਰਸ ਰਾਹੀਂ ਵਿਦਿਆਰਥੀ ਸਾਹਿਤ ਸਾਹਿਤਕ ਵਿਧਾ ਨਿਬੰਧ ਨਾਲ ਜੋੜ ਕੇ ਪੰਜਾਬੀਅਤ ਨਾਲ ਜੋੜਨਾ। 6. ਇਸ ਕੋਰਸ ਰਾਹੀਂ ਵਿਦਿਆਰਥੀ ਨੂੰ ਚੌਗਿਰਦੇ ਪ੍ਰਤੀ ਜਾਗਰਿਤ ਕਰਕੇ ਉਸ ਨੂੰ ਚੇਤੰਨ/ ਸੰਵੇਦਨਸ਼ੀਲ ਬਣਾਉਣਾ ਹੈ।

ਬੀ.ਵੋਕੇਸ਼ਨਲ (ਸਾਫਟਵੇਅਰ ਡਿਵੈਲਪਮੈਂਟ)/B. Voc. (SD)

ਸੈਸ਼ਨ 2018-19

ਬੀ.ਵੋਕੇਸ਼ਨਲ (ਸਾਫਟਵੇਅਰ ਡਿਵੈਲਪਮੈਂਟ) ਭਾਗ–ਪਹਿਲਾ/B.Voc (SD)- I

ਕੋਰਸ ਕੋਡ	ਕੋਰਸਦਾ ਨਾਂ	ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੇ ਗਿਆਨ ਵਰਧਕ ਸਿੱਟੇ
BVSD 102	ਪੰਜਾਬੀ ਲਾਜ਼ਮੀ	1. ਇਸ ਪਾਠਕ੍ਰਮ ਵਿੱਚ ਲੱਗੇ ਨਾਵਲ ਦਾ ਅਧਿਐਨ ਵਿਦਿਆਰਥੀ ਨੂੰ ਸਮਾਜ ਵਿਚਲੇ ਅਣਗੌਲੇ ਕਿਰਦਾਰਾਂ ਨੂੰ ਰੂਬਰੂ ਕਰਵਾ ਕੇ ਵਿਵੇਕਸ਼ੀਲ ਬਣਾਉਂਦਾ ਹੈ। 2. ਵਿਸ਼ਵੀਕਰਨ ਦੇ ਵੱਧਦੇ ਪਸਾਰ ਨੂੰ ਦੇਖਦਿਆਂ ਇਹ ਪਾਠਕ੍ਰਮ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਵੱਖਰੀਆਂ-ਵੱਖਰੀਆਂ ਭਾਸ਼ਾਵਾਂ ਦੇ ਗਿਆਨ ਅਤੇ ਅਨੁਵਾਦ ਕਰਨ ਦੇ ਸਮਰੱਥ ਬਣਾਉਂਦਾ ਹੈ। 3. ਇਸ ਪਾਠਕ੍ਰਮ ਦੀ ਪੜ੍ਹਾਈ ਨਾਲ ਵਿਦਿਆਰਥੀ ਨੂੰ ਸੁਚਾਰੂ ਜੀਵਨ ਜਾਂਚ ਦੀ ਸਿੱਖਿਆ ਮਿਲਦੀ ਹੈ। 4. ਮਾਤ-ਭਾਸ਼ਾ ਦੇ ਵਿਆਕਰਨ ਦੇ ਵਿਭਿੰਨ- ਵਿਭਿੰਨ ਪੱਖਾਂ ਦਾ ਅਧਿਐਨ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਭਾਸ਼ਾ ਵਿਚ ਮੁਹਾਰਤ ਹਾਸਿਲ ਕਰਨ ਅਤੇ ਉਚੇਰੀ ਸਿੱਖਿਆ ਗ੍ਰਹਿਣ ਕਰਨ ਲਈ ਪ੍ਰੇਰਿਤ ਕਰਦਾ ਹੈ। 5. ਤਕਨੀਕੀ ਸ਼ਬਦਾਵਲੀ ਦਾ ਮਨੋਰਥ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਆਪਣੀ ਮਾਤ-ਭਾਸ਼ਾ ਵਿਚ ਵਰਤੇ ਜਾ ਰਹੇ ਸ਼ਬਦਾ ਦਾ ਆਮ ਲੋਕਾਂ ਨਾਲ ਤਾਲ-ਮੇਲ ਬਣਾਉਣ ਵਿਚ ਸਹਾਈ ਹੁੰਦਾ ਹੈ।

ਬੀ . ਕਾਮ (ਆਨਰਜ਼)/ B.Com (Hon's)
ਸੈਸ਼ਨ 2018–19
ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੇ ਗਿਆਨ ਵਰਧਕ ਸਿੱਟੇ

ਉਦੇਸ਼ :

ਇਸ ਕੋਰਸ ਵਿੱਚ ਪੰਜਾਬੀ ਲਾਜ਼ਮੀ ਦਾ ਵਿਸ਼ਾ ਪੜ੍ਹਨ ਦੁਆਰਾ ਸਾਹਿਤ ਲਿਖਣ- ਪੜ੍ਹਨ ਦੇ ਨਾਲ-ਨਾਲ ਸਖ਼ਸ਼ੀਅਤ, ਸਮਾਜ ਅਤੇ ਹੋਰ ਬਹੁਪੱਖੀ ਵਿਚਾਰਧਾਰਵਾਂ ਬਾਰੇ ਜਾਣਨ ਦੇ ਯੋਗ ਹੁੰਦੇ ਹਨ।

ਬੀ . ਕਾਮ (ਆਨਰਜ਼)/ਬੀ.ਕਾਮ/ਬੀ. ਏ. ਐੱਫ਼ ਕਰਨ ਉਪਰੰਤ :

1. ਇਹ ਵਿਸ਼ਾ ਵਿਦਿਆਰਥੀਆਂ ਦੀ ਸਰਬਪੱਖੀ ਸਖ਼ਸ਼ੀਅਤ ਉਸਾਰੀ ਲਈ ਸਾਰਥਕ ਹੈ ।

2. ਇਹ ਵਿਸ਼ਾ ਵਿਦਿਆਰਥੀਆਂ ਲਈ ਵੱਖ-ਵੱਖ ਮੁਕਾਬਲੇਦੀਆਂ ਪ੍ਰੀਖਿਆਵਾਂ ਦੇ ਯੋਗ ਬਣਾਉਂਦਾ ਹੈ।

3. ਇਸ ਵਿਸ਼ਾ ਵਿਚ ਪੜ੍ਹਾਏ ਜਾਂਦੇ ਵਿਸ਼ੇ ਉਚੇਰੀ ਸਿੱਖਿਆ ਲਈ ਅਧਾਰ ਬਣਦੇ ਹਨ।

4. ਮਾਤ-ਭਾਸ਼ਾ ਦਾ ਇਹ ਵਿਸ਼ਾ ਵਿਦਿਆਰਥੀ/ਜਗਿਆਸੂ ਨੂੰ ਭਾਸ਼ਾ,ਸਾਹਿਤ,ਕਲਾ ਅਤੇ ਸਭਿਆਚਾਰ ਨਾਲ ਜੋੜ ਕੇ ਉੱਚਤਮ ਜੀਵਨ ਜਾਂਚ ਸਿਖਾਉਂਦਾ ਹੈ ।

5. ਇਹ ਵਿਸ਼ਾ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਚੇਤੰਨ ਅਤੇ ਚਿੰਤਨਸ਼ੀਲ ਬਣਾਉਣ ਦੇ ਨਾਲ-ਨਾਲ ਇਸ ਮਸ਼ੀਨੀ ਯੁੱਗ ਵਾਲੀ ਤਣਾਓ ਪੂਰਨ ਜਿੰਦਗੀ ਨਾਲ ਜੂਝਣ ਦੀ ਸਮਰੱਥਾ ਪੈਦਾ ਕਰਦਾ ਹੈ ।

6. ਇਹ ਵਿਸ਼ਾ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਅਤੇ ਗੁਰਮੁਖੀ ਲਿਪੀ ਵਿਚ ਨਿਪੁੰਨ ਬਣਾਉਦਾ ਹੈ ।

7. ਇਹ ਵਿਸ਼ਾ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਤਕਨਾਲੋਜੀ ਦੇ ਯੁੱਗ ਅੰਦਰ ਵੀ ਵਧੇਰੇ ਸੰਵੇਦਨਸ਼ੀਲ ਬਣਾਉਦਾ ਹੈ।

ਬੀ . ਕਾਮ (ਆਨਰਜ਼) ਭਾਗ-ਪਹਿਲਾ,ਸਮੈਸਟਰ-ਪਹਿਲਾ/B.Com (Hon's), -I, Sem-I

ਕੋਰਸ ਕੋਡ	ਕੋਰਸਦਾ ਨਾਂ	ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੇ ਗਿਆਨ ਵਰਧਕ ਸਿੱਟੇ
BCH 105	ਪੰਜਾਬੀ ਲਾਜ਼ਮੀ	1. ਇਸ ਪਾਠਕ੍ਰਮ ਦਾ ਮਨੋਰਥ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਪੰਜਾਬੀ ਸਾਹਿਤ ਪੜ੍ਹਨ ਦੀ ਜਾਗ ਲਾਉਣਾ, ਉਨ੍ਹਾਂ ਅੰਦਰ ਰਚਨਾਤਮਕ ਰੁਚੀਆਂ ਪੈਦਾ ਕਰਨਾ ਅਤੇ ਆਧੁਨਿਕ ਸਮਾਜ ਵਿਚ ਫੈਲੇ ਵਿਰੋਧਾਂ, ਵਿਸੰਗਤੀਆਂ ਤੇ ਤਣਾਵਾਂ ਨੂੰ ਘਟਾਉਣਾ ਹੈ । 2. ਮਾਤ-ਭਾਸ਼ਾ ਦੇ ਵਿਆਕਰਨ ਦੇ ਵਿਭਿੰਨ- ਵਿਭਿੰਨ ਪੱਖਾਂ ਦਾ ਅਧਿਐਨ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਭਾਸ਼ਾ ਵਿਚ ਮੁਹਾਰਤ ਹਾਸਿਲ ਕਰਨ ਅਤੇ ਉਚੇਰੀ ਸਿੱਖਿਆ ਗ੍ਰਹਿਣ ਕਰਨ ਲਈ ਪ੍ਰੇਰਿਤ ਕਰਦਾ ਹੈ। 3. ਮਾਤ-ਭਾਸ਼ਾ ਦਾ ਗਿਆਨ ਭਾਸ਼ਾ ਦੀ ਅਮੀਰੀ ਅਤੇ ਮਹੱਤਤਾ ਨੂੰ ਉਜਾਗਰ ਕਰਦਾ ਹੈ। 4. ਮਨੁੱਖ ਦੀਆਂ ਵਿਵਹਾਰਕ ਲੋੜਾਂ ਨੂੰ ਮੁੱਖ ਰੱਖਦੇ ਹੋਏ ਚਿੱਠੀ-ਪੱਤਰ ਨੂੰ ਵੀ ਇਸ ਪਾਠਕ੍ਰਮ ਵਿਚ ਰੱਖਿਆ ਗਿਆ ਹੈ। 5. ਸਾਡੇ ਸਮਾਜ ਵਿਚਲੀਆਂ ਘਟਨਾਵਾਂ, ਚਲੰਤ ਮਾਮਲਿਆਂ ਤੋਂ ਜਾਣੂ ਕਰਵਾਉਂਣ ਲਈ ਨਿਬੰਧ ਰਚਨਾ ਵਿਦਿਆਰਥੀ ਲਈ ਲਾਹੇਵੰਦ ਸਾਬਿਤ ਹੁੰਦੀ ਹੈ।

ਬੀ. ਕਾਮ (ਆਨਰਜ਼), ਭਾਗ-ਪਹਿਲਾ ਸਮੈਸਟਰ-ਦੂਜਾ,B.Com (Hon's), -I, Sem-II

ਕੋਰਸ ਕੋਡ	ਕੋਰਸਦਾ ਨਾਂ	ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੇ ਗਿਆਨ ਵਰਧਕ ਸਿੱਟੇ
BCH 205	ਪੰਜਾਬੀ ਲਾਜ਼ਮੀ	1. ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਪੰਜਾਬੀ ਸਾਹਿਤ ਦੇ ਵਾਰਤਕ ਦੇ ਵੱਖਰੇ-ਵੱਖਰੇ ਵਿਸ਼ਿਆਂ ਨੂੰ ਪੜ੍ਹਾਉਣ ਦਾ ਮਨੋਰਥ ਉਹਨਾਂ ਅੰਦਰ ਉਸਾਰੂ ਰੁਚੀਆਂ ਨੂੰ ਪੈਦਾ ਕਰਨਾ ਹੈ । 2. ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਅਤੇ ਧੁਨੀਆਂ ਦਾ ਅਧਿਐਨ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਭਾਸ਼ਾ ਦੀ ਸ਼ੁੱਧਤਾ,ਉਚਾਰਣ ਦੇ ਪੱਧਰ ਤੇ ਅਤੇ ਲੇਖਣ ਦੇ ਪੱਧਰ ਤੇ ਨਿਪੁੰਨ ਬਣਾਉਣਾ ਹੈ। 3. ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੇ ਕੇਂਦਰੀ ਰੂਪ ਅਤੇ ਉਸ ਵਿਚ ਆ ਰਹੀਆਂ ਤਬਦੀਲੀਆਂ ਅਤੇ ਭਾਸ਼ਾ ਦੇ ਵੱਖਰੇ-ਵੱਖਰੇ ਰੂਪਾਂ ਬਾਰੇ ਜਾਣਕਾਰੀ ਦੇਣਾ ਹੈ । 4. ਲੋਕ ਮੇਲੇ ਅਤੇ ਤਿਉਹਾਰਾਂ ਸੰਬੰਧੀ ਅਧਿਐਨ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਆਪਣੇ ਸਭਿਆਚਾਰ ਅਤੇ ਲੋਕਧਾਰਾ ਦੇ ਨਿਕਟ ਅਧਿਐਨ ਅਤੇ ਵਿਸ਼ਵੀਕਰਨ ਦੇ ਪੱਧਰ ਤੇ ਆ ਰਹੀਆਂ ਤਬਦੀਲੀਆਂ ਬਾਰੇ ਵਡਮੁੱਲੀ ਜਾਣਕਾਰੀ ਦੇਣਾ ਅਤੇ ਉਹਨਾਂ ਅੰਦਰ ਸਵੈ-ਮਾਣ ਨੂੰ ਜਗਾਉਂਣਾ ਹੈ।

ਕੋਰਸ- ਬੀ. ਕਾਮ/B.Com

ਸੈਸ਼ਨ 2018-19

ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੇ ਗਿਆਨ ਵਰਧਕ ਸਿੱਟੇ

ਬੀ. ਕਾਮ, ਭਾਗ-ਪਹਿਲਾ, ਸਮੈਸਟਰ-ਪਹਿਲਾ/B.Com-I, Sem-I

ਕੋਰਸ ਕੋਡ	ਕੋਰਸਦਾ ਨਾਂ	ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੇ ਗਿਆਨ ਵਰਧਕ ਸਿੱਟੇ
BC 104	ਪੰਜਾਬੀ ਲਾਜ਼ਮੀ	1. ਇਸ ਪਾਠਕ੍ਰਮ ਦਾ ਮਨੋਰਥ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਪੰਜਾਬੀ ਸਾਹਿਤ ਪੜ੍ਹਨ ਦੀ ਜਾਗ ਲਾਉਣਾ, ਉਨ੍ਹਾਂ ਅੰਦਰ ਰਚਨਾਤਮਕ ਰੁਚੀਆਂ ਪੈਦਾ ਕਰਨਾ ਅਤੇ ਆਧੁਨਿਕ ਸਮਾਜ ਵਿਚ ਫੈਲੇ ਵਿਰੋਧਾਂ, ਵਿਸੰਗਤੀਆਂ ਤੇ ਤਣਾਵਾਂ ਨੂੰ ਘਟਾਉਣਾ ਹੈ । 2. ਵਿਆਕਰਨ ਦੇ ਵਿਭਿੰਨ- ਵਿਭਿੰਨ ਪੱਖਾਂ ਦਾ ਅਧਿਐਨ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਭਾਸ਼ਾ ਵਿਚ ਮੁਹਾਰਤ ਹਾਸਿਲ ਕਰਨ ਅਤੇ ਉਚੇਰੀ ਸਿੱਖਿਆ ਗ੍ਰਹਿਣ ਕਰਨ ਲਈ ਪ੍ਰੇਰਿਤ ਕਰਦਾ ਹੈ।

		3. ਮਾਤ-ਭਾਸ਼ਾ ਦਾ ਗਿਆਨ ਭਾਸ਼ਾ ਦੀ ਅਮੀਰੀ ਅਤੇ ਮਹੱਤਤਾ ਨੂੰ ਉਜਾਗਰ ਕਰਦਾ ਹੈ। 4. ਮਨੁੱਖ ਦੀਆਂ ਵਿਵਹਾਰਕ ਲੋੜਾਂ ਨੂੰ ਮੁੱਖ ਰੱਖਦੇ ਹੋਏ ਚਿੱਠੀ-ਪੱਤਰ ਨੂੰ ਵੀ ਇਸ ਪਾਠਕ੍ਰਮ ਵਿਚ ਰੱਖਿਆ ਗਿਆ ਹੈ। 5. ਸਿਲੇਬਸ ਵਿਚ ਦਰਜ਼ ਪੁਸਤਕ 'ਕਥਾ-ਰੰਗ' ਦੇ ਮਾਧਿਅਮ ਰਾਹੀਂ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਸਮਾਜ ਵਿਚ ਫ਼ੈਲ ਰਹੇ ਦੁਰਾਚਾਰ ਅਤੇ ਸਮਾਜ ਨੂੰ ਦਰਪੇਸ਼ ਸਮੱਸਿਅਵਾਂ ਨਾਲ ਸੰਬੰਧਿਤ ਵਿਸ਼ਿਆ ਬਾਰੇ ਸੁਚੇਤ ਕਰਨਾ ਅਤੇ ਚਿੰਤਨਸ਼ੀਲ ਬਣਾਉਣਾ ਹੈ। 6. ਵਿਦਿਆਰਥੀ ਲਈ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦਾ ਸ਼ੁੱਧ ਉਚਾਰਨ ਅਤੇ ਸਹੀ ਲਿਖਣ ਪ੍ਰਬੰਧ ਵਿਚ ਪੰਜਾਬੀ ਧੁਨੀ-ਵਿਉਂਤ ਸਹਾਇਕ ਸਿੱਧ ਹੁੰਦੀ ਹੈ। 7. ਸਾਡੇ ਸਮਾਜ ਵਿਚਲੀਆਂ ਘਟਨਾਵਾਂ, ਚਲੰਤ ਮਾਮਲਿਆਂ ਤੋਂ ਜਾਣੂ ਕਰਵਾਉਂਣ ਲਈ ਨਿਬੰਧ ਰਚਨਾ ਵਿਦਿਆਰਥੀ ਲਈ ਲਾਹੇਵੰਦ ਸਾਬਿਤ ਹੁੰਦੀ ਹੈ।

ਬੀ. ਕਾਮ, ਭਾਗ-ਪਹਿਲਾ ਸਮੈਸਟਰ-ਦੂਜਾ/B.Com-I, Sem-II

ਕੋਰਸ ਕੋਡ	ਕੋਰਸਦਾ ਨਾਂ	ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੇ ਗਿਆਨ ਵਰਧਕ ਸਿੱਟੇ
BC 204	ਪੰਜਾਬੀ ਲਾਜ਼ਮੀ	1. ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਵਾਰਤਕ ਪੜ੍ਹਾਉਣ ਦਾ ਮੂਲ ਮੰਤਵ ਸਮਕਾਲੀ ਵਾਰਤਕ ਤੋਂ ਜਾਣੂ ਕਰਵਾਉਣਾ ਹੀ ਨਹੀਂ ਸਗੋਂ ਉਹਨਾਂ ਨੂੰ ਸਮਕਾਲ ਵਿਚ ਚੱਲ ਰਹੇ ਵਿਚਾਰ ਪ੍ਰਵਾਹ ਤੋਂ ਜਾਣੂ ਕਰਉਂਣਾ ਵੀ ਹੈ। 2. ਇਹ ਲੇਖ ਸਮਕਾਲੀ ਚਿੰਤਨ ਦੇ ਵੱਖ-ਵੱਖ ਪਸਾਰਾਂ ਨੂੰ ਪੇਸ਼ ਕਰਦੇ ਹਨ, ਜਿਸ ਨਾਲ ਵਿਦਿਆਰਥੀ ਦੇ ਮਾਨਸਿਕ ਪੱਧਰ ਦਾ ਵਿਕਾਸ ਹੁੰਦਾ ਹੈ। 3. ਮਨੁੱਖ ਦੀਆਂ ਵਿਵਹਾਰਿਕ ਲੋੜਾ ਨੂੰ ਮੁੱਖ ਰੱਖਦੇ ਹੋਏ , ਵਿਦਿਆਰਥੀ ਲਈ ਚਿੱਠੀ-ਪੱਤਰ ਦੀ ਜਾਣਕਾਰੀ ਲਾਭਦਾਇਕ ਸਾਬਿਤ ਹੁੰਦੀ ਹੈ। 4. ਪੰਜਾਬੀ ਦੀਆਂ ਵੱਖ-ਵੱਖ ਖੇਤਰਾਂ ਦੀਆਂ ਉਪ-ਭਾਸ਼ਾਵਾਂ ਪੜ੍ਹਣ ਤੋਂ ਬਾਅਦ ਵਿਦਿਆਰਥੀ ਨੂੰ ਆਪਣੀ ਮਾਤ-ਭਾਸ਼ਾ ਦੀ ਅਮੀਰ ਸ਼ਬਦਾਵਲੀ ਬਾਰੇ ਵੀ ਸੋਝੀ ਪ੍ਰਾਪਤ ਹੁੰਦੀ ਹੈ। 5. ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਸਮਕਾਲ ਵਿਚ ਚਲ ਰਹੇ ਵਾਰਤਕ ਦੇ ਵੱਖ-ਵੱਖ ਸੰਦਰਭਾਂ ਬਾਰੇ ਗਿਆਨ ਉਪਲੱਬਧ ਕਰਵਾਉਂਣ ਦੇ ਨਾਲ-ਨਾਲ ਉਹਨਾਂ ਨੂੰ ਅਪਣੀ ਅਮੀਰ

		ਵਿਰਾਸਤ ਨੂੰ ਪਛਾਨਣ ਅਤੇ ਉਹਨਾਂ ਦੀ ਸੋਚ ਨੂੰ ਵਿਸ਼ਾਲ ਕਰਨ ਹਿੱਤ ਅਹਿਮ ਯੋਗਦਾਨ ਪਾਵੇਗੀ।

ਬੀ.ਕਾਮ ਭਾਗ- ਦੂਜਾ/B.Com-II

ਸੈਸ਼ਨ 2018-19

ਬੀ.ਕਾਮ ਭਾਗ ਦੂਜਾ, ਸਮੈਸਟਰ- ਤੀਜਾ/B.Com-II, Sem-III

ਕੋਰਸ ਕੋਡ	ਕੋਰਸਦਾ ਨਾਂ	ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੇ ਗਿਆਨ ਵਰਧਕ ਸਿੱਟੇ
BC 303	ਪੰਜਾਬੀ ਲਾਜ਼ਮੀ	1. ਇਸ ਪਾਠਕ੍ਰਮ ਦਾ ਮਨੋਰਥ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਉਨ੍ਹਾਂ ਦੇ ਇਤਿਹਾਸਕ ਗੌਰਵ ਤੋਂ ਜਾਣੂ ਕਰਵਾਉਣ ਦੇ ਨਾਲ-ਨਾਲ ਆਪਣੇ ਹੱਕਾਂ ਪ੍ਰਤੀ ਸੁਚੇਤ ਕਰਨਾ ਅਤੇ ਆਧੁਨਿਕ ਸਮੇਂ ਵਿਚ ਧਰਮ ਦੇ ਸਹੀ ਅਰਥਾਂ ਨੂੰ ਸਮਝਣਾ ਹੈ। 2. ਲੇਖ ਰਚਨਾ ਦਾ ਮੰਤਵ ਵਿਦਿਆਰਥੀਆ ਨੂੰ ਸਮਾਜ ਵਿਚ ਫ਼ੈਲੇ ਵਿਭਿੰਨ-ਵਿਭਿੰਨ ਵਰਤਾਰਿਆ ਪ੍ਰਤੀ ਸੁਚੇਤ ਕਰਨਾ ਹੈ। 3. ਅੰਗਰੇਜ਼ੀ ਤੋਂ ਪੰਜਾਬੀ ਅਨੁਵਾਦ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੇ ਨਾਲ-ਨਾਲ ਸੰਕਲਪ ਦੀ ਪੱਧਰ ਤੇ ਅੰਗਰੇਜ਼ੀ ਭਾਸ਼ਾ ਵਿਚ ਵੀ ਮੁਹਾਰਤ ਰੱਖਣ ਵਿਚ ਸਹਾਇਕ ਸਿੱਧ ਹੁੰਦਾ ਹੈ । 4. ਇਹ ਪਾਠਕ੍ਰਮ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਅਕਾਦਮਿਕ ਸਿੱਖਿਆਂ ਦੇ ਨਾਲ-ਨਾਲ ਆਪਣੇ ਗੌਰਵਮਈ ਵਿਰਸੇ ਨਾਲ ਜੋੜਨ ਵਿਚ ਵੀ ਚੰਗੀ ਭੂਮਿਕਾ ਨਿਭਾ ਰਿਹਾ ਹੈ ।

ਬੀ.ਕਾਮ ਭਾਗ ਦੂਜਾ ਸਮੈਸਟਰ-ਚੌਥਾ/B.Com-II, Sem-IV

ਕੋਰਸ ਕੋਡ	ਕੋਰਸਦਾ ਨਾਂ	ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੇ ਗਿਆਨ ਵਰਧਕ ਸਿੱਟੇ
BC 405	ਪੰਜਾਬੀ ਲਾਜ਼ਮੀ	1. ਇਹ ਪਾਠਕ੍ਰਮ ਪੰਜਾਬੀ ਲੋਕਧਾਰਾ ਦਾ ਨਿਕਟ ਅਧਿਐਨ ਕਰਵਾ ਕੇ ਉਸਦੇ ਵੱਖਰੇ-ਵੱਖਰੇ ਪੱਖਾਂ ਨੂੰ ਉਜਾਗਰ ਕਰਦਾ ਅਤੇ ਆਪਣੇ ਮਾਣ-ਮੱਤੇ ਵਿਰਸੇ ਪ੍ਰਤੀ ਸਤਿਕਾਰ ਦੀ ਭਾਵਨਾ ਪੈਦਾ ਕਰਦਾ ਹੈ। 2. ਲੋਕਧਾਰਾਈ ਵਰਤਾਰਿਆਂ ਬਾਰੇ ਮੁੱਢਲੀ ਜਾਣਕਾਰੀ ਦੇ ਕੇ ਵਿਦਿਆਰਥੀ ਨੂੰ ਅਪਣੇ-ਆਲੇ ਦੁਆਲੇ ਪ੍ਰਤੀ ਉਸਦੀ ਜਿੰਮੇਵਾਰੀ ਦਾ ਬੋਧ ਕਰਵਾਉਂਦਾ ਹੈ।

		3. ਵਿਸ਼ਵੀਕਰਨ ਦੇ ਵੱਧਦੇ ਪਸਾਰ ਨੂੰ ਦੇਖਦਿਆਂ ਇਹ ਪਾਠਕ੍ਰਮ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਵੱਖਰੀਆਂ-ਵੱਖਰੀਆਂ ਭਾਸ਼ਾਵਾਂ ਦੇ ਗਿਆਨ ਅਤੇ ਅਨੁਵਾਦ ਕਰਨ ਦੇ ਸਮਰੱਥ ਬਣਾਉਂਦਾ ਹੈ। 4. ਇਹ ਪਾਠਕ੍ਰਮ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਮਾਤ-ਭਾਸ਼ਾ ਦੇ ਨੇਮਾਂ ਸੰਬੰਧੀ ਜਾਗਰੂਕ ਕਰਦਾ ਹੈ ਅਤੇ ਸੰਚਾਰ ਲਈ ਉਸਦੇ ਵਾਕ ਬੋਧ ਨੂੰ ਨਿਖਾਰਦਾ ਅਤੇ ਉਸ ਅੰਦਰ ਸਲੀਕਾ ਪੈਦਾ ਕਰਦਾ ਹੈ।

ਬੀ.ਕਾਮ ਭਾਗ ਤੀਜਾ/B.Com-III

ਸੈਸ਼ਨ 2018-19

ਬੀ.ਕਾਮ ਭਾਗ ਤੀਜਾ, ਸਮੈਸਟਰ ਪੰਜਵਾਂ/B.Com-III, Sem-V

ਕੋਰਸ ਕੋਡ	ਕੋਰਸਦਾ ਨਾਂ	ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੇ ਗਿਆਨ ਵਰਧਕ ਸਿੱਟੇ
BC 505	ਪੰਜਾਬੀ ਲਾਜ਼ਮੀ	1. ਇਸ ਪਾਠਕ੍ਰਮ ਦਾ ਉਦੇਸ਼ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਨਾਵਲ ਵਿਧਾ ਰਾਹੀਂ ਸਮਾਜਕ ਤੌਰ ਤੇ ਚੇਤੰਨ ਕਰਨਾ ਅਤੇ ਜ਼ਿੰਦਗੀ ਜਿਉਣ ਦਾ ਬਲ ਪੈਦਾ ਕਰਨਾ ਹੈ। 2. ਵਿਆਕਰਨ ਵਾਲੇ ਭਾਗ ਨਾਲ ਵਿਦਿਆਰਥੀ ਨੂੰ ਭਾਸ਼ਾ ਦੀ ਵਾਕ ਬਣਤਰ ਅਤੇ ਕੁਸ਼ਲ ਸੰਚਾਰ ਕਰਨ ਦੇ ਯੋਗ ਬਣਾਉਣਾ ਹੈ। 3. ਇਸ ਪਾਠਕ੍ਰਮ ਨਾਲ ਵਿਦਿਆਰਥੀਆਂ ਅੰਦਰ ਪੰਜਾਬੀ ਸਾਹਿਤ ਪੜਨ ਦੀ ਰੁਚੀ ਪੈਦਾ ਹੁੰਦੀ ਹੈ ਅਤੇ ਉਹਨਾਂ ਅੰਦਰ ਰਚਨਾਤਮਕ ਰੁਚੀਆਂ ਪੈਦਾ ਹੁੰਦੀਆਂ ਹਨ। 4. ਇਸ ਪਾਠਕ੍ਰਮ ਵਿੱਚ ਲੱਗੇ ਨਾਵਲ ਦਾ ਅਧਿਐਨ ਵਿਦਿਆਰਥੀ ਨੂੰ ਸਮਾਜ ਵਿਚਲੇ ਅਣਗੌਲੇ ਕਿਰਦਾਰਾਂ ਨਾਲ ਰੂਬਰੂ ਕਰਵਾਕੇ ਚਿੰਤਨਸ਼ੀਲ ਬਣਾਉਂਦਾ ਹੈ। 5. ਇਹ ਪਾਠਕ੍ਰਮ ਨਾ ਕੇਵਲ ਵਿਦਿਆਰਥੀ ਨੂੰ ਮਾਤ ਭਾਸ਼ਾ ਨਾਲ ਜੋੜਦਾ ਹੈ ਬਲਕਿਉਸਦੇਮਨ ਅੰਦਰ ਮਾਤ ਭਾਸ਼ਾ ਪ੍ਰਤੀ ਸਤਿਕਾਰ ਪੈਦਾ ਵੀ ਕਰਦਾ ਹੈ। 6. ਇਹ ਪਾਠਕ੍ਰਮ ਵਿਦਿਆਰਥੀ ਦੀ ਕੁਸ਼ਲ ਲੇਖਣੀ,ਭਾਸ਼ਾ ਦੇ ਸ਼ੁੱਧ ਉਚਾਰਨ ਵਿੱਚ ਮਦਦਗਾਰ ਸਾਬਿਤ ਹੁੰਦਾ ਹੈ।

ਬੀ. ਕਾਮ ਭਾਗ- ਤੀਜਾ, ਸਮੈਸਟਰ- ਛੇਵਾਂ/B.Com-III, Sem-VI

ਕੋਰਸ ਕੋਡ	ਕੋਰਸਦਾ ਨਾਂ	ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੇ ਗਿਆਨ ਵਰਧਕ ਸਿੱਟੇ
BC 605	ਪੰਜਾਬੀ ਲਾਜ਼ਮੀ	1. ਇਸ ਪਾਠਕ੍ਰਮ ਦਾ ਉਦੇਸ਼ ਆਧੁਨਿਕ ਵਿਸ਼ਿਸ਼ਟ ਵਿੱਦਿਆ ਪ੍ਰਾਪਤ ਕਰਦੇ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਲੋਕਧਾਰਾ ਦਾ ਅਧਿਐਨ ਕਰਵਾਕੇ ਉਹਨਾਂ ਨੂੰ ਉਹਨਾਂ ਦੇ ਵਿਰਸੇ ਅਤੇ ਧਰਾਤਲ ਨਾਲ ਜੋੜਨਾ ਹੈ। 2. ਲੋਕਧਾਰਾਈ ਵਰਤਾਰਿਆਂ ਬਾਰੇ ਮੁੱਢਲੀ ਜਾਣਕਾਰੀ ਨਾਲ ਵਿਦਿਆਰਥੀ ਨੂੰ ਆਪਣੇ ਆਲੇ- ਦੁਆਲੇ ਪ੍ਰਤੀ ਉਸਦੀ ਜਿੰਮੇਵਾਰੀ ਦਾ ਬੋਧ ਹੁੰਦਾ ਹੈ। 3. ਇਸ ਪਾਠਕ੍ਰਮ ਦੇ ਨਾਲ ਵਿਦਿਆਰਥੀ ਨਾ ਕੇਵਲ ਆਪਣੇ ਧਰਾਤਲ ਅਤੇ ਵਿਰਸੇ ਪ੍ਰਤੀ ਜਾਣੂੰ ਹੁੰਦਾ ਹੈ ਬਲਕਿ ਉਸ ਅੰਦਰ ਆਪਣੇ ਸੱਭਿਆਚਾਰ ਪ੍ਰਤੀ ਸਤਿਕਾਰਤ ਭਾਵਨਾ ਵੀ ਪੈਦਾ ਹੁੰਦੀ ਹੈ। 4. ਵਿਸ਼ਵੀਕਰਨ ਦੇ ਵੱਧਦੇ ਪਸਾਰ ਨੂੰ ਦੇਖਦਿਆਂ ਇਹ ਪਾਠਕ੍ਰਮ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਮਾਤ ਭਾਸ਼ਾ ਦੇ ਅਨੁਵਾਦਕ ਦੇ ਰੂਪ ਵਿਚ ਸਿੱਖਿਤ ਕਰਦਾ ਹੈ। 5. ਵਿਆਕਰਨ ਦਾ ਅਧਿਐਨ ਵਿਦਿਆਰਥੀ ਨੂੰ ਭਾਸ਼ਾ ਦੀ ਕੁਸ਼ਲ ਵਰਤੋਂ ਕਰਨ ਦੇ ਯੋਗ ਬਣਾਉਂਦਾ ਹੈ।

ਬੀ. ਏ. ਐੱਫ਼, ਭਾਗ–ਪਹਿਲਾ/ B.A.F., -I
ਸੈਸ਼ਨ 2018–19

ਬੀ. ਏ. ਐੱਫ਼, ਭਾਗ–ਪਹਿਲਾ, ਸਮੈਸਟਰ–ਪਹਿਲਾ/B.A.F.-I, Sem-I

ਕੋਰਸ ਕੋਡ	ਕੋਰਸਦਾ ਨਾਂ	ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੇ ਗਿਆਨ ਵਰਧਕ ਸਿੱਟੇ
BAF 101	ਪੰਜਾਬੀ ਲਾਜ਼ਮੀ	1. ਇਸ ਪਾਠਕ੍ਰਮ ਦਾ ਮਨੋਰਥ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਪੰਜਾਬੀ ਸਾਹਿਤ ਪੜ੍ਹਨ ਦੀ ਜਾਗ ਲਾਉਣਾ, ਉਨ੍ਹਾਂ ਅੰਦਰ ਰਚਨਾਤਮਕ ਰੁਚੀਆਂ ਪੈਦਾ ਕਰਨਾ ਅਤੇ ਆਧੁਨਿਕ ਸਮਾਜ ਵਿਚ ਫੈਲੇ ਵਿਰੋਧਾਂ, ਵਿਸੰਗਤੀਆਂ ਤੇ ਤਣਾਵਾਂ ਨੂੰ ਘਟਾਉਣਾ ਹੈ । 2. ਮਾਤ ਭਾਸ਼ਾ ਦੇ ਵਿਭਿੰਨ ਪੱਖਾਂ ਦਾ ਅਧਿਐਨ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਉਚੇਰੀ ਸਿੱਖਿਆ ਗ੍ਰਹਿਣ ਕਰਨ ਲਈ ਪ੍ਰੇਰਿਤ ਕਰਦਾ ਅਤੇ ਮਾਤ ਭਾਸ਼ਾ ਦੀ ਅਮੀਰੀ ਅਤੇ ਮਹੱਤਤਾ ਦਾ ਗਿਆਨ ਦਿੰਦਾ ਹੈ। 3. ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਅਤੇ ਧੁਨੀਆਂ ਦਾ ਅਧਿਐਨ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਪੰਜਾਬੀ ਉਪ-ਭਾਸ਼ਾਵਾਂ ਦੀ ਵੱਖਰਤਾ ਅਤੇ ਸਾਂਝ ਬਾਰੇ ਰੌਚਕ ਜਾਣਕਾਰੀ ਦਿੰਦੇ ਹੋਏ ਟਕਸਾਲੀ ਭਾਸ਼ਾ ਬਾਰੇ ਗਿਆਨ ਪ੍ਰਦਾਨ ਕਰਦਾ ਹੈ। 4. ਮਨੁੱਖ ਦੀਆਂ ਵਿਵਹਾਰਕ ਲੋੜਾਂ ਨੂੰ ਮੁੱਖ ਰੱਖਦੇ ਹੋਏ ਚਿੱਠੀ-ਪੱਤਰ ਨੂੰ ਇਸ

		ਪਾਠਕ੍ਰਮ ਵਿਚ ਰੱਖਿਆ ਗਿਆ ਹੈ। 5. ਇਸ ਪਾਠਕ੍ਰਮ ਦਾ ਮਨੋਰਥ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਚਲੰਤ ਮਾਮਲਿਆ ਬਾਰੇ ਸੁਚੇਤ ਕਰਨਾ ਅਤੇ ਸਮਕਾਲ ਦੇ ਪ੍ਰਮੁੱਖ ਸਰੋਕਾਰਾਂ ਬਾਰੇ ਚੇਤੰਨ ਅਤੇ ਚਿੰਤਨਸ਼ੀਲ ਬਣਾਉਦਾ ਹੈ, ਤਾਂ ਜੋ ਵਿਦਿਆਰਥੀ ਚੰਗੇਰਾ ਸਮਾਜ ਸਿਰਜਣ ਵਿਚ ਸਹਾਇਕ ਹੋ ਸਕਣ। 6. ਵਿਦਿਆਰਥੀ ਨੂੰ ਪੰਜਾਬੀ ਧੁਨੀਆਂ ਸਵਰ ਅਤੇ ਵਿਅੰਜਨ ਨੂੰ ਦਾ ਸਹੀ ਬੋਧ ਹੋਵੇਗਾ ਅਤੇ ਉਸ ਦੀ ਭਾਸ਼ਾ ਦਾ ਠੀਕ ਪ੍ਰਯੋਗ ਜੋ ਸਕੇਗਾ।

ਬੀ.ਐਸ.ਸੀ (ਮੈਡੀ.,ਨਾਨ–ਮੈਡੀ,ਸੀ.ਐਸ.ਐੱਮ)/ B. Sc. (Med., non- Med, C.S.M.)

ਸ਼ੈਸ਼ਨ- 2018-19

ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੇ ਗਿਆਨ ਵਰਧਕ ਸਿੱਟੇ

ਉਦੇਸ਼ :

ਇਸ ਕੋਰਸ ਵਿੱਚ ਪੰਜਾਬੀ ਲਾਜ਼ਮੀ ਦਾ ਵਿਸ਼ਾ ਪੜ੍ਹਨ ਦੁਆਰਾ ਵਿਦਿਆਰਥੀ ਸਾਹਿਤ ਲਿਖਣ- ਪੜ੍ਹਨ ਦੇ ਨਾਲ-ਨਾਲ ਸਖ਼ਸ਼ੀਅਤ, ਸਮਾਜ ਅਤੇ ਹੋਰ ਬਹੁਪੱਖੀ ਵਿਚਾਰਧਾਰਵਾਂ ਬਾਰੇ ਜਾਣਨ ਦੇ ਯੋਗ ਹੁੰਦੇ ਹਨ।

ਬੀ.ਐਸ.ਸੀ (ਮੈਡੀ,ਨਾਨ–ਮੈਡੀ,ਸੀ.ਐਸ.ਐਮ) ਪਾਸ ਕਰਨ ਉਪਰੰਤ

1. ਇਹ ਵਿਸ਼ਾ ਵਿਦਿਆਰਥੀਆਂ ਦੀ ਸਰਬਪੱਖੀ ਸਖ਼ਸ਼ੀਅਤ ਉਸਾਰੀ ਲਈ ਸਾਰਥਕ ਹੈ ।
2. ਇਹ ਵਿਸ਼ਾ ਵਿਦਿਆਰਥੀਆਂ ਲਈ ਵੱਖ-ਵੱਖ ਮੁਕਾਬਲੇਦੀਆਂ ਪ੍ਰੀਖਿਆਵਾਂ ਦੇ ਯੋਗ ਬਣਾਉਂਦਾ ਹੈ।
3. ਇਸ ਵਿਸ਼ਾ ਵਿਚ ਪੜ੍ਹਾਏ ਜਾਂਦੇ ਵਿਸ਼ੇ ਉਚੇਰੀ ਸਿੱਖਿਆ ਲਈ ਅਧਾਰ ਬਣਦੇ ਹਨ।
4. ਮਾਤ-ਭਾਸ਼ਾ ਦਾ ਇਹ ਵਿਸ਼ਾ ਵਿਦਿਆਰਥੀ/ਜਗਿਆਸੂ ਨੂੰ ਭਾਸ਼ਾ,ਸਾਹਿਤ,ਕਲਾ ਅਤੇ ਸਭਿਆਚਾਰ ਨਾਲ ਜੋੜ ਕੇ ਉੱਚਤਮ ਜੀਵਨ ਜਾਂਚ ਸਿਖਾਉਂਦਾ ਹੈ ।
5. ਇਹ ਵਿਸ਼ਾ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਚੇਤੰਨ ਅਤੇ ਚਿੰਤਨਸ਼ੀਲ ਬਣਾਉਣ ਦੇ ਨਾਲ-ਨਾਲ ਇਸ ਮਸ਼ੀਨੀ ਯੁੱਗ ਵਾਲੀ ਤਣਾਓ ਪੂਰਨ ਜਿੰਦਗੀ ਨਾਲ ਜੂਝਣ ਦੀ ਸਮਰੱਥਾ ਪੈਦਾ ਕਰਦਾ ਹੈ ।
6. ਇਹ ਵਿਸ਼ਾ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਅਤੇ ਗੁਰਮੁਖੀ ਲਿਪੀ ਵਿਚ ਨਿਪੁੰਨ ਬਣਾਉਦਾ ਹੈ ।
7. ਇਹ ਵਿਸ਼ਾ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਤਕਨਾਲੋਜੀ ਦੇ ਯੁੱਗ ਅੰਦਰ ਵੀ ਵਧੇਰੇ ਸੰਵੇਦਨਸ਼ੀਲ ਬਣਾਉਦਾ ਹੈ।

ਬੀ.ਐਸ.ਸੀ(ਮੈਡੀ.,ਨਾਨ–ਮੈਡੀ,ਸੀ.ਐਸ.ਐੱਮ) ਭਾਗ –ਪਹਿਲਾ, ਸਮੈਸਟਰ–ਪਹਿਲਾ/B. Sc. (Med., non-Med, C.S.M.)-I, Sem-I

ਕੋਰਸ ਕੋਡ	ਕੋਰਸਦਾ ਨਾਂ	ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੇ ਗਿਆਨ ਵਰਧਕ ਸਿੱਟੇ
BAECC-104/	ਪੰਜਾਬੀ ਲਾਜ਼ਮੀ	1. ਇਸ ਪਾਠਕ੍ਰਮ ਦਾ ਮਨੋਰਥ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਪੰਜਾਬੀ ਸਾਹਿਤ ਪੜ੍ਹਨ ਦੀ ਜਾਗ ਲਾਉਣਾ, ਉਨ੍ਹਾਂ ਅੰਦਰ ਰਚਨਾਤਮਕ ਰੁਚੀਆਂ ਪੈਦਾ ਕਰਨਾ ਅਤੇ ਆਧੁਨਿਕ ਸਮਾਜ ਵਿਚ ਫੈਲੇ ਵਿਰੋਧਾਂ, ਵਿਸੰਗਤੀਆਂ ਤੇ ਤਣਾਵਾਂ ਨੂੰ ਘਟਾਉਣਾ ਹੈ । 2. ਮਾਤ ਭਾਸ਼ਾ ਅਤੇ ਕਹਾਣੀ ਵਿਧਾ ਦੇ ਵਿਭਿੰਨ ਪੱਖਾਂ ਦਾ ਅਧਿਐਨ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਉਚੇਰੀ ਸਿੱਖਿਆ ਗ੍ਰਹਿਣ ਕਰਨ ਲਈ ਪ੍ਰੇਰਿਤ ਕਰਦਾ ਅਤੇ ਵਿਦਿਆਰਥੀ ਦੀ ਸ਼ਖ਼ਸੀਅਤ ਉਸਾਰੀ ਲਈ ਸਾਰਥਕ ਹੈ। 3. ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਅਤੇ ਧੁਨੀਆਂ ਦਾ ਅਧਿਐਨ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਪੰਜਾਬੀ ਉਪ–ਭਾਸ਼ਾਵਾਂ ਦੀ ਵੱਖਰਤਾ ਅਤੇ ਸਾਂਝ ਬਾਰੇ ਰੌਚਕ ਜਾਣਕਾਰੀ ਦਿੰਦੇ ਹੋਏ ਟਕਸਾਲੀ ਭਾਸ਼ਾ ਬਾਰੇ ਗਿਆਨ ਪ੍ਰਦਾਨ ਕਰਦਾ ਹੈ। 4. ਮਨੁੱਖ ਦੀਆਂ ਵਿਵਹਾਰਕ ਲੋੜਾਂ ਨੂੰ ਮੁੱਖ ਰੱਖਦੇ ਹੋਏ ਚਿੱਠੀ–ਪੱਤਰ ਨੂੰ ਇਸ ਪਾਠਕ੍ਰਮ ਵਿਚ ਰੱਖਿਆ ਗਿਆ ਹੈ। 5. ਇਸ ਪਾਠਕ੍ਰਮ ਦਾ ਮਨੋਰਥ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਚਲੰਤ ਮਾਮਲਿਆ ਬਾਰੇ ਸੁਚੇਤ ਕਰਨਾ ਅਤੇ ਸਮਕਾਲ ਦੇ ਪ੍ਰਮੁੱਖ ਸਰੋਕਾਰਾਂ ਬਾਰੇ ਚੇਤੰਨ ਅਤੇ ਚਿੰਤਨਸ਼ੀਲ ਬਣਾਉਦਾ ਹੈ, ਤਾਂ ਜੋ ਵਿਦਿਆਰਥੀ ਚੰਗੇਰਾ ਸਮਾਜ ਸਿਰਜਣ ਵਿਚ ਸਹਾਇਕ ਹੋ ਸਕਣ।

ਬੀ.ਐਸ.ਸੀ(ਮੈਡੀ.,ਨਾਨ–ਮੈਡੀ,ਸੀ.ਐਸ.ਐੱਮ) ਸਮੈਸਟਰ –ਦੂਜਾ/

B. Sc. (Med., non- Med, C.S.M.)-I,Sem-II

ਕੋਰਸ ਕੋਡ	ਕੋਰਸਦਾ ਨਾਂ	ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੇ ਗਿਆਨ ਵਰਧਕ ਸਿੱਟੇ
BAECC-204	ਪੰਜਾਬੀ ਲਾਜ਼ਮੀ	1. ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਪੰਜਾਬੀ ਵਾਰਤਕ ਸਾਹਿਤ ਪੜਾਉਣ ਦਾ ਮਨੋਰਥ ਉਹਨਾਂ ਅੰਦਰ ਉਸਾਰੂ ਵਿਚਾਰ ਪੈਦਾ ਕਰਨਾ ਅਤੇ ਉਨ੍ਹਾਂ ਨੂੰ ਚਿੰਤਨਸ਼ੀਲ ਬਣਾਉਣਾ ਹੈ । 2. ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਅਤੇ ਧੁਨੀਆਂ ਦਾ ਅਧਿਐਨ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਭਾਸ਼ਾ ਦਾ ਸ਼ੁੱਧ ਉਚਾਰਣ ਅਤੇ ਸ਼ੁੱਧ ਲੇਖਣ ਵਿਧੀ ਵਿਚ ਸਹਾਇਕ ਹੋਵੇਗਾ।

		3. ਲੋਕ ਮੇਲੇ ਅਤੇ ਤਿਉਹਾਰਾਂ ਸੰਬੰਧੀ ਅਧਿਐਨ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਆਪਣੇ ਸਭਿਆਚਾਰ ਅਤੇ ਲੋਕਧਾਰਾ ਬਾਰੇ ਅਣਮੁੱਲੀ ਜਾਣਕਾਰੀ ਦੇਣ ਦੇ ਨਾਲ-ਨਾਲ ਉਹਨਾਂ ਅੰਦਰ ਸਵੈ-ਮਾਣ ਜਗਾਉਂਦਾ ਹੈ। 4. ਇਹ ਪਾਠਕ੍ਰਮ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਸਮਕਾਲ ਦੇ ਪ੍ਰਮੁੱਖ ਸਰੋਕਾਰਾਂ ਬਾਰੇ ਚੇਤੰਨ ਅਤੇ ਚਿੰਤਨਸ਼ੀਲ ਬਣਾਉਦਾ ਹੈ, ਤਾਂ ਜੋ ਵਿਦਿਆਰਥੀ ਚੰਗੇਰਾ ਸਮਾਜ ਸਿਰਜਣ ਵਿਚ ਸਹਾਇਕ ਹੋ ਸਕਣ।

ਬੀ.ਐਸ.ਸੀ (ਮੈਡੀ.,ਨਾਨ-ਮੈਡੀ,ਸੀ.ਐਸ.ਐੱਮ) ਭਾਗ -ਦੂਜਾ/

B. Sc. (Med., non- Med, C.S.M.)-II

ਸੈਸ਼ਨ 2018-19

ਬੀ.ਐਸ.ਸੀ(ਮੈਡੀ.,ਨਾਨ-ਮੈਡੀ,ਸੀ.ਐਸ.ਐੱਮ)- ਦੂਜਾ, ਸਮੈਸਟਰ-ਤੀਜਾ/

B. Sc. (Med., non- Med, C.S.M.)-II, Sem-III

ਕੋਰਸ ਕੋਡ	ਕੋਰਸਦਾ ਨਾਂ	ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੇ ਗਿਆਨ ਵਰਧਕ ਸਿੱਟੇ
BAECC-305	ਪੰਜਾਬੀ ਲਾਜ਼ਮੀ	1. ਪੰਜਾਬੀ ਸਾਹਿਤ ਦਾ ਰੂਪ ਨਾਟਕ ਵਿਦਿਆਰਥੀ-ਮਨ ਦਾ ਵਿਰੇਚਨ ਕਰਦੇ ਹੋਏ, ਉੱਚਤਮ ਜੀਵਨ ਜਾਂਚ ਸਿਖਾਉਂਦਾ ਹੈ । 2. ਨਾਟਕ ਵਿਦਿਆਰਥੀਆਂ ਅੰਦਰ ਕਲਪਨਾ ਦੇ ਅੰਸ਼ ਪੈਦਾ ਕਰਕੇ ਸਮਾਜਿਕ ਯਥਾਰਥ ਨਾਲ ਜੋੜਦਾ ਹੈ । 3. ਗੁਰਮੁਖੀ ਲਿੱਪੀ ਦਾ ਇਤਿਹਾਸ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਭਾਸ਼ਾ ਲਿਖਣ ਦੇ ਸਮਰੱਥ ਅਤੇ ਮਨੁੱਖੀ ਭਾਸ਼ਾ ਦੇ ਇਤਿਹਾਸ ਨੂੰ ਸਮਝਣ ਵਿਚ ਪ੍ਰਮੁੱਖ ਰੋਲ ਅਦਾ ਕਰਦਾ ਹੈ । 4. ਮੁਹਾਵਰਿਆਂ ਦਾ ਅਧਿਐਨ ਵਿਦਿਆਰਥੀਆਂ ਦੀ ਵਿਵਹਾਰਕ ਗਿਆਨ ਵਿਚ ਵਾਧਾ ਕਰਦਾ ਹੈ । 5. ਮੂਲ ਵਿਆਕਰਨ ਇਕਾਈਆਂ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਪੰਜਾਬੀ ਵਿਆਕਰਨ ਦੇ ਨੇਮ-ਪ੍ਰਬੰਧਾਂ ਤੋਂ ਜਾਣੂ ਕਰਵਾਉਂਦੀਆਂ ਹਨ।

		6. ਸਾਹਿਤ ਵਿਦਿਆਰਥੀ ਵਿਚ ਪੜ੍ਹਨ ਦੀ ਰੁਚੀ ਨੂੰ ਵਧੇਰੇ ਪ੍ਰਚੰਡ ਕਰਦਾ ਹੈ। 7. ਇਹ ਪਾਠਕ੍ਰਮ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਸਮਕਾਲ ਦੇ ਪ੍ਰਮੁੱਖ ਸਰੋਕਾਰਾਂ ਬਾਰੇ ਚੇਤੰਨ ਅਤੇ ਚਿੰਤਨਸ਼ੀਲ ਬਣਾਉਦਾ ਹੈ, ਤਾਂ ਜੋ ਵਿਦਿਆਰਥੀ ਚੰਗੇਰਾ ਸਮਾਜ ਸਿਰਜਣ ਵਿਚ ਸਹਾਇਕ ਹੋ ਸਕਣ।

ਬੀ.ਐਸ.ਸੀ (ਮੈਡੀ, ਨਾਨ–ਮੈਡੀ,ਸੀ.ਐਸ.ਐਮ) ਭਾਗ–ਦੂਜਾ, ਸਮੈਸਟਰ ਚੌਥਾ/

B. Sc. (Med., non- Med, C.S.M.)-II, Sem-IV

ਕੋਰਸ ਕੋਡ	**ਕੋਰਸਦਾ ਨਾਂ**	**ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੇ ਗਿਆਨ ਵਰਧਕ ਸਿੱਟੇ**
BAECC-405	ਪੰਜਾਬੀ ਲਾਜ਼ਮੀ	1. ਸਮਕਾਲੀ ਪੰਜਾਬੀ ਕਵਿਤਾ ਸਮਕਾਲ ਦੀਆਂ ਵਿਭਿੰਨ ਧਾਰਾਵਾਂ ਪ੍ਰਤੀ ਚੇਤੰਨਤਾ ਪ੍ਰਦਾਨ ਕਰਦੀ ਹੋਈ ਵਿਦਿਆਰਥੀ ਨੂੰ ਸਮੱਸਿਆਵਾਂ ਨਾਲ ਜੂਝਣ ਦੀ ਸਮਰੱਥਾ ਅਤੇ ਜਿੰਦਗੀ ਜਿਊਣ ਲਈ ਸੁਹਜ ਪੈਦਾ ਕਰਦੀ ਹੈ । 2. ਸਮਕਾਲੀ ਪੰਜਾਬੀ ਕਵਿਤਾ ਸੰਗ੍ਰਹਿ ਦੇ ਮਾਧਿਅਮ ਰਾਹੀਂ ਵਿਦਿਆਰਥੀ ਨੂੰ ਸਾਹਿਤ ਪੜ੍ਹਨ ਦੀ ਲਗਨ ਲਾਉਣਾ ਅਤੇ ਇਸ ਪਾਠਕ੍ਰਮ ਦਾ ਮਨੋਰਥ ਸਮਾਜ ਵਿਚ ਕਿਤਾਬ ਸਭਿਆਚਾਰ ਪੈਦਾ ਕਰਨਾ ਹੈ। 3. ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੇ ਨੇਮ ਪ੍ਰਬੰਧਾ ਤੋਂ ਜਾਣੂ ਕਰਵਾਉਣਾ ਹੈ । 4. ਵਿਦਿਆਰਥੀਆਂ ਸਭਿਆਚਾਰ ਦੇ ਸੰਕਲਪ ਨੂੰ ਸਮਝਦੇ ਹੋਏ ਸਭਿਅਕ ਸਮਾਜ ਦੀ ਸਿਰਜਣਾ ਕਰ ਸਕਣ।

ਬੀ.ਐਸ.ਸੀ (ਮੈਡੀ, ਨਾਨ-ਮੈਡੀ,ਸੀ.ਐਸ.ਐਮ) ਭਾਗ- ਤੀਜਾ/

B. Sc. (Med., non- Med, C.S.M.)-III

ਸੈਸ਼ਨ 2018-19

ਬੀ.ਐਸ.ਸੀ (ਮੈਡੀ, ਨਾਨ-ਮੈਡੀ,ਸੀ.ਐਸ.ਐਮ) ਭਾਗ-ਤੀਜਾ, ਸਮੈਸਟਰ ਪੰਜਵਾਂ/

B. Sc. (Med., non- Med, C.S.M.)-III, Sem-V

ਕੋਰਸ ਕੋਡ	ਕੋਰਸਦਾ ਨਾਂ	ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੇ ਗਿਆਨ ਵਰਧਕ ਸਿੱਟੇ
BAECC-505	ਪੰਜਾਬੀ ਲਾਜ਼ਮੀ	1. ਨਾਵਲ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਸਮਾਜਿਕ ਤੌਰ ਤੇ ਚੇਤੰਨ ਕਰਦਾ ਹੈ ਅਤੇ ਖੂਬਸੂਰਤ ਜ਼ਿਦਗੀ ਜਿਉਂਣ ਦਾ ਬਲ ਬਖਸ਼ਦਾ ਹੈ। 2. ਪਾਠਕ੍ਰਮ ਵਿਚਲਾ ਨਾਵਲ 'ਏਹੁ ਹਮਾਰਾ ਜੀਵਣਾ' ਜਾਗੀਰਦਾਰੀ ਸਮਾਜ ਵਿਚ ਔਰਤ ਦੀ ਸਥਿਤੀ ਬਾਖੂਬੀ ਪੇਸ਼ ਕਰਦਾ ਹੈ। 3. ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਅਤੇ ਧੁਨੀਆਂ ਦਾ ਅਧਿਐਨ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਭਾਸ਼ਾ ਦੀ ਸ਼ੁੱਧਤਾ,ਉਚਾਰਣ ਦੇ ਪੱਧਰ ਤੇ ਅਤੇ ਲੇਖਣ ਦੇ ਪੱਧਰ ਤੇ ਨਿਪੁੰਨ ਬਣਾਉਣਾ ਹੈ। ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੇ ਕੇਂਦਰੀ ਰੂਪ ਅਤੇ ਉਸ ਵਿਚ ਆ ਰਹੀਆਂ ਤਬਦੀਲੀਆਂ ਅਤੇ ਭਾਸ਼ਾ ਦੇ ਵੱਖਰੇ-ਵੱਖਰੇ ਰੂਪਾਂ ਬਾਰੇ ਜਾਣਕਾਰੀ ਦੇਣਾ ਹੈ । 4. ਇਸ ਪਾਠਕ੍ਰਮ ਦਾ ਮਨੋਰਥ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਪੰਜਾਬੀ ਸਾਹਿਤ ਪੜ੍ਹਣ ਦੀ ਜਾਗ ਲਾਉਣਾ ਅਤੇ ਉਹਨਾਂ ਅੰਦਰ ਰਚਨਾਤਮਕ ਰੁਚੀਆਂ ਪੈਦਾ ਕਰਨਾ ਹੈ।

ਬੀ.ਐਸ.ਸੀ (ਮੈਡੀ, ਨਾਨ-ਮੈਡੀ,ਸੀ.ਐਸ.ਐਮ) ਭਾਗ-ਤੀਜਾ, ਸਮੈਸਟਰ ਛੇਵਾਂ/

B. Sc. (Med., non- Med, C.S.M.)-III, Sem-VI

ਕੋਰਸ ਕੋਡ	ਕੋਰਸਦਾ ਨਾਂ	ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੇ ਗਿਆਨ ਵਰਧਕ ਸਿੱਟੇ
BAECC-605	ਪੰਜਾਬੀ ਲਾਜ਼ਮੀ	1. ਇਹ ਪਾਠਕ੍ਰਮ ਪੰਜਾਬੀ ਲੋਕਧਾਰਾ ਦਾ ਨਿਕਟ ਅਧਿਐਨ ਕਰਵਾ ਕੇ ਉਸਦੇ ਵੱਖਰੇ-ਵੱਖਰੇ ਪੱਖਾਂ ਨੂੰ ਉਜਾਗਰ ਕਰਦਾ ਅਤੇ ਆਪਣੇ ਮਾਣ-ਮੱਤੇ ਵਿਰਸੇ ਪ੍ਰਤੀ

		ਸਤਿਕਾਰ ਦੀ ਭਾਵਨਾ ਪੈਦਾ ਕਰਦਾ ਹੈ। 2. ਲੋਕਧਾਰਾਈ ਵਰਤਾਰਿਆਂ ਬਾਰੇ ਮੁੱਢਲੀ ਜਾਣਕਾਰੀ ਦੇ ਕੇ ਵਿਦਿਆਰਥੀ ਨੂੰ ਅਪਣੇ-ਆਲੇ ਦੁਆਲੇ ਪ੍ਰਤੀ ਉਸਦੀ ਜਿੰਮੇਵਾਰੀ ਦਾ ਬੋਧ ਕਰਵਾਉਂਦਾ ਹੈ। 3. ਵਿਸ਼ਵੀਕਰਨ ਦੇ ਵੱਧਦੇ ਪਸਾਰ ਨੂੰ ਦੇਖਦਿਆਂ ਇਹ ਪਾਠਕ੍ਰਮ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਵੱਖਰੀਆਂ-ਵੱਖਰੀਆਂ ਭਾਸ਼ਾਵਾਂ ਦੇ ਗਿਆਨ ਅਤੇ ਅਨੁਵਾਦ ਕਰਨ ਦੇ ਸਮਰੱਥ ਬਣਾਉਂਦਾ ਹੈ। 4. ਇਹ ਪਾਠਕ੍ਰਮ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਮਾਤ-ਭਾਸ਼ਾ ਦੇ ਨੇਮਾਂ ਸੰਬੰਧੀ ਜਾਗਰੂਕ ਕਰਦਾ ਹੈ ਅਤੇ ਸੰਚਾਰ ਲਈ ਉਸਦੇ ਵਾਕ ਬੋਧ ਨੂੰ ਨਿਖਾਰਦਾ ਅਤੇ ਉਸ ਅੰਦਰ ਸਲੀਕਾ ਪੈਦਾ ਕਰਦਾ ਹੈ।

ਬੀ. ਏ. ਜੇ. ਐੱਮ. ਸੀ, ਭਾਗ-ਪਹਿਲਾ/

B.A.J.M.C.- I

ਸੈਸ਼ਨ 2018-19

ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੇ ਗਿਆਨ ਵਰਧਕ ਸਿੱਟੇ

ਉਦੇਸ਼ :

ਇਸ ਕੋਰਸ ਵਿੱਚ ਪੰਜਾਬੀ ਲਾਜ਼ਮੀ ਦਾ ਵਿਸ਼ਾ ਪੜ੍ਹਨ ਦੁਆਰਾ ਵਿਦਿਆਰਥੀ ਸਾਹਿਤ ਲਿਖਣ- ਪੜ੍ਹਨ ਦੇ ਨਾਲ-ਨਾਲ ਸਖ਼ਸ਼ੀਅਤ, ਸਮਾਜ ਅਤੇ ਹੋਰ ਬਹੁਪੱਖੀ ਵਿਚਾਰਧਾਰਵਾਂ ਬਾਰੇ ਜਾਣਨ ਦੇ ਯੋਗ ਹੁੰਦੇ ਹਨ।

ਬੀ. ਏ. ਜੇ. ਐੱਮ. ਸੀ. ਪਾਸ ਕਰਨ ਉਪਰੰਤ

1. ਇਹ ਵਿਸ਼ਾ ਵਿਦਿਆਰਥੀਆਂ ਦੀ ਸਰਬਪੱਖੀ ਸਖ਼ਸ਼ੀਅਤ ਉਸਾਰੀ ਲਈ ਸਾਰਥਕ ਹੈ ।
2. ਇਹ ਵਿਸ਼ਾ ਵਿਦਿਆਰਥੀਆਂ ਲਈ ਵੱਖ-ਵੱਖ ਮੁਕਾਬਲੇਦੀਆਂ ਪ੍ਰੀਖਿਆਵਾਂ ਦੇ ਯੋਗ ਬਣਾਉਂਦਾ ਹੈ।
3. ਇਸ ਵਿਸ਼ਾ ਵਿਚ ਪੜ੍ਹਾਏ ਜਾਂਦੇ ਵਿਸ਼ੇ ਉਚੇਰੀ ਸਿੱਖਿਆ ਲਈ ਅਧਾਰ ਬਣਦੇ ਹਨ।
4. ਮਾਤ-ਭਾਸ਼ਾ ਦਾ ਇਹ ਵਿਸ਼ਾ ਵਿਦਿਆਰਥੀ/ਜਗਿਆਸੂ ਨੂੰ ਭਾਸ਼ਾ,ਸਾਹਿਤ,ਕਲਾ ਅਤੇ ਸਭਿਆਚਾਰ ਨਾਲ ਜੋੜ ਕੇ ਉੱਚਤਮ ਜੀਵਨ ਜਾਂਚ ਸਿਖਾਉਂਦਾ ਹੈ ।
5. ਇਹ ਵਿਸ਼ਾ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਚੇਤੰਨ ਅਤੇ ਚਿੰਤਨਸ਼ੀਲ ਬਣਾਉਣ ਦੇ ਨਾਲ-ਨਾਲ ਇਸ ਮਸ਼ੀਨੀ ਯੁੱਗ ਵਾਲੀ ਤਣਾਓ ਪੂਰਨ ਜਿੰਦਗੀ ਨਾਲ ਜੂਝਣ ਦੀ ਸਮਰੱਥਾ ਪੈਦਾ ਕਰਦਾ ਹੈ ।
6. ਇਹ ਵਿਸ਼ਾ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਅਤੇ ਗੁਰਮੁਖੀ ਲਿਪੀ ਵਿਚ ਨਿਪੁੰਨ ਬਣਾਉਦਾ ਹੈ ।
7. ਇਹ ਵਿਸ਼ਾ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਤਕਨਾਲੋਜੀ ਦੇ ਯੁੱਗ ਅੰਦਰ ਵੀ ਵਧੇਰੇ ਸੰਵੇਦਨਸ਼ੀਲ ਬਣਾਉਦਾ ਹੈ।

ਬੀ. ਏ. ਜੇ. ਐੱਮ. ਸੀ, ਭਾਗ–ਪਹਿਲਾ, ਸਮੈਸਟਰ–ਪਹਿਲਾ/ B.A.J.M.C.-I, Sem-I

ਕੋਰਸ ਕੋਡ	ਕੋਰਸਦਾ ਨਾਂ	ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੇ ਗਿਆਨ ਵਰਧਕ ਸਿੱਟੇ
BA(JMC) 101	ਪੰਜਾਬੀ ਲਾਜ਼ਮੀ	1. ਇਸ ਕੋਰਸ ਵਿੱਚ ਲੱਗੀ ਪੁਸਤਕ 'ਚੋਣਵੇਂ ਪੰਜਾਬੀ ਨਿਬੰਧ', ਪੰਜਾਬੀ ਸਾਹਿਤ ਦੇ ਮਹਾਨ ਸਾਹਿਤਕਾਰਾਂ ਦੇ ਵਿਚਾਰਾਂ ਤੋਂ ਜਾਣੂ ਕਰਵਾਉਂਦਾ ਹੈ। 2. 'ਕਾਵਿ-ਕੰਜਕਾਂ' ਪੁਸਤਕ ਰਾਹੀਂ ਸਮਾਜ ਵਿੱਚ ਨਾਰੀ ਦੀ ਵਡਮੁੱਲੀ ਭੂਮਿਕਾ ਪ੍ਰਤੀ ਸੰਵੇਦਨਸ਼ੀਲ ਬਣਾਉਂਦਾ ਹੈ। 3. ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਪੰਜਾਬ ਦੀਆਂ ਉਪਭਾਸ਼ਾਵਾਂ ਅਤੇ ਉਨ੍ਹਾਂ ਦੀਆਂ ਵਿਲੱਖਤਾਵਾਂ ਤੋਂ ਜਾਣੂ ਕਰਵਾਇਆ ਜਾਂਦਾ ਹੈ। 4. ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੀ ਮੁਹਾਰਤ ਹਾਸਿਲ ਕਰਨ ਲਈ ਸ਼ੁਧ ਭਾਸ਼ਾ ਵਰਤੋਂ-ਵਿਹਾਰ ਪ੍ਰਤੀ ਜਾਣੂ ਕਰਵਾਉਂਦਾ ਹੈ। 5. ਵਿਦਿਆਰਥੀ ਨੂੰ ਆਉਂਦੇ ਸਮੇਂ ਦਫ਼ਤਰੀ ਕਾਰਜ ਲਈ ਤਿਆਰ ਕਰਨ ਲਈ ਪੱਤਰ, ਚਿੱਠੀ-ਪੱਤਰ ਲਿਖਣ ਦੇ ਕਾਬਿਲ ਬਣਾਉਂਦਾ ਹੈ। 6. ਇਸ ਕੋਰਸ ਦਾ ਮਨੋਰਥ ਵਿਦਿਆਰਥੀ ਨੂੰ ਆਪਣੀ ਭਾਸ਼ਾ, ਸਮਾਜ, ਭੂਗੋਲਿਕ ਵਿਰਸੇ ਦੀਆਂ ਵਿਭਿੰਨ ਵਿਸ਼ੇਸ਼ਤਾਵਾਂ, ਗੌਰਵਮਈ ਇਤਿਹਾਸ ਆਦਿ ਖੇਤਰਾਂ ਦੀ ਜਾਣਕਾਰੀ ਦਿੰਦਿਆਂ ਇਨ੍ਹਾਂ ਵਿੱਚੋਂ ਸਮਾਜਿਕ ਸਰੋਕਾਰਾਂ ਨੂੰ ਸਹੀ ਪਰਿਪੇਖ ਵਿੱਚ ਸਮਝਣ ਅਤੇ ਚਿੰਤਨ ਕਰਨ ਯੋਗ ਬਣਾਉਂਦਾ ਹੈ। 7. ਇਸ ਦੇ ਨਾਲ ਹੀ ਭਾਸ਼ਾ ਦਾ ਸਹੀ ਉਚਾਰਣ, ਧੁਨੀਆਂ/ਭਾਸ਼ਾ ਦੀ ਕੁਸ਼ਲਤਾਪੂਵਕ ਵਰਤੋਂ ਕਰਨ ਦੇ ਯੋਗ ਬਣਾਉਂਦਾ ਹੈ।

ਬੀ. ਏ. (ਆਨਰਜ਼ ਅੰਗਰੇਜ਼ੀ) ਭਾਗ–ਪਹਿਲਾ

B.A. (Eng Hon's)-I

ਸੈਸ਼ਨ 2018–19

ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੇ ਗਿਆਨ ਵਰਧਕ ਸਿੱਟੇ

ਉਦੇਸ਼ :

ਇਸ ਕੋਰਸ ਵਿੱਚ ਪੰਜਾਬੀ ਲਾਜ਼ਮੀ ਦਾ ਵਿਸ਼ਾ ਪੜ੍ਹਨ ਦੁਆਰਾ ਵਿਦਿਆਰਥੀ ਸਾਹਿਤ ਲਿਖਣ- ਪੜ੍ਹਨ ਦੇ ਨਾਲ-ਨਾਲ ਸਖ਼ਸ਼ੀਅਤ, ਸਮਾਜ ਅਤੇ ਹੋਰ ਬਹੁਪੱਖੀ ਵਿਚਾਰਧਾਰਵਾਂ ਬਾਰੇ ਜਾਣਨ ਦੇ ਯੋਗ ਹੁੰਦੇ ਹਨ ।

ਬੀ. ਏ. (ਆਨਰਜ਼ ਅੰਗਰੇਜ਼ੀ) ਪਾਸ ਕਰਨ ਉਪਰੰਤ

1. ਇਹ ਵਿਸ਼ਾ ਵਿਦਿਆਰਥੀਆਂ ਦੀ ਸਰਬਪੱਖੀ ਸਖ਼ਸ਼ੀਅਤ ਉਸਾਰੀ ਲਈ ਸਾਰਥਕ ਹੈ ।
2. ਇਹ ਵਿਸ਼ਾ ਵਿਦਿਆਰਥੀਆਂ ਲਈ ਵੱਖ-ਵੱਖ ਮੁਕਾਬਲੇਦੀਆਂ ਪ੍ਰੀਖਿਆਵਾਂ ਦੇ ਯੋਗ ਬਣਾਉਂਦਾ ਹੈ।
3. ਇਸ ਵਿਸ਼ਾ ਵਿਚ ਪੜ੍ਹਾਏ ਜਾਂਦੇ ਵਿਸ਼ੇ ਉਚੇਰੀ ਸਿੱਖਿਆ ਲਈ ਅਧਾਰ ਬਣਦੇ ਹਨ।
4. ਮਾਤ-ਭਾਸ਼ਾ ਦਾ ਇਹ ਵਿਸ਼ਾ ਵਿਦਿਆਰਥੀ/ਜਗਿਆਸੂ ਨੂੰ ਭਾਸ਼ਾ,ਸਾਹਿਤ,ਕਲਾ ਅਤੇ ਸਭਿਆਚਾਰ ਨਾਲ ਜੋੜ ਕੇ ਉੱਚਤਮ ਜੀਵਨ ਜਾਂਚ ਸਿਖਾਉਂਦਾ ਹੈ ।
5. ਇਹ ਵਿਸ਼ਾ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਚੇਤੰਨ ਅਤੇ ਚਿੰਤਨਸ਼ੀਲ ਬਣਾਉਣ ਦੇ ਨਾਲ-ਨਾਲ ਇਸ ਮਸ਼ੀਨੀ ਯੁੱਗ ਵਾਲੀ ਤਣਾਓ ਪੂਰਨ ਜਿੰਦਗੀ ਨਾਲ ਜੂਝਣ ਦੀ ਸਮਰੱਥਾ ਪੈਦਾ ਕਰਦਾ ਹੈ ।
6. ਇਹ ਵਿਸ਼ਾ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਅਤੇ ਗੁਰਮੁਖੀ ਲਿਪੀ ਵਿਚ ਨਿਪੁੰਨ ਬਣਾਉਦਾ ਹੈ ।
7. ਇਹ ਵਿਸ਼ਾ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਤਕਨਾਲੋਜੀ ਦੇ ਯੁੱਗ ਅੰਦਰ ਵੀ ਵਧੇਰੇ ਸੰਵੇਦਨਸ਼ੀਲ ਬਣਾਉਦਾ ਹੈ।

ਬੀ. ਏ. (ਆਨਰਜ਼ ਅੰਗਰੇਜ਼ੀ) ਭਾਗ-ਪਹਿਲਾ, ਸਮੈਸਟਰ-ਪਹਿਲਾ/B.A. (Eng Hon's)-I, Sem-I

ਕੋਰਸ ਕੋਡ	ਕੋਰਸ ਦਾ ਨਾਂ	ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੇ ਗਿਆਨ ਵਰਧਕ ਸਿੱਟੇ
BHE 203	ਪੰਜਾਬੀ ਲਾਜ਼ਮੀ	1. ਇਸ ਪਾਠਕ੍ਰਮ ਦਾ ਮਨੋਰਥ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਪੰਜਾਬੀ ਸਾਹਿਤ ਪੜ੍ਹਨ ਦੀ ਜਾਗ ਲਾਉਣਾ, ਉਨ੍ਹਾਂ ਅੰਦਰ ਰਚਨਾਤਮਕ ਰੁਚੀਆਂ ਪੈਦਾ ਕਰਨਾ ਅਤੇ ਆਧੁਨਿਕ ਸਮਾਜ ਵਿਚ ਫੈਲੇ ਵਿਰੋਧਾਂ, ਵਿਸੰਗਤੀਆਂ ਤੇ ਤਣਾਵਾਂ ਨੂੰ ਘਟਾਉਣਾ ਹੈ । 2. ਮਾਤ ਭਾਸ਼ਾ ਦੇ ਵਿਭਿੰਨ ਪੱਖਾਂ ਦਾ ਅਧਿਐਨ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਉਚੇਰੀ ਸਿੱਖਿਆ ਗ੍ਰਹਿਣ ਕਰਨ ਲਈ ਪ੍ਰੇਰਿਤ ਕਰਦਾ ਅਤੇ ਮਾਤ ਭਾਸ਼ਾ ਦੀ ਅਮੀਰੀ ਅਤੇ ਮਹੱਤਤਾ ਦਾ ਗਿਆਨ ਦਿੰਦਾ ਹੈ। 3. ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਅਤੇ ਧੁਨੀਆਂ ਦਾ ਅਧਿਐਨ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਪੰਜਾਬੀ ਉਪ-ਭਾਸ਼ਾਵਾਂ ਦੀ ਵੱਖਰਤਾ ਅਤੇ ਸਾਂਝ ਬਾਰੇ ਰੌਚਕ ਜਾਣਕਾਰੀ ਦਿੰਦੇ ਹੋਏ ਟਕਸਾਲੀ ਭਾਸ਼ਾ ਬਾਰੇ ਗਿਆਨ ਪ੍ਰਦਾਨ ਕਰਦਾ ਹੈ। 4. ਮਨੁੱਖ ਦੀਆਂ ਵਿਵਹਾਰਕ ਲੋੜਾਂ ਨੂੰ ਮੁੱਖ ਰੱਖਦੇ ਹੋਏ ਚਿੱਠੀ-ਪੱਤਰ ਨੂੰ ਇਸ ਪਾਠਕ੍ਰਮ ਵਿਚ ਰੱਖਿਆ ਗਿਆ ਹੈ। 5. ਇਸ ਪਾਠਕ੍ਰਮ ਦਾ ਮਨੋਰਥ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਚਲੰਤ ਮਾਮਲਿਆ ਬਾਰੇ

		ਸੁਚੇਤ ਕਰਨਾ ਅਤੇ ਸਮਕਾਲ ਦੇ ਪ੍ਰਮੁੱਖ ਸਰੋਕਾਰਾਂ ਬਾਰੇ ਚੇਤੰਨ ਅਤੇ ਚਿੰਤਨਸ਼ੀਲ ਬਣਾਉਦਾ ਹੈ, ਤਾਂ ਜੋ ਵਿਦਿਆਰਥੀ ਚੰਗੇਰਾ ਸਮਾਜ ਸਿਰਜਣ ਵਿਚ ਸਹਾਇਕ ਹੋ ਸਕਣ।

ਬੀ. ਏ. (ਆਨਰਜ਼ ਇਕਨਾਮਿਕਸ) ਭਾਗ–ਪਹਿਲਾ/

B.A. (Eco. Hon's)-I

ਸੈਸ਼ਨ 2018–19

ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੇ ਗਿਆਨ ਵਰਧਕ ਸਿੱਟੇ

ਉਦੇਸ਼ :

ਇਸ ਕੋਰਸ ਵਿੱਚ ਪੰਜਾਬੀ ਲਾਜ਼ਮੀ ਦਾ ਵਿਸ਼ਾ ਪੜ੍ਹਨ ਦੁਆਰਾ ਵਿਦਿਆਰਥੀ ਸਾਹਿਤ ਲਿਖਣ- ਪੜ੍ਹਨ ਦੇ ਨਾਲ-ਨਾਲ ਸਖ਼ਸ਼ੀਅਤ, ਸਮਾਜ ਅਤੇ ਹੋਰ ਬਹੁਪੱਖੀ ਵਿਚਾਰਧਾਰਵਾਂ ਬਾਰੇ ਜਾਣਨ ਦੇ ਯੋਗ ਹੁੰਦੇ ਹਨ।

ਬੀ. ਏ. (ਆਨਰਜ਼ ਇਕਨਾਮਿਕਸ) ਪਾਸ ਕਰਨ ਉਪਰੰਤ

1. ਇਹ ਵਿਸ਼ਾ ਵਿਦਿਆਰਥੀਆਂ ਦੀ ਸਰਬਪੱਖੀ ਸਖ਼ਸ਼ੀਅਤ ਉਸਾਰੀ ਲਈ ਸਾਰਥਕ ਹੈ ।
2. ਇਹ ਵਿਸ਼ਾ ਵਿਦਿਆਰਥੀਆਂ ਲਈ ਵੱਖ-ਵੱਖ ਮੁਕਾਬਲੇਦੀਆਂ ਪ੍ਰੀਖਿਆਵਾਂ ਦੇ ਯੋਗ ਬਣਾਉਂਦਾ ਹੈ।
3. ਇਸ ਵਿਸ਼ਾ ਵਿਚ ਪੜ੍ਹਾਏ ਜਾਂਦੇ ਵਿਸ਼ੇ ਉਚੇਰੀ ਸਿੱਖਿਆ ਲਈ ਅਧਾਰ ਬਣਦੇ ਹਨ।
4. ਮਾਤ-ਭਾਸ਼ਾ ਦਾ ਇਹ ਵਿਸ਼ਾ ਵਿਦਿਆਰਥੀ/ਜਗਿਆਸੂ ਨੂੰ ਭਾਸ਼ਾ,ਸਾਹਿਤ,ਕਲਾ ਅਤੇ ਸਭਿਆਚਾਰ ਨਾਲ ਜੋੜ ਕੇ ਉੱਚਤਮ ਜੀਵਨ ਜਾਂਚ ਸਿਖਾਉਂਦਾ ਹੈ ।
5. ਇਹ ਵਿਸ਼ਾ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਚੇਤੰਨ ਅਤੇ ਚਿੰਤਨਸ਼ੀਲ ਬਣਾਉਣ ਦੇ ਨਾਲ-ਨਾਲ ਇਸ ਮਸ਼ੀਨੀ ਯੁੱਗ ਵਾਲੀ ਤਣਾਓ ਪੂਰਨ ਜਿੰਦਗੀ ਨਾਲ ਜੂਝਣ ਦੀ ਸਮਰੱਥਾ ਪੈਦਾ ਕਰਦਾ ਹੈ ।
6. ਇਹ ਵਿਸ਼ਾ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਅਤੇ ਗੁਰਮੁਖੀ ਲਿਪੀ ਵਿਚ ਨਿਪੁੰਨ ਬਣਾਉਦਾ ਹੈ ।
7. ਇਹ ਵਿਸ਼ਾ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਤਕਨਾਲੋਜੀ ਦੇ ਯੁੱਗ ਅੰਦਰ ਵੀ ਵਧੇਰੇ ਸੰਵੇਦਨਸ਼ੀਲ ਬਣਾਉਦਾ ਹੈ।

ਬੀ. ਏ. (ਆਨਰਜ਼ ਇਕਨਾਮਿਕਸ) ਭਾਗ–ਪਹਿਲਾ, ਸਮੈਸਟਰ–ਪਹਿਲਾ/ B.A. (Eco Hon's)-I,Sem-I

ਕੋਰਸ ਕੋਡ	ਕੋਰਸ ਦਾ ਨਾਂ	ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੇ ਗਿਆਨ ਵਰਧਕ ਸਿੱਟੇ
C 103	ਪੰਜਾਬੀ ਲਾਜ਼ਮੀ	1. ਇਸ ਪਾਠਕ੍ਰਮ ਦਾ ਮਨੋਰਥ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਪੰਜਾਬੀ ਸਾਹਿਤ ਪੜ੍ਹਨ ਦੀ ਜਾਗ ਲਾਉਣਾ, ਉਨ੍ਹਾਂ ਅੰਦਰ ਰਚਨਾਤਮਕ ਰੁਚੀਆਂ ਪੈਦਾ ਕਰਨਾ ਅਤੇ ਆਧੁਨਿਕ ਸਮਾਜ ਵਿਚ ਫੈਲੇ ਵਿਰੋਧਾਂ, ਵਿਸੰਗਤੀਆਂ ਤੇ ਤਣਾਵਾਂ ਨੂੰ ਘਟਾਉਣਾ ਹੈ । 2. ਮਾਤ ਭਾਸ਼ਾ ਦੇ ਵਿਭਿੰਨ ਪੱਖਾਂ ਦਾ ਅਧਿਐਨ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਉਚੇਰੀ ਸਿੱਖਿਆ ਗ੍ਰਹਿਣ ਕਰਨ ਲਈ ਪ੍ਰੇਰਿਤ ਕਰਦਾ ਅਤੇ ਮਾਤ ਭਾਸ਼ਾ ਦੀ ਅਮੀਰੀ ਅਤੇ ਮਹੱਤਤਾ ਦਾ ਗਿਆਨ ਦਿੰਦਾ ਹੈ। 3. ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਅਤੇ ਧੁਨੀਆਂ ਦਾ ਅਧਿਐਨ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਪੰਜਾਬੀ ਉਪ–ਭਾਸ਼ਾਵਾਂ ਦੀ ਵੱਖਰਤਾ ਅਤੇ ਸਾਂਝ ਬਾਰੇ ਰੌਚਕ ਜਾਣਕਾਰੀ ਦਿੰਦੇ ਹੋਏ ਟਕਸਾਲੀ ਭਾਸ਼ਾ ਬਾਰੇ ਗਿਆਨ ਪ੍ਰਦਾਨ ਕਰਦਾ ਹੈ। 4. ਮਨੁੱਖ ਦੀਆਂ ਵਿਵਹਾਰਕ ਲੋੜਾਂ ਨੂੰ ਮੁੱਖ ਰੱਖਦੇ ਹੋਏ ਚਿੱਠੀ–ਪੱਤਰ ਨੂੰ ਇਸ ਪਾਠਕ੍ਰਮ ਵਿਚ ਰੱਖਿਆ ਗਿਆ ਹੈ। 5. ਇਸ ਪਾਠਕ੍ਰਮ ਦਾ ਮਨੋਰਥ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਚਲੰਤ ਮਾਮਲਿਆ ਬਾਰੇ ਸੁਚੇਤ ਕਰਨਾ ਅਤੇ ਸਮਕਾਲ ਦੇ ਪ੍ਰਮੁੱਖ ਸਰੋਕਾਰਾਂ ਬਾਰੇ ਚੇਤੰਨ ਅਤੇ ਚਿੰਤਨਸ਼ੀਲ ਬਣਾਉਦਾ ਹੈ, ਤਾਂ ਜੋ ਵਿਦਿਆਰਥੀ ਚੰਗੇਰਾ ਸਮਾਜ ਸਿਰਜਣ ਵਿਚ ਸਹਾਇਕ ਹੋ ਸਕਣ।

ਬੀ ਐਸ ਸੀ ਐਗਰੀਕਲਚਰ ਭਾਗ ਪਹਿਲਾ/

B.Sc. Agriculture- I

ਸੈਸ਼ਨ 2018-19

ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੇ ਗਿਆਨ ਵਰਧਕ ਸਿੱਟੇ

ਉਦੇਸ਼ :

ਇਸ ਕੋਰਸ ਵਿੱਚ ਪੰਜਾਬੀ ਲਾਜ਼ਮੀ ਦਾ ਵਿਸ਼ਾ ਪੜ੍ਹਨ ਦੁਆਰਾ ਵਿਦਿਆਰਥੀ ਸਾਹਿਤ ਲਿਖਣ- ਪੜ੍ਹਨ ਦੇ ਨਾਲ-ਨਾਲ ਸਖ਼ਸ਼ੀਅਤ, ਸਮਾਜ ਅਤੇ ਹੋਰ ਬਹੁਪੱਖੀ ਵਿਚਾਰਧਾਰਵਾਂ ਬਾਰੇ ਜਾਣਨ ਦੇ ਯੋਗ ਹੁੰਦੇ ਹਨ।

ਬੀ.ਐਸ. ਸੀ. ਐਗਰੀਕਲਚਰ ਪਾਸ ਕਰਨ ਉਪਰੰਤ :

1. ਇਹ ਵਿਸ਼ਾ ਵਿਦਿਆਰਥੀਆਂ ਦੀ ਸਰਬਪੱਖੀ ਸਖ਼ਸ਼ੀਅਤ ਉਸਾਰੀ ਲਈ ਸਾਰਥਕ ਹੈ ।
2. ਇਹ ਵਿਸ਼ਾ ਵਿਦਿਆਰਥੀਆਂ ਲਈ ਵੱਖ-ਵੱਖ ਮੁਕਾਬਲੇਦੀਆਂ ਪ੍ਰੀਖਿਆਵਾਂ ਦੇ ਯੋਗ ਬਣਾਉਂਦਾ ਹੈ।
3. ਇਸ ਵਿਸ਼ਾ ਵਿਚ ਪੜ੍ਹਾਏ ਜਾਂਦੇ ਵਿਸ਼ੇ ਉਚੇਰੀ ਸਿੱਖਿਆ ਲਈ ਅਧਾਰ ਬਣਦੇ ਹਨ।
4. ਮਾਤ-ਭਾਸ਼ਾ ਦਾ ਇਹ ਵਿਸ਼ਾ ਵਿਦਿਆਰਥੀ/ਜਗਿਆਸੂ ਨੂੰ ਭਾਸ਼ਾ,ਸਾਹਿਤ,ਕਲਾ ਅਤੇ ਸਭਿਆਚਾਰ ਨਾਲ ਜੋੜ ਕੇ ਉੱਚਤਮ ਜੀਵਨ ਜਾਂਚ ਸਿਖਾਉਂਦਾ ਹੈ ।
5. ਇਹ ਵਿਸ਼ਾ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਚੇਤੰਨ ਅਤੇ ਚਿੰਤਨਸ਼ੀਲ ਬਣਾਉਣ ਦੇ ਨਾਲ-ਨਾਲ ਇਸ ਮਸ਼ੀਨੀ ਯੁੱਗ ਵਾਲੀ ਤਣਾਓ ਪੂਰਨ ਜਿੰਦਗੀ ਨਾਲ ਜੂਝਣ ਦੀ ਸਮਰੱਥਾ ਪੈਦਾ ਕਰਦਾ ਹੈ ।
6. ਇਹ ਵਿਸ਼ਾ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਅਤੇ ਗੁਰਮੁਖੀ ਲਿਪੀ ਵਿਚ ਨਿਪੁੰਨ ਬਣਾਉਦਾ ਹੈ ।
7. ਇਹ ਵਿਸ਼ਾ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਤਕਨਾਲੋਜੀ ਦੇ ਯੁੱਗ ਅੰਦਰ ਵੀ ਵਧੇਰੇ ਸੰਵੇਦਨਸ਼ੀਲ ਬਣਾਉਦਾ ਹੈ।

ਬੀ. ਐਸ. ਸੀ. ਐਗਰੀਕਲਚਰ ਭਾਗ ਪਹਿਲਾ, ਸਮੈਸਟਰ–ਪਹਿਲਾ/B.Sc. Agriculture- I, Sem-I

ਕੋਰਸ ਕੋਡ	ਕੋਰਸ ਦਾ ਨਾਂ	ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੇ ਗਿਆਨ ਵਰਧਕ ਸਿੱਟੇ
BSHAG	ਪੰਜਾਬੀ ਲਾਜ਼ਮੀ	1. ਇਸ ਪਾਠਕ੍ਰਮ ਦਾ ਮਨੋਰਥ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਪੰਜਾਬੀ ਸਾਹਿਤ ਪੜ੍ਹਨ ਦੀ ਜਾਗ ਲਾਉਣਾ, ਉਨ੍ਹਾਂ ਅੰਦਰ ਰਚਨਾਤਮਕ ਰੁਚੀਆਂ ਪੈਦਾ ਕਰਨਾ ਅਤੇ ਆਧੁਨਿਕ ਸਮਾਜ ਵਿਚ ਫੈਲੇ ਵਿਰੋਧਾਂ, ਵਿਸੰਗਤੀਆਂ ਤੇ ਤਣਾਵਾਂ ਨੂੰ ਘਟਾਉਣਾ ਹੈ । 2. ਮਾਤ ਭਾਸ਼ਾ ਦੇ ਵਿਭਿੰਨ ਪੱਖਾਂ ਦਾ ਅਧਿਐਨ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਉਚੇਰੀ ਸਿੱਖਿਆ ਗ੍ਰਹਿਣ ਕਰਨ ਲਈ ਪ੍ਰੇਰਿਤ ਕਰਦਾ ਅਤੇ ਮਾਤ ਭਾਸ਼ਾ ਦੀ ਅਮੀਰੀ ਅਤੇ ਮਹੱਤਤਾ ਦਾ ਗਿਆਨ ਦਿੰਦਾ ਹੈ। 3. ਭਾਸ਼ਾ ਦੀਆਂ ਸ਼ਬਦ ਸ਼੍ਰੇਣੀਆਂ ਦਾ ਅਧਿਐਨ ਵਿਦਿਆਰਥੀਆਂ ਦੀ ਸਧਾਰਨ ਬੋਲਚਾਲ ਨੂੰ ਸ਼ੁੱਧ ਅਤੇ ਪ੍ਰਭਾਵਸ਼ਾਲੀ ਬਣਾਉਂਦਾ ਹੈ। 4. ਇਸ ਪਾਠਕ੍ਰਮ ਦਾ ਮੰਤਵ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਸਾਹਿਤ ਨਾਲ ਜੋੜਨ ਤੋਂ ਇਲਾਵਾ ਉਹਨਾਂ ਨੂੰ ਭਾਸ਼ਾਈ ਪੱਧਰ 'ਤੇ ਨਿਪੁੰਨ ਬਣਾਉਣਾ ਵੀ ਹੈ। 5. ਇਸ ਪਾਠਕ੍ਰਮ ਦਾ ਮਨੋਰਥ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਚਲੰਤ ਮਾਮਲਿਆ ਬਾਰੇ ਸੁਚੇਤ ਕਰਨਾ ਅਤੇ ਸਮਕਾਲ ਦੇ ਪ੍ਰਮੁੱਖ ਸਰੋਕਾਰਾਂ ਬਾਰੇ ਚੇਤੰਨ ਅਤੇ ਚਿੰਤਨਸ਼ੀਲ ਬਣਾਉਦਾ ਹੈ, ਤਾਂ ਜੋ ਵਿਦਿਆਰਥੀ ਚੰਗੇਰਾ ਸਮਾਜ ਸਿਰਜਣ ਵਿਚ ਸਹਾਇਕ ਹੋ ਸਕਣ।

ਬੀ. ਐਸ. ਸੀ. ਐਗਰੀਕਲਚਰ ਭਾਗ– ਪਹਿਲਾ ਸਮੈਸਟਰ–ਦੂਜਾ/ B.Sc. Agriculture- I, Sem-II

ਕੋਰਸ ਕੋਡ	ਕੋਰਸ ਦਾ ਨਾਂ	ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੇ ਗਿਆਨ ਵਰਧਕ ਸਿੱਟੇ
BSHAG	ਪੰਜਾਬੀ ਲਾਜ਼ਮੀ	1. ਇਕਾਂਗੀ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਮਨੋਰੰਜਕ ਢੰਗ ਨਾਲ ਜਿੰਦਗੀ ਦੇ ਵੱਖ–ਵੱਖ ਪਹਿਲੂਆਂ ਦੀ ਸੋਝੀ ਪ੍ਰਦਾਨ ਕਰਦਾ ਹੈ। 2. ਇਕਾਂਗੀ ਇਕ ਸਾਰਥਕ ਬਿੰਬ ਸਿਰਜ ਕੇ ਵਿਦਿਆਰਥੀ ਮਨ ਦੀ ਰਚਨਾਤਮਿਕਤਾ ਨੂੰ ਪ੍ਰਫੁੱਲਤ ਕਰਦਾ ਹੈ। 3. ਮੁਹਾਵਰਿਆਂ ਦੀ ਵਰਤੋਂ ਬੋਲੀ ਨੂੰ ਸ਼ਿੰਗਾਰਦੀ, ਸੰਵਾਰਦੀ ਤੇ ਪ੍ਰਭਾਵਸ਼ਾਲੀ ਬਣਾਉਂਦੀ ਹੈ। ਇਹਨਾਂ ਦੀ ਵਰਤੋਂ ਨਾਲ ਵਿਦਿਆਰਥੀ ਥੋੜ੍ਹੇ ਸ਼ਬਦਾਂ ਵਿਚ

		ਬਹੁਤਾ ਕੁਝ ਕਹਿਣ ਦੀ ਜਾਂਚ ਸਿੱਖਦੇ ਹਨ। 4. ਇਸ ਪਾਠਕ੍ਰਮ ਦਾ ਮੰਤਵ ਆਧੁਨਿਕ ਯੁੱਗ ਦੇ ਮਨੁੱਖ ਦੇ ਅੰਦਰ-ਬਾਹਰ ਫੈਲੇ-ਵਿਰੋਧਾਂ, ਵਿਸੰਗਤੀਆਂ ਤੇ ਘਟਨਾਵਾਂ ਨੂੰ ਨਾਟਕ ਵਿਧਾ ਰਾਹੀ ਸਿਖਿਅਤ ਕਰਨਾ ਹੈ। ਕਿਉਕਿ ਸਾਹਿਤ ਦੀ ਨਾਟਕ ਵਿਧਾ ਦਾ ਮਨੁੱਖ ਦੀ ਸਮਾਜਿਕ ਵਿਧਾ ਨਾਲ ਅਤਿ ਨੇੜਲਾ ਸੰਬੰਧ ਹੈ । 5. ਅੰਗਰੇਜ਼ੀ ਤੋਂ ਪੰਜਾਬੀ ਅਨੁਵਾਦ ਨੂੰ ਪਾਠਕ੍ਰਮ ਵਿੱਚ ਸ਼ਾਮਲ ਕਰਨ ਨਾਲ ਵਿਦਿਆਰਥੀਆਂ ਲਈ ਅੰਗ੍ਰੇਜ਼ੀ ਭਾਸ਼ਾ ਸੰਬੰਧੀ ਬਹੁਤ ਸਾਰੇ ਕਠਿਨ ਸ਼ਬਦ ਬੜੇ ਸੁਖਾਲੇ ਬਣ ਜਾਂਦੇ ਹਨ ਤੇ ਵਿਹਾਰਕ ਪੱਧਰ 'ਤੇ ਉਹਨਾਂ ਦੇ ਕੰਮ ਆਉਂਦੇ ਹਨ।

ਬੀ.ਵੋਕੇਸ਼ਨਲ ਨਰਸਰੀ ਮੈਨੇਜਮੈਂਟ ਭਾਗ-ਪਹਿਲਾ/

B. Voc. Nursery management- I

ਸੈਸ਼ਨ 2018-19

ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੇ ਗਿਆਨ ਵਰਧਕ ਸਿੱਟੇ

ਉਦੇਸ਼ :

ਇਸ ਕੋਰਸ ਵਿੱਚ ਪੰਜਾਬੀ ਲਾਜ਼ਮੀ ਦਾ ਵਿਸ਼ਾ ਪੜ੍ਹਨ ਦੁਆਰਾ ਵਿਦਿਆਰਥੀ ਸਾਹਿਤ ਲਿਖਣ- ਪੜ੍ਹਨ ਦੇ ਨਾਲ-ਨਾਲ ਸਖ਼ਸ਼ੀਅਤ, ਸਮਾਜ ਅਤੇ ਹੋਰ ਬਹੁਪੱਖੀ ਵਿਚਾਰਧਾਰਵਾਂ ਬਾਰੇ ਜਾਣਨ ਦੇ ਯੋਗ ਹੁੰਦੇ ਹਨ।

ਬੀ.ਵੋਕੇਸ਼ਨਲ ਨਰਸਰੀ ਮੈਨੇਜਮੈਂਟ /ਬੀ.ਵੋਕ ਫੂਡ. ਪ੍ਰੋਸੈਸਿੰਗ ਪਾਸ ਕਰਨ ਉਪਰੰਤ

1. ਇਹ ਵਿਸ਼ਾ ਵਿਦਿਆਰਥੀਆਂ ਦੀ ਸਰਬਪੱਖੀ ਸਖ਼ਸ਼ੀਅਤ ਉਸਾਰੀ ਲਈ ਸਾਰਥਕ ਹੈ ।
2. ਇਹ ਵਿਸ਼ਾ ਵਿਦਿਆਰਥੀਆਂ ਲਈ ਵੱਖ-ਵੱਖ ਮੁਕਾਬਲੇਦੀਆਂ ਪ੍ਰੀਖਿਆਵਾਂ ਦੇ ਯੋਗ ਬਣਾਉਂਦਾ ਹੈ।
3. ਇਸ ਵਿਸ਼ਾ ਵਿਚ ਪੜ੍ਹਾਏ ਜਾਂਦੇ ਵਿਸ਼ੇ ਉਚੇਰੀ ਸਿੱਖਿਆ ਲਈ ਅਧਾਰ ਬਣਦੇ ਹਨ।
4. ਮਾਤ-ਭਾਸ਼ਾ ਦਾ ਇਹ ਵਿਸ਼ਾ ਵਿਦਿਆਰਥੀ/ਜਗਿਆਸੂ ਨੂੰ ਭਾਸ਼ਾ,ਸਾਹਿਤ,ਕਲਾ ਅਤੇ ਸਭਿਆਚਾਰ ਨਾਲ ਜੋੜ ਕੇ ਉੱਚਤਮ ਜੀਵਨ ਜਾਂਚ ਸਿਖਾਉਂਦਾ ਹੈ ।

5. ਇਹ ਵਿਸ਼ਾ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਚੇਤੰਨ ਅਤੇ ਚਿੰਤਨਸ਼ੀਲ ਬਣਾਉਣ ਦੇ ਨਾਲ-ਨਾਲ ਇਸ ਮਸ਼ੀਨੀ ਯੁੱਗ ਵਾਲੀ ਤਣਾਓ ਪੂਰਨ ਜਿੰਦਗੀ ਨਾਲ ਜੂਝਣ ਦੀ ਸਮਰੱਥਾ ਪੈਦਾ ਕਰਦਾ ਹੈ ।

6. ਇਹ ਵਿਸ਼ਾ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਅਤੇ ਗੁਰਮੁਖੀ ਲਿਪੀ ਵਿਚ ਨਿਪੁੰਨ ਬਣਾਉਦਾ ਹੈ ।

7. ਇਹ ਵਿਸ਼ਾ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਤਕਨਾਲੋਜੀ ਦੇ ਯੁੱਗ ਅੰਦਰ ਵੀ ਵਧੇਰੇ ਸੰਵੇਦਨਸ਼ੀਲ ਬਣਾਉਦਾ ਹੈ।

ਬੀ.ਵੋਕੇਸ਼ਨਲ ਨਰਸਰੀ ਮੈਨੇਜਮੈਂਟ ਭਾਗ-ਪਹਿਲਾ, ਸਮੈਸਟਰ ਪਹਿਲਾ/

B. Voc. Nursery management- I, Sem- I

ਕੋਰਸ ਕੋਡ	**ਕੋਰਸ ਦਾ ਨਾਂ**	**ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੇ ਗਿਆਨ ਵਰਧਕ ਸਿੱਟੇ**
B.VNM 106	ਪੰਜਾਬੀ ਲਾਜ਼ਮੀ	1. ਇਸ ਪਾਠਕ੍ਰਮ ਦਾ ਮਨੋਰਥ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਪੰਜਾਬੀ ਸਾਹਿਤ ਪੜ੍ਹਨ ਦੀ ਜਾਗ ਲਾਉਣਾ, ਉਨ੍ਹਾਂ ਅੰਦਰ ਰਚਨਾਤਮਕ ਰੁਚੀਆਂ ਪੈਦਾ ਕਰਨਾ ਅਤੇ ਆਧੁਨਿਕ ਸਮਾਜ ਵਿਚ ਫੈਲੇ ਵਿਰੋਧਾਂ, ਵਿਸੰਗਤੀਆਂ ਤੇ ਤਣਾਵਾਂ ਨੂੰ ਘਟਾਉਣਾ ਹੈ । 2. ਵਿਆਕਰਨ ਦੇ ਵਿਭਿੰਨ- ਵਿਭਿੰਨ ਪੱਖਾਂ ਦਾ ਅਧਿਐਨ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਭਾਸ਼ਾ ਵਿਚ ਮੁਹਾਰਤ ਹਾਸਿਲ ਕਰਨ ਅਤੇ ਉਚੇਰੀ ਸਿੱਖਿਆ ਗ੍ਰਹਿਣ ਕਰਨ ਲਈ ਪ੍ਰੇਰਿਤ ਕਰਦਾ ਹੈ। 3. ਮਾਤ-ਭਾਸ਼ਾ ਦਾ ਗਿਆਨ ਭਾਸ਼ਾ ਦੀ ਅਮੀਰੀ ਅਤੇ ਮਹੱਤਤਾ ਨੂੰ ਉਜਾਗਰ ਕਰਦਾ ਹੈ। 4. ਸਿਲੇਬਸ ਵਿਚ ਦਰਜ਼ ਪੁਸਤਕ 'ਕਥਾ-ਰੰਗ' ਦੇ ਮਾਧਿਅਮ ਰਾਹੀਂ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਸਮਾਜ ਵਿਚ ਫ਼ੈਲ ਰਹੇ ਦੁਰਾਚਾਰ ਅਤੇ ਸਮਾਜ ਨੂੰ ਦਰਪੇਸ਼ ਸਮੱਸਿਅਵਾਂ ਨਾਲ ਸੰਬੰਧਿਤ ਵਿਸ਼ਿਆ ਬਾਰੇ ਸੁਚੇਤ ਕਰਨਾ ਅਤੇ ਚਿੰਤਨਸ਼ੀਲ ਬਣਾਉਣਾ ਹੈ। 5. ਵਿਸ਼ੇ ਨਾਲ ਸੰਬੰਧਿਤ ਤਕਨੀਕੀ ਸ਼ਬਦਾਵਲੀ ਵਿਦਿਆਰਥੀ ਨੂੰ ਆਉਂਦੇ ਜੀਵਨ ਵਿੱਚ ਸਾਧਾਰਣ ਜਨ-ਜੀਵਨ ਨਾਲ ਵਰਤੋਂ-ਵਿਹਾਰ ਕਰਨ ਦੇ ਕਾਬਿਲ ਬਣਾਉਣਾ ਹੈ। 6. ਸਾਡੇ ਸਮਾਜ ਵਿਚਲੀਆਂ ਘਟਨਾਵਾਂ, ਚਲੰਤ ਮਾਮਲਿਆਂ ਤੋਂ ਜਾਣੂ ਕਰਵਾਉਂਣ ਲਈ ਨਿਬੰਧ ਰਚਨਾ ਵਿਦਿਆਰਥੀ ਲਈ ਲਾਹੇਵੰਦ ਸਾਬਿਤ ਹੁੰਦੀ ਹੈ।

ਬੀ.ਵੋਕ ਫੂਡ. ਪ੍ਰੋਸੈਸਿੰਗ ਭਾਗ–ਪਹਿਲਾ/

B. Voc. Food Processing- I

ਸੈਸ਼ਨ 2018–19

ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੇ ਗਿਆਨ ਵਰਧਕ ਸਿੱਟੇ

ਉਦੇਸ਼ :

ਇਸ ਕੋਰਸ ਵਿੱਚ ਪੰਜਾਬੀ ਲਾਜ਼ਮੀ ਦਾ ਵਿਸ਼ਾ ਪੜ੍ਹਨ ਦੁਆਰਾ ਵਿਦਿਆਰਥੀ ਸਾਹਿਤ ਲਿਖਣ- ਪੜ੍ਹਨ ਦੇ ਨਾਲ-ਨਾਲ ਸਖ਼ਸ਼ੀਅਤ, ਸਮਾਜ ਅਤੇ ਹੋਰ ਬਹੁਪੱਖੀ ਵਿਚਾਰਧਾਰਵਾਂ ਬਾਰੇ ਜਾਣਨ ਦੇ ਯੋਗ ਹੁੰਦੇ ਹਨ।

ਬੀ.ਵੋਕ ਫੂਡ. ਪ੍ਰੋਸੈਸਿੰਗ ਪਾਸ ਕਰਨ ਉਪਰੰਤ

1. ਇਹ ਵਿਸ਼ਾ ਵਿਦਿਆਰਥੀਆਂ ਦੀ ਸਰਬਪੱਖੀ ਸਖ਼ਸ਼ੀਅਤ ਉਸਾਰੀ ਲਈ ਸਾਰਥਕ ਹੈ ।
2. ਇਹ ਵਿਸ਼ਾ ਵਿਦਿਆਰਥੀਆਂ ਲਈ ਵੱਖ-ਵੱਖ ਮੁਕਾਬਲੇਦੀਆਂ ਪ੍ਰੀਖਿਆਵਾਂ ਦੇ ਯੋਗ ਬਣਾਉਂਦਾ ਹੈ।
3. ਇਸ ਵਿਸ਼ਾ ਵਿਚ ਪੜ੍ਹਾਏ ਜਾਂਦੇ ਵਿਸ਼ੇ ਉਚੇਰੀ ਸਿੱਖਿਆ ਲਈ ਅਧਾਰ ਬਣਦੇ ਹਨ।
4. ਮਾਤ-ਭਾਸ਼ਾ ਦਾ ਇਹ ਵਿਸ਼ਾ ਵਿਦਿਆਰਥੀ/ਜਗਿਆਸੂ ਨੂੰ ਭਾਸ਼ਾ,ਸਾਹਿਤ,ਕਲਾ ਅਤੇ ਸਭਿਆਚਾਰ ਨਾਲ ਜੋੜ ਕੇ ਉੱਚਤਮ ਜੀਵਨ ਜਾਂਚ ਸਿਖਾਉਂਦਾ ਹੈ ।
5. ਇਹ ਵਿਸ਼ਾ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਚੇਤੰਨ ਅਤੇ ਚਿੰਤਨਸ਼ੀਲ ਬਣਾਉਣ ਦੇ ਨਾਲ-ਨਾਲ ਇਸ ਮਸ਼ੀਨੀ ਯੁੱਗ ਵਾਲੀ ਤਣਾਓ ਪੂਰਨ ਜਿੰਦਗੀ ਨਾਲ ਜੂਝਣ ਦੀ ਸਮਰੱਥਾ ਪੈਦਾ ਕਰਦਾ ਹੈ ।
6. ਇਹ ਵਿਸ਼ਾ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਅਤੇ ਗੁਰਮੁਖੀ ਲਿਪੀ ਵਿਚ ਨਿਪੁੰਨ ਬਣਾਉਦਾ ਹੈ ।
7. ਇਹ ਵਿਸ਼ਾ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਤਕਨਾਲੋਜੀ ਦੇ ਯੁੱਗ ਅੰਦਰ ਵੀ ਵਧੇਰੇ ਸੰਵੇਦਨਸ਼ੀਲ ਬਣਾਉਦਾ ਹੈ।

ਬੀ.ਵੋਕ ਫੂਡ. ਪ੍ਰੋਸੈਸਿੰਗ ਭਾਗ ਪਹਿਲਾ, ਸਮੈਸਟਰ ਪਹਿਲਾ/ B. Voc. Food Processing- I, Sem-I

ਕੋਰਸ ਕੋਡ	ਕੋਰਸ ਦਾ ਨਾਂ	ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੇ ਗਿਆਨ ਵਰਧਕ ਸਿੱਟੇ
BVFP 111	ਪੰਜਾਬੀ ਲਾਜ਼ਮੀ	1. ਇਸ ਪਾਠਕ੍ਰਮ ਵਿਚਲੀਆਂ ਕਹਾਣੀਆਂ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਸਮਾਜਿਕ ਸਰੋਕਾਰਾਂ ਨਾਲ ਜੋੜਦੀਆਂ ਹਨ ਅਤੇ ਉਹਨਾਂ ਦੀ ਸ਼ਖ਼ਸੀਅਤ ਵਿੱਚ ਨਿਖਾਰ ਵੀ ਲਿਆਉਂਦੀਆ ਹਨ। 2. ਇਹ ਪਾਠਕ੍ਰਮ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਸਮਾਜਕ ਵਿਸੰਗਤੀਆਂ ਪ੍ਰਤੀ ਜਾਗਰੂਕ ਕਰਕੇ

		ਉਹਨਾਂ ਦੇ ਸਮਾਧਾਨ ਪ੍ਰਤੀ ਸਿੱਖਿਅਤ ਕਰਦਾ ਹੈ। 3. ਧੁਨੀ ਬੋਧ,ਵਾਕ ਬੋਧ ਅਤੇ ਸ਼ਬਦਾਂ ਦੀ ਸਹੀ ਵਰਤੋਂ ਵਿਦਿਆਰਥੀ ਨੂੰ ਉਸਦੇ ਸੰਚਾਰ ਅਤੇ ਲੇਖਣੀ ਲਈ ਗਿਆਨ ਪ੍ਰਦਾਨ ਕਰਦੀ ਹੈ। 4. ਚਿੱਠੀ-ਪੱਤਰ ਲੇਖਣੀ ਵਿਦਿਆਰਥੀ ਦੀਆਂ ਵਿਹਾਰਕ ਲੋੜਾਂ ਵਿੱਚ ਸਹਾਇਕ ਸਿੱਧ ਹੁੰਦੀ ਹੈ। 5. ਇਹ ਪਾਠਕ੍ਰਮ ਵਿਦਿਆਰਥੀ ਨੂੰ ਉਸਦੇ ਆਗਾਮੀ ਜੀਵਨ ਪ੍ਰਤੀ ਅੰਦਰੂਨੀ ਅਤੇ ਬਾਹਰੀ ਪੱਖੋਂ ਸਿੱਖਿਅਤ ਕਰਨ ਵਿੱਚ ਯੋਗਦਾਨ ਪਾਉਂਦਾ ਹੈ ।

The Program Specific Outcomes and Course Outcomes (2018-19)

Program Name: Bachelor of Arts
Course Name: Hindi Literature

Learning Objectives:

स्नातकस्तर पर विद्यार्थियों को साहित्य के प्रतिरूचिपैदा करने के साथ-साथ इस के महत्व से परिचित करवाना मूल लक्ष्य रहा है।भाषा जो कि सम्प्रेषण का मूल आधार है का प्रशिक्षण भी दिया जाता हैऔर भाषागत उच्चारण एवं लेखन में आने वाली अशुद्धियों के सुधार का प्रयास भी पाठ्यक्रम के माध्यम से किया जाता है।भाषा और साहित्य के उत्तरोत्तर विकास को इसके इतिहास के माध्यम से परिचित करवाना भी स्नातकस्तर के पाठ्यक्रम का लक्ष्य है।

Course Outcome:

Course Code	Course	Course Outcome
BA-106	हिन्दी साहित्य	1. हिन्दी के आधुनिक युग के प्रमुख कवियों और उनके काव्य का संक्षिप्त परिचय। 2. आधुनिक हिन्दी उपन्यास के अध्ययन के द्वारा हिन्दी उपन्यास की सामान्य जानकारी। 3. हिन्दी साहित्य के इतिहास के प्रारम्भिक रूप का परिचय। 4. लेखन कला को शुद्ध और प्रभावशाली बनाने के लिए व्याकरण का व्यवहारिक ज्ञान।

BA-206	हिन्दी साहित्य	1. हिन्दी की आधुनिक कहानियों के अध्ययन के माध्यम से प्रमुख कहानीकारों का परिचय। 2. हिन्दी के नाटक के अध्ययन के माध्यम से नाटक के रूप–स्वरूप का परिचय। 3. हिन्दी साहित्य के इतिहास के मध्यकाल के प्रमुख कवियों और उनकी प्रवृत्ति की जानकारी। 4. भाषा को और सुन्दर बनाने के लिए मुहावरों और लोकोक्तियों का परिचय।
BA-306	हिन्दी साहित्य	1 हिन्दी के आधुनिक कवियों की कविताओं के माध्यम से इस युग के कवियों और उनकी कविताओं का सामान्य परिचय। 2 नाटक के अध्ययन के माध्यम से हिन्दी के नाटक की समान्य जाकनारी । 3 हिन्दी साहित्य के तीसरे काल के प्रमुख कवियों और प्रवृत्तियों का परिचय। 4 हिन्दी भाषा के विभिन्न रूपों और उसके शब्द भण्डार के परिचय के साथ–साथ इसके मानक रूप का व्यवहारिक परिचय।
BA-406	हिन्दी साहित्य	1. हिन्दी उपन्यास के अध्ययन के माध्यम से उपन्यास के रूप–स्वरूप का परिचय। 2. हिन्दी एकांकी के अध्ययन के माध्यम से एकांकी के सामान्य रूप की जानकारी। 3. हिन्दी साहित्य के आधुनिक काल के काव्य की प्रमुख प्रवृत्तियों का परिचय। 4. काव्यशास्त्र के केवल अलंकारों का सोदाहरण व्यव्हारिक परिचय।
BA-506	हिन्दी साहित्य	1. खण्ड काव्य के अध्ययन के मध्यम से कविता के इस रूप का परिचय। 2. निबन्धों के अध्ययन के माध्यम से इसके रूप–स्वरूप का परिचय। 3. काव्यशास्त्र के अन्तर्गत कविता के विभिन्न रूपों का परिचय एवम् शब्दों की शक्तियों का परिचय। 4. कविता में प्रयुक्त विभिन्न छन्दों का परिचय एवम् व्यवहारिक ज्ञान।
BA-606	हिन्दी साहित्य	1. छायावाद की प्रसिद्ध कवयित्री महादेवी वर्मा के संस्मरणों के अध्ययन के माध्यम से उनके गद्य के स्वरूप का परिचय। 2. विभिन्न रचनाकारों की गद्य रचनाओं के माध्यम से हिन्दी के विभिन्न रूपों का सामान्य परिचय। 3. हिन्दी साहित्य के इतिहास के आधुनिक काल की नवीन विधाओं के विकास की जानकारी। 4. आधुनिक युग में विकसित नवीन विधाओं के स्वरूप और तत्त्वों का परिचय।