



The Autonomous & Heritage Institution  
**KANYA MAHA VIDYALAYA, JALANDHAR**

College with Potential for Excellence  
Re-Accredited A (score 3.56) by UGC-NAAC  
Star Status by DBT  
4 Stars to KMV IIC by MIC, Government of India  
CURIE & FIST Grant (Phase II) Awarded by DST



- 1.1.1** Curricula developed and implemented have relevance to the local, national, regional and global developmental needs which is reflected in Programme outcomes (POs), Programme Specific Outcomes (PSOs) and Course Outcomes(COs) of the Programmes offered by the Institution. (2022-23)

## Department of Animation

<b>Name of Programmes</b>	<b>Name of the Course</b>	<b>Course Code</b>	<b>Focus Local, National, Regional and Global</b>	<b>Description</b>
Bachelor of Vocation (Animation) Semester – I	Computer Fundamentals for Animation	BVAM-1113	Global	Learning about the basic and fundamentals of computer and computer based applications.
Bachelor of Vocation (Animation) Semester – I	Foundation Art	BVAM-1114	Global	Learning drawing, sketching and colors.
Bachelor of Vocation (Animation) Semester – I	Principles of Animation	BVAM-1115	Global	Learning about the various principals and types of animation.
Bachelor of Vocation (Animation) Semester – I	Creative Design-I	BVAP-1116	Global	Learning and working with various principals, aesthetics and elements of Graphic designing.
Bachelor of Vocation (Animation) Semester – I	Film Appreciation	BVAD-1117	Global	Understanding various technical and non technical aspects of film making process.
Bachelor of Vocation (Animation) Semester – I	Minor Project - I	BVAD-1118	Global	Creating Graphic designing project by using principals and techniques learned
Bachelor of Vocation (Animation) Semester – II	Introduction to 3D Maya	BVAL- 2113	Global	Learning basic ineterface of Autodesk Maya and creating basic 3d models in maya.
Bachelor of Vocation (Animation) Semester – II	Scripting and Screenplay	BVAM- 2114	Global	Understanding the elements of script storyboard and screenplay used in animations and films.
Bachelor of Vocation (Animation) Semester – II	2D Digital Animation	BVAM- 2115	Global	Learning and working with 2d animation using flash
Bachelor of Vocation (Animation)	Creative Design - II	BVAP- 2116	Global	Working with the advanced tips and

Semester – II				tricks to create Graphic designing work like leaflets, brochure, banner etc
Bachelor of Vocation (Animation) Semester – II	3D Modeling (Set and Props)	BVAP- 2117	Global	Working with 3d modeling software to create props and assets by using various 3d modeling techniques.
Bachelor of Vocation (Animation) Semester – II	Minor Project- II	BVAD- 2118	Global	Learning to work on the projects (Individual or Group) related to curriculum.
Bachelor of Vocation (Animation) Semester – III	Introduction to Texturing and Lighting in 3D Maya	BVAL- 3111	Global	Understanding the various techniques used for texturing and lighting 3d models and environments.
Bachelor of Vocation (Animation) Semester – III	Introduction to Photography	BVAM - 3112	Global	Learning about basics of photography and working with DSLR camera to understand techniques of photography.
Bachelor of Vocation (Animation) Semester – III	Storyboarding	BVAM –3113	Global	Understanding the process of storyboarding used in animations and films.
Bachelor of Vocation (Animation) Semester – III	Video Editing	BVAP – 3114	Global	Understanding the process of video editing and working on digital video editing projects.
Bachelor of Vocation (Animation) Semester – III	3D Character Modeling	BVAP – 3115	Global	Learning the technique to create biped and quadruped 3d characters to be used in games and movies using 3d software
Bachelor of Vocation (Animation) Semester – III	Texturing Sets and Props	BVAP – 3116	Global	Learning the technique to texture 3d sets, props and assets using 3d software.
Bachelor of Vocation (Animation) Semester – III	Texturing 3D Character	BVAP – 3117	Global	Learning the technique to texture cartoon and realistic biped character using

				3d software.
Bachelor of Vocation (Animation) Semester – III	Minor Project - III	BVAD – 3118	Global	Learning to work on the projects (Individual or Group) related to curriculum.
Bachelor of Vocation (Animation) Semester – IV	Maintaining Workplace Health and Safety	BVAL - 4111	Global	Understanding various guidelines and standards to maintain workplace health and safety.
Bachelor of Vocation (Animation) Semester – IV	Camera Techniques	BVAM - 4112	Global	Understanding and working with various types of cameras, camera angles, and shots and lighting techniques.
Bachelor of Vocation (Animation) Semester – IV	Audio Editing	BVAM - 4113	Global	Understand and working with the basic of sound editing techniques.
Bachelor of Vocation (Animation) Semester – IV	Lighting and Rendering	BVAP - 4114	Global	Working with the advance lighting techniques used in 3d softwares autodesk maya.
Bachelor of Vocation (Animation) Semester – IV	Motion Graphics	BVAP - 4115	Global	Understanding and working with the different elements to create motion graphics for various platforms.
Bachelor of Vocation (Animation) Semester – IV	3D Character Animation using MAYA	BVAP - 4116	Global	Learning workflow of animation in 3d software and applying principles of animation on 3d animations.
Bachelor of Vocation (Animation) Semester – IV	Minor Project IV	BVAD - 4117	Global	Learning to work on the projects (Individual or Group) related to 2d or 3d learned during 2 years of studies.
Bachelor of Vocation (Animation) Semester – V	Electronic Media	BVAL- 5111	Global	Understanding about different types of electronic media used or adopted by

				industry.
Bachelor of Vocation (Animation) Semester – V	3D Architecture Visualization using 3D MAX (Interior and Exterior Designing)	BVAL- 5112	Global	Learning to create 3d interior and exterior model for architecture visualization.
Bachelor of Vocation (Animation) Semester – V	Film Direction and Documentary	BVAM- 5113	Global	Understanding the various aspects and challenges of film direction and documentary film making.
Bachelor of Vocation (Animation) Semester – V	Acting for Animation	BVAP- 5114	Global	Understanding the importance of various elements of acting in animation.
Bachelor of Vocation (Animation) Semester – V	3D Architecture Visualization using 3D MAX (Interior and Exterior Designing) Practical	BVAP- 5115	Global	Working in 3d software to create 3d Interior and exterior model for architecture visualization.
Bachelor of Vocation (Animation) Semester – V	Advance VFX Compositing	BVAP- 5116	Global	Working with 2d, 3d , color grading, fx and other elements to create VFX compositing.
Bachelor of Vocation (Animation) Semester – V	Minor Project - V	BVAD- 5117	Global	Learning to work on the projects (Individual or Group) related to the studies.
Bachelor of Vocation (Animation) Semester – VI	Publicity Designing and Media Laws	BVAL - 6111	National	Understanding the publicity designing, media laws and ethics related to art and digital platforms in india.
Bachelor of Vocation (Animation) Semester – VI	Career Management for Animation	BVAL - 6112	Global	Learning about the Do's and Don't to become professional in the corporate world
Bachelor of Vocation (Animation) Semester – VI	Industrial Training with Major Project	BVAL - 6113	National	Working with or in the relevant Industry as a professional.
Bachelor of Vocation (Animation) Semester – VI	Personality Enhancement	BVAL - 6114	Global	Learn the communication, grooming and other soft skills to become better professional.

Master of Vocation (Animation and VFX)Semester - I	Fundamentals of Design and Animation	MVAL-1111	Global	Understanding various elements, principals and techniques used in designing, animation and CGI.
Master of Vocation (Animation and VFX)Semester - I	Foundation Course on Animation	MVAM-1112	Global	Learning skill of drawing and sketching from the perspective of character developing.
Master of Vocation (Animation and VFX)Semester - I	Basics of Photography	MVAM-1113	Global	Learning and working with various types of camera, lenses and digital photography.
Master of Vocation (Animation and VFX)Semester - I	Introduction to 2D Animation	MVAP-1114	Global	Understanding the techniques and principles of 2d animation.
Master of Vocation (Animation and VFX)Semester - I	Introduction to 3D Animation	MVAP-1115	Global	Understanding the workflow and technique of 3d animation and creating basic 3d animations using 3d software.
Master of Vocation (Animation and VFX)Semester - I	Graphic Designing – Advanced	MVAP-1116	Global	Learning and working with advance techniques to create Graphic designs for brochures, banners, etc.
Master of Vocation (Animation and VFX)Semester - I	Minor Project – I	MVAD-1117	Global	Learning to work on the projects (Individual or Group) related to curriculum.
Master of Vocation (Animation and VFX)Semester - II	Project Management in Animation	MVAL-2111	Global	Learning the process and pipeline of starting a project to its final delivery effectively.
Master of Vocation (Animation and VFX)Semester - II	Workplace Health and Safety	MVAM-2112	Global	Understanding various guidelines and standards to maintain workplace health and safety.
Master of Vocation (Animation and VFX)Semester - II	Video Editing	MVAP-2113	Global	Understanding the process of video editing and working on digital video

				editing projects
Master of Vocation (Animation and VFX)Semester - II	Storyboarding, Animatics and Screenplay	MVAP-2114	Global	Understanding the importance and process of storyboarding, animatics and screenplay in animations and movies.
Master of Vocation (Animation and VFX)Semester - II	2D Digital Animation – Advanced	MVAP-2115	Global	Understanding and working with the advance techniques and principles of 2d animation
Master of Vocation (Animation and VFX)Semester - II	3D Modeling in Maya – Advanced	MVAP-2116	Global	Working on advanced 3d modeling using various 3d modeling techniques like polygon, nurbs etc to create effective 3d modesl.
Master of Vocation (Animation and VFX)Semester - II	Minor Project – II	MVAD-2117	Global	Working on 2D project to have hand on practise and learn various stages of project development.
Master of Vocation (Animation and VFX)Semester - III	Experimenting and Research in Animation	MVAM-3111	Global	Learning the basics of research process and research methodology.
Master of Vocation (Animation and VFX)Semester - III	Lighting, Texturing and Rendering	MVAM-3112	Global	Understanding the process of lighting and texturing on 3d models and creating a impactful final renders.
Master of Vocation (Animation and VFX)Semester - III	Acting for Animation	MVAM-3113	Global	Understanding the importance of various elements of acting in animation.
Master of Vocation (Animation and VFX)Semester - III	Motion Graphics	MVAP-3114	Global	Understanding and working with the different elements to create motion graphics for various platforms.

Master of Vocation (Animation and VFX)Semester - III	3D Character Animation using Maya	MVAP-3115	Global	Working with 3d software to create 3d animations by implementing various principles of animation.
Master of Vocation (Animation and VFX)Semester - III	Visual Effects (VFX)	MVAP-3116	Global	Learning to create different visual effects like fire, dust, rain etc for the VFX compositing.
Master of Vocation (Animation and VFX)Semester - III	Minor Project - III	MVAD-3117	Global	Learning to work on the projects (Individual or Group) related to 2d/3d and deliver it as per target audience.
Master of Vocation (Animation and VFX)Semester - IV	Career Management	MVAM-4111	Global	Learning about the Do's and Don't to become professional in the corporate world.
Master of Vocation (Animation and VFX)Semester - IV	Digital Art Copyrights	MVAM-4112	National	Understanding about media laws and copyrights act for media and digital art in india.
Master of Vocation (Animation and VFX)Semester - IV	Industrial Training with Major Project	MVAI-4113	National	Getting exposure and working as professional with the Relevant industry.

## Department of Artificial Intelligence and Data Science

<b>Name of Programme</b>	<b>Name of the Course</b>	<b>Course Code</b>	<b>Focus Local, National, Regional and Global</b>	<b>Description</b>
Bachelor of Vocation (Artificial Intelligence and Data Science) Semester I	Introduction to Computers and Information Technology	BVIL-1113	Global	Basic Computer knowledge is most important no matter what sector one works.
Bachelor of Vocation (Artificial Intelligence and Data Science) Semester I	Introduction to Artificial Intelligence and Data Science	BVIL-1114	Global	To learn the concepts of latest IT trends i.e. Artificial Intelligence and Data Science.
Bachelor of Vocation (Artificial Intelligence and Data Science) Semester I	Office Fundamentals	BVIL-1115	Global	To learn data entry, word processing and presentation skills.
Bachelor of Vocation (Artificial Intelligence and Data Science) Semester I	Computational Problem Solving-I	BVIM-1116	Global	To give practical exposure of microsoft office.
Bachelor of Vocation (Artificial Intelligence and Data Science) Semester I	Lab in Office Fundamentals	BVIP-1117	Global	Exploring the professional working environment.
Bachelor of Vocation (Artificial Intelligence and Data Science) Semester I	Minor Project -1	BVID-1118	Global	Practical implementation.
Bachelor of Vocation (Artificial Intelligence and Data Science) Semester I	Computational Problem Solving-II	BVIL-2113	Global	Learn basic coding skills using widely accepted

Intelligence and Data Science) Semester II				programming language Python.
Bachelor of Vocation(Artificial Intelligence and Data Science) Semester II	Mathematical Foundation	BVIL-2114	Global	Basics of set theory used in various fields of computer science.
Bachelor of Vocation(Artificial Intelligence and Data Science) Semester II	Technical Writing	BVIL-2115	Global	Learn to make technical reports and comprehend technical communication.
Bachelor of Vocation(Artificial Intelligence and Data Science) Semester II	Data Collection and Analysis	BVIL-2116	Global	Learn the process of data analysis and tools used to perform the same.
Bachelor of Vocation(Artificial Intelligence and Data Science) Semester II	Relational Database Management System	BVIM-2117	Global	Perform MySQL queries and handle databases.
Bachelor of Vocation(Artificial Intelligence and Data Science) Semester II	Computational Problem Solving Lab	BVIP-2118	Global	Practical implementation of Python.
Bachelor of Vocation(Artificial Intelligence and Data Science) Semester II	Minor Project-II	BVID-2119	Global	Make projects by connecting MySQL and Python.
Bachelor of Vocation(Artificial Intelligence and Data Science) Semester III	Statistical Inference-I	BVIL-3111	Global	To learn statistical concepts required to implement data science and machine learning applications.
Bachelor of Vocation(Artificial	Data Mining and Data Warehousing	BVIL-3112	Global	To learn data mining techniques in order to get meaningful insights from the

Intelligence and Data Science) Semester III				data.
Bachelor of Vocation(Artificial Intelligence and Data Science) Semester III	Data Processing and Visualization	BVIL-3113	Global	Understand the concept of cleaning and processing raw data and present inferences using suitable graphic tools.
Bachelor of Vocation(Artificial Intelligence and Data Science) Semester III	Entrepreneurship basics	BVIL-3114	Global	Comprehend the basics of entrepreneurship and startups and motivate the students to start their own ventures.
Bachelor of Vocation(Artificial Intelligence and Data Science) Semester III	Machine Learning-I	BVIL-3115	Global	Understand various classification, clustering and regression algorithms to implement machine learning applications.
Bachelor of Vocation(Artificial Intelligence and Data Science) Semester III	Lab on Data Processing and Visualization	BVIP-3116	Global	Using Tableau software to implement data visualization and plotting data using various types of graphs.
Bachelor of Vocation(Artificial Intelligence and Data Science) Semester III	Data Storytelling and Presentation	BVIP-3117	Global	To create a story using data and present it effectively so that it is easier to explain instead of just using numbers.
Bachelor of Vocation(Artificial Intelligence and Data Science) Semester III	Lab on Machine Learning-I	BVIP-3118	Global	Implement clustering, classification and regression techniques using sample data.
Bachelor of Vocation(Artificial Intelligence and Data Science) Semester III	Minor Project-III	BVID-3119	Global	To develop a project based on machine learning algorithms and use tableau for visualizations.

Bachelor of Vocation(Artificial Intelligence and Data Science) Semester IV	Statistical Inference-II	BVIL-4111	Global	To understand advance statistical concepts for data analytics and machine learning.
Bachelor of Vocation(Artificial Intelligence and Data Science) Semester IV	Applied Statistical Programming	BVIL-4112	Global	Learn R language and its basic concepts also understand implementation of statistical concepts using R functions.
Bachelor of Vocation(Artificial Intelligence and Data Science) Semester IV	Non-Relational Databases	BVIL-4113	Global	Learn Mongo DB used to implement Non relational database applications which are used to manage big data.
Bachelor of Vocation(Artificial Intelligence and Data Science) Semester IV	Workplace Management	BVIL-4114	Global	Make students understand how to work in a professional environment and conduct oneself well.
Bachelor of Vocation(Artificial Intelligence and Data Science) Semester IV	Applied Statistical Programming Lab	BVIP-4115	Global	Implement R language concepts.
Bachelor of Vocation(Artificial Intelligence and Data Science) Semester IV	Lab on Non-Relational Databases	BVIP-4116	Global	Implement NoSql via Mongo Db.
Bachelor of Vocation(Artificial Intelligence and Data Science) Semester IV	Minor Project-IV	BVID-4117	Global	Build projects based on Mongo Db or R language.

## Department of Biotechnology

Name of Programme	Name of course	Course code	Focus Local, National, Regional, and Global	Description
Bachelor of Science (Bio-Technology) Semester I	Cell Biology	BBTM-1483	Global	Understand the basic unit of life – cell, its types and the structure and functions of cell organelles.
Bachelor of Science (Bio-Technology) Semester I	Botany-I	BBTM-1074	Global	Understand the diversity of plants, the structure of root, stem and flower.
Bachelor of Science (Bio-Technology) Semester I	Biochemistry-I	BBTM-1085	Global	Gain basic knowledge about water and pH and, acquire the knowledge of carbohydrates, lipids and proteins along with their classification and biological functions that can relate in day-to-day life.
Bachelor of Science (Bio-Technology) Semester I	General Microbiology-I	BBTM-1346	Global	Understand the principle and application of various types of microscopic techniques and the concept, principle and types of sterilization techniques while performing microbiological experiments.
Bachelor of Science (Bio-Technology) Semester I	Chemistry-I	BBTM-1087	Global	Understand the key features of coordination compounds viz. variety of structures, oxidation numbers and electronic configurations, coordination numbers and explain the bonding and stability of complexes along with their nomenclature and structure.
Bachelor of Science (Bio-Technology) Semester II	Biostatistics	BBTL-2333	Global	Familiarize the students with calculation of summary statistics (mean, median, mode, range, standard deviation, and variance) from the data and the concepts of probability, conditional probability, and bayes theorem.
Bachelor of Science (Bio-Technology) Semester II	Zoology-I	BBTM-2484	Global	Understand the general classification of kingdom animalia, digestive system, respiratory system, excretory system and circulatory system of man.
Bachelor of Science (Bio-Technology) Semester II	Genetics	BBTM-2065	Global	Learn fundamentals of Mendel's rules of inheritance and understand range of gene interactions.
Bachelor of Science (Bio-Technology) Semester II	Biochemistry-II	BBTM-2086	Global	Familiarize the students with biomolecules, enzymes and related metabolic pathways and get acquainted with the concept of bioenergetics and

				various metabolic processes.
Bachelor of Science (Bio-Technology) Semester II	General Microbiology-II	BBTM-2347	Global	Know the concept of microbial growth in batch and continuous system, the whole process of Natural resistance and Non-specific defense mechanism against microorganisms occurs in the human body.
Bachelor of Science (Bio-Technology) Semester III	Fundamentals of Biotechnology	BBTM-3061	Global	Understand the basic concept of biotechnology and recombinant technology and applications of biotechnology in health care and agriculture.
Bachelor of Science (Bio-Technology) Semester III	Immunology-I	BBTM-3062	Global	Familiarize with the Immune system, different immune cells providing immunity and understand immunoglobulin structure and different pathways of complement systems.
Bachelor of Science (Bio-Technology) Semester III	Chemistry-II	BBTM-3083	Global	Understand the various reactive intermediates, the bonding between different organic compounds and the effect of various substituents on the reactivity of aromatic compounds.
Bachelor of Science (Bio-Technology) Semester III	Botany-II	BBTM-3074	Global	Understand the plants and plant cells in relation to water, the chemical contents of the plant products and the concept and characteristics of antiseptic, disinfectant and their mode of action.
Bachelor of Science (Bio-Technology) Semester III	Biochemistry-III	BBTM-3085	Global	Understand Carbohydrates metabolisms in cell, the amphibolic nature of Kreb's cycle and Electron transport chain and ATP synthesis occurring inside cell.
Bachelor of Science (Bio-Technology) Semester III	Molecular Biology	BBTM-3066	Global	Study Molecular aspects of genetics, and understanding of basic mechanism and essential component required for DNA replication in prokaryotic & eukaryotic organisms along with translation.
Bachelor of Science (Bio-Technology) Semester IV	Industrial Biotechnology-I	BBTM-4061	Global	Understand the basics of microbial industrial process, isolation of industrially important microbes and their screening methods and different strain improvement method required for industrial important microbes.
Bachelor of Science (Bio-Technology) Semester IV	Immunology-II	BBTM-4062	Global	Familiarize with immune effector mechanisms, hybridoma technology and different processes and different cell types involved in the prevention of disease.
Bachelor of Science (Bio-	Biochemistry-IV	BBTM-4083	Global	Understand metabolism and biosynthesis of amino acids and nucleotides.

Technology) Semester IV				
Bachelor of Science (Bio- Technology) Semester IV	Skill Development in Biotechnology	BBTM-4064	National	Detect different food borne infections by different methods and test food adulterants biochemically/ microbiologically and learn all the nutritional aspects of the carbohydrates, lipids & proteins.
Bachelor of Science (Bio- Technology) Semester IV	Fundamentals of Bioinformatics	BBTM-4065	Global	Understand basics of computer and data storage devices, bioinformatics, and sequence alignment.
Bachelor of Science (Bio- Technology) Semester IV	Zoology-II	BBTM-4486	Global	Understand the evolution of Prokaryotes and Eukaryotes and the process and theories in evolutionary biology.
Bachelor of Science (Bio- Technology) Semester IV	Industrial/ Institutional Visit	BBTT-4067	Regional	Learn industry-specific workings and wisdom, eventually leading the students to understand better management skills, leadership skills, team player attitude, etc.
Bachelor of Science (Bio- Technology) Semester V	rDNA Technology-I	BBTM-5061	Global	Understand the concept of genetic engineering and know about different DNA modifying enzymes, cloning vectors and different methods of transformation.
Bachelor of Science (Bio- Technology) Semester V	Plant Biotechnology-I	BBTM-5062	Global	Study the macronutrients and micronutrients and their deficiency symptoms in plants, different physiological functions and biosynthesis of major plant growth regulators.
Bachelor of Science (Bio- Technology) Semester V	Animal Biotechnology-I	BBTM-5063	Global	Learn about the different aseptic techniques used in animal tissue culture (ATC), and to know about the different sources, types and eradication of contamination, different culture media and reagents used and different safety considerations in ATC laboratory.
Bachelor of Science (Bio- Technology) Semester V	Bioprocess Engineering-I	BBTM-5064	Global	Understand the fundamental principles of chemical Engineering and biochemical engineering, perform assay of various enzymes according to their properties and analyse their kinetics and effect of temperature, pH and inducer on the product synthesis.
Bachelor of Science (Bio- Technology) Semester V	Biochemical and Biophysical Techniques-I	BBTM-5065	Global	Gain fundamental knowledge about the basic principles of sedimentation, centrifugation, principles of different types of chromatography, single and double beam UV/Visible spectroscopy, and basic principle and instrumentation of NMR and ESR.

Bachelor of Science (Bio-Technology) Semester V	Industrial Biotechnology-II	BBTM-5066	Global	Know about production of antibiotics and solvents from industrial microbes, concept of biotransformation, microbial production of organic acids, vitamins and amino acids, biofertilizers, vermicomposting, and fermented foods.
Bachelor of Science (Bio-Technology) Semester VI	rDNA Technology-II	BBTM-6061	Global	Understand basics of cloning and expression vectors, gene expression and processing of recombinant proteins, primer designing, and concept of gene amplification and different generations of sequencing.
Bachelor of Science (Bio-Technology) Semester VI	Animal Biotechnology-II	BBTM-6062	Global	Understand the basics of animal cell culture, transfection methods, expression vectors and Stem cells and its applications and role of genetic engineering in the improvement of animal cell for human welfare.
Bachelor of Science (Bio-Technology) Semester VI	Plant Biotechnology-II	BBTM-6063	Global	Understand basic concepts of micropropagation, generation of variations in plants, important milestones in plant tissue culture, protoplast fusion, somatic cell hybridization and secondary metabolite production.
Bachelor of Science (Bio-Technology) Semester VI	Bioprocess Engineering-II	BBTM-6064	National	Learn about the design of a fermenter, its applications and parameters to be considered while operating a fermenter. To study about different techniques of downstream processing, and learning about effluent treatment and fermentation economics.
Bachelor of Science (Bio-Technology) Semester VI	Chemistry-III	BBTM-6085	Global	Understand the various thermodynamic properties and laws of thermodynamics, and acquire the knowledge of structure and nature of various intermolecular forces, the concept of reaction rates and determination of rate law.
Bachelor of Science (Bio-Technology) Semester VI	Biochemical and Biophysical Techniques-II	BBTM-6066	Global	Understand the working principles of electrophoresis techniques and mass spectroscopy and their role in science.
Bachelor of Science (Bio-Technology) Semester VI	Term Paper	BBTS-6087	National	Build the scientific writing skills.

## Department of Botany

<b>Name of Programmes</b>	<b>Name of the Course</b>	<b>Course Code</b>	<b>Focus Local, National, Regional, and Global</b>	<b>Description</b>
Bachelor of Science (Medical) Semester I	Botany (Diversity of Microbes)	BSMM-1075(I)	Global	Provide detail information on algae and fungi.
Bachelor of Science (Medical) Semester I	Botany (Diversity of Cryptogams)	BSMM-1075(II)	Global	Provides details information on bryophytes and pteridophytes diversity and their potential.
Bachelor of Science (Medical) Semester I	Botany (Practical-I – Related to Diversity of Microbes & Diversity of Cryptograms)	BSMM-1075(P)	Global	Practical skills on Bacteria, fungi, algae and pteridophytes.
Bachelor of Science (Medical) Semester II	Botany (Cell Biology)	BSMM-2075(I)	Global	Provides information on fundamental aspects of cell biology.
Bachelor of Science (Medical) Semester II	Botany (Genetics)	BSMM-2075(II)	Global	Gives an insight into structure and function of DNA, RNA, Gene and Protein.
Bachelor of Science (Medical) Semester II	Botany (Practical-II- Genetics and Cell Biology)	BSMM-2075(P)	Global	Practical information on Genetics and Cell Biology.
Bachelor of Science (Medical) Semester III	Botany (Structure Development and Reproduction in Flowering Plant-I)	BSMM-3075(I)	Global	Gives information on Morphology and Anatomy of Stem.
Bachelor of Science (Medical) Semester III	Botany (Structure Development and Reproduction in Flowering Plant-II)	BSMM-3075(II)	Global	Gives information on Morphology and Anatomy of Root and Embryogenesis.
Bachelor of Science (Medical) Semester III	Botany (Practical-III - Structure Development and Reproduction in Flowering Plant I & II)	BSMM-3075(P)	Global	Experimental skill to study internal structure in plants.
Bachelor of Science (Medical) Semester IV	Botany (Diversity of Seed Plants and their Systematics-I)	BSMM-4075(I)	Global	Gives information about diversity of Gymnosperms.
Bachelor of Science (Medical)	Botany (Diversity of Seed Plants and their	BSMM-	Global	Gives information about

Semester IV	Systematics-II)	4075(II)		diversity of Angiosperms.
Bachelor of Science (Medical) Semester IV	Botany (Practical-IV- Diversity of Seed Plants and their Systematics-I and II)	BSMM-4075(P)	Global	Practical information on Gymnosperm and Angiosperm.
Bachelor of Science (Medical) Semester V	Botany (Plant Physiology)	BSMM-5075(I)	Global	Provides information on plant functions.
Bachelor of Science (Medical) Semester V	Botany (Biochemistry & Biotechnology)	BSMM-5075(II)	Global	Understand the structure of biomolecules and metabolic pathways. Elucidates the methods and principles of plant biotechnology.
Bachelor of Science (Medical) Semester V	Botany (Practical-IV- Related to Plant Physiology and Biochemistry Biotechnology)	BSMM-5075(P)	Global	Experimental skill to understand plant function.
Bachelor of Science (Medical) Semester VI	Botany (Ecology)	BSMM-6075(I)	Global	To understand and gain knowledge of the environment and its interaction with plants.
Bachelor of Science (Medical) Semester VI	Botany (Economic Botany)	BSMM-6075(II)	Global	To know the importance and application of plants for the betterment of human livelihood.
Bachelor of Science (Medical) Semester VI	Botany (Practical-VI- Ecology and Economic botany)	BSMM-6075(P)	Global	To apply scientific principles in experimental design and study of economic importance of various plants.
Bachelor of Science (Home Science) Semester V	Applied Botany and Home Gardening	BHSM-5077	Global	To familiarize students with basic gardening techniques and involve practices like seed sowing, plant propagation and maintenance of plants.
Master of Science (Botany) Semester I	Fungi and Plant Pathology	MBTL-1071	Global	Gives detailed insight into fungal diversity and its pathological relevance.
Master of Science (Botany) Semester I	Phycology	MBTL-1072	Global	Understand details of Algal Diversity and its potential.
Master of Science (Botany) Semester I	Plant Physiology	MBTL-1073	Global	To provide information of nitrogen and sulphur metabolism & plant function.

Master of Science (Botany) Semester I	Genetics and Evolution	MBTL-1074	Global	To study how genetic variations contribute in evolutionary changes.
Master of Science (Botany) Semester I	Computer Applications and Bioinformatics	MBTL-1076	Global	Provide understanding about the basics of computer applications and understanding about the bioinformatic tools for the analysis of nucleic acid and protein structures.
Master of Science (Botany) Semester I	Botany Practicals I	MBTP-1077	Global	Gives practical knowledge about fungi, algae and bryophytes.
Master of Science (Botany) Semester I	Botany Practicals II	MBTP-1078	Global	Practical knowledge of Plant Physiology, Genetics, and computer applications in plant sciences.
Master of Science (Botany) Semester II	Bryology	MBTL-2071	Global	Give information on morphology and anatomy of Bryophytes.
Master of Science (Botany) Semester II	Pteridology	MBTL-2072	Global	Gives information on morphology and anatomy of Pteridophytes.
Master of Science (Botany) Semester II	Diversity and Biology of Gymnosperms	MBTL-2073	Global	Provides knowledge about diversity and uses of Gymnosperms across the world.
Master of Science (Botany) Semester II	General Microbiology	MBTL-2074	Global	Describes the importance of microbes in industrial, environment and waste management processes.
Master of Science (Botany) Semester II	Cell Biology	MBTL-2075	Global	To study the various structural and functional components of cell and the different aspects of cell and cell division.
Master of Science (Botany) Semester II	Ecological Modelling and Forest Ecology	MBTL-2076	Global	Gives information on ecology and diversity of forests.
Master of Science (Botany) Semester II	Botany Practicals I	MBTP-2077	Global	Experimental knowledge of bryophytes, pteridophytes and gymnosperms.
Master of Science (Botany) Semester II	Botany PracticalsII	MBTP-2078	Global	Provides practical knowledge of cell structure, culturing of microbes and ecological methods for diversity in forests.

Master of Science (Botany) Semester III	Developmental Botany	MBTL-3071	Global	To study in detail pollination and embryo development in plants.
Master of Science (Botany) Semester III	Plant Molecular Biology	MBTL-3072	Global	To study Plant molecular biology techniques and molecular process.
Master of Science (Botany) Semester III	Plant Breeding and IPR	MBTL-3073	Global	Give details on the principles and applications of breeder's techniques and also elucidate how breeders claim the intellectual property right.
Master of Science (Botany) Semester III	Plant Biochemistry	MBTL-3074	Global	Describes the biochemical interactions in biomolecules and their metabolic pathways.
Master of Science (Botany) Semester III	Applied Botany	MBTL-3075	Global	Gives information on identification, morphology and economic uses of plants.
Master of Science (Botany) Semester III	Plant Morphogenesis	MBTL-3076	Global	Gives information on development of different plant structures and effect of environmental factors on them.
Master of Science (Botany) Semester III	Botany Practical's I	MBTP-3077	Global	Experimental skills in plant development, molecular studies and breeding techniques in plants.
Master of Science (Botany) Semester III	Botany Practical's II	MBTP-3078	Global	Practical Knowledge about experiments of biochemistry, morphogenesis and economic uses of plants.
Master of Science (Botany) Semester IV	Plant Anatomy	MBTL-4071	Global	Gives knowledge about internal structure of plant.
Master of Science (Botany) Semester IV	Structure and Metabolism of Plant Hormones	MBTL-4072	Global	Provides knowledge about structure of plant hormones and their commercial uses.
Master of Science (Botany) Semester IV	Plant Tissue Culture and Biotechnology	MBTL-4073	Global	Gives an understanding of various plant tissue culture techniques and the farming of crops with multiple durable resistance to pests and diseases, marker-assisted selection of high yielding crops and conservation

				of plant biodiversity in natural habitats.
Master of Science (Botany) Semester IV	Analytical Techniques	MBTL-4074	Global	Provides detailed knowledge on use of different instrumentation and techniques in biological sciences.
Master of Science (Botany) Semester IV	Diversity and Biology of Angiosperms	MBTL-4075	Global	Provide information related to diversity and taxonomy of Angiosperm.
Master of Science (Botany) Semester IV	Hazardous Chemicals (Optional Paper)	MBTL-4076 A	Global	Provide information about hazardous chemicals.
Master of Science (Botany) Semester IV	Immunology (Optional Paper)	MBTL-4076 B	Global	Give details of immune system and related disease.
Master of Science (Botany) Semester IV	Botany Practical's I	MBTP-4077	Global	Gives practical knowledge about anatomy of plants, use of plant hormones and culturing techniques in plant biotechnology.
Master of Science (Botany) Semester IV	Botany Practical's II	MBTP-4078	Global	Provides practical knowledge about analytical techniques in biological sciences and about the biology of flowering plants.
Master of Science (Botany) Semester IV	Field Study	MBTP-4079	Global	Practical knowledge of studying plant diversity.
Master of Science (Botany) Semester IV	Research Techniques	MBTP-4070	Global	To study various techniques employed in plant-based research.
Bachelor of Science (Bio-Technology) Semester I	Botany-I	BBTM-1074	Global	To give overview of plant kingdom. Understand the diversity of plants, the structure of root, stem and flower.
Bachelor of Science (Bio-Technology) Semester IV	Botany-C	BBTM-4072	Global	Gives a detailed understanding about plant nutrition, photosynthesis, and plant pathology.

**Department of Commerce**

<b>Name of Programmes</b>	<b>Name of the Course</b>	<b>Course Code</b>	<b>Focus Local, National, Regional and Global</b>	<b>Description</b>
Bachelor of Commerce Semester I	Financial Accounting	BCRL-1093	National	Provides knowledge of financial accounting followed by business houses at national level.
Bachelor of Commerce Semester I	Business Organisation	BCRL-1094	National \ Global	The subject provides knowledge to the students regarding the set up of business houses at national and international level.
Bachelor of Commerce Semester I	Business Communication	BCRL-1095	National \ Global	It helps to develop interpersonal communication skills that maximise team effectiveness at national and international level.
Bachelor of Commerce Semester II	Functional Management	BCRL-2093	National \ Global	It helps the managers of national and multinational concerns to perform different functions of management like planning, organising, directing, staffing, coordinating and controlling effectively.
Bachelor of Commerce Semester II	Commercial Laws	BCRL-2094	National	Traders at national level need to possess the knowledge relating to laws prevailing in the country while doing any trade.
Bachelor of Commerce Semester II	Advanced Financial Accounting	BCRM-2096	National	It teaches the practices and software followed at national level for the preparation of accounts of sole proprietor and partnership.
Bachelor of Commerce Semester II	Seminar	BCRS-2097	National \ Global	Helps to develop strong communication skills and enhance knowledge on current topics prevalent at national and international level.
Bachelor of Commerce Semester III	Business Environment	BCRL-3093	National \ Global	Helps to understand the impact of different dimensions of environment (political, legal, social, technological and cultural) on business firms operating at

				national and international level.
Bachelor of Commerce Semester III	Company Law	BCRL-3094	National	It provides an indepth knowledge regarding the formation, operation and winding up of companies in India.
Bachelor of Commerce Semester III	Financial Management	BCRL-3095	National \ Global	Finance is the key resource to be used in every organisation nationally and globally. It focuses on the strategic techniques to be used for control of cost of finance and generation of maximum returns.
Bachelor of Commerce Semester III	International Business	BCRL-3096	Global	Helps to understand the international business environment and the procedures and modes for entering into international business.
Bachelor of Commerce Semester III	Corporate Accounting	BCRM-3097	Global	Helps the students to prepare accounts and reports as per Companies Act and other special acts applicable in India.
Bachelor of Commerce Semester V	Banking and Financial System	BCRL-3628 Option A(I)	Global	Helps to know the Banking system and the procedure of payment and collection of cheques.
Bachelor of Commerce Semester IV	Goods and Services Tax	BCRL-4093	National	Helps to understand the indirect taxation mechanism prevailing in India and its implications for the businessman.
Bachelor of Commerce Semester IV	Industrial Laws	BCRL-4094	National	Provides knowledge regarding various laws related to protection, safety and working of employees in Indian industrial sector.
Bachelor of Commerce Semester IV	Principles and Practices of Banking and Insurance	BCRL-4095	National	Imparts knowledge regarding the functions performed and services provided by the banks and insurance companies in India.

Bachelor of Commerce Semester IV	Cost Accounting	BCRL-4096	National	Teaches the students to learn the techniques of cost ascertainment and cost control adopted by business concerns operating in India.
Bachelor of Commerce Semester IV	Seminar	BCRS-4097	National \ Global	Helps to develop strong communication skills and enhance knowledge on current topics prevalent at national and international level.
Bachelor of Commerce Semester V	Electronic Banking and Risk Management	BCRL-4628 Option A (II)	Global	Helps to know about the global developments and impact of technology on banks.
Bachelor of Commerce Semester V	Management Accounting	BCRL-5093	National \ Global	It is an amalgamation of financial cost and management accounting aiming at guiding the potential managers in financial decision making process.
Bachelor of Commerce Semester V	Direct Tax Law	BCRL-5094	National	Provides detailed knowledge regarding latest provisions of Income Tax Act under different heads of income applicable on Indian business organisations.
Bachelor of Commerce Semester V	Auditing	BCRL-5095	National	Apprises the students with the audit procedures and different types of audit applicable in India.
Bachelor of Commerce Semester V	Banking Services Management	BCRL-5096 Option – B(I)	National	Imparts knowledge regarding the functions performed and services provided by the banks in India.
Bachelor of Commerce Semester V	Insurance Services Management	BCRL-5097 Option – B(II)	National	Imparts knowledge regarding the functions performed and services provided by insurance companies in India.
Bachelor of Commerce Semester V	Accounting for Bankers	BCRL-5628 Option A (III)	Global	Helps to develop conceptual understanding of fundamentals of financial accounting system and basic concepts and practices of banking.
Bachelor of Commerce Semester VI	Operations Research	BCRL-6093	National \ Global	Helps to suggest optimal solution to the complex problems faced by business organisations at national and international level with the overall approach of problem

				solving.
Bachelor of Commerce Semester VI	Corporate Governance	BCRL-6094	National	Imparts knowledge regarding the legal framework prevailing in India for the effective governance and management of business corporations.
Bachelor of Commerce Semester VI	Foreign Exchange Management	BCRL-6095 Option B(I)	Global	Strategies related to risk management in International trade are taught.
Bachelor of Commerce Semester VI	Risk Management and Insurance	BCRL-6096 Option B(II)	National	Imparts knowledge regarding the risk measurement procedures and functions performed by insurance companies in India.
Bachelor of Commerce Semester VI	Workshop on Goods and Services Tax	BCRP-6097	National	Helps to understand the indirect taxation mechanism prevailing in India and its implications for the businessman.
Bachelor of Commerce Semester VI	Bank Marketing	BCRL-6628 Option A (IV)	Global	Helps to understand the significance of Bank Marketing in the Global Marketing.
Bachelor of Business Administration Semester-I	Basic Accounting	BBRL-1323	National	Provides knowledge of financial accounting followed by business houses at national level.
Bachelor of Business Administration Semester-I	Business Organization and Systems	BBRL-1324	National \ Global	The subject provides knowledge to the students regarding the set up of business houses at national and international level.
Bachelor of Business Administration Semester-II	Business Laws	BBRL-2323	National	Traders at national level need to possess the knowledge relating to laws prevailing in the country while doing any trade.
Bachelor of Business Administration Semester-II	Principles of Management	BBRL-2324	National \ Global	It helps the managers of national and multinational concerns to perform different functions of management like planning, organising, directing, staffing, coordinating and controlling

				effectively.
Bachelor of Business Administration Semester-II	Computer Based Accounting System	BBRL-2326	National \ Global	Helps to learn different accounting software packages useful in maintaining accounting data in India and abroad.
Bachelor of Business Administration Semester-II	Fundamentals of Banking	BBRL-2327	National	Imparts knowledge regarding the functions performed and services provided by the banks in India.
Bachelor of Business Administration Semester-III	Fundamentals of Human Resource Management	BBRL-3324	National \ Global	Knowledge is imparted to students regarding the recruitment and selection process at the national and international level.
Bachelor of Business Administration Semester-III	Fundamentals of Marketing Management	BBRL-3325	National \ Global	Marketing strategies are taught to students to be used for national and international market operations.
Bachelor of Business Administration Semester-III	Indian Financial System	BBRL-3326	National	Helps to understand the functioning of the Indian Financial system in present scenario.
Bachelor of Business Administration Semester-III	Management Accounting	BBRL-3327	National \ Global	It is an amalgamation of financial cost and management accounting aiming at guiding the potential managers in financial decision making process.
Bachelor of Business Administration Semester-IV	Financial Management	BBRL-4323	National \ Global	Finance is the key resource to be used in every organisation nationally and globally. It focuses on the strategic techniques to be used for control of cost of finance and generation of maximum returns.
Bachelor of Business Administration Semester-IV	Production and Operations Management	BBRL-4324	National \ Global	It teaches how to improve, manage and regulate all the aspects related to production and operations management such as planning, manufacturing, production or providing services.

Bachelor of Business Administration Semester-IV	Business Environment	BBRL-4325	National \ Global	Helps to understand the impact of different dimensions of environment (political, legal, social, technological and cultural) on business firms operating at national and international level.
Bachelor of Business Administration Semester-IV	Operations Research	BBRL-4326	National \ Global	Helps to suggest optimal solution to the complex problems faced by business organisations at national and international level with the overall approach of problem solving.
Bachelor of Business Administration Semester-IV	Fundamentals of Insurance	BBRL-4327	National	Imparts knowledge regarding the functioning of the insurance companies in India.
Bachelor of Business Administration Semester-V	Company Law	BBRL-5323	National	It provides an indepth knowledge regarding the formation, operation and winding up of companies in India.
Bachelor of Business Administration Semester-V	Entrepreneurship and Small Business	BBRL-5324	National \ Global	Students are taught regarding entrepreneurial opportunities at national and international level.
Bachelor of Business Administration Semester-V	Cost Accounting	BBRL-5325	National	Teaches the students to learn the techniques of cost ascertainment and cost control adopted by business concerns operating in India.
Bachelor of Business Administration Semester-V	Management of Banking Operations	BBRL-5326 Option CI	National	Imparts knowledge regarding the functions performed and services provided by the banks in India.
Bachelor of Business Administration Semester-V	Insurance and Risk Management	BBRL-5327 Option CII	National	Imparts knowledge regarding the functions performed and services provided by the insurance companies in India.
Bachelor of Business Administration Semester-V	Seminar	BBRS-5328	National \ Global	Helps to develop strong communication skills and enhance knowledge on current topics prevalent at national and international level.

Bachelor of Business Administration Semester-VI	Income Tax	BBRL-6323	National	Provides detailed knowledge regarding latest provisions of Income Tax Act under different heads of income applicable on Indian business organisations.
Bachelor of Business Administration Semester-VI	Fundamentals of Capital Markets	BBRL-6324	National	Helps to understand the functioning of the Indian Capital markets in present scenario.
Bachelor of Business Administration Semester-VI	Training and Development	BBRL-6325 Option BI	National \ Global	Discusses the various on and off training methods to be provided to employees for improving efficiency and productivity.
Bachelor of Business Administration Semester-VI	Contemporary Issues in Human Resource Management	BBRL-6326 Option BII	National \ Global	Knowledge is imparted to students regarding the contemporary issues in HRM at the national and international level.
Bachelor of Commerce (Honours) Semester-I	Management Principles and Applications	BCOM-1095	National \ Global	It helps the managers of national and multinational concerns to perform different functions of management like planning, organising, directing, staffing, coordinating and controlling effectively.
Bachelor of Commerce (Honours) Semester-I	Financial Accounting	BCOM-1096	National	Provides knowledge of financial accounting followed and software used by business houses at national level.
Bachelor of Commerce (Honours) Semester-II	Advanced Financial Accounting	BCOL-2093	National	It teaches the practices followed at national level for the preparation of accounts of sole proprietor and partnership.
Bachelor of Commerce (Honours) Semester-II	Business Laws	BCOL-2095	National	Traders at national level need to possess the knowledge relating to laws prevailing in the country while doing any trade.
Bachelor of Commerce (Honours) Semester-II	Workshop on Life Skills	BCOP-2097	National \ Global	It helps to develop interpersonal communication skills that maximise team effectiveness at national and international level.

Bachelor of Commerce (Honours) Semester-III	Analytical Skills	BCOL-3331	Global	Applications in Share Market, coding and decoding, business, analysis and interpretation of given data, important measure for a prospective business and overall executives's abilities.
Bachelor of Commerce (Honours) Semester-III	Company Law	BCOL-3092	National	It provides an indepth knowledge regarding the formation, operation and winding up of companies in India.
Bachelor of Commerce (Honours) Semester-III	Banking Theory & Practice	BCOL-3093	National	Imparts knowledge regarding the functions performed and services provided by the banks in India.
Bachelor of Commerce (Honours) Semester-III	Business Communication	BCOL-3094	National \ Global	It helps to develop interpersonal communication skills that maximise team effectiveness at national and international level.
Bachelor of Commerce (Honours) Semester-III	Business Ethics and Corporate Social Responsibility	BCOL-3095	National \ Global	It teaches students to come upto global standards and to incorporate the core principles that guide and direct the smooth functioning of the organisation.
Bachelor of Commerce (Honours) Semester-III	Corporate Accounting	BCOM-3096	National	Helps the students to prepare accounts and reports as per companies act and other special acts applicable in India.
Bachelor of Commerce (Honours) Semester-IV	Cost Accounting	BCOL-4091	National	Teaches the students to learn the techniques of cost ascertainment and cost control adopted by business concerns operating in India.
Bachelor of Commerce (Honours) Semester-IV	Fundamentals of Investment Management	BCOL-4092	National \ Global	Students will understand different investment alternatives available and will be able to manage portfolio related to investments.
Bachelor of Commerce (Honours) Semester-IV	Insurance and Risk Management	BCOL-4093	National	Imparts knowledge regarding the functions performed and services provided by the insurance companies in India.
Bachelor of Commerce (Honours)	Marketing Management	BCOL-4094	National \ Global	Marketing strategies are taught to students to be used for national and international

Semester-IV				market operations.
Bachelor of Commerce (Honours) Semester-IV	Goods and Services Tax (GST)	BCOL-4095	National	Helps to understand the indirect taxation mechanism prevailing in India and its implications for the businessman.
Bachelor of Commerce (Honours) Semester-IV	Seminar	BCOS-4096	National \ Global	Helps to develop strong communication skills and enhance knowledge on current topics prevalent at national and international level.
Bachelor of Commerce (Honours) Semester-V	Management Accounting	BCOL-5091	National	It is an amalgamation of financial, cost and management accounting aiming at guiding the potential managers in financial decision making process.
Bachelor of Commerce (Honours) Semester-V	Income Tax	BCOL-5092	National	Provides detailed knowledge regarding latest provisions of Income Tax Act under different heads of income applicable on Indian business organisations.
Bachelor of Commerce (Honours) Semester-V	Operations Research	BCOL-5093	National \ Global	Helps to suggest optimal solution to the complex problems faced by business organisations at national and international level with the overall approach of problem solving.
Bachelor of Commerce (Honours) Semester-V	Financial Management	BCOL-5094	National \ Global	Finance is the key resource to be used in every organisation nationally and globally. It focuses on the strategic techniques to be used for control of cost of finance and generation of maximum returns.
Bachelor of Commerce (Honours) Semester-V	Human Resource Management	BCOL-5095	National \ Global	Knowledge is imparted to students regarding the recruitment and selection process at the national and international level.
Bachelor of Commerce (Honours) Semester-V	Production and Operations Management	BCOL-5096	National \ Global	It teaches how to improve, manage and regulate all the aspects related to production and operations management in

				industries operating in India and abroad.
Bachelor of Commerce (Honours) Semester-V	Workshop on Stock Market	BCOP-5097	National	Students are given knowledge regarding functioning of securities market.
Bachelor of Commerce (Honours) Semester-VI	Internship and Report Writing	BCOI-6091	Local /regional	Students are given exposure to the practical work environment.
Master of Commerce Semester-I	Management Accounting and Control Systems	MCML-1092	National	Helps to learn the techniques of accounting for analysis of financial statements of companies operating in India. It also helps to learn the techniques to control cost.
Master of Commerce Semester-I	Management Principles and Organisation Behaviour	MCML-1093	National \ Global	Helps to apply organisational behaviour concepts, models and theories to real life management situations of business houses operating in India and abroad.
Master of Commerce Semester-I	Business Environment	MCML-1094	National \ Global	Helps to understand the impact of different dimensions of environment (political, legal, social, technological and cultural) on business firms operating at national and international level.
Master of Commerce Semester-I	Statistical Analysis for Business	MCMM-1095	National \ Global	Different tools and techniques are taught to solve the business problems nationally and internationally.
Master of Commerce Semester-I	Seminar	MCMS-1096	National \ Global	Helps to develop strong communication skills and enhance knowledge on current topics prevalent at national and international level.
Master of Commerce Semester-II	Corporate Financial Accounting and Auditing	MCML-2091	National	Apprises the students with the Audit procedures and different types of audit applicable in India.

Master of Commerce Semester-II	Financial Management	MCML-2092	National \ Global	Finance is the key resource to be used in every organisation nationally and globally. It focuses on the strategic techniques to be used for control of cost of finance and generation of maximum returns.
Master of Commerce Semester-II	Human Resource Management	MCML-2093	National \ Global	Knowledge is imparted to students regarding the recruitment and selection process at the national and international level.
Master of Commerce Semester-II	Marketing Management	MCML-2094	National \ Global	Marketing strategies are taught to students to be used for national and international market operations.
Master of Commerce Semester-II	Research Methodology	MCMM-2095	National \ Global	Different tools and techniques are taught to solve the business problems nationally and internationally.
Master of Commerce Semester-III	Banking and Insurance Services	MCML-3091	National	Imparts knowledge regarding the functions performed and services provided by the banks and insurance companies in India.
Master of Commerce Semester-III	Strategic Management	MCML-3092 Option BI	National \ Global	Students are given exposure regarding the formulation, implementation and evaluation of business strategies at national and international level.
Master of Commerce Semester-III	Security Market Operations	MCML-3093 Option BII	National	Students are given knowledge regarding functioning of securities market and regarding the trading at securities market.
Master of Commerce Semester-III	Consumer Behaviour	MCML-3094 Option DI	National \ Global	Helps to understand the behaviour and perceptions of consumers at national and international level.
Master of Commerce Semester-III	Retail Management	MCML-3095 Option DII	National \ Global	Helps the students to learn the functioning of organised and unorganised sectors of retail industry. It also creates awareness among the students regarding the marketing techniques.

Master of Commerce Semester-III	Seminar	MCMS-3096	National \ Global	Helps to develop strong communication skills and enhance knowledge on current topics prevalent at national and international level.
Master of Commerce Semester-IV	Entrepreneurship Development and Project Management	MCML-4091	National \ Global	Students are taught regarding entrepreneurial opportunities at national and international level.
Master of Commerce Semester-IV	International Financial Management	MCML-4093 Option AI	Global	Students will be able to understand real world practices related to international finance.
Master of Commerce Semester-IV	Financial Markets and Financial Services	MCML-4094 Option AII	National	Helps to understand the functioning of the Indian Financial system in present scenario.
Master of Commerce Semester-IV	Corporate Tax Law and Planning	MCML-4095 Option AIII	National	Helps the Indian companies to apply legitimate ways of planning tax while taking different financial decisions.

## Department of Chemistry

Name of Programmes	Name of the Course	Course Code	Focus Local, National, Regional and Global	Description
Master of Science (Chemistry) Semester I	Ligand Field Theory	MCHL-1081	Global	Learn mathematical rules for the formation of symmetry point groups, construct the Character table for various point groups and to determine the symmetry of hybrid orbitals, analyze Tanabe – Sugano /Orgel diagrams and determine the magnetic properties of complexes, analyze and understand the electronic spectra of octahedral and tetrahedral metal complexes.
Master of Science (Chemistry) Semester I	Organic Reaction Mechanism-I	MCHL-1082	Global	Understand the concept and various types of aromaticity and acquire the skills for correct stereochemical assignment and interpretation in simple organic molecules, basics of reaction mechanism and understand the various types of aliphatic electrophilic, nucleophilic substitution reaction and their mechanism, understand the various types of aromatic electrophilic and nucleophilic substitution reaction and their mechanism along with identification and application of various rearrangement reactions.
Master of Science (Chemistry) Semester I	Physical Chemistry – Thermodynamics	MCHL-1083	Global	Calculate change in thermodynamic properties, apply phase rule and draw phase diagrams for three component systems, identify the dependency of temperature and pressure on phase transitions, solve problems based on Debye-Huckel limiting law, calculate excess thermodynamic properties, understand non-equilibrium states, apply Onsager's reciprocity relations and irreversible thermodynamics for biological systems.
Master of Science (Chemistry) Semester I	Spectroscopy A: Techniques for Structure Elucidation of Organic Compounds	MCHL-1084	Global	Know about the Nuclear magnetic resonance spectroscopy. Proton chemical shift, spin-spin coupling, coupling constants and its applications to determine organic structures, understand different cleavage patterns of organic compounds in Mass spectrometry and apply the knowledge for interpretation of the spectrum of an unknown compound and the principle and applications of ultraviolet and apply Woodward Fisher Rule to calculate $\lambda_{max}$ , understand the concepts of

				Vibrational spectroscopy, Vibrational coupling overtones and Fermi resonance and its application in Organic Chemistry, apply NMR, IR, MS, UV-Vis spectroscopic techniques in solving structure of organic molecules and in determination of their stereochemistry.
Master of Science (Chemistry) Semester I	Inorganic Chemistry Practical (Quantitative Analysis)	MCHP-1086	Global	Experimental observation of Inorganic Quantitative Analysis, determine the strength of ions by Oxidation reduction titrations, estimate the amount of ions by precipitation titrations, estimate the amount of ions by complexometric and gravimetric methods.
Master of Science (Chemistry) Semester I	Organic Chemistry Practical	MCHP-1087	Global	Independently perform two step organic synthesis, identify the synthesized compounds by TLC, perform analysis of common analgesic drugs by TLC, extract, identify and characterize the compounds isolated from natural products.
Master of Science (Chemistry) Semester II	Organometallics Chemistry	MCHL-2081	Global	Demonstrate basic principles and illustrate stability of organometallic compounds, identify the structure and bonding aspects of simple organometallic compounds, identify different types of organometallic reactions and apply the above concepts to explain different catalytic reactions, understand the role of pi acid ligands in organometallic chemistry.
Master of Science (Chemistry) Semester II	Organic Reaction Mechanism –II	MCHL-2082	Global	Understand the types, mechanism and factors affecting free radical reactions, apply the knowledge to predict the product of free radical reactions and to obtain an outline about elimination reactions and some specific examples of elimination reactions,; understand the mechanistic and stereochemical aspects of addition to Carbon – Carbon multiple bonds alongwith the reaction and mechanism of some named reactions of this type, understand the mechanism of metal hydride reduction of saturated/ unsaturated organic compounds learn its basic mechanism and to predict the mechanism of condensation reactions involving enolates and reactions involving carbon- carbon bond formation, acquire knowledge about the reagents used for oxidation and reduction of various organic compounds.
Master of Science	Physical Chemistry –	MCHL-2083	Global	Basic idea about quantum chemistry and the mathematics associated with quantum

(Chemistry) Semester II	Quantum Chemistry			statistics including certain aspects of linear algebra, apply this knowledge to atomic structure, solve all the model problems in quantum mechanics for which exact analytical methods and solutions are available and will apply them to analyze the basis behind the postulatory method of quantum mechanics and which forms the foundations for advanced study of the subject.
Master of Science (Chemistry) Semester II	Reaction Mechanisms and Metal clusters	MCHL- 2084	Global	Learn the mechanism of substitution reaction and explain the parameters that affects the crystal structure of a compound, learn the application of electron transfer reactions in chemical kinetics, describe the stability of metal complexes by the use of formation constants And calculate thermodynamic parameters from them, understand the chemistry of inorganic rings, chains and metal clusters.
Master of Science (Chemistry) Semester II	Spectroscopy B: Techniques for Structure Elucidation of Inorganic Compounds	MCHL- 2085	Global	Identify symmetry elements and symmetry operations, determine the rotational spectra of linear molecules, determine IR and raman activity of linear molecules, and understand the principle and spectra interpretation of photoelectron spectroscopy, electron spin resonance spectroscopy, nuclear quadrupole resonance spectroscopy, Mossbauer spectroscopy.
Master of Science (Chemistry) Semester II	Organic Chemistry Practical	MCHP- 2087	Global	Understand and perform multi step organic synthesis, characterize organic molecules by physical and spectroscopic methods like M.P, B.P, and IR, design multistep synthesis, expertise the various techniques of analysis of organic substances.
Master of Science (Chemistry) Semester II	Physical Chemistry Practical	MCHP- 2088	Global	Know about the safety requirements and lab skills required to perform physico-chemical experiments, know the principle and mechanism of Conductometric and pH metric titrations experiments, study distribution of benzoic acid in organic and aqueous solvent, determine specific and molar refraction using Abbe's refractometer.
Master of Scienc (Chemistry) Semester III	Inorganic Chemistry-II	MCHL- 3081	Global	Know about the various metal ions present in our body, their function in body and role in medicine, learn about the different enzymes participating in the chemical reactions inside the body and their functions, study about the different oxygen carriers present in the body with their structure and stereochemistry,

				study in detail about nitrogen fixation reactions and microorganisms involved in nitrogen fixation reactions.
Master of Science (Chemistry) Semester III	Organic Synthesis	MCHL-3082	Global	Understand general mechanistic consideration of organic rearrangements, understand synthesis and reactions of macro ring compounds and fused polynuclear hydrocarbons, study the synthesis and reactions of three, four, six, seven and large membered Heterocycles, know about the use of various reagents in organic synthesis and functional group transformations, understand the basic concepts of supramolecular chemistry.
Master of Science (Chemistry) Semester III	Surface and Polymer Chemistry	MCHL-3083	Global	Concept of adsorption and micelle formation, learn about the different kinetics and thermodynamics of polymerization, learn about the type and classification of polymers, know about the structure, properties and utilization of polymers, study in detail about the glass transition temperature.
Master of Science (Chemistry) Semester III	Electrochemistry and Chemical Dynamics	MCHL-3084	Global	Understand the electrochemistry of solutions, method of determination of electrified interfaces, semiconductor electrolyte solution interface, know theory, monitoring and prevention of corrosion, understand collision theory of reaction rates, arrhenius theory and activated complex theory, Lindemann-Hinshelwood theory, understand various Photochemical reactions, Homogeneous catalysis and kinetics of enzyme reactions, general features and methods of studying fast reactions, interpret spectra and applications of Voltammetry and Polarography.
Master of Science (Chemistry) Semester III	Photochemistry and Pericyclic reactions	MCHL-3085	Global	Classify the pericyclic reactions and explain them under thermal and photochemical conditions, interpret the product of Pericyclic reactions (Cyclo addition, Electrocyclic and sigmatropic Reactions), know the basic concepts of photochemical reactions and determine their reaction mechanisms, apply the knowledge of photochemical reactions of alkenes, carbonyl compounds, aromatic compounds, study named photochemical reactions, photochemistry of smog, polymers and vision.
Master of Science (Chemistry) Semester III	Inorganic Chemistry Practical (Preparations)	MCHP-3086	Global	Plan and Conduct experiments for synthesizing, analysing, identifying and characterizing inorganic compounds, do measurements of magnetic moments of

				synthesized complexes, estimate metal content in the synthesized complex.
Master of Science (Chemistry) Semester III	Physical Chemistry Practical	MCHP-3087	Global	Apply the principle and mechanism of Conductometric and potentiometric titrations, determine the partial molar volume of compounds using Dilatometer, determine specific and molar refractivity using Abbes refractometer, study complex formation and the kinetics of hydrolysis spectrophotometrically, determine the molecular weight of polymers by viscometry.
Master of Science (Chemistry) Semester IV	Advanced Inorganic Chemistry	MCHL-4081	Global	Understand Franck-Condon principle, understand photo substitution reactions, photoredox reactions, photolysis of water, oxidative addition and reductive elimination, migration (Insertion) reaction and cyclometallation reactions, characterise the compound by synthetic methods and know the chemical behaviour and synthetic applications of hydride compounds, understand hydroformylation, Carbonylation reaction, decarbonylation reactions, hydrocyanation Polymerization, oligomerisation and metathesis reactions and oxidation reaction.
Master of Science (Chemistry) Semester IV	Chemistry of Natural Products	MCHL-4082	Global	Study the biosynthetic pathways of natural products, understand the isoprene rule and its role in terpenoids, classify and understand the synthesis and structure of steroids and alkaloids, understand the chemistry of haemin, chlorophyll, prostaglandins and antibiotics, classify and elucidate the structure of carbohydrates like starch and cellulose, determine the structure conformation and properties of proteins, determine the structure of nucleic acids DNA and RNA.
Master of Science (Chemistry) Semester IV	Chemistry of Materials	MCHL-4083	Global	Types of solids, point defects, electrical properties and conduction in metals, reactions in organic solids, photochemical reactions and decomposition and dehydration reactions, explain the properties and applications of different types of polymers, define the factors affecting glass formation, types, properties and applications of different types of glasses, learn glass ceramic compositions, properties and applications ,predict the methods of preparation of smart materials, types of superconductors and their applications.

Master of Science (Chemistry) Semester IV	Advanced Practical-Organic Synthesis	MCHP-4084	Global	Plan and implement advance organic synthesis and reactions , characterize organic molecules by physical and spectroscopic methods like M.P, B.P, and IR, predict the outcome and mechanism of some simple organic reactions, using a basic understanding of the relative reactivity of functional groups, design multistep synthesis.
Master of Science (Chemistry) Semester IV	Advanced Practical-Inorganic Synthesis	MCHP-4085	Global	Apply key concepts of inorganic chemistry and coordination compounds including those related to synthesis, reaction chemistry, and structure and bonding, design the basic and advanced laboratory procedures used in inorganic synthesis including spectroscopic and analytical techniques for identification and characterization of small molecules, learn separation of metal cations by chromatographic techniques.
Master of Science (Chemistry) Semester IV	Advanced Practical-Physical Chemistry	MCHP-4086	Global	Experience the scientific methods employed in basic and applied physical chemistry, design and perform experiments to determine the rate, order, and activation energy of chemical reactions by varying concentrations and/or temperature, measure equilibrium concentrations and equilibrium constants for acid-base, solubility, and complexation reactions given initial concentrations of reactant, develop skills in procedures and instrumental methods like polarography, turbidimetry and spectrophotometry.

Name of Programmes	Name of the Course	Course Code	Focus Local, National, Regional and Global	Description
Bachelor of Computer Applications Semester-I	Applied and Discrete Mathematics	BCAL-1333	Local	The students learn about sets and relations, represents world knowledge in symbolic notation through propositional calculus and understanding the application of boolean algebra to solve problems like minimization, standard form, etc.
Bachelor of Computer Applications Semester-I	Introduction to Programming – C	BCAM-1114	Regional	Understand the working of various programming constructs involved in C Programming, design C program and control its sequence using various control statements. Also, gain knowledge of different programming concepts such as arrays, functions and strings to provide solution in different problem domains.
Bachelor of Computer Applications Semester-I	Introduction to Computers and Information Technology	BCAM-1115	Regional	Gives an overview about computer hardware, operating system and system software. Also, gain knowledge of various I/O, memory devices and basics office automation software to create professional, academic documents, presentations and managing data in a spreadsheet along with its representation through graphs.
Bachelor of Computer Applications Semester-II	Principles of Digital Electronics	BCAL-2113	National	Provide information to apply the number systems and K-map for simplification of boolean expressions, implement them with logic gate and design advanced, complex combinational and sequential circuits. Also, demonstrate the internal structure of semiconductor memory.

Bachelor of Computer Applications Semester-II	Numerical Methods and Statistical Techniques	BCAL-2114	National	Elaborate the steps to solve non-linear and linear equations using different methods, interpolation and numerical integration. Gives an overview to calculate different means and deviations using statistical techniques and correlation, curve fitting and regression for finding solutions to various statistical problems.
Bachelor of Computer Applications Semester-II	Introduction to Object Oriented Programming-I	BCAL-2115	National	Understand the concepts of object-oriented programming, access specifiers and different types of constructors in class. Explain the concepts of function overloading and operator overloading and also gives overview to different types of inheritance and polymorphism.
Bachelor of Computer Applications Semester-III	Foundation of Data Science	BCAL-3111	National	Understand the basic concepts of data science along with its components and process, interpret various data collection tools. Introduce and analyze different application areas and challenges of data science and work with Power BI for visualization of data.
Bachelor of Computer Applications Semester-III	Database Management System	BCAL-3112	National	Understand data, database, and database models and apply relational algebra and relational calculus for performing queries of different types. Also, familiarize students with normalization and transaction control and steps to create, manage and access database using SQL and PL/SQL.

Bachelor of Computer Applications Semester-III	Computational Problem Solving	BCAL-3113	National	Explain basics of Python programming like operators, data types, control structures, etc and applications of list and directories for handling and accessing data through iterations. Implement various built-in and user defined function to solve mathematical problems. Provide basic knowledge about object oriented programming and modules in Python.
Bachelor of Computer Applications Semester-III	Lab on Computational Problem Solving	BCAP-3114	National	Developing various programs on different concepts sets, dictionary, control structures, functions etc. using Python.
Bachelor of Computer Applications Semester-III	Lab on Database Management System	BCAP-3115	National	Solving database queries using SQL.
Bachelor of Computer Applications Semester-IV	Data Structures	BCAL-4111	National	Understanding complexity of algorithms to determine their efficiency and various hashing method, sorting and searching algorithms. Explain different operations of stack and queue along with different scenarios and provides overview of advanced data structures such as tree and graph.
Bachelor of Computer Applications Semester-IV	Information Systems	BCAL-4112	Local	Identify the importance of data and information management. Understanding development life cycle of information systems, identify the components, applications of Management Information System and Decision Support System. Also, elaborate the role of Information System in various organizations.
Bachelor of Computer Applications	Internet Applications	BCAL-4113	National	Elaborate basics of internet and email along with their effective use and

Semester-IV				understanding the development of static webpages using HTML. Also, implementing styling and behavior in pages through the use of CSS and JavaScript and steps to create and manage websites through the application of WordPress content management system.
Bachelor of Computer Applications Semester-IV	Computer Architecture	BCAL-4114	National	Explaining various registers and its micro-operations, computer instructions and basic design of computer. Understand different instruction formats, addressing modes and identify the hierarchy of computer memory and their organization. Details of I/O organization, pipeline and vector processing.
Bachelor of Computer Applications Semester-IV	Lab on Data Structures	BCAP-4115	National	Implementation of various programs on different topics including arrays, sorting, linked list etc. using C++.
Bachelor of Computer Applications Semester-IV	Lab on Internet and Web Designing	BCAP-4116	National	Implementation of programs in HTML, CSS and Javascript using online platform and creation of small websites in the WordPress.
Bachelor of Computer Applications Semester-V	Computer Networks	BCAL-5111	National	Familiarize the students with functionality of each layer of OSI and TCP/IP model and identify various network devices and the layers on which it operates. Also, discuss the Data Link layer and Network layer design issues and the functioning of transport layer and application layer protocols.
Bachelor of Computer Applications Semester-V	Web Technologies	BCAL-5112	National	Provides detail about developing user interface of single page website through React and how to apply PHP as server side scripting language for control of flow,

				file handling, cookie and session handling, database interactions, etc. Also explain the application of XML, AJAX, JQuery and REST and the process of web hosting and incorporation of emerging web technologies.
Bachelor of Computer Applications Semester-V	Operating System	BCAL-5113	National	Explain, contrast and compare different types of Operating System, synchronization policies and CPU scheduling. Also, analyze the memory management and its allocation policies and explaining the utility of virtual memory and disk scheduling.
Bachelor of Computer Applications Semester-V	Object Oriented Programming -II	BCAL-5114	National	Understanding the basic fundamentals of object oriented Programming Java and other concepts as inheritance, interfaces and packages etc. Also, familiarize the students with multithreading, exception handling and connect Java application with an existing database and access it through JDBC.
Bachelor of Computer Applications Semester-V	Lab on Object Oriented Programming- II	BCAP-5115	National	Implementation of various programs on different topics including object and classes, inheritance, exception handling , applets and swings etc.
Bachelor of Computer Applications Semester-V	Lab on Web Technologies	BCAP-5116	National	Development of programs using PHP and React.
Bachelor of Computer Applications Semester-VI	Computer Graphics	BCAL-6111	Regional	Explaining the background mechanism involved in display devices like CRT, LCD, LED, etc.and elaborate concepts involved in drawing basic shapes. Also, implementation of various algorithms and

				techniques to clip and transform various objects and viewports.
Bachelor of Computer Applications Semester-VI	Software Engineering	BCAL-6112	National	Identify various process model used for development of software, analyze gathered data to form requirement specifications and formulate design from this requirement specifications and comprehend activities involved in software project management. Also, apply testing techniques on basic building blocks and control structure of a software.
Bachelor of Computer Applications Semester-VI	Lab on Computer Graphics	BCAP-6113	Regional	Implementation of different programs on different concepts using Turbo C.
Bachelor of Computer Applications Semester-VI	Project	BCAD-6114	National	The Students learn about software engineering paradigms like Process Model, Analysis, Design, Testing, etc. Also, work within defined time and resource constraints while developing real world application and address the real world problems and find the required solution.
Bachelor of Science (INFORMATION TECHNOLOGY) Additional / Optional paper for Specialization in Data Science	Computational Data Science	BCAL-1116	Regional	Explaining the terminology associated with data and it's processing and elaborating different algorithms of polynomial algebra to solve problems, various counting principles, permutations, combinations and averages to solve basic set of problems.
Bachelor of Science (INFORMATION TECHNOLOGY) Additional / Optional paper for Specialization in Data Science	*Statistical Techniques for Data Science	BCAL-2116	National	Understanding the key terminology of descriptive statistics, frequency distribution and comprehend the basic probability terms and their usage, formulate hypothesis for basic problems and perform

				testing and implementing statistical techniques like Chi Square test and Analysis of variance.
Bachelor of Science (Information Technology) Semester – I	Applied and Discrete Mathematics	BITL-1333	Local	The students learn about sets and relations, steps to represents world knowledge in symbolic notation through propositional calculus and understanding the application of boolean algebra to solve problems like minimization, standard form, etc.
Bachelor of Science (Information Technology) Semester – I	Introduction to Programming – C	BITM-1114	Regional	Understand the working of various programming constructs involved in C Programming, design C program and control its sequence using various control statements. Also, gain knowledge of different programming concepts such as arrays, functions and strings to provide solution in different problem domains.
Bachelor of Science (Information Technology) Semester – I	Fundamentals of Computers	BITM-1115	Regional	Gives an overview about computer hardware, operating system and system software. Also, gain knowledge of various I/O, memory devices and basics office automation software to create professional, academic documents, presentations and managing data in a spreadsheet along with its representation through graphs.
Bachelor of Science (Information Technology) Semester – II	Principles of Digital Electronics	BITL-2113	National	Provide information to apply the number systems and K-map for simplification of boolean expressions, implement them with Logic Gate and design advanced, complex combinational and sequential circuits. Also, demonstrate the internal structure of semiconductor memory.

Bachelor of Science (Information Technology) Semester – II	Numerical Methods and Statistical Techniques	BITL-2114	National	Elaborate the steps to solve non-linear and linear equations using different methods, interpolation and numerical integration. Gives an overview to calculate different means and deviations using statistical techniques and correlation, curve fitting and regression for finding solutions to various statistical problems.
Bachelor of Science (Information Technology) Semester – II	Introduction to Object Oriented Programming-I	BITM-2115	National	Understand the concepts of Object-Oriented Programming, access specifiers and different types of constructors in class. Explain the concepts of function overloading and operator overloading and also gives overview to different types of inheritance and polymorphism.
Bachelor of Science (Information Technology) Semester – III	Computational Problem Solving	BITL-3111	National	Explain basics of Python programming like operators, data types, control structures, etc and applications of list and directories for handling and accessing data through iterations. Implement various built-in and user defined function to solve mathematical problems. Provide basic knowledge about object oriented programming and modules in Python.
Bachelor of Science (Information Technology) Semester – III	Data Structures	BITL-3112	National	Understanding complexity of algorithms to determine their efficiency and various hashing method, sorting and searching algorithms. Explain different operations of stack and queue along with different scenarios and provides overview of advanced data structures such as tree and graph.
Bachelor of	System Analysis and	BITL-3113	Regional	Explain process of gather

Science (Information Technology) Semester – III	Design			data to analyze and specify the requirements of a system and comprehend various system analysis and design processes, identify different types of testing and involved documentation and implementation of system along with its maintenance.
Bachelor of Science (Information Technology) Semester – III	Lab on Computational Problem solving	BITP-3114	National	Developing various programs on different concepts sets, dictionary, control structures, functions etc. using Python.
Bachelor of Science (Information Technology) Semester – III	Lab on Data Structures	BITP-3115	National	Implementation of various programs on different topics including arrays, sorting, linked list etc. using C++.
Bachelor of Science (Information Technology) Semester – IV	Database Management System	BITL-4111	National	Understand data, database, database models and apply relational algebra and relational calculus for performing queries of different types. Also, familiarize students with normalization and transaction control and steps to create, manage and access database using SQL and PL/SQL.
Bachelor of Science (Information Technology) Semester – IV	Internet Applications	BITL-4112	National	Elaborate basics of internet and email along with their effective use and understanding the development of static webpages using HTML. Also, implementing styling and behavior in bpages through the use of CSS and JavaScript and steps to create and manage websites through the application of WordPress content management system.
Bachelor of Science (Information Technology) Semester – IV	Object Oriented Programming- II	BITL-4113	National	Understanding the basic fundamentals of object oriented programming Java and other concepts as inheritance, interfaces and

				packages etc. Also, familiarize the students with multithreading, exception handling and connect Java application with an existing database and access it through JDBC.
Bachelor of Science (Information Technology) Semester – IV	E-Business	BITL-4114	Local	The Students learn about the basic terms of E-Commerce, aims, benefits and its models, acquaint about the working and components of EDI. Also, comprehend electronic payment systems, various issues involved in relation to secure electronic transactions, BPR and case studies of E-Business related applications.
Bachelor of Science (Information Technology) Semester – IV	Lab on Database Management System	BITP-4115	National	Solving database queries using SQL.
Bachelor of Science (Information Technology) Semester – IV	Lab on Internet Applications and Web Designing	BITP-4116	National	Implementation of programs in HTML, CSS and Javascript using online platform and creation of small websites in the WordPress.
Bachelor of Science (Information Technology) Semester – IV	Lab on Object Oriented Programming - II	BITP-4117	National	Implementation of various programs on different topics including object and classes, inheritance, exception handling, applets and swings etc.
Bachelor of Science (Information Technology) Semester – V	Computer Networks	BITL-5111	National	Familiarize the students with functionality of each layer of OSI and TCP/IP model and identify various network devices and the layers on which it operates. Also, discuss the Data Link layer and Network layer design issues and the functioning of transport layer and application layer protocols.
Bachelor of Science (Information Technology)	Web Technologies	BITL-5112	National	Provides detail about developing user interface of single page website through

Technology) Semester – V				React and how to apply PHP as server side scripting language for control of flow, file handling, cookie and session handling, database interactions, etc. Also explain the application of XML, AJAX, JQuery and REST and the process of web hosting and incorporation of emerging web technologies.
Bachelor of Science (Information Technology) Semester – V	Operating System	BITL-5113	National	Explain, contrast and compare different types of operating System, synchronization policies and CPU scheduling. Also, analyze the memory management and its allocation policies and explaining the utility of virtual memory and disk scheduling.
Bachelor of Science (Information Technology) Semester – V	Lab on Web Technologies	BITP-5114	National	Development of programs using PHP and React.
Bachelor of Science (Information Technology) Semester – V	Lab on Operating System	BITP-5115	National	Impemenation of CPU scheduling, disk scheduling and deadlock algorithms using C++.
Bachelor of Science (Information Technology) Semester – VI	Computer Graphics	BITL-6111	Local	Explaining the background mechanism involved in display devices like CRT, LCD, LED, etc.and elaborate concepts involved in drawing basic shapes. Also, implementation of various algorithms and techniques to clip and transform various objects and viewports.
Bachelor of Science (Information Technology) Semester – VI	Digital Marketing	BITL-6112	Global	Identify impact of digital space and digital marketing in reaching out to customers. Comprehend importance of keywords in search engine optimization and outline

				factors affecting social media marketing and importance of tools and analytics in social media marketing.
Bachelor of Science (Information Technology) Semester – VI	Lab on Computer Graphics	BITP-6113	National	Implementation of different programs on different concepts using Turbo C.
Bachelor of Science (Information Technology) Semester – VI	Project	BITD-6114	National	The Students learn about software engineering paradigms like Process Model, Analysis, Design, Testing, etc. Also, work within defined time and resource constraints while developing real world application and address the real world problems and find the required solution.
Bachelor of Science (Information Technology) Semester – I	*Computational Data Science	BITL-1116	Regional	Explaining the terminology associated with data and it's processing and elaborating different algorithms of polynomial algebra to solve problems, various counting principles, permutations, combinations and averages to solve basic set of problems.
Bachelor of Science (Information Technology) Semester II	*Statistical Techniques for Data Science	BITL-2116	National	Understanding the key terminology of descriptive statistics, frequency distribution and comprehend the basic probability terms and their usage, formulate hypothesis for basic problems and perform testing and implementing statistical techniques like Chi Square test and Analysis of variance.
Bachelor of Science (Information Technology) Semester – III	*Data Visualization	BITL-3116	National	Elaborate the importance and applications of data visualization. Acquaint with categories of data visualization tools and details to apply basic and specialized visualization

				tools for representation of data.
Bachelor of Science (Information Technology) Semester IV	* Foundation of Statistical Computing	BITM-4118	National	Gain knowledge of basics of Statistical Computing, management of data structures like vector, matrix etc and way to create, operate and manage lists and data frames and apply control and I/O statements for generating outputs and simulate various descriptive and analytical algorithms using R language along with their visualization.
Bachelor of Science (Information Technology) Semester V	* Data Mining and Data Warehousing	BITL-5116	Local	Familiarize the learners with data mining, knowledge discovery, process and applications of data mining. Identify various data mining techniques along with classification of data and analyze architecture of data warehouse. Also, elaborate various types of data warehouse, tools and technologies used.
Bachelor of Science (Information Technology) Semester VI	* Data Mining Tool	BITM-6115	National	Comprehend the concept of data set and confusion matrix and implement it in WEKA tool, data pre-processing tasks and association rule mining on data sets. Apply learned techniques to perform classification on data sets and learnt techniques to perform clustering of data sets.
Diploma in Computer Applications Semester I	Information Technology and Operating System	DCAM-1111	National	Provides knowledge about components and software of computer system, network communication Internet.
Diploma in Computer Applications Semester I	PC Computing - I (Back-Office Operations)	DCAM-1112	Local	Familiarize the students with back end operations of an office which includes documentation and presentation skills.
Diploma in Computer	Database Management System	DCAM-2111	National	Provides knowledge about database models, design of

Applications Semester II				database and implementation of queries in SQL.
Diploma in Computer Applications Semester II	PC Computing - II (Professional DTP)	DCAM-2112	National	Students are able to get knowledge about the designing skills using tools like Photoshop and CorelDraw.
Master of Science (Information and Network Security) Semester III	Cyber Incident Handling and Reporting	MINL-3111	Local	Familiarize the students regarding handling of system security related incidents and the implementation of different incident handling tools.
Master of Science (Information and Network Security) Semester III	Cloud Computing and its Security	MINL-3112	National	The students learn about cloud models, virtualization under cloud models, cloud security model and identification of various cloud service provider. Also the students learn about the application of different security tools and technologies.
Master of Science (Information and Network Security) Semester III	Proactive Security Tools and Technology	MINL-3113	National	Get the knowledge about the working of different honeypots alongwith the implementation of proactive security tools using various commands.
Master of Science (Information and Network Security) Semester III	Penetration Testing and Auditing	MINL-3114	National	Implementation of penetration testing in routers, firewalls, IDS, social engineering and Password cracking along with testing report
Master of Science (Information and Network Security) Semester III	Cryptography and Network Security	MINL-3115	Global	Analyze the performnce of clssical and public key cryptograhly techniques. Also evaluate the authentication using hash algorithms.
Master of Science (Information and Network Security) Semester III	Lab on Penetration Testing and Virtualization	MINP-3116	National	Implementation of penetration testing tools.
Master of Science (Information and Network Security) Semester IV	Intrusion Detection System	MINL-4111	Local	Learn about the importance of Intrusion Detection system alongwith its methologies.
Master of Science	Reverse Engineering	Minl-4112	National	Learns about the

(Information and Network Security) Semester IV	and Malware			methodology of Reverse Engineering Malware, use of resources for detection of malware and apply tools for examination, analysis and mitigation of malware attack.
Master of Science (Information and Network Security) Semester IV	Ethical Hacking	MINL-4113	Global	The students learn about hacking techniques Sniffing Traffic, DNS and IP Sniffing, HTTPS Sniffing, WLAN Sniffers and tools used in hijacking.
Master of Science (Information and Network Security) Semester IV	Blockchain for Enterprise Applications	MINL-4114	Global	Familiarize about the role of blockchain and implementation of blockchain in bitcoin. The students also became aware about the components and networking model of Ethereum.
Master of Science (Information and Network Security) Semester IV	Major Project / Dissertation	MIND-4115	Global	The students perform the dissertation / project work on tools implementation.
Master of Science (Computer Science) Semester I	Advanced Data Structures	MCSL-1111	National	Familiarize the students with the Design, analyze and implement algorithms and check their performances against specified parameters. Also the students perform searching, sorting and hashing algorithms
Master of Science (Computer Science) Semester I	Advanced Computer Architecture	MCSL-1112	National	Gain knowledge of parallel computing models, architectural classifications of computers and Analyse pipelined architecture against parameters like throughput, speedup, efficiency, etc.
Master of Science (Computer Science) Semester I	Network Security Practices	MCSL-1113	National	Understand basics of cryptography, network security, services, mechanisms and defining various terms as vulnerability, threat and attack.
Master of Science	Discrete Structures	MCSL-1114	National	Understand and construct

(Computer Science) Semester I				simple mathematical proofs of important principles like Pigeonhole principle, Inclusion-Exclusion Principle, Combinational structures and boolean algebra.
Master of Science (Computer Science) Semester I	Artificial Intelligence	MCSL-1115	Global	Understand various search strategies used in AI for finding solution to a problem, planning in AI in different scenario and basics of fuzzy logic, neural networks etc.
Master of Science (Computer Science) Semester I	Lab on Advanced Data Structures	MCSP-1116	National	Implementation of various algorithms using C++.
Master of Science (Computer Science) Semester II	Theory of Computation	MCSL-2111	Regional	Understand grammars in Chomsky hierarchy and their closure properties, define production rules for Context Free Grammar (CFG), Convert CFG into Chomsky and Greibach Normal Form and construct computing machines like Finite Automata, Pushdown Automata, Turing machine, etc.
Master of Science (Computer Science) Semester II	Image Processing	MCSL-2112	Local	Identify current applications in the field of digital image processing along with its basics and learn fundamental concepts of Digital Image Processing like human visual system model, image signal representation, imaging system specification.
Master of Science (Computer Science) Semester II	Advanced Programming Concepts	MCSL-2113	National	Understanding the fundamentals of Java Programming and apply OOPs concepts to model real world problems for its simplified implementation.
Master of Science (Computer Science) Semester II	Cloud Computing	MCSL-2114	National	Identify the architecture and infrastructure of various Cloud services and deployment models. Also identify the application of programming

				and security model in cloud computing.
Master of Science (Computer Science) Semester II	Distributed Database Systems	MCSL-2115	National	Translate global queries into fragment queries by following different equivalence transformation rules for queries and learn about query optimization.
Master of Science (Computer Science) Semester II	Lab on Advanced Programming Concepts	MCSP-2116	National	Implementation of Programs in Java language.
Master of Science (Computer Science) Semester III	Data Mining and Data Warehousing	MCSL-3111	Local	Understand the basic concepts, need of data mining and procedure for data preprocessing and comprehend various data mining and clustering techniques.
Master of Science (Computer Science) Semester III	System Software	MCSL-3112	Local	Study and analyse various components of system software like translators, loaders, interpreters, compilers, assemblers etc.
Master of Science (Computer Science) Semester III	Advanced Web Technologies	MCSL-3113	National	Implementation of standard, form and validation controls. Work on graphical layouts of website and create master page and database connection.
Master of Science (Computer Science) Semester III	Design and Analysis of Algorithms	MCSL-3114	Global	Analyse performance and complexity of various algorithms including Greedy approach, dynamic programming, backtracking etc.
Master of Science (Computer Science) Semester III	Software Testing	MCSL-3115	National	Familiarize the students with fundamental concepts in testing and analyzing various software testing techniques. The student perform test planning and debugging.
Master of Science (Computer Science) Semester III	Lab on Advanced Web Technologies	MCSP-3116	National	Implementation of web technologies using ASP.net platform.
Master of Science (Computer Science) Semester IV	Advanced Software Engineering	MCSL-4111	National	Comprehend Quality Assurance and Control through application of various quality models, software risk and

				configuration management.
Master of Science (Computer Science) Semester IV	Microprocessor and its Applications	MCSL-4112	National	Comprehend block structure of microprocessor along with its components, architecture and memory interface of 8086 and 8088 microprocessors.
Master of Science (Computer Science) Semester IV	Foundation of Statistical Computing	MCSL-4113	National	Understand basics of Statistical Computing and managing data structures like vector, matrix, etc.
Master of Science (Computer Science) Semester IV	Lab on Foundation of Statistical Computing	MCSP-4114	National	Implementation of functions, creating list, data frames, tables, factors etc in R Programming Language.
Master of Science (Computer Science) Semester IV	Project Work	MCSL-4115	National	Development of a project using any language along with the documentation. It develops the presentation skills of the student.
Bachelor of Arts / Bachelor of Science (Computer Science) Semester I	Computer Fundamentals and PC Software	BCSM-1134 BECM-1134 BARM-1134	National	Learning about computer hardware, operating system concepts and system software. Apply office automation software to create professional and academic documents and presentations.
Bachelor of Arts / Bachelor of Science (Computer Science) Semester II	Programming in C	BCSM-2134 BECM-2134 BARM-2134	National	Understand the working of various programming constructs involved in C Programming. Apply programming concepts such as arrays, functions and strings to provide solution in different problem domains.
Bachelor of Arts / Bachelor of Science (Computer Science) Semester III	Computer Oriented Numerical And Statistical Methods	BCSM-3134 BECM-3134 BARM-3134	National	Learning to Solve non-linear and linear equations using different methods. Comprehend interpolation and numerical integration.
Bachelor of Arts / Bachelor of Science (Computer Science) Semester IV	Data Structures	BCSM-4134 BECM-4134 BARM-4134	Global	Analyze complexity of algorithms to determine their efficiency. Comprehend various sorting and searching algorithms.

				Comprehend advanced data structures such as tree and graph.
Bachelor of Arts / Bachelor of Science (Computer Science) Semester V	Database Management System	BCSM-5134 BECM-5134 BARM-5134	Global	Understanding data, database and database models. Apply relational algebra and relational calculus for performing queries of different types. Create, manage and access database using SQL and PL/SQL.
Bachelor of Arts / Bachelor of Science (Computer Science) Semester VI	Information Technology	BCSM-6134 BECM-6134 BARM-6134	Global	Describing the functions of each layer in OSI and TCP/IP model. Identify various network devices and the layers on which it operates. Understand various Digital Marketing Concepts and Social Media.
Bachelor Commerce Semester I	Computer Fundamentals	BCRM-1127	National	The students learn about comprehend about computer hardware and Storage Devices. Apply office automation software to create professional and academic documents and presentations. Create Spreadsheets.
Bachelor Commerce (Honours) Semester I	Workshop on Office Package	BCOP-1127	National	Understand various Word Processing Tools, Insert Tables, Graphs, Watermark. Create spreadsheets with different formulas. Apply office automation software to create professional and academic documents and presentations.
Bachelor of Business Administration Semester I	Computer Applications for Business- I	BBRM-1127	National	Learning about comprehend about computer hardware, operating system concepts and various system software. Apply office automation software to create professional and academic documents and

				presentations.
Bachelor of Science (Fashion Designing) Semester I	Basics of Computer	BFDM-1126	National	Learning Hardware, memory, Input/Output Devices. Creating Documents in Words. Uses of Computer in Fashion Designing.
Bachelor of Science (Honours) Physics Semester III	Python Pro.gramming	BOPM-3135	Global	Comprehend basics of Python programming like operators, data types, control structures, etc. Apply list and directories for handling and accessing data through iterations. Build-in Functions and Modules in python.
Bachelor of Science (Home Science) Semester I	Computer Basics	BHSM-1127	National	Comprehend about computer hardware, operating system concepts and various system software. Apply office automation software to create professional and academic documents and presentations. Learn Internet, Search Engines and E-mail.
Bachelor of Science (Home Science) Semester II	Computer Applications for Home Scientists	BHSM-2127	National	Learning Creating Spreadsheets, applying Formulas. Searching Content on Internet. Comprehend basics of WWW. Learn basics and architecture of E-Business, Online Payment Methods, Multimedia, Youtube Studio and Blog Writing.
Bachelor of Science (Honours) Mathematics Semester II	Computer Fundamentals and Introduction to C Programming	BOMM-2137	National	Understand Hardware, Memory, Storage Devices and Software. Understand the working of various programming constructs involved in C Programming. Apply programming concepts such as arrays, functions and strings to provide solution in different problem domains.

Bachelor of Science (Honours) Mathematics Semester III	Python Programming	BOMM-3135	Global	Comprehend basics of Python programming like operators, data types, control structures, etc. Apply list and directories for handling and accessing data through iterations. Build-in Functions and Modules in python.
Bachelor of Science (Honours) Mathematics Semester IV	Foundation of Statistical Computing	BOMM-4135	Global	Comprehend basics of Statistical Computing and managing data structures like vector, matrix, etc. Create, operate and manage lists and data frames. Apply control and I/O statements for generating outputs.
Master of Commerce Semester - IV	E - Commerce	MCML-4122	Global	Basics of E-Commerce, tools, Advantages, goals and Scope. Comprehend Electronic Business Models. Learn various online Payment Methods. Security and Legal Aspects of E-Commerce.
Master of Science (Chemistry) Semester I	Computer for Chemists	MCHM-1135	National	Understand the working of various programming constructs involved in C Programming. Apply programming concepts such as arrays, functions and strings to provide solution in different problem domains.
Master of Science (Zoology) Semester I	Computer Programming & Data Processing	MZOM-1135	National	The students learn about computer hardware, operating system concepts and various system software. Learn office automation softwares. Understand the working of various programming constructs involved in C Programming.
Master of Arts (Economics) Semester – II	Computer Applications for Economists	MECM-2125 (OPT- XI)	National	The students learn about computer hardware and Storage Devices. Apply office automation software to create professional and

				academic documents and Spreadsheets. Comprehend use of SPSS.
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### Department of Cosmetology

Name of the Prgrammes	Name of the Course	Course Code	Focus Local, National, Regional and Global	Description
Diploma in Cosmetology Semester I	Paper - 1	DCYL-1141	Global	Cosmetology is the study and application of beauty treatment. It is the science which focuses on making people look good.
Diploma in Cosmetology Semester I	Paper – 2	DCYL-1142	Global	It provides knowledge of hair which helpful for become hairdresser.
Diploma in Cosmetology Semester I	Paper – 3	DCYL-1143	Global	Exlpain the massages and different makeups and facials.
Diploma in Cosmetology Semester I	Paper – 4	DCYL-1144	Global	Introduce and elaborate hair care, hair cuts and yoga asanas.
Diploma in Cosmetology Semester II	Paper – 1	DCYL-2141	Global	Gives knowledge of hand and feet care, different makeups and care of eyes.
Diploma in Cosmetology Semester II	Paper – 2	DCYL-2142	Global	Introduce chemical hair treatments and color applications.
Diploma in Cosmetology	Paper – 3	DCYL-2143	Global	Describe all eye makeups, eye shapingSkin treatments to make

Semester II				a professional makeup artist.
Diploma in Cosmetology Semester II	Paper - 4	DCYL-2144	Global	Provide knowledge of planning of salon and plaits. Hair styles and hair buns.
Bachelor of Arts Semester I	Cosmetology (Vocational)	BARM-1147	Global	Introduce the basic knowledge of skin, skin problems and personal hygiene.
Bachelor of Arts Semester II	Cosmetology (Vocational)	BARM-2147	Global	Structure of nail and diseases, planning of wardrobe and yoga asana.
Bachelor of Arts Semester III	Cosmetology (Vocational)	BARM-3147	Global	Introduce the basic knowledge of hair, health and diet.
Bachelor of Arts Semester IV	Cosmetology (Vocational)	BARM-4147	Global	Provide chemical knowledge of hair and colour principles.
Bachelor of Arts Semester V	Cosmetology (Vocational)	BARM-5147	Global	Provide methods of sterilization and sanitations and chemical treatments of hair.
Bachelor of Arts Semester VI	Cosmetology (Vocational)	BARM-6147	Global	Provides knowledge of salon management and safety precautions.
Bachelor of Vocation ( Beauty & Wellness) Semester I	Sterilization, Hygiene and Sanitation	BVBL-1143	Global	Provides knowledge of safety for salon and work station.
Bachelor of Vocation ( Beauty & Wellness) Semester I	Anatomy of Skin and Hair	BVBM-1144	Global	Provides basic knowledge of Cosmetology.
Bachelor of Vocation ( Beauty & Wellness) Semester I	Fundamentals of Spa	BVBM-1145	Global	Describe full body spa and origin of spa.
Bachelor of Vocation ( Beauty & Wellness) Semester I	Skin Care	BVBP-1146	Global	Provides knowledge of basic skin care regime & hand and feet care.
Bachelor of Vocation ( Beauty & Wellness) Semester I	Fashion and Basic Makeup	BVBP-1147	Global	Provides knowledge of different types of make ups.
Bachelor of Vocation ( Beauty & Wellness) Semester I	Internship and Report	BVBI-1148	Global	Full practice of skin therapies in a Salon.

Bachelor of Vocation ( Beauty & Wellness) Semester II	Health and Safety in the Workplace	BVBL-2143	Global	Provides knowledge of personal hygiene and salon management.
Bachelor of Vocation ( Beauty & Wellness) Semester II	Beauty and Personality Development	BVBM-2144	Global	Provides knowledge of personal grooming and structure of nail.
Bachelor of Vocation ( Beauty & Wellness) Semester II	Fashion Makeover	BVBP-2145	Global	Provides advance knowledge of Makeups.
Bachelor of Vocation ( Beauty & Wellness) Semester II	Photographic Make-up	BVBP-2146	Global	Describe all application techniques of advance makeup.
Bachelor of Vocation ( Beauty & Wellness) Semester II	Internship and Report	BVBI-2147	Global	Full hands on practice of Makeup techniques in salon.
Bachelor of Vocation ( Beauty & Wellness) Semester III	Histology of Hair	BVBL-3141	Global	Describe knowledge of anotomy of hair.
Bachelor of Vocation ( Beauty & Wellness) Semester III	Knowledge of Hair Bond	BVBL-3142	Global	Provides advance knowledge of chemical structure of hair.
Bachelor of Vocation ( Beauty & Wellness) Semester III	Salon Management	BVBL-3143	Global	Provide knowledge of salon management and ownership.
Bachelor of Vocation ( Beauty & Wellness) Semester III	Techniques of Hair Texturing	BVBP-3144	Global	Provides knowledge of all types of hair cuts.
Bachelor of Vocation ( Beauty & Wellness) Semester III	Hair Coloring	BVBP-3145	Global	Gives full practical of all types of hair coloring techniques.
Bachelor of Vocation ( Beauty & Wellness) Semester III	Assemblage Management	BVBP-3146	Global	Create models of salon.
Bachelor of Vocation ( Beauty & Wellness) Semester III	Internship and Report	BVBI-3147	Global	Full hands on practice of chemical work in hair.
Bachelor of Vocation ( Beauty & Wellness) Semester IV	Care of Scalp and Hair	BVBL-4141	Global	Provides knowledge of scalp treatments.

Bachelor of Vocation ( Beauty & Wellness) Semester IV	Hair Coloring and Bleaching	BVBL-4142	Global	Describe knowledge of hair Colouring and Tinting.
Bachelor of Vocation ( Beauty & Wellness) Semester IV	Superflous Hair	BVBM-4143	Global	Provides knowledge of Epilation and Depilation methods.
Bachelor of Vocation ( Beauty & Wellness) Semester IV	Hair Styling	BVBP-4144	Global	Describe different techniques of hair and Wigs setting.
Bachelor of Vocation ( Beauty & Wellness) Semester IV	Chemical Hair Relaxing	BVBP-4145	Global	Provides knowledge of hair treatments and chemical hair relaxing.
Bachelor of Vocation ( Beauty & Wellness) Semester IV	Advance Hair Treatment	BVBP-4146	Global	Provides full knowledge of advance hair treatments.
Bachelor of Vocation ( Beauty & Wellness) Semester IV	Internship and Report	BVBI-4147	Global	Full hands on practice of hair styling in a salon.
Bachelor of Vocation ( Beauty & Wellness) Semester V	Chemical Hair Procedures	BVBL-5141	Global	Provides knowledge of permanent hair straightening.
Bachelor of Vocation ( Beauty & Wellness) Semester V	Therapeutic Massage	BVBL-5142	Global	Provides deeply knowledge of therapeutic massages and aromatherapy.
Bachelor of Vocation ( Beauty & Wellness) Semester V	Electrical and Chemical Treatment	BVBL-5143	Global	Provides knowledge of chemical peels and electrical treatments.
Bachelor of Vocation ( Beauty & Wellness) Semester V	Fundamentals of Beauty	BVBP-5144	Global	Provides practical knowledge of basic beauty therapies.
Bachelor of Vocation ( Beauty & Wellness) Semester V	Massage Therapy	BVBP-5145	Global	Provides knowledge of all kind of body massages.
Bachelor of Vocation ( Beauty & Wellness) Semester V	Skin Treatments and Peeling	BVBP-5146	Global	Provides full practical knowledge of skin treatments and peeling for different skin problems.
Bachelor of Vocation ( Beauty & Wellness) Semester V	Internship and Report	BVBI-5147	Global	All practicals are done in salon about body therapy and treatments.

Bachelor of Vocation ( Beauty & Wellness) Semester VI	Entrepreneurship	BVBL-6141	Global	Provides knowledge of entrepreneurship skills.
Bachelor of Vocation ( Beauty & Wellness) Semester VI	Human Resourse Management	BVBL-6142	Global	Provides knowledge of job analysis and design.
Bachelor of Vocation ( Beauty & Wellness) Semester VI	Merchandising and Retailing	BVBL-6143	Global	Provide knowledge of Retail product promotion.
Bachelor of Vocation ( Beauty & Wellness) Semester VI	Concept Development	BVBP-6144	Global	Description of portfolio completion and presentation.
Bachelor of Vocation ( Beauty & Wellness) Semester VI	Computer Application	BVBP-6145	Global	Provides knowledge of adobe photoshop and coral draw.
Bachelor of Vocation ( Beauty & Wellness) Semester VI	Internship and Report	BVBI-6146	Global	Full practical knowledge for job role and presentation.
Master of Arts (Cosmetology) Semester I	Anatomy and Physiology of Skin	MCYM-1141	Global	Provides knowledge of structure of skin and problems of skin.
Master of Arts (Cosmetology) Semester I	Beauty and Wellness	MCYM-1142	Global	Provides full practical knowledge of Aerobics, Yoga asans and Meditation techniques.
Master of Arts (Cosmetology) Semester I	Massage	MCYM-1143	Global	Provides practical and theoretical knowledge of all types and techniques of Massage.
Master of Arts (Cosmetology) Semester I	Skin Care	MCYM-1144	Global	Provides knowledge of skin care treatments and benefits.
Master of Arts (Cosmetology) Semester II	Trichology	MCYM-2141	Global	Provides knowledge of structure of hair and shampooing and conditioning.
Master of Arts (Cosmetology) Semester II	Playing with Hair Colours	MCYM-2142	Global	Provides all Practical and Theoretical knowledge of different hair colors and mixing techniques.
Master of Arts (Cosmetology)	Reflexology	MCYM-	Global	Provides knowledge of accupressure and reflexology

Semester II		2143		techniques.
Master of Arts (Cosmetology) Semester II	Hair Grooming	MCYM-2144	Global	Provides knowledge of all types of hair cuts and chemical hair treatments and hair styling.
Master of Arts (Cosmetology) Semester III	Bussiness Management	MCYL-3141	Global	Provides knowledge of space and equipment in salon and financial management.
Master of Arts (Cosmetology) Semester III	Advance Therapies for Skin and Health	MCYM-3142	Global	Provides practical and theoretical knowledge of different therapies and ayurvedic spa therapy.
Master of Arts (Cosmetology) Semester III	The Magic of Massage	MCYM-3143	Global	Provides full knowledge of all types of massages for whole body.
Master of Arts (Cosmetology) Semester III	Maquillage Technique	MCYM-3144	Global	Provides knowledge of all kinds of makeup and false eyelashes.
Master of Arts (Cosmetology) Semester IV	Hand and Feet Care	MCYM-4141	Global	Describe nail structure and manicure & pedicure methods.
Master of Arts (Cosmetology) Semester IV	Therapeutic Nutrition	MCYM-4142	Global	Provides knowledge of Nutritional status and development recipies.
Master of Arts (Cosmetology) Semester IV	Ayurvedic Products for Skin and Hair	MCYM-4143	Global	Provides full practical and theoretical knowledge of ayurvedic products for skin and hair.
Master of Arts (Cosmetology) Semester IV	Internship and Report	MCYI-4144	Global	Overall training in Skin, hair, nail and body in a professional salon.

## Department of Economics

<b>Name of Programmes</b>	<b>Name of the Course</b>	<b>Course Code</b>	<b>Focus Local, National, Regional, and Global</b>	<b>Description</b>
Master of Arts (Economics) Semester-I	Microeconomics-I	MECL-1171	National, Local	The concepts and theories can be of use at national and local level to study the consumers' and producers' behaviour.
Master of Arts (Economics) Semester-I	Macroeconomics-I	MECL-1172	National	The concepts and theories are of national importance to learn consumption, Investment and overall equilibrium and structure of the economy.
Master of Arts (Economics) Semester-I	Quantitative Methods for Economists-I	MECL-1173	Global	To give exposure of working with quantitative measurements in economics.
Master of Arts (Economics) Semester-I	Money, Banking and Finance (Opt -IV)	MECL-1174(OPT-__)	Global, National	It deals with concepts and theories of banking and money which can be helpful to analyse the process of generation of credit and money.
Master of Arts (Economics) Semester-I	Economics of Agriculture (Opt- IX)	MECL-1175(OPT-__)/ MECM-1125 (OPT- XI)	Global, National, local	It deals with concepts and policies of sustainability of agriculture and food security at national and global level.

Master of Arts (Economics) Semester-II	Microeconomics-II	MECL-2171	National, local	It studies the distribution of income generated by factors production and welfare involve theories.
Master of Arts (Economics) Semester-II	Macroeconomics-II	MECL-2172	National, Global	The concepts and theories are of national and global importance as it studies of the static and dynamic equilibrium conditions of the economy.
Master of Arts (Economics) Semester-II	Quantitative Methods for Economists-II	MECL-2173	Global, National, Local	It involves the learning of basic tools of statistics used at all levels and for all branches of knowledge
Master of Arts (Economics) Semester-II	Public Finance (Opt -I)	MECL-2174 (OPT-__)	National	It deals with concepts and theories of government finances at national level.
Master of Arts (Economics) Semester-II	Computer Applications for Economists (Opt - IX)	MECL-2175 (OPT-__)/ MECM-2125 (OPT- XI)	Global, National ,Local	It involves the basic knowledge operating systems and programming which are universal to all the levels and branches of knowledge.
Master of Arts (Economics) Semester-II	Economics of Labour (OPT - II)	MECL- 2176(OPT-__)	National,Global	It deals with concepts and theories of labour problems and wages laws at global and national level.
Master of Arts (Economics) Semester-II	Field Work and Report Writing	MECL-2177	Local	Focus to make students learn the problems and technicalities of data collection. Further to understand various problems and issues faced by the different communities.
Master of Arts (Economics) Semester-III	Economics of Development	MECL-3171	National,Global	The concepts and theories are of great importance to learn strategies economic development.
Master of Arts (Economics) Semester-III	International Economics-I	MECL-3172	National, Global	The concepts and theories are of national and global importance as it involves international economic relations, conditions of international trade and exchange rate viz a viz other currencies.

Master of Arts (Economics) Semester-III	Indian Economy	MECL-3173	National	The content of this paper is associated with problems and policies related to different sectors of Indian economy.
Master of Arts (Economics) Semester-III	Theory of Statistics (Opt -III)	MECL-3174(OPT-__)	Global, National, Local	It involves the learning of basic concepts and tools of statistics used at all levels and all different branches of knowledge
Master of Arts (Economics) Semester-III	Industrial Economics (Opt -V)	MECL-3175(OPT-__) MECD-3175 (OPT-XV)	Local, National	The content of this paper is associated with the problems and theories of Industrial setup at local and national level.
Master of Arts (Economics) Semester-IV	Economics of Planning	MECL-4171	National	The concepts and theories are of national importance to learn strategies theories of economic planning.
Master of Arts (Economics) Semester-IV	International Economics-II	MECL-4172	Global	The concepts and theories are of global importance as it involves international economic relations, conditions of international trade and exchange rate viz a viz other currencies.
Master of Arts (Economics) Semester-IV	Punjab Economy	MECL-4173	local	The content of this paper is associated with problems and policies related to different sectors of Punjab economy.
Master of Arts (Economics) Semester-IV	Econometrics (Opt - VII)	MECL-4174(OPT-__)	Global, National, Local	It involves the learning of basic concepts and tools of statistics and econometrics used at all levels and all different branches of knowledge
Master of Arts (Economics) Semester-IV	Economics of Public Enterprises (Opt - X)	MECL-4175(OPT-__) MECD -4175 (OPT-XV)	Local, National	The content of this paper is associated with the problems and theories of industrial setup at local and national level.
Master of Commerce Semester-I	Managerial Economics	MCML-1171	Local and National	The concepts and theories can be of use at national and local level to study the consumers' and producers' behaviour. Further, the concepts and theories are also of national importance

				to learn determinants of consumption, Investment and inflation.
Bachelor of Vocation (Retail Management) Semester II	Managerial Economics	BVRL-2325	National, Local	The concepts and theories of this subject can be of use at national and local level to study the consumers' and producers' behaviour.
Bachelor of Science (Honours) Mathematics Semester I	<sup>4</sup> Physical Chemistry or <sup>3</sup> Micro Economics-I	BOMM-1085 or BOML-1175	National and Local	The concepts and theories are of national and local importance as students learn the consumers' and producers' behaviour.
Bachelor of Science (Home Science) Semester IV	Consumer Economics	BHSL-4172	Local, National	The concept are of use to consumers at local and national level as these are associated with consumer awareness and protection. Further, some concepts are relevants for entrepreneurs at all levels.
Bachelor of Science (Home Science) Semester III	Basic Concepts of Economics	BHSL-3172	Local, National	It involves the learning of consumer behaviour and various of schemes of financial institutions related savings, credit and insurance
Bachelor of Arts/ BACHELOR OF SCIENCE with Additional / Optional Course in Banking (Semester-I)	Banking (Banking and Basic Operations)	BARL-1026 / BECL-1026	National	It deals with concepts and growth of banking and money in India which can be helpful to analyse the process of generation of credit and money.
Bachelor of Arts/ BACHELOR OF SCIENCE with Additional / Optional Course in Banking	Banking (Reasoning and Mental Ability)	BARL-2026 / BECL-2026	Global, National and Local	The concepts of reasoning and mental ability are used to enhance the decision making at all levels.

(Semester-II)				
Bachelor of Arts/ BACHELOR OF SCIENCE with Additional / Optional Course in Banking (Semester-III)	Banking ( General Awareness)	BARL-3026 /BECL-3026	National	The paper deals with general awareness of major branches of social sciences at national level.
Bachelor of Arts/ BACHELOR OF SCIENCE with Additional / Optional Course in Banking (Semester-IV)	Banking (Financial Markets and Institutions)	BARL-4026 /BECL-4026	National	The paper deals with working of Indian financial institutions and their credit creation.
Bachelor of Arts/ BACHELOR OF SCIENCE with Additional / Optional Course in Banking (Semester-V)	Banking (Basic Accounting)	BARL-5026/ BECL-5026	Global, National and Local	The concepts of basic accounting are of importance at national, local and global level as these are used by consumers, business houses, bankers and government.
Bachelor of Arts/ BACHELOR OF SCIENCE with Additional / Optional Course in Banking Semester-VI	Banking (Quantitative Aptitude)	BARL-6026/ BECL-6026	Global, National, Local	The concepts of quantitative aptitude are used to enhance the analytical skills at all levels.

Bachelor of Arts/Bachelor of Science (Economics) Semester III, IV	Money and Banking (Opt-I)	BARL3609/ BEC L-3607 (OPT-__)	National	It deals with concepts and theories of banking and money which can be helpful to analyse the process of generation of credit and money.
Bachelor of Arts/Bachelor of Science (Economics) Semester III, IV	International Economics (Opt-IV)	BARL4609/ BECL-4607 (OPT-__)	Global	The concepts and theories are of national and global importance as it involves international economic relations, conditions of international trade and exchange rate viz a viz other currencies.
Bachelor of Arts/Bachelor of Science (Economics) Semester III, IV	Economics of Agriculture (Opt-VI)	BARL-5609/ BECL-5607 (OPT-__)	Global, National, local	It deals concepts and policies of sustainability of Agriculture and food security at national and global level.
Bachelor of Arts/Bachelor of Science (Economics) Semester III, IV	Public Finance (Opt-II)	BARL-6609/ BECL-6607 (OPT-__)	National	It deals with concepts and theories of government finances at national level banking and money.
Bachelor of Science (Economics) Semester I	Economics (Microeconomics)	BECL-1175	Global, National and Local	The concepts and theories are of national and local importance as students learn the consumers' and producers' behaviour. A most of theories are widely accepted so it can be applied at global level.
Bachelor of Science (Economics) Semester II	(Quantitative Techniques-II)	BECL-2453	Global, National and Local	It involves the learning of basic tools of mathematics and statistics used at all levels and in different branches of knowledge.
Bachelor of Science (Economics) Semester II	Economics (Macroeconomics)	BECL-2175	Global, National and Local	The concepts and theories are of national important to learn consumption, Investment and overall equilibrium and structure of the economy.

Bachelor of Science (Economics) Semester II	Economics (Macroeconomics)	BECL-2175	Global, National and Local	The concepts and theories are of national important to learn consumption, Investment and overall equilibrium and structure of the economy.
Bachelor of Science (Economics) Semester III	(Quantitative Techniques-III)	BECL-3453	Global, National and Local	It involves the learning of basic tools of mathematics and statistics used at all levels and in different branches of knowledge.
Bachelor of Science (Economics) Semester IV	Economics (International Economics and Public Finance)	BECL-4175	Global and National	The concepts and theories are of national and global importance as it involves international economic relations, conditions of international trade and exchange rate viz a viz other currencies. It also deals with concepts and theories of government finances at national level.
Bachelor of Science (Economics) Semester V	Economics (Economics of Development)	BECL-5175	National, Global	The concepts and theories are of national and global importance to learn strategies economic development.
Bachelor of Science (Economics) Semester VI	Quantitative Techniques-VI	BECL-6453	Global, National and Local	It involves the learning of basic concepts and tools of statistics and Econometrics used at all levels and all different branches of knowledge.
Bachelor of Science (Economics) Semester VI	Economics (Quantitative Methods for Economists)	BECL-6175	Global, National and Local	It involves the learning of basic tools of mathematics and statistics used at all levels and in different branches of knowledge.

## Department of English

<b>Name of Programmes</b>	<b>Name of the Course</b>	<b>Course Code</b>	<b>Focus Local, National, Regional and Global</b>	<b>Description</b>
Bachelor of Arts (Honours) English Semester I	Renaissance Poetry	BOEL-1212	Global	Develop an understanding of various literary genres and texts in renaissance period.
Bachelor of Arts (Honours) English Semester I	Structure of English: The English Sound System	BOEL-1213	Global	Build up their knowledge in the usage of English language, its structures, pronunciation and other features of connected speech.
Bachelor of Arts (Honours) English Semester I	Short Story	BOEL-1214	Global	Comprehend and appreciate the theme, style and language in short stories.
Bachelor of Arts (Honours) English Semester I	English Prose from Bacon to Addison	BOEL-1215	Global	Explore different human identities as presented in different Prose styles.
Bachelor of Arts (Honours) English Semester I	History of English Literature (1150-1789)	BOEL-1216	Global	Get a thorough knowledge of the socio—political and economic conditions throughout years.
Bachelor of Arts (Honours) English Semester I	History of England (1485-1688)	BOEL-1277	Global	Be familiar with the political, economic and social history of England, helpful in understanding the literary texts and their socio-political/historical context.
Bachelor of Arts (Honours) English Semester I	Fundamentals of Sociology-A	BOEL-1478	Global	Be able to appreciate the diversity of literary and social voices.
Bachelor of Arts (Honours) English Semester II	Neoclassical Poetry	BOEL-2212	Global	Understand the socio-cultural milieu of neoclassical period.
Bachelor of Arts (Honours) English Semester II	Structure of English: English Grammar	BOEL-2213	Global	Develop an understanding of Syntax of Modern English, various underlying patterns and structures of English language and their

				accurate usage.
Bachelor of Arts (Honours) English Semester II	One Act Plays	BOEL-2214	Global	Comprehend and appreciate the dramatic techniques of plays.
Bachelor of Arts (Honours) English Semester II	Nineteenth Century English Prose	BOEL-2215	Global	Make a comparative analysis of various texts and relate them with real life situations and people.
Bachelor of Arts (Honours) English Semester II	History of English Literature (1789-1960)	BOEL-2216	Global	Get a thorough knowledge of the socio—political and economic conditions throughout years.
Bachelor of Arts (Honours) English Semester II	History of England (1688-1782)	BOEL-2277	Global	Be familiar with the political, economic and social history of England, helpful in understanding the literary texts and their socio-political/historical context
Bachelor of Arts (Honours) English Semester II	Fundamentals of Sociology-B	BOEL-2478	Global	Be able to appreciate the diversity of literary and social voices.
Bachelor of Arts (Honours) English Semester III	Elements of Novel-I	BOEL-3211	Global	Comprehend and appreciate the theme, style and language in Novel.
Bachelor of Arts (Honours) English Semester III	Elizabethan Drama	BOEL-3212	Global	Comprehend and analyse basic literary characteristics of Elizabethan Age.
Bachelor of Arts (Honours) English Semester III	Romantic Poetry	BOEL-3213	Global	Get acquainted with the major trends of Romantic age.
Bachelor of Arts (Honours) English Semester III	Indian Fiction in English	BOEL-3214	Global	Have a working knowledge of Indian English fiction as a literary genre.
Bachelor of Arts (Honours) English Semester III	American Fiction and Prose	BOEL-3215	Global	Understand the contribution of American writers to Literature.

Bachelor of Arts (Honours) English Semester III	History of England (1783-1853)	BOEL-3276	Global	Be familiar with the political, economic and social history of England, helpful in understanding the literary texts and their socio-political/historical context.
Bachelor of Arts (Honours) English Semester III	Social Change in India - A	BOEL-3477	Global	Be able to appreciate the diversity of literary and social voices.
Bachelor of Arts (Honours) English Semester IV	Elements of Novel-II	BOEL-4211	Global	Develop critical and analytical skills in interpretation and evaluation of literary texts.
Bachelor of Arts (Honours) English Semester IV	English Drama: Jacobean Period to 19th Century	BOEL-4212	Global	Comprehend and appreciate the theme, style and language in various ages
Bachelor of Arts (Honours) English Semester IV	Victorian Poetry	BOEL-4213	Global	Get acquainted with the major trends of Victorian age.
Bachelor of Arts (Honours) English Semester IV	Indian Poetry and Drama	BOEL-4214	Global	Understand the contrast between native and foreign culture, the process of self-development and self realization, the need for and attainment of self fulfilment.
Bachelor of Arts (Honours) English Semester IV	American Poetry and Drama	BOEL-4215	Global	Understand the contribution of writers to American Literature.
Bachelor of Arts (Honours) English Semester IV	History of England(1853-1914)	BOEL-4276	Global	Be familiar with the political, economic and social history of England, helpful in understanding the literary texts and their socio-political/historical context.
Bachelor of Arts (Honours) English Semester IV	Social Change in India - B	BOEL-4477	Global	Be able to appreciate the diversity of literary and social voices.
Bachelor of Arts (Honours) English	Modern English Poetry	BOEL-5211	Global	Get acquainted with the major trends of Modern age.

Semester V				
Bachelor of Arts (Honours) English Semester V	Modern English Drama	BOEL-5212	Global	Develop critical and analytical skills in interpretation and evaluation of literary texts.
Bachelor of Arts (Honours) English Semester V	Modern Novel	BOEL-5213	Global	Comprehend and analyse basic literary Characteristics of Novel in Modern Age.
Bachelor of Arts (Honours) English Semester V	English Literary Criticism	BOEL-5214	Global	Be able to critically examine the prescribed essays.
Bachelor of Arts (Honours) English Semester V	Elements of Prose and Composition	BOEL-5215	Global	Make a comparative analysis of various texts and relate them with real life situations and people.
Bachelor of Arts (Honours) English Semester V	History of English Language – I	BOEL-5216	Global	Learn to critically analyse and compare different styles of the writers through ages.
Bachelor of Arts (Honours) English Semester V	History of England (1914-1939)	BOEL-5277	Global	Be familiar with the political, economic and social history of England, helpful in understanding the literary texts and their socio-political/historical context.
Bachelor of Arts (Honours) English Semester V	Social Thought – A	BOEL-5478	Global	Be able to appreciate the diversity of literary and social voices.
Bachelor of Arts (Honours) English Semester VI	Post-War Poetry	BOEL-6211	Global	Understand the socio-cultural milieu of post war period through poetry
Bachelor of Arts (Honours) English Semester VI	European Drama	BOEL-6212	Global	Appreciate the dramatic technique, plot, art of characterisation in European Drama.

Bachelor of Arts (Honours) English Semester VI	History of English Language – II	BOEL-6213	Global	Understand particular ideologies, movements and worldviews about life, politics, religion and the world at large.
Bachelor of Arts (Honours) English Semester VI	Indian Literature in Translation	BOEL-6214	Global	Understand gender discrimination social issues, violence and stability in the society, power and morality.
Bachelor of Arts (Honours) English Semester VI	Reading, Writing and Critical Thinking	BOEL-6215	Global	Enhance reading and writing skills by understanding various features of effective writing.
Bachelor of Arts (Honours) English Semester VI	Media Writing	BOEL-6216	Global	Write and produce professional news content, displaying a command of grammar, spelling, syntax and associated press style.
Bachelor of Arts (Honours) English Semester VI	History of England (1939-1995)	BOEL-6277	Global	Learn to critically analyse and compare different areas of England's history.
Bachelor of Arts (Honours) English Semester VI	Social Thought - B	BOEL-6478	Global	Be able to appreciate the diversity of literary and social voices.
Master of Arts (English) Semester-I	Poetry- Medieval to Renaissance Period	MENL-1211	Global	Understand the socio-cultural milieu of the periods.
Master of Arts (English) Semester-I	Classical and Elizabethan Drama	MENL-1212	Global	Make a comparative analysis of various texts and relate them with real life situations and people.
Master of Arts (English) Semester-I	Novel till Victorian Age (1837)	MENL-1213	Global	Develop critical and analytical skills in interpretation and evaluation of literary texts.
Master of Arts (English) Semester-I	Phonetics and Spoken English	MENL-1214	Global	Know the various sounds of English, their accurate pronunciation, and how the various sounds are articulated.

Master of Arts (English) Semester-I	History of English Literature- I	MENL- 1215	Global	Have an overview of the different literary genres over the years.
Master of Arts (English) Semester-II	Poetry- Neoclassical to Romantic Period	MENL- 2211	Global	Comprehend and appreciate the theme and style in different ages.
Master of Arts (English) Semester-II	Irish Literature	MENL- 2212	Global	Make a comparative analysis of various texts and relate them with real life situations and people.
Master of Arts (English) Semester-II	19th Century Victorian Novel	MENL- 2213	Global	Understand the socio-cultural milieu of nineteenth century.
Master of Arts (English) Semester-II	Rhetoric and Advanced composition	MENL- 2214	Global	Recognise various discourses, developmental strategies, and their implications in understanding a piece of writing.
Master of Arts (English) Semester-II	History of English Literature- II	MENL- 2215	Global	Comprehend and analyse basic literary Characteristics of various ages.
Master of Arts (English) Semester-II	Prose and Short Stories	MENL- 2216	Global	Develop critical and analytical skills in interpretation and evaluation of literary texts.
Master of Arts (English) Semester-III	Poetry- Victorian and Modern	MENL- 3211	Global	Critically analyse and appreciate the style and theme of poetry.
Master of Arts (English) Semester-III	Modern Drama	MENL- 3212	Global	Make a comparative analysis of various texts and relate them with real life situations and people.
Master of Arts (English) Semester-III	Modern Novel	MENL- 3213	Global	Develop critical and analytical skills in interpretation and evaluation of literary texts.
Master of Arts (English) Semester-III	General Linguistics	MENL- 3214	Global	Develop an understanding of the various aspects of the study of linguistics.
Master of Arts (English) Semester-III	Literary Criticism	MENL- 3215	Global	Be able to critically examine the prescribed texts.
Master of Arts (English)	Modern Literary Theory	MENL- 4211	Global	Understand various literary theories and underline the importance of a

Semester-IV				wider literary tradition.
Master of Arts (English) Semester-IV	American Literature	MENL- 4212	Global	Identify key ideas, representative authors and works, and characteristic attitudes expressed in the works of American writers.
Master of Arts (English) Semester-IV	Postcolonial Literature	MENL- 4213	Global	Make a comparative analysis of various texts and relate them with real life situations and people.
Master of Arts (English) Semester-IV	Indian Writing in English	MENL- 4214	Global	Develop skills of critical analysis and evaluation through the study of Indian writers.
Master of Arts (English) Semester-IV	World Classics in Translation	MENL- 4215	Global	Understand the contrast between native and foreign culture, the process of self-development and self realization, the need for and attainment of self fulfilment.
Master of Arts (English) Semester-I	Poetry- Medieval to Renaissance Period	MENL- 1211	Global	Relate to various literary terms, poetic devices, figures of speech and their subtle nuances as used by the poets.
Master of Arts (English) Semester-I	Classical and Elizabethan Drama	MENL- 1212	Global	Appreciate the dramatic technique, plot, art of characterisation in Classical and Elizabethan age.
Master of Arts (English) Semester-I	Novel till Victorian Age (1837)	MENL- 1213	Global	Get acquainted with the major trends of Victorian age.
Master of Arts (English) Semester-I	Phonetics and Spoken English	MENL- 1214	Global	Know the various sounds of English, their accurate pronunciation, and how the various sounds are articulated.
Master of Arts (English) Semester-I	History of English Literature- I	MENL- 1215	Global	Get a thorough knowledge of the socio—political and economic conditions throughout years.
Master of Arts (English) Semester-II	Poetry- Neoclassical to Romantic Period	MENL- 2211	Global	Comprehend and analyse basic literary characteristics of Neoclassical and Romantic period.
Master of Arts (English) Semester-II	Irish Literature	MENL- 2212	Global	Comprehend and appreciate the theme and style of the writers.

Master of Arts (English) Semester-II	19th Century Victorian Novel	MENL- 2213	Global	Get acquainted with the major trends of Victorian age.
Master of Arts (English) Semester-II	Rhetoric and Advanced composition	MENL- 2214	Global	Improve unity and coherence in writing.
Master of Arts (English) Semester-II	History of English Literature- II	MENL- 2215	Global	Get a thorough knowledge of the socio—political and economic conditions throughout years.
Master of Arts (English) Semester-II	Prose and Short Stories	MENL- 2216	Global	Make a comparative analysis of various texts and relate them with real life situations and people.
Master of Arts (English) Semester-III	Poetry- Victorian and Modern	MENL- 3211	Global	Learn about the various literary devices that are practised by the authors in their works.
Master of Arts (English) Semester-III	Modern Drama	MENL- 3212	Global	Appreciate the dramatic technique, plot, art of characterisation in the modern age.
Master of Arts (English) Semester-III	Modern Novel	MENL- 3213	Global	Develop critical and analytical skills in interpretation and evaluation of literary texts.
Master of Arts (English) Semester-III	General Linguistics	MENL- 3214	Global	Enhance their knowledge of the usage of various linguistic structures at the level of speech and writing.
Master of Arts (English) Semester-III	Literary Criticism	MENL- 3215	Global	Be able to critically examine the prescribed essays.
Master of Arts (English) Semester-IV	Modern Literary Theory	MENL- 4211	Global	Examine historical contexts to develop an insight into the way literary theory has evolved.
Master of Arts (English) Semester-IV	American Literature	MENL- 4212	Global	Understand the contribution of writers to American Literature.
Master of Arts (English) Semester-IV	Postcolonial Literature	MENL- 4213	Global	Comprehend and appreciate the theme and style in Postcolonial works.
Master of Arts (English)	Indian Writing	MENL-	Global	Understand self development, the need for and attainment of self

Semester-IV	in English	4214		fulfilment through the reading of famous Indian texts.
Master of Arts (English) Semester-IV	World Classics in Translation	MENL-4215	Global	Know about thematic as well as stylistic concerns of prominent writers.
Bachelor of Arts Semester-III	English Prose	BARL-3559	Global	Make a comparative analysis of various texts and relate them with real life situations and people.
Bachelor of Arts Semester-IV	English Poetry	BARL-4559	Global	Know about the works, and thematic as well as stylistic concerns of prominent poets.
Bachelor of Arts Semester-V	English Novel	BARL-5559	Global	Develop critical and analytical skills in interpretation and evaluation of literary texts.
Bachelor of Arts Semester-VI	English Drama	BARL-6559	Global	Appreciate the dramatic technique, plot, art of characterisation in drama.

### Department of Fashion Designing

Name of Programmes	Name of the Course	Course Code	Focus Local, National, Regional and Global	Description

Bachelor of Science (Fashion Designing) Semester I	Concept of Fashion	BFDL-1233	Global	Understanding of basics of fashion, knowledge of elements and principles of fashion.
Bachelor of Science (Fashion Designing) Semester I	Basics of Design and Illustration	BFDM-1234	Global	Knowledge of different art media, elements and principles of design.
Bachelor of Science (Fashion Designing) Semester I	Basics of Sewing-I	BFDM-1235	Global	Understanding of tools and equipments, sewing techniques and constructional features of clothing construction.
Bachelor of Science (Fashion Designing) Semester I	Basics of Computer	BFDM-1126	Global	Understanding of Basic working of computer and its components.
Bachelor of Science (Fashion Designing) Semester I	Fibre to Fabric	BFDM-1237	Global	Given an overview of fibre and yarns and their manufacturing and properties.
Bachelor of Science (Fashion Designing) Semester II	Traditional Textiles	BFDM-2233	Global	Explains the traditional textiles and embroideries of India.
Bachelor of Science (Fashion Designing) Semester II	Fabric Construction	BFDM-2234	Global	Knowledge of various fabric manufacturing processes.
Bachelor of Science (Fashion Designing) Semester II	Basics of Sewing-II	BFDM-2235	Global	Understanding of tools and equipments, sewing techniques and constructional features of clothing construction. Students will get familiar with drafting and pattern making techniques.
Bachelor of Science (Fashion Designing) Semester II	Basics of Computer	BFDP-2126	Global	Understanding of powerpoint presentation and basic concept of Corel draw and Adobe Photoshop.
Bachelor of Science (Fashion	Industrial Visit	BFDV-2237	Global	Practical Knowledge of working of industries and

Designing) Semester II				their different departments.
Bachelor of Science (Fashion Designing) Semester III	Colour Concepts and Colouration	BFDM-3231	Global	Understanding of concept of colour, pigments and different dyeing and printing techniques.
Bachelor of Science (Fashion Designing) Semester III	Pattern Making and Garment Construction	BFDM-3232	Global	Learning of basic foundation pattern and dart manipulation.
Bachelor of Science (Fashion Designing) Semester III	Knitting Technology	BFDM-3233	Global	Understanding of hand knitting, various knit stitch and defects in knitted fabrics.
Bachelor of Science (Fashion Designing) Semester III	Fashion Design and Illustration	BFDP-3234	Global	Knowledge of concept of sketching different apparels, details and their variations. Also include rendering of different textures.
Bachelor of Science (Fashion Designing) Semester III	Needle Craft	BFDP-3235	Global	Understanding of methods of surface ornamentation to produce value added products using needle craft techniques.
Bachelor of Science (Fashion Designing) Semester IV	History of Costumes	BFDM-4231	Global	Gives an overview about historic costumes of India and also traditional costumes of various Indian States.
Bachelor of Science (Fashion Designing) Semester IV	Garment Construction and Draping	BFDM-4232	Global	Learning of fitting problems and altering the patterns and also the concept of draping.
Bachelor of Science (Fashion Designing) Semester IV	Fashion Design and Illustration (CAD)	BFDP-4233	Global	Improves sketching skills on CAD and gives knowledge of CAD in fashion industry.
Bachelor of Science (Fashion Designing) Semester IV	Fashion Illustration and appreciation	BFDP-4234	Global	Understanding of moodboards, story boards and knowledge of draping garments on fashion figures.
Bachelor of Science (Fashion	Pattern and Marker Making	BFDP-4235	Global	Knowledge of pattern making and grading using

Designing) Semester IV	on Computer			CAD.
Bachelor of Science (Fashion Designing) Semester V	Leather Technology	BFDL-5231	Global	Understanding leather industry, making of leather products and their care. Also includes finishing of leather and environmental and health hazards from manufacturing of leather.
Bachelor of Science (Fashion Designing) Semester V	Basics of Sustainable fashion	BFDL-5232	Global	Understanding of history and development of sustainable fashion.
Bachelor of Science (Fashion Designing) Semester V	Fashion illustration and appreciation	BFDP-5233	Global	Knowledge of various art mediums, types of designs, motifs and rendering textures of various fabrics and materials.
Bachelor of Science (Fashion Designing) Semester V	Draping, pattern making and construction	BFDP-5234	Global	Provides knowledge about draping, pattern development, garment designing and finishing of the garments.
Bachelor of Science (Fashion Designing) Semester V	CAD (Computer Aided Designing)	BFDP-5235	Global	Gives an overview of fashion and design illustration in CAD using photoshop and adobe illustartor.
Bachelor of Science (Fashion Designing) Semester V	Internship for design and construction of garments	BFDI-5236	Global	Knowledge of working of production, printing and embroidery units of fashion industry.
Bachelor of Science (Fashion Designing) Semester VI	Fashion industry, Marketing and Management	BFDL-6231	Global	Gives knowledge of Indian and global fashion market, marketing environment, career and levels of fashion industry.
Bachelor of Science (Fashion Designing) Semester VI	Fashion Illustration and Appreciation	BFDP-6232	Global	Knowledge of Indian and International fashion designers, their creative work. Also includes illustartion and designing of innovative dresses.

Bachelor of Science (Fashion Designing) Semester VI	Pattern Making and Construction	BFDP-6233	Global	Focus on designing, construction and finishing of various garments.
Bachelor of Science (Fashion Designing) Semester VI	Computer Aided Designing-II	BFDP-6234	Global	Knowledge of draping different fashion outfits on models.
Bachelor of Science (Fashion Designing) Semester VI	Survey and Project Report	BFDD-6235	Global	Knowledge of art, culture and crafts of different Indian states with focus on taking inspiration and designing different garments.
Master of Science (Fashion Designing and Merchandising) Semester - I	History of Indian Costumes	MF DL- 1231	Global	It gives an overview about origin of clothing and costumes and also about dance costumes of India.
Master of Science (Fashion Designing and Merchandising) Semester – I	Fashion Illustration	MFDP -1233	Global	Understanding of creating different textures using different techniques and medium.
Master of Science (Fashion Designing and Merchandising) Semester - I	Product Development Workshop	MFDP- 1234	Global	Knowledge of design process in making a collection.
Master of Science (Fashion Designing and Merchandising) Semester - I	Pattern Making and Grading	MFDP- 1235	Global	Knowledge about contoured patterns, structural designs and grading techniques.
Master of Science (Fashion Designing and Merchandising) Semester - I	Computer Aided Fashion Designing	MFDP- 1236	Global	Understanding of layouts and marker making in CAD.
Master of Science (Fashion Designing and Merchandising) Semester - II	Fashion Merchandising and Marketing	MF DL -2231	Global	Learning about fashion merchandising and fashion business.

Master of Science (Fashion Designing and Merchandising) Semester - II	Sustainable Fashion- Design for Change	MFDL -2232	Global	Understanding about importance of sustainability, sustainable garments and consumer best practices related to this concept.
Master of Science (Fashion Designing and Merchandising) Semester - II	Product Development Workshop	MFDP -2233	Global	Knowledge of design research, inspiration, sourcing, construction and finishing of the garments.
Master of Science (Fashion Designing and Merchandising) Semester - II	Pattern Development and Draping	MFDP -2234	Global	Understanding the concept of draping for pattern making and development of garments using various features.
Master of Science (Fashion Designing and Merchandising) Semester - II	Fashion Illustration	MFDP -2235	Global	Gives knowledge about drawing of male fashion figures in various postures and dress details in different mediums.
Master of Science (Fashion Designing and Merchandising) Semester - II	Computer Aided Fashion Designing	MFDP -2236	Global	Learning about draping simulations using CAD.
Master of Science (Fashion Designing and Merchandising) Semester - II	Traditional Indian Embroideries	MFDP -2237	Global	Knowledge about traditional embroideries of India and their incorporation in contemporary Apparels.
Master of Science (Fashion Designing and Merchandising) Semester - II	Industrial training (Viva+ Report submission)	MFDI -2238	Global	Knowledge of working of production, printing and embroidery units of fashion industry.
Master of Science (Fashion Designing and Merchandising) Semester - III	Global Costumes	MFDL-3231	Global	Knowledge about costumes of various eras of world history.
Master of Science (Fashion Designing and Merchandising)	Research Methodology	MFDL-3232	Global	Understanding importance and complete process of research in fashion field. Also includes data collection

Semester - III				and analysis techniques.
Master of Science (Fashion Designing and Merchandising) Semester - III	Product Development Workshop	MFDP-3233	Global	Learning Design development, pattern development, layout, construction and finishing of male garments.
Master of Science (Fashion Designing and Merchandising) Semester - III	Textile Chemistry	MFDP-3234	Global	Course focuses on textile testing, aspects of dyeing and knowledge of fibre and fabric identification.
Master of Science (Fashion Designing and Merchandising) Semester - III	Computer Aided Fashion Designing	MFDP-3235	Global	Knowledge of mood board, ideation and swatch board on different themes. Also focus on knowledge of patterns and layout using advanced software.
Master of Science (Fashion Designing and Merchandising) Semester - III	Surface Ornamentation	MFDP-3236	Global	Understanding of various surface ornamentation techniques like needle craft, printing, dyeing and painting.
Master of Science (Fashion Designing and Merchandising) Semester - III	Seminar-Indian Traditional Textiles	MFDP-3237	Global	Knowledge of rich and traditional textiles of India with special focus on woven and embroidered fabrics.
Master of Science (Fashion Designing and Merchandising) Semester - IV	Fashion Merchandising and Retailing	MFDL-4231	Global	Learning of merchandising and retailing in fashion industry.
Master of Science (Fashion Designing and Merchandising) Semester - IV	Portfolio Development	MFDP-4233	Global	Learning of creating curriculum vita and portfolio.
Master of Science (Fashion Designing and Merchandising) Semester - IV	Product Development Workshop	MFDP-4234	Global	Provides knowledge of design development and construction of garments and accessories for various age groups based on theme.

Master of Science (Fashion Designing and Merchandising) Semester - IV	Advance Draping	MFDP-4235	Global	Developing various patterns and design elements with draping.
Master of Science (Fashion Designing and Merchandising) Semester - IV	Project Report/ Design Project	MFDD-4236	Global	Understanding of importance of research in Fashion field. It includes identification of research gap in this field, framing objectives, collecting data in concluding with results.
Post Graduate Diploma in Garment Construction and Fashion Designing Semester - I	Fashion Concepts	PGFL-1231	Global	Knowledge of basics of fashion, elements and principles of design.
Post Graduate Diploma in Garment Construction and Fashion Designing Semester - I	Basics of Sustainable Fashion	PGFM-1232	Global	Understanding of Sustainability, sustainable fashion and sustainable consumer practices.
Post Graduate Diploma in Garment Construction and Fashion Designing Semester - I	Fashion Illustration	PGFP-1233	Global	Learning rendering techniques for various fashion details and drawing of different postures of fashion figures.
Post Graduate Diploma in Garment Construction and Fashion Designing Semester - I	Garment Designing	PGFP-1234	Global	Knowledge of latest fashion trends, designing garments and also style reading.
Post Graduate Diploma in Garment Construction and Fashion	Garment Construction	PGFP-1235	Global	Gives an overview about sewing machine and various hand and machine stitches. Also focuses on construction of kid's garments and dealing

Designing Semester - I				with costumers by taking orders.
Post Graduate Diploma in Garment Construction and Fashion Designing Semester - I	Pattern Making	PGFP-1236	Global	Knowledge of developing industrial commercial paper patterns for kidswear.
Post Graduate Diploma in Garment Construction and Fashion Designing Semester - I	Workshop Surface Ornamentation	PGFP-1237	Global	Learning needle craft, fabric painting and various printing techniques with special focus on incorporating these techniques in different apparels.
Post Graduate Diploma in Garment Construction and Fashion Designing Semester - I	CAD in Fashion	PGFP-1238	Global	Learning to create different prints, compositions and textures using CAD. Also includes drawing different postures of fashion figures on computers.
Post Graduate Diploma in Garment Construction and Fashion Designing Semester - II	Fundamentals of Textiles	PGFL-2231	Global	Knowledge of textiles, manufacturing process and their properties.
Post Graduate Diploma in Garment Construction and Fashion Designing Semester - II	Fashion Illustration	PGFP-2232	Global	Gives an overview about rendering of different textures of fabric, draping of dresses on crouquis and jewellery designing.
Post Graduate Diploma in Garment Construction and Fashion Designing Semester - II	Garment Designing	PGFP-2233	Global	Knowledge of designing and style reading of women's wear with special focus on layout.

Post Graduate Diploma in Garment Construction and Fashion Designing Semester - II	Garment Construction	PGFP-2234	Global	Knowledge about construction and finishing of garments for women with special focus on drafting and pattern making.
Post Graduate Diploma in Garment Construction and Fashion Designing Semester - II	Pattern Making	PGFP-2235	Global	Understanding importance of pattern development, draping techniques and development of industrial commercial paper pattern.
Post Graduate Diploma in Garment Construction and Fashion Designing Semester - II	Workshop Surface Ornamentation	PGFP-2236	Global	Learning resist dyeing techniques and fabric printing techniques for surface ornamentation.
Post Graduate Diploma in Garment Construction and Fashion Designing Semester - II	CAD in Fashion	PGFP-2237	Global	Learning to design different garments and draping on crouquis using CAD.
Post Graduate Diploma in Garment Construction and Fashion Designing Semester - II	Industrial Training	PGFI-2238	Global	Knowledge about working of fashion industry with special focus on production of garments from Fabric to Finishing.
Bachelor of Arts Semester - I	FDGC(Fashion desinging -1)	BARL-1237	Global	Understanding of basics of fashion, knowledge of elements and principles of fashion.
Bachelor of Arts Semester - I	FDGC(Scale drawing and Garment construction-1) (Practical)	BARL-1237	Global	Knowledge about basic sewing techniques and illustration.

Bachelor of Arts Semester - II	Fashion Designing and garment construction (Fashion Designing-II) (Theory)	BARM-2237	Global	Students get exposure of Fashion Marketing, merchandising, promotion and distribution.
Bachelor of Arts Semester - II	Fashion Designing and garment construction (Scale Drawing & Garment Construction-II) (Practical)	BARM-2237	Global	Knowledge about designing and construction of kids garments, rendering of various fashion details and textures on fashion figures.
Bachelor of Arts Semester - III	Fashion Designing and garment construction (Fundamentals of Textiles-I) (Theory)	BARM-3237	Global	Learning about fibres, yarns, their manufacturing process and properties.
Bachelor of Arts Semester - III	Fashion Designing and garment construction (Pattern Making and Garment Construction-I) (Practical)	BARM-3237	Global	Knowledge about dart manipulation, drafting and its adaptation for construction of garments.
Bachelor of Arts Semester - IV	Fashion Designing and garment construction (Fundamentals of textiles-II) (Theory)	BARM-4237	Global	Understanding of looms, weaves, non-woven fabrics, finishes, printing and dyeing techniques.
Bachelor of Arts Semester - IV	Fashion Designing and garment construction ( Pattern making and garment construction-II) (Practical)	BARM-4237	Global	Practical skills of designing and construction of garments and also the grading techniques.
Bachelor of Arts Semester - V	Fashion Designing and Garment Construction (Historic	BARM-5237	Global	Knowledge about traditional textiles of India and world historic costumes.

	costumes of India and World-1) (Th)			
Bachelor of Arts Semester - V	Fashion Designing and Garment Construction (Advance Designing, Construction and Draping-1) (Pr)	BARM-5237	Global	Practical skills of pattern making and draping.
Bachelor of Arts Semester - VI	Fashion Designing and garment construction (Historic costumes of India –II) (Th)	BARM-6237	Global	Knowledge about traditional costumes of India.
Bachelor of Arts Semester - VI	Fashion Designing and garment construction (Advance designing, construction & draping–II ) (Pr)	BARM-6237	Global	Learning the practical skills of construction of Indian and western dresses for women and also the pattern making.

### Department of Fine Arts

Name of Programmes	Name of Course	Course Code	Focus Local national,Regional and Global	Description
Bachelor of Arts Semester - I	Fine Arts (Drawing and Painting)	BARM-1245	National	Learning about History of Indian Art.
Bachelor of Arts Semester - I	Fine arts: Still Life (Drawing ) (Practical)	BARM -1245 (P) (I)	Global	Learning of Sketching, Drawing and Colouring.
Bachelor of Arts	Fine arts: Letter Writing	BARM-	Global	Learning of Drawing, Sketching and Calligraphy

Semester - I	(Practical)	1245(P) (II)		writing.
Bachelor of Arts Semester - II	Fine Arts (Drawing and Painting)	BARM- 2245	National	Learning about History of Indian Art.
Bachelor of Arts Semester - II	Fine Arts: Still Life (Drawing ) (Practical)	BARM -2245 (P) (I)	Global	Learning of Sketching, Drawing and Colouring.
Bachelor of Arts Semester - II	Fine Arts:Poster Making /Book Cover (Practical)	BARM - 2245(P) (II)	Global	Learning of drawing, Sketching and Colouring.
Bachelor of Arts Semester-III	Fine Arts (Drawing and Painting)	BARM- 3245	National	Learning about History of Indian Art.
Bachelor of Arts Semester-III	Fine Arts:Design 2D & 3D (Practical)	BARM- 3245 (P) (I)	Global	Learning of drawing, Sketching and Colouring.
Bachelor of Arts Semester-III	Fine Arts: Head study (Male/Female) (Practical)	BARM- 3245(P) (II)	Global	Learning of Drawing, Sketching.
Bachelor of Arts Semester-IV	Fine Arts (Drawing and Painting)	BARM -4245	National	Learning about History of Indian Art.
Bachelor of Arts Semester-IV	Fine Arts: Landscape (Practical)	BARM - 4245 (P) (I)	Global	Learning about Basic of Nature study, Drawing and Colouring.
Bachelor of Arts Semester-IV	Fine Arts : Full Life Study (life /cast study ) (Practical)	BARM- 4245(P) (II)	Global	Learning about Basics of Head Study and Sketching.
Bachelor of Arts Semester-V	Fine Arts: (Drawing and Painting)	BARM- 5245	Global	Learning about History of European Art.
Bachelor of Arts Semester-V	Fine Arts: Landscape painting (Practical)	BARM- 5245 (P) (I)	Global	Learning about advance study of Nature study, Drawing and Colouring.
Bachelor of Arts Semester-V	Fine Arts: Portrait (Head study) (Practical)	BARM- 5245(P) (II)	Global	Learning about advance of Head Study and Sketching.

Bachelor of Arts Semester-VI	Fine Arts: (Drawing and Painting)	BARM -6245	National	Learning about History of Indian Art.
Bachelor of Arts Semester-VI	Fine Arts: Landscape painting (Practical)	BARM - 6245 (P) (I)	Global	Learning about advance study of Head Study and Sketching.
Bachelor of Arts Semester-VI	Fine Arts: Life Study (life /cast study ) (Practical)	BARM - 6245(P) (II)	Global	Learning about advance study of Head Study and Sketching.

### Department of Hospitality & Tourism

<b>Name of Programmes</b>	<b>Name of the Course</b>	<b>Course Code</b>	<b>Focus Local, National, Regional and Global</b>	<b>Description</b>
Bachelor of Vocation (Hospitality and Tourism) Semester-I	Basics of Food Production-I	BVHL-1661	Global	The course skills the aspirants to practice skills and get trained to work in the desired sections of hospitality and tourism industry around the globe.

Bachelor of Vocation (Hospitality and Tourism) Semester-I	Basics of Food and Beverage Service –I	BVHL-1662	Global	The course skills the aspirants to practice skills and get trained to work in the desired sections of hospitality and tourism industry around the globe.
Bachelor of Vocation (Hospitality and Tourism) Semester-I	Basics of Accommodation Operations and Hotel Front Office –I	BVHL-1663	Global	The course skills the aspirants to practice skills and get trained to work in the desired sections of hospitality and tourism industry around the globe.
Bachelor of Vocation (Hospitality and Tourism) Semester-I	Introduction to Hospitality, tourism and Aviation industry	BVHL-1664	Global	The course skills the aspirants to practice skills and get trained to work in the desired sections of hospitality and tourism industry around the globe.
Bachelor of Vocation (Hospitality and Tourism) Semester-I	Customer Service Executive (Meet and Greet Officer)	BVHL-1665	Global	The course skills the aspirants to practice skills and get trained to work in the desired sections of hospitality and tourism industry around the globe.
Bachelor of Vocation (Hospitality and Tourism) Semester-I	Hygiene, Sanitation and First Aid	BVHM-1666	Global	The course skills the aspirants to practice skills and get trained to work in the desired sections of hospitality and tourism industry around the globe.
Bachelor of Vocation (Hospitality and Tourism) Semester-I	Basics of Food Production –I (Practical)	BVHP-1667	Global	The course skills the aspirants to practice skills and get trained to work in the desired sections of hospitality and tourism industry around the globe.
Bachelor of Vocation (Hospitality and Tourism) Semester-I	Basics of Food and Beverage Service –I (Practical)	BVHP-1668	Global	The course skills the aspirants to practice skills and get trained to work in the desired sections of hospitality and tourism industry around the globe.

Bachelor of Vocation (Hospitality and Tourism) Semester-I	Basics of Accommodation Operations and Hotel Front Office –I (Practical)	BVHP-1669	Global	The course skills the aspirants to practice skills and get trained to work in the desired sections of hospitality and tourism industry around the globe.
Bachelor of Vocation (Hospitality and Tourism) Semester-II	Food Production-II	BVHL-2661	Global	The course skills the aspirants to practice skills and get trained to work in the desired sections of hospitality and tourism industry around the globe.
Bachelor of Vocation (Hospitality and Tourism) Semester-II	Food and Beverage Service –II	BVHL-2662	Global	The course skills the aspirants to practice skills and get trained to work in the desired sections of hospitality and tourism industry around the globe.
Bachelor of Vocation (Hospitality and Tourism) Semester-II	Basics of Accommodation and Hotel Front Office –II	BVHL-2663	Global	The course skills the aspirants to practice skills and get trained to work in the desired sections of hospitality and tourism industry around the globe.
Bachelor of Vocation (Hospitality and Tourism) Semester-II	Fundamentals of Management	BVHL-2664	Global	The course skills the aspirants to practice skills and get trained to work in the desired sections of hospitality and tourism industry around the globe.
Bachelor of Vocation (Hospitality and Tourism) Semester-II	Applications of Computer in Hospitality and Tourism	BVHM-2665	Global	The course skills the aspirants to practice skills and get trained to work in the desired sections of hospitality and tourism industry around the globe.
Bachelor of Vocation (Hospitality and Tourism) Semester-II	Food Production-II (Practical)	BVHP-2666	Global	The course skills the aspirants to practice skills and get trained to work in the desired sections of hospitality and tourism industry around the globe.

Bachelor of Vocation (Hospitality and Tourism) Semester-II	Accommodation and Hotel Front Office–II (Practical)	BVHP-2668	Global	The course skills the aspirants to practice skills and get trained to work in the desired sections of hospitality and tourism industry around the globe.
Bachelor of Vocation (Hospitality and Tourism) Semester-III	Tourism Products	BVHL-3661	Global	The course skills the aspirants to practice skills and get trained to work in the desired sections of hospitality and tourism industry around the globe.
Bachelor of Vocation (Hospitality and Tourism) Semester-III	Tourism Geography	BVHL-3662	Global	The course skills the aspirants to practice skills and get trained to work in the desired sections of hospitality and tourism industry around the globe.
Bachelor of Vocation (Hospitality and Tourism) Semester-III	Travel Agency and Tour operation Business	BVHL-3663	Global	The course skills the aspirants to practice skills and get trained to work in the desired sections of hospitality and tourism industry around the globe.
Bachelor of Vocation (Hospitality and Tourism) Semester-III	Tour guiding and escorting	BVHL-3664	Global	The course skills the aspirants to practice skills and get trained to work in the desired sections of hospitality and tourism industry around the globe.
Bachelor of Vocation (Hospitality and Tourism) Semester-III	Principles and Practice of Tourism	BVHL-3665	Global	The course skills the aspirants to practice skills and get trained to work in the desired sections of hospitality and tourism industry around the globe.
Bachelor of Vocation (Hospitality and Tourism) Semester-III	Advanced course in Room Division	BVHL-3666	Global	The course skills the aspirants to practice skills and get trained to work in the desired sections of hospitality and tourism industry around the globe.

Bachelor of Vocation (Hospitality and Tourism) Semester-III	Advanced course in Room Division Practical	BVHP-3667	Global	The course skills the aspirants to practice skills and get trained to work in the desired sections of hospitality and tourism industry around the globe.
Bachelor of Vocation (Hospitality and Tourism) Semester-III	Destination visit and Report	BVHD-3668	Global	The course skills the aspirants to practice skills and get trained to work in the desired sections of hospitality and tourism industry around the globe.
Bachelor of Vocation (Hospitality and Tourism) Semester-IV	Human Resource Management	BVHL-4661	Global	The course skills the aspirants to practice skills and get trained to work in the desired sections of hospitality and tourism industry around the globe.
Bachelor of Vocation (Hospitality and Tourism) Semester-IV	Tourism and Hospitality Marketing	BVHL-4662	Global	The course skills the aspirants to practice skills and get trained to work in the desired sections of hospitality and tourism industry around the globe.
Bachelor of Vocation (Hospitality and Tourism) Semester-IV	Customer Relationship Management	BVHL-4663	Global	The course skills the aspirants to practice skills and get trained to work in the desired sections of hospitality and tourism industry around the globe.
Bachelor of Vocation (Hospitality and Tourism) Semester-IV	Event Management	BVHL-4664	Global	The course skills the aspirants to practice skills and get trained to work in the desired sections of hospitality and tourism industry around the globe.
Bachelor of Vocation (Hospitality and Tourism) Semester-IV	Ticketing and Consultation	BVHL-4665	Global	The course skills the aspirants to practice skills and get trained to work in the desired sections of hospitality and tourism industry around the globe.

Bachelor of Vocation (Hospitality and Tourism) Semester-IV	Ecotourism	BVHL-4666	Global	The course skills the aspirants to practice skills and get trained to work in the desired sections of hospitality and tourism industry around the globe.
Bachelor of Vocation (Hospitality and Tourism) Semester-IV	Foreign language (French)	BVHL-4667	Global	The course skills the aspirants to practice skills and get trained to work in the desired sections of hospitality and tourism industry around the globe.
Bachelor of Vocation (Hospitality and Tourism) Semester-IV	Ticketing and Consultation (Practical)	BVHP-4668	Global	The course skills the aspirants to practice skills and get trained to work in the desired sections of hospitality and tourism industry around the globe.
Bachelor of Vocation (Hospitality and Tourism) Semester-V	Tourism Policy in India	BVHL-5661	Global	The course skills the aspirants to practice skills and get trained to work in the desired sections of hospitality and tourism industry around the globe.
Bachelor of Vocation (Hospitality and Tourism) Semester-V	E-Tourism	BVHL-5662	Global	The course skills the aspirants to practice skills and get trained to work in the desired sections of hospitality and tourism industry around the globe.
Bachelor of Vocation (Hospitality and Tourism) Semester-V	Public Relations and Tourism Journalism	BVHL-5663	Global	The course skills the aspirants to practice skills and get trained to work in the desired sections of hospitality and tourism industry around the globe.
Bachelor of Vocation (Hospitality and Tourism) Semester-V	Basic Research Methodology	BVHL-5664	Global	The course skills the aspirants to practice skills and get trained to work in the desired sections of hospitality and tourism industry around the globe.

Bachelor of Vocation (Hospitality and Tourism) Semester-V	Food and Beverage Service Management	BVHL-5665	Global	The course skills the aspirants to practice skills and get trained to work in the desired sections of hospitality and tourism industry around the globe.
Bachelor of Vocation (Hospitality and Tourism) Semester-V	International Cuisines	BVHL-5666	Global	The course skills the aspirants to practice skills and get trained to work in the desired sections of hospitality and tourism industry around the globe.
Bachelor of Vocation (Hospitality and Tourism) Semester-V	Personality Skills for Hospitality and Tourism Industry	BVHM-5667	Global	The course skills the aspirants to practice skills and get trained to work in the desired sections of hospitality and tourism industry around the globe.
Bachelor of Vocation (Hospitality and Tourism) Semester-V	International Cuisines (Practical)	BVHP-5668	Global	The course skills the aspirants to practice skills and get trained to work in the desired sections of hospitality and tourism industry around the globe.
Bachelor of Vocation (Hospitality and Tourism) Semester-VI	Practice School Program	BVHI-6661	Global	Practice school program is a skill training session for the students to get handson practice directly in the industry and adopt it to earn livelyhood around the globe.

### Department of Home Science

Name of programmes	Name of the Course	Course Code	Focus local, National, Regional and Global	Description
Bachelor of Science (Home Science)	Introduction to Human Development	BHSL-1283	Global and National	To develop the knowledge about human development, principles, domains and history of human development with human

Semester I				developmental theories.
Bachelor of Science (Home Science) Semester I	Hygiene	BHSL-1284	Global and National	Students are integrates knowledge about health , hygiene, immunity, infection various disease, their mode of spread and its prevention and control water supply –source of contamination and modern method of purification .
Bachelor of Science (Home Science) Semester I	Basic Food and Nutrition	BHSM-1285	Global and National	Students are imparted knowledge regarding food its function, different methods of cooking, nutrients, carbohydrate, proteins, energy, basal metabolic rate.
Bachelor of Science (Home Science) Semester I	Applied Art	BHSM-1286	Global and National	To acquire an understanding of elements and principle of design and their practical application in art fine art and applied art.
Bachelor of Science (Home Science) Semester II	Family and Social Welfare	BHSL-2283	Global and National	To explain socialization, importance of family and adjustment as well as spreading awareness about welfare programmes and family planning methods.
Bachelor of Science (Home Science) Semester II	Elementary Physiology	BHSL-2284	Global and National	To impart knowledge to students regarding cell, tissue, various system i.e, digestive, circulatory, excretory, reproduction, endocrine and nervous system.
Bachelor of Science (Home Science) Semester II	Introduction to Family Resource Management	BHSM-2285	National	Upto impart knowledge to students regarding various resources , goals , managements process, decision making , flower arrangement , management of time , money , energy , work simplification and ergonomic .
Bachelor of Science (Home Science) Semester II	Advanced Food and Nutrition	BHSM-2286	Global and National	To impart knowledge to students regarding various vitamins, minerals, food preservation, food adulteration and food hygiene.
Bachelor of Science (Home Science) Semester III	Developmental Stages upto Childhood	BHSL-3281	Global and National	To understand developmental task from infancy to childhood, developmental stages, domains and principles of human development.

Bachelor of Science (Home Science) Semester III	Housing	BHSM-3285	Global and National	To introduce house planning, types of floor plans and principles of planning.
Bachelor of Science (Home Science) Semester III	Meal Management	BHSM-3286	Global and national	To understand the concept of RDA, Food groups, exchange lists, balanced diet, principles of meal planning and nutritional requirements in different stages of life and in different physiological states.
Bachelor of Science (Home Science) Semester III	Textile Science	BHSM-3287	Global	To gain understating of the whole textile industry frame work including fiber stage to the final fabric stage. Also includes various processes in fibaric, finishing and surface ornamentation.
Bachelor of Science (Home Science) Semester IV	Developmental Stages till Old Age	BHSL-4281	Global and National	To understand developmental stages till old age, developmental tasks and role of society and parents in developmental stages.
Bachelor of Science (Home Science) Semester IV	Kitchen design and its Equipment	BHSM-4282	Global and National	Students will be able to use various electrical kitchen equipment, can make floor plans for kitchen and understand its geometry according to the need.
Bachelor of Science (Home Science) Semester IV	Quantity Food Production and Service	BHSM-4283	Global and National	To gain knowledge about the food and beverage services, hospitality and institutional. It gives an entrepreneurial direction to the students. Aims to teach planning, operations supervision and controlling the quality of the food and services that are satisfying to the customers.
Bachelor of Science (Home Science) Semester IV	Traditional Embroideries, Textiles and Costumes of India	BHSM-4284	Global and National	To gain an insight into deep textile heritage of India with respect of various regional costumes worn in different states of the country. Also to gain practical knowledge of various traditional embroideries of India.
Bachelor of Science (Home Science)	Child Psychology	BHSL-5281	Global and National	To provide systematic knowledge about child psychology, attention, memory, learning and foundation of

Semester-V				human behaviour.
Bachelor of Science (Home Science) Semester-V	Introduction To Extension Education and Community Development	BHSL-5282	Global and National	To understand the concept of education, extension services provided by agriculture universities, role of extension and home Science education, concept of motivation and motivational techniques, community and rural development programmes, panchayati raj system and it's functions.
Bachelor of Science (Home Science) Semester-V	Basic Nutritional Biochemistry	BHSL-5063	Global	To understand the concepts of carbohydrates and fats.
Bachelor of Science (Home Science) Semester-V	Interior Space Designing	BHSL-5284	Global and National	To study the home interior designing, furnishing material, flooring, colour schemes for different rooms and use of principles of design in interiors.
Bachelor of Science (Home Science) Semester-V	Therapeutic Nutrition	BHSM-5285	Global and National	To develop the knowledge of principles of therapeutic diet. To develop awareness about nutrition in various diseases and conditions. Knowledge about Drug nutrition interaction.
Bachelor of Science (Home Science) Semester-V	Basic Concepts of Sewing and Fashion	BHSM-5286	National	To study different aspects involved in designing and construction of garments such as sewing equipment, sewing techniques design feature and their construction along with fashion market, its impact and working concepts.
Bachelor of Science (Home Science) Semester-VI	Behavioral Psychology	BHSM-6281	Global and National	Students can identify behaviour disorders, concept of disability and impairments as well as knowledge about intelligence and personality.
Bachelor of Science (Home Science) Semester-VI	Applied Nutritional Biochemistry	BHSM-6066	Global	To study the concepts related to water and protein metabolism.
Bachelor of Science (Home Science)	Interior Decoration	BHSM-6282	Global and National	To gain insight into different aspects of interior decoration including the importance and types

Semester-VI				of lighting, window treatment, culling accessories as well as home furnishing.
Bachelor of Science (Home Science) Semester-VI	Community Nutrition	BHSM-6283	Global and National	To understand the various nutritional problems and effective ways to overcome them. Understand the interrelationship between nutrition and infection. To gain knowledge.
Bachelor of Science (Home Science) Semester-VI	Garment Designing and Construction	BHSM-6284	Global and National	To study the application of elements and principles of design, designing of various garments using design principles such as pattern making and dart manipulation.
Bachelor of Science (Home Science) Semester-VI	Communication and Audio-visual in Extension Work	BHSM-6285	Global	To understand the concept of communication, it's importance, scope, functions and problems. Selection of channel and teaching tools. Various audio visual aids. Programme planning, developing plan of work, its importance and selection of subject matter.
Bachelors Of Arts (Home Science ) Semester-I	Family Resource Management and Hygiene	BARM-1284	Global and National	To impart knowledge about student's function of home, principle of house, colour, elements of art and principles of arts and students are made aware about various disease and the ways of prevention and control and food hygiene.
Bachelors Of Arts (Home Science ) Semester-II	Family Resource Management and Physiology	BARM-2284	Global	To understand the different types of income, budget, its advantages and limitations and the principles of work simplification. To understand the working of male and female sex organs and there function, the structure and functions of lungs, kidney and skin, circulatory system and digestive system its structure and working.
Bachelors Of Arts (Home Science ) Semester-III	Clothing Textiles -I	BARM-3284	Global	To gain a deep understanding about textile, their manufacture, use care and maintenance with respect to customer including drafting, pattern making of garments, printing &

				dying.
Bachelors Of Arts (Home Science ) Semester-IV	Clothing Textiles -II	BARM-4284	Global	To understand in detail all process of fibre and fabric construction, felling and finishing. Also concerns all psycho-social aspects of clothing.
Bachelors Of Arts (Home Science ) Semester-V	Food and Nutrition and Child Development	BARM-5284	Global	Students will learn the importance and functions of food, methods of cooking, food nutrients & preservation; child development, principles and domains of human development.
Bachelors Of Arts (Home Science ) Semester-VI	Food and Nutrition & child Development	BARM-6284	Global	Students can identify behaviour disorders, concept of disability and impairments as well as knowledge about intelligence and personality.
Post Graduate Diploma in Nutrition and Dietetics Semester-I	Physiology	PNDL-1281	Global	Elementary knowledge of cell structure and functions of cell organelles. Knowledge of various systems of human-digestive, cardiovascular, endocrine, excretory, respiratory, nervous, reproductive.
Post Graduate Diploma in Nutrition and Dietetics Semester-r-I	Community Nutrition and Social Welfare	PNDL-1282	National/ Global	To understand the various nutritional problems and effective ways to overcome them. Understand the interrelationship between nutrition and infection. To gain knowledge about various methods to enhance nutritive value of foods. Food faddism and faulty food. Role of national and international agencies in community nutrition.
Post Graduate Diploma in Nutrition and Dietetics Semester 1	Institutional Food Administration	PNDL-1283	National/Global	Review of different types of food services operations. Meal planning in institutions, standardisation of common food preparations. To develop knowledge about personnel management, recruitment, welfare of employees, their health safety and recreation. Knowledge about kitchen equipment, units, storage, serving units and dish washing.

Post Graduate Diploma in Nutrition and Dietetics Semester I	Community Nutrition and Social Welfare (Practical)	PNDP-1285	National/Global	Survey of vulnerable groups. Preparing cheap nutritious recipes for vulnerable groups. Preparation of teaching aids for vulnerable groups.
Post Graduate Diploma in Nutrition and Dietetics Semester-I	Institutional Food Administration (Practical)	PNDP-1286	National/Global	Preparation of recipes of cafeterias, standardisation and cost calculations of recipes, running a cafeteria and report submission.
Post Graduate Diploma in Nutrition and Dietetics Semester-I	Basic Nutrition	PNDL-1287	National/Global	Introduction to nutrition, food groups, exchange lists, classification, functions and food sources and deficiencies of various nutrients. Knowledge about energy, its sources and its need.
Post Graduate Diploma in Nutrition and Dietetics Semester-I	Hygiene and Food Microbiology	PNDL-2281	Global	To knowledge about brief introduction to industrial hygiene, sanitation, public health, types of disinfection and different surfaces and materials and brief history of microbiology and sub discipline of microbiology.
Post Graduate Diploma in Nutrition and Dietetics Semester-I	Diet Therapy and Applied Nutrition	PNDL-2282	Global	To develop the knowledge of principles of therapeutic diet. To develop awareness about nutrition in various diseases and conditions. Knowledge about Drug nutrient interaction.
Post Graduate Diploma in Nutrition and Dietetics Semester-I	Nutritional science	PNDL - 2283	Global	To gain knowledge about various nutrients, their digestion, absorption, metabolism and utilisation.
Post Graduate Diploma in Nutrition and Dietetics Semester-I	Principles of Food Science	PNDM-2284	Global	To knowledge about principles of food science, starchy food, flours, fats and oils, meat structure, egg, milk and milk products.
Post Graduate Diploma in Nutrition and Dietetics Semester-I	Diet Therapy and Applied Nutrition (Practical)	PNDP-2285	Global	To develop the knowledge about planning, preparation of diets for various diseases and conditions. Preparation of innovative recipes in various conditions and diseases.

Post Graduate Diploma in Nutrition and Dietetics Semester-I	Entrepreneurship & Diet Counseling (Practical)	PNDP – 2286	Global	Operation of diet clinic and Diet counselling. Knowledge about software diet Dietcal and its applications.
Post Graduate Diploma in Nutrition and Dietetics Semester-I	Nutritional Biochemistry	PNDM - 1284	Global	To understand the concept of biomolecules.
Post Graduate Diploma in Nutrition and Dietetics Semester-I	Meal Management	PNDM- 2288	National/ Global	To understand the concept of RDA, Food groups, exchange lists, balanced diet, principles of meal planning and nutritional requirements in different stages of life and in different physiological states.

### **Bachelors of Arts**

<b>Name of programme</b>	<b>Name of the Course</b>	<b>Course Code</b>	<b>Focus local, national, Regional and global</b>	<b>Description</b>
Bachelors of Arts Semester-I	Physical Education	BARM-1384	Global	To understand the Aim and Objectives of Physical Education and also be able to apply this knowledge to analyse the positive relationship between education and physical education and importance of Physical Education. Biological principles of growth and development,

				age and sex differences. This also gives a brief overview of harmful effects of alcohol and smoking on health and concept of doping and its harmful effects in sports and concept of sports injuries. This gives a brief overview of warming up and cooling down and also provides a context for the history of Physical Education in India from Pre-Independence and Post-Independence.
Bachelors of Arts Semester-II	Physical Education	BARM-2384	Global	To understand the cell: meaning, structure and functions of cell, skeletal system: types of bones, names of the various bones of the body, various types of joints and also be able to apply this knowledge to know about the role of muscular system: various types of muscles and structure of Skeletal Muscles.
Bachelors of Arts Semester-III	Physical Education	BARM-3384	Global	To understand the meaning & definition of psychology and sports psychology and also be able to apply this knowledge to analyse the meaning of learning, laws of learning, learning curve, notion of motivation, play theories, psychological factors effecting sports performance, and concept of Personality
Bachelors of Arts Semester-IV	Physical Education	BARM-4384	Global	To understand the yoga, meaning, aim and types, practice of asanas and their importance, also gives a brief overview of Pranayama, its importance and types, objectives and physiological values, Shudhi-Kriya: Its types, objectives and physiological Values, effect of yogic and physical exercises on various systems of the Body.
Bachelors of Arts Semester-V	Physical Education	BARM-5384	Global	To understand the meaning & importance of recreation and aim & objectives of recreation, and also be able to apply this knowledge to analyse the meaning of intramural and extramural sports competitions, law of motion, equilibrium, its types, centre of gravity, force and its types, friction.
Bachelors of	Physical	BARM-6384	Global	To understand the effect of exercises on muscular, respiratory and circulatory

Arts Semester-VI	Education			systems, gives a brief overview of organisation of camps, play days (sports meet) and need and scope of coaching in india. Professional preparation of coaches & qualifications and responsibilities of a good coach. This gives a brief overview of kinesiology, meaning and joints, muscles, their types and movements.
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### Department of Hindi

Name of programme	Name of the course	Course code	Focus local, national, regional and global	Description
Master of Arts (Hindi) Semester-I	प्राचीन एवं मध्यकालीन काव्य	MHIL-1261	National, Regional and Global	प्राचीन एवं नवीन हिन्दी कवियों की देन के गहन ज्ञान की प्राप्ति
Master of Arts (Hindi) Semester-I	हिन्दी साहित्य का इतिहास (खंड-एक)	MHIL-1262	National, Regional and Global	इतिहास कि दृष्टि से साहित्यिक सत्र कि रचनाओं का मुल्यांकन करना साहित्य का इतिहास कहलाता है   यदि आधुनिक साहित्य के स्वरूप को जानना है तो यह अत्यंत आवश्यक है कि उसके विगत का विवरण भी जाना जाए

Master of Arts (Hindi) Semester-I	भारतीय काव्यशास्त्र एवं साहित्यालोचन	MHIL-1263	National, Regional and Global	भारतीय और पाश्चात्य काव्यशास्त्र की अवधारणा, विभिन्न समीक्षा पद्धतियों का सम्यक ज्ञान। रस, शब्द शक्तियों और विविध वादों का गहन अध्ययन।
Master of Arts (Hindi) Semester-I	प्रयोजनमूलक हिन्दी	MHIL-1264	National, Regional and Global	हिन्दी के भाषिक और साहित्यिक रूप के साथ साथ उसके प्रयोजनमूलक रूपों –बैंक, रेलवे, समाचार पत्र, रेडियो, टेलीविज़न, मीडिया, अनुवाद की जानकारी एवं रोज़गार के अवसर।
Master of Arts (Hindi) Semester-I	हिन्दी नाटक और रंगमंच (Opt-i)	MHIL-1265	National, Regional and Global	भारतेंदु युग के नाटककारों ने लोक चेतना के विकास के लिए नाटकों की रचना की ताकि उस समय कि सामाजिक समस्याओं को नाटकों में अभिव्यक्त किया जा सके। इस प्रश्नपत्र के माध्यम से विद्यार्थी आधुनिक काल में भारतेंदु युग के नाटकों के विकास तथा रंगमंच के बारे में जानकारी प्राप्त कर सकते हैं तथा महान नाटककारों भारतेंदु, जयशंकर प्रसाद तथा लक्ष्मीनारायण लाल का अध्ययन करेंगे।
Master of Arts (Hindi) Semester-I	कोश विज्ञान (Opt-ii)	MHIL-1265	National, Regional and Global	कोश निर्माण के सिद्धांत, प्रक्रिया, विभिन्न कोश ग्रन्थ और विभिन्न कोशकारों का सामान्य परिचय एवं व्यावहारिक ज्ञान में दक्षता।
Master of Arts (Hindi) Semester-I	पंजाब का मध्यकालीन हिन्दी साहित्य (Opt-iii)	MHIL-1265	National, Regional and Global	हिंदी भाषा और साहित्य के उत्थान में हिंदी भाषी प्रदेशों का ही नहीं अपितु हिंदीतर प्रदेशों का भी बहुत योगदान है। पंजाब का इस क्षेत्र में अवदान अनुकरणीय है। इस प्रश्नपत्र में पंजाब के हिंदी साहित्य कि पृष्ठभूमि, इतिहास के अतिरिक्त विद्यार्थी, गुरु काव्यधारा, राम काव्यधारा, कृष्ण काव्यधारा व सूफी काव्यधारा के अध्ययन के साथ- साथ गुरुमुखी लिपि में उपलब्ध भक्तिकालीन गद्य साहित्य का ज्ञानार्जन कर सकेगा।
Master of Arts (Hindi) Semester-II	मध्यकालीन हिन्दी काव्य	MHIL - 2261	National, Regional and Global	इस प्रश्न पत्र में विद्यार्थी 'मध्ययुगीन हिन्दी काव्य के अंतर्गत तुलसी, मीरा जैसे भक्त कवि और रीति कवि बिहारी के काव्य के गूढ़ार्थ से परिचित होंगे। राम काव्य सम्बन्धी ज्ञान प्राप्त करते हुए तुलसीदास की समन्वय साधना, लोकनायकत्व, भक्ति भावना एवं दार्शनिक सिद्धान्तों का गहन अध्ययन करने में समर्थ होंगे। मीराबाई के काव्य के अध्ययन से विद्यार्थी उनकी भक्ति भावना, दार्शनिक सिद्धांत एवं काव्य सौष्ठव का ज्ञान प्राप्त करेंगे। रीतिकालीन कवि बिहारी की सतसई के

				गहन अध्ययन से विद्यार्थी सतसई में वर्णित भक्ति, नीति, श्रृंगार से संबंधित बिहारी के अभिधार्थ, लक्ष्यार्थ एवं व्यंग्यार्थ को समझेंगे।
Master of Arts (Hindi) Semester-II	हिन्दी साहित्य का इतिहास (खंड- दो )	MHIL - 2262	National, Regional and Global	साहित्य की दृष्टि से साहित्यक सत्र कि रचनाओं का मूल्यांकन करना साहित्य का इतिहास कहलाता है। यदि आधुनिक साहित्य के स्वरूप को जानना है तो यह अत्यंत आवश्यक है कि उसके विगत का विवरण भी जाना जाए। विगत का विवरण एवं बोध जिससे अतीत के जीवन को प्रभावित किया हो ओर भविष्य के लिए भी संकेत हो, साहित्य का इतिहास कहलाता है।
Master of Arts (Hindi) Semester-II	पाश्चात्य काव्यशास्त्र	MHIL - 2263	National, Regional and Global	भारतीय काव्यशास्त्र के परिचय के उपरान्त इस पाठ्यक्रम के द्वारा विद्यार्थी पाश्चात्य काव्यशास्त्र के क्रमिक विकास के अंतर्गत प्लेटो, अरस्तू, लोजईस से लेकर आधुनिक आलोचकों की साहित्य एवं साहित्य की समीक्षा से सम्बन्धित विभिन्न धारणाओं से अवगत होंगे। आधुनिक युग में स्वच्छंदतावाद, अस्तित्ववाद, उत्तर आधुनिकतावाद इत्यादि दार्शनिक विचारधाराओं के स्वरूप और विशेषताओं को जानेगें।
Master of Arts (Hindi) Semester-II	मीडिया लेखन	MHIL - 2264	National, Regional and Global	हिन्दी की प्रयोजन मूलकता को सिद्ध करती पत्रकारिता के क्षेत्र की सैद्धांतिक और व्यावहारिक जानकारी, सम्पादन, प्रूफ पठन, समाचार लेखन व वाचन, उद्घोषणा: लेखन व वाचन, संवाद, विज्ञापन, फीचर, रिपोर्टाज, पटकथा, डाक्यूमेंट्री, नाटक लेखन का व्यावहारिक ज्ञान।
Master of Arts (Hindi) Semester-II	राजी सेठ : विशेष अध्ययन	MHIL - 2265	National, Regional and Global	राजी सेठ के साहित्य का अध्ययन करने के उपरान्त विद्यार्थी स्त्री के जीवन में आने वाली समस्याओं का सामना करने में सक्षम होंगें। इस साहित्य के माध्यम से विद्यार्थी को आत्म-विश्लेषण करने में सहायता मिलेगी। उपन्यास और कहानियों के माध्यम से वे स्त्री-मनोविज्ञान के विषय में जानकारी प्राप्त कर सकेंगे।
Master of Arts (Hindi) Semester-II	नाटककार मोहन राकेश (Opt-i)	MHIL - 2266	National, Regional and Global	संगीत नाटक आकादमी द्वारा मोहन राकेश के 'आषाढ़ का एक दिन' नाटक का सर्वश्रेष्ठ प्रस्तुतिकरण के लिए पुरस्कृत किया गया। उसके बाद से नाटक लगातार आगे बढ़ता जा रहा है। इस प्रश्नपत्र के माध्यम से विद्यार्थी नाटककार मोहन राकेश के जीवन, उनके नाट्य प्रयोगों

				तथा उनकी नाट्य भाषा को जानने , समझने में सक्षम हो पाएंगे।
Master of Arts (Hindi) Semester-II	भारतीय साहित्य (Opt-ii)	MHIL - 2266	National, Regional and Global	सम्पूर्ण भारतीय साहित्य के बारे में जानने के लिए यह प्रश्नपत्र सम्पूर्ण भारत को जोड़ने का काम करता है। अपने-अपने क्षेत्रों के अतिरिक्त सम्पूर्ण भारत में किन-किन साहित्यकारों ने हिंदी भाषा और साहित्य में अपना योगदान दिया है इसकी पूरी जानकारी इस प्रश्नपत्र के माध्यम से मिलेगी। उड़िया, बंगला और मराठी के क्रमशः कविताएं, उपन्यास और नाटक के अनुवाद माध्यम से विद्यार्थी भारतीय साहित्य कि समृद्ध परम्परा से परिचित होता है।
Master of Arts (Hindi) Semester-II	पंजाब का आधुनिक हिन्दी साहित्य (Opt-iii)	MHIL - 2266	National, Regional and Global	हिंदी की विविध विधाओं के विकास में पंजाब का योगदान अतुलनीय है। इस प्रश्नपत्र में पंजाब के आधुनिक हिंदी साहित्य कि पृष्ठभूमि के हस्ताक्षरों का अध्ययन भी विद्यार्थी कर सकेगा।
Master of Arts (Hindi) Semester-III	आधुनिक हिंदी काव्य: द्विवेदीयुगीन एवं छायावाद	MHIL - 3261	National, Regional and Global	इस पाठ्यक्रम से विद्यार्थी आधुनिक हिंदी कविता के प्रस्थान बिंदु द्विवेदीयुगीन काव्य और तदुपरांत खड़ी बोली हिंदी कविता के स्वर्णयुग छायावादी काव्य को समझने के साथ हिंदी कविता के विकास में इन दोनों काव्यधाराओं के योगदान से अवगत होंगे। इस पाठ्यक्रम में द्विवेदी युग के प्रतिनिधि कवि मैथिलीशरण गुप्त की सर्वश्रेष्ठ रचना 'साकेत' तथा छायावादी युग के प्रमुख कवि श्री जयशंकर प्रसाद की कृति 'कामायनी' तथा सूर्यकांत त्रिपाठी निराला कि कविताएं वस्तुतः समकालीन परिस्थितियों के समानांतर भारतीय चेतना के क्रमिक विकास कि उत्कृष्ट प्रस्तुति हैं।
Master of Arts (Hindi) Semester-III	आधुनिक गद्य साहित्य	MHIL - 3262	National, Regional and Global	आधुनिक गद्य साहित्य हिन्दी के श्रेष्ठ साहित्य का परिचायक प्रश्नपत्र है जिसमें महादेवी वर्मा कृत 'अतीत के चलचित्र'  संस्मरण साहित्य के माध्यम से विद्यार्थी तत्कालीन स्त्री की स्थिति का मूल्यांकन करने में समर्थ होंगे और संस्मरण साहित्य विधा को जानने में सक्षम होंगे। राजेन्द्र यादव द्वारा सम्पादित कहानी संग्रह 'एक दुनियां समानांतर' में संकलित कहानियों के अध्ययन से विद्यार्थी आधुनिक हिंदी के उच्चकोटि के कथाकारों के साहित्यिक अवदान एवं कहानियों में वर्णित समस्याओं से परिचित होंगे।

Master of Arts (Hindi) Semester-III	भाषा विज्ञान	MHIL - 3263	National, Regional and Global	भाषा और भाषा विज्ञान, समाज विज्ञान, मनोभाषा विज्ञान, शैलिविज्ञान, रूपांतरण प्रजनक, व्यवस्था परक, प्रकार्य परक व्याकरण की समस्त जानकारी एवं भाषा वैज्ञानिक परिप्रेक्ष्य में साहित्य का विश्लेषण करने का सम्पूर्ण ज्ञान।
Master of Arts (Hindi) Semester-III	पत्रकारिता प्रशिक्षण	MHIL - 3264	National, Regional and Global	विद्यार्थी रेडियो, टी.वी, समाचार पत्र हिन्दी विशेषग्य, प्रोग्राम प्रोड्यूसर, संपादक, संवाददाता, अनुवादक, प्रूफ रीडर, के रूप में रोजगार प्राप्त कर सकते हैं। इस डिप्लोमा से प्राप्त योग्यता के आधार पर विद्यार्थी मीडिया हेतु विज्ञापन, पटकथा, संवाद एवं गीत लेखन के व्यवसाय को भी विकल्प के रूप में अपना सकता है।
Master of Arts (Hindi) Semester-III	चित्रा मुद्रल:विशेष अध्ययन	MHIL - 3265	National, Regional and Global	चित्र मुद्रगल के उपन्यास 'गिलिगडु' के माध्यम से विद्यार्थी वृद्ध जीवन की आवश्यकताओं व वृद्धा की मानसिकता को समझने में सक्षम होंगे। कहानियों के माध्यम से चित्रित समाज की वास्तविक स्थिति को समझने में समर्थ होंगे। स्व और समाज को सुधारने की दृष्टि प्राप्त होगी।
Master of Arts (Hindi) Semester-III	गुरु नानक देव जी (Opt-i)	MHIL - 3266	National, Regional and Global	इस प्रश्न - पत्र के माध्यम से विद्यार्थी सिक्खों के प्रथम गुरु के सम्बन्ध में जानकारी प्राप्त कर सकते हैं। गुरु नानक जी की वाणी के सम्बन्ध में जानकारी प्राप्त कर सकते हैं। गुरु नानक जी की वाणी के माध्यम से उनके विचारों और जीवन में उनके महत्व के बारे में जानकारी हासिल कर सकते हैं।
Master of Arts (Hindi) Semester-III	सूरदास (Opt-ii)	MHIL - 3266	National, Regional and Global	सूरदास विरचित कृष्ण लीला के महत्वपूर्ण प्रसंगों पर आधारित सरस एवं भक्तिपूर्ण पदों के माध्यम से भक्ति के स्वरूप और साहित्य की सरसता को आत्मसात करने के योग्य होंगे। मध्ययुगीन कृष्ण भक्ति सम्प्रदाय में सूरदास की भक्ति भावना और उसके आधार में निहित दार्शनिक भूमिका की समझने में सक्षम होंगे। सूरकाव्य में निहित संगीत, लय और गीति तत्व की विशेषता को आत्मसात करने के साथ - साथ विद्यार्थी भाषा के सौन्दर्य को समृद्ध बनाने वाले उपकरण - रस, छंद, अलंकार इत्यादि के व्यवहारिक उपयोग और सौन्दर्य को समझने में योग्य होंगे।
Master of Arts (Hindi)	हिंदी कहानी	MHIL - 3266	National, Regional and	कहानी साहित्य को आत्मसात करने का सर्वश्रेष्ठ माध्यम है। इस प्रश्नपत्र में विद्यार्थी - वर्ग को

Semester-III	(Opt-iii)		Global	कहानी के स्वरूप,विकास यात्रा, कहानी के आन्दोलनों एवं समकालीन कहानी साहित्य की विशेषताओं का विस्तृत एवं गहन ज्ञान प्राप्त होगा। अज्ञेय की कहानियों के माध्यम से महानगरीय जीवन की विसंगतियों से जूझते मनुष्य से साक्षात्कार कर विद्यार्थी उनकी समस्याओं से अवगत होंगे। भीष्म साहनी की कहानियों के परिप्रेक्ष्य में विद्यार्थियों के समक्ष पंजाब की तत्कालीन स्थिति, विभाजन की त्रासदी से उत्पन्न संत्रास, विदेशी वातावरण में अपनी मिट्टी की महक के दर्शन होंगे। मन्नू भंडारी की कहानियों के द्वारा विद्यार्थी समकालीन संदर्भ में स्त्री की स्थिति, आधुनिक युग की समस्याओं से दो - चार होती, जूझती नारी एवं स्त्री अस्मिता से जुड़े प्रश्नों का साक्षात्कार करेंगे।
Master of Arts (Hindi) Semester-IV	आधुनिक हिंदी काव्य: छायावादोत्तर काल	MHIL - 4261	National, Regional and Global	आधुनिक हिंदी काव्य: 'छायावादोत्तर काल' में अज्ञेय, धूमिल एवं मुक्तिबोध के काव्य के माध्यम से छायावाद के बाद की हिंदी कविता में कथ्य एवं भाषा शैली के स्तर पर आए परिवर्तनों को समझेंगे। स्वातंत्र्योत्तर युग में जैसे-जैसे पूंजीवाद के फलस्वरूप भौतिकवादी रुझानों ने भारतीय जीवन-शैली, राजनीतिक सामाजिक व्यवस्था, जीवन मूल्यों और सामाजिक सम्बन्धों को प्रभावित किया वैसे-वैसे वे अनुभूतियां किस प्रकार तीव्र और गहन रूप में काव्य में अभिव्यक्त हुई हैं उपर्युक्त कविओं का काव्य इसका प्रमाण है।
Master of Arts (Hindi) Semester-IV	आधुनिक गद्य साहित्य	MHIL - 4262	National, Regional and Global	यह प्रश्नपत्र साहित्य की विविध विधाओं से परिचित कराता है। यह निबंध, नाटक एवं आत्मकथा साहित्य की त्रिवेणी है जिसमें स्नात होकर विद्यार्थी अपने ज्ञान को सम्पुष्ट करता है। विभिन्न निबंधकारों के निबंधों में साहित्यिकता, व्यंग्य, संस्कृति एवं सभ्यता का पुट मिलता है।
Master of Arts (Hindi) Semester-IV	हिंदी भाषा और देवनागरी लिपि	MHIL - 4263	National, Regional and Global	देवनागरी लिपि का ज्ञान, समास, सन्धि, उपसर्ग, प्रत्यय, लिंग, वचन, कारक की व्यावहारिक जानकारी।
Master of Arts (Hindi) Semester-IV	राजभाषा प्रशिक्षण	MHIL - 4264	National, Regional and Global	राजभाषा शिक्षण के अंतर्गत राजभाषा के अधिनियम, राष्ट्रपति के आदेशों संवैधानिक नियमों की सम्पूर्ण जानकारी और कार्यालयी टिप्पण, प्रारूपण, संक्षेपण, विस्तारण, पत्र लेखन एवं पारिभाषिक शब्दावली निर्माण के सिद्धांत की

				विस्तृत जानकारी
Master of Arts (Hindi) Semester-IV	शोध प्रविधि	MHIL - 4265	National, Regional and Global	शोधार्थियों को साहित्य में शोध के लिए तैयार करना। शोध मानव ज्ञान को दिशा प्रदान करने, व्यावहारिक समस्याओं का समाधान करने में सहायक ज्ञान क्षेत्र कि किसी समस्या को सुलझाने कि प्रेरणा देता है।
Master of Arts (Hindi) Semester-IV	उत्तर काव्यधारा के सन्दर्भ में गुरु तेग बहादुर जी की वाणी का विशेष अध्ययन (Opt-i)	MHIL - 4266	National, Regional and Global	गुरु काव्य परम्परा में गुरु तेग बहादुर जी के योगदान का परिचय। गुरु तेगबहादुर जी के काव्य के दार्शनिक चिन्तन के व्याख्यात्मक पक्ष की अनुभूति। गुरु तेगबहादुर जी की वाणी के सांस्कृतिक पक्ष के दर्शन। गुरु तेगबहादुर जी की वाणी में अद्वैत दर्शन।
Master of Arts (Hindi) Semester-IV	हिंदी उपन्यास (Opt-ii)	MHIL - 4266	National, Regional and Global	हिंदी उपन्यास के विषय – वैविध्य के प्रति जागरूक करना। उपन्यास साहित्य के माध्यम से ततयुगीन परिवेशगत परिस्थितियों और प्रवृत्तियों को दर्शाते हुए नवीन दृष्टिकोण को उभारना। गद्य साहित्य की भाषाई कला का निरूपण करना। उपन्यासों के माध्यम से मूल्यों के प्रति चेतित होना। उपन्यासों के द्वारा भारतीय संस्कृति का अध्ययन करना। पंजाब के सामाजिक सांस्कृतिक परिवेश को समझना।
Master of Arts (Hindi) Semester-IV	निबंधकार आचार्य रामचंद्र शुक्ल (Opt-iii)	MHIL - 4266	National, Regional and Global	आचार्य रामचंद्र शुक्ल के निबंधकार रूप से परिचित करवाना। उनके निबंधों के विषयीगत वैशिष्ट्य को प्रस्तुत कर निबंध विधा में उनके वैशिष्ट्य को दर्शाना। निबंधों की भाषा, शब्द, शैली और संरचना के माध्यम से निबंध –लेखन को नव्य परम्परा से अवगत करवाना।
Bachelor of Arts Semester-I	हिन्दी साहित्य का इतिहास	BARM-1268	National, Regional and Global	हिंदी साहित्य के इतिहास के विभिन्न युगों – आदिकाल, भक्तिकाल, रीतिकाल तथा आधुनिक काल के अध्ययन से विद्यार्थी साहित्य के समाज – सापेक्ष स्वरूप को समझने में समर्थ होंगे। भिन्न – भिन्न कालों की परिस्थितियां मनुष्य एवं साहित्यकार की मानसिकता को कैसे प्रभावित करती हैं और मनोविज्ञान और प्रभाव साहित्यिक रचनाओं में किस प्रकार प्रतिबिंबित होते हैं, साहित्य के विद्यार्थी इस रोचक जानकारी को वैज्ञानिक और तार्किक दृष्टि से समझेंगे।
Bachelor of Arts Semester-II	प्राचीन एवं मध्यकालीन	BARM-2268	National, Regional and	हिंदी साहित्य में पद्य रचना एक प्राचीन विधा है और हिंदी पद्य लेखन अर्थात हिंदी काव्य का एक

	हिंदी काव्य		Global	विकास क्रम है जिसे आदिकाल से लेकर आधुनिक काल तक अनेक चरणों/पड़ावों में विभक्त किया गया है। बी.ए. के विद्यार्थी इसी विकास क्रम के अनुसार हिंदी के क्रमिक विकास को समझने में समर्थ होंगे। मध्यकाल को हिंदी साहित्य का 'स्वर्णकाल' कहा गया है। इस युग में कबीर, गुरुनानक, तुलसीदास, सूरदास, मीराबाई, रहीम, रसखान, गुरु गोबिन्द सिंह, घनानंद, बिहारी जैसे कालजयी कवि हुए। इनके द्वारा रचित साहित्य के अध्ययन से विद्यार्थी हिंदी साहित्य और भाषा के विकास को क्रमशः समझने के योग्य होंगे।
Bachelor of Arts Semester-III	आधुनिक हिंदी काव्य	BARM-3268	National, Regional and Global	आधुनिक काल के प्रमुख कवियों की जानकारी। आधुनिक काल में हिंदी कविता के विकास के विभिन्न चरणों का परिचय। काव्य प्रवृत्तियों में क्रमशः विकसित हुई विशदता एवं व्यापकता के अनुरूप भाषा एवं शिल्प के क्रमिक परिवर्तित रूप की जानकारी
Bachelor of Arts Semester-IV	आधुनिक हिंदी कथा साहित्य	BARM-4268	National, Regional and Global	हिंदी कथा साहित्य की अवधारणा का परिचय। हिंदी के दो प्रमुख सर्जक साहित्यकारों कथा सम्राट मुंशी प्रेमचंद तथा उल्लेखनीय साहित्यकार श्री धर्मवीर भारती के व्यक्तित्व एवं उनके रचनात्मक योगदान की जानकारी। हिंदी साहित्य की दो श्रेष्ठ रचनाओं 'गुनाहों का देवता' उपन्यास तथा हिंदी के प्रख्यात कहानीकारों की कहानियों के माध्यम से समाज की विभिन्न समस्याओं, बदलते हुए सामाजिक परिवेश में मानव मन के अंतर्द्वंद्व, राजनीतिक एवं प्रशासनिक परिवेश की विसंगतियों के सरस और मार्मिक अध्ययन का अवसर।
Bachelor of Arts Semester- V	हिंदी की आधुनिक गद्य विधाएं	BARM-5268	National, Regional and Global	हिंदी की नवीन गद्य विधाओं का परिचय। गद्य विधाओं के तात्त्विक स्वरूप एवं रचनात्मक प्रक्रिया का ज्ञान। गद्य विधाओं के विषय, भाषा एवं शैलीगत वैविध्य का रसास्वाद। गद्य लेखन के व्यापक क्षेत्र और उसमें निहित सम्भावनाओं के प्रति रूचि एवं सजगता।
Bachelor of Arts Semester-VI	विशिष्ट रचनाकार एवं रचना : सेधान्तिक एवं विश्लेषणात्मक	BARM-6268	National, Regional and Global	हिंदी के मूर्धन्य कवि 'दिनकर' और उनके विख्यात खंडकाव्य रश्मिरथी के अध्ययन का रसास्वादन भारतीय सांस्कृतिक चेतना जैसे दान, दया, धर्म, धैर्य इत्यादि के महत्त्व का ज्ञान रश्मिरथी के मूल मंतव्य का वर्तमान परिधि में

	अध्ययन, अनुवाद बोध			मूल्यांकन
Bachelor of Arts Semester-III	आधुनिक काव्य तथा काव्य नाटक	BARL-3569	National, Regional and Global	हिंदी कविता के आधुनिक युग में विभिन्न काव्य-प्रवृत्तियाँ दृष्टिगोचर होती हैं। विशेष रूप से स्वतंत्रता के पश्चात् सन 1950 के बाद का समय नयी कविता, समकालीन कविता, जनवादी कविता का दौर है। तात्कालीन परिस्थितियों की पीठिका पर रचित यह कविता यथार्थ की, मोहभंग की, नए युगीन बोध की कविता है। बी.ए.आनर्ज़ के विद्यार्थी इस परिवर्तन को काव्य साहित्य के माध्यम से समझेंगे।
Bachelor of Arts Semester-IV	गद्य साहित्य : निबंध, संस्मरण तथा अनुवाद	BARL-4569	National, Regional and Global	गद्यकाल के नाम से अभिहित आधुनिक युग में गद्य की अनेक विधायों का विकास हुआ। इनमें निबन्ध और संस्मरण साहित्य प्रमुख हैं। हिंदी के दो प्रतिनिधि निबन्ध एवं संस्मरण लेखकों महादेवी वर्मा तथा अध्यापक पूर्णसिंह के संस्मरण और निबन्ध साहित्य विद्यार्थियों को इन विधायों के तात्विक स्वरूप एवं इनकी प्रवृत्तियों, इन विधायों के कलात्मक सौन्दर्य को व्यावहारिक रूप से समझने में सहायक होंगे।
Bachelor of Arts Semester-V	आधुनिक हिंदी नाटक एवं उपन्यास	BARL-5569	National, Regional and Global	हिंदी रंगमंच और नाटक के विकास क्रम का परिचय हिंदी के प्रख्यात नाटककार डॉ. लक्ष्मीनारायण लाल के व्यक्तित्व एवं कृतित्व से परिचय समकालीन सामाजिक यथार्थ और मानव-मूल्यों के प्रतिपादन में विधा के रूप में नाटक के सामर्थ्य की जानकारी मुंशी प्रेमचंद की औपन्यासिक शैली से परिचय
Bachelor of Arts Semester-VI	भारतीय काव्यशास्त्र एवं आधुनिक आलोचना की प्रवृत्तियां	BARL-6569	National, Regional and Global	काव्य सिद्धांतों (अलंकार, रीति, वक्रोक्ति, औचित्य, ध्वनि, रस) शब्द शक्तियों, बिम्ब और प्रतीक इत्यादि काव्यशास्त्रीय अवधारणाओं की जानकारी जिससे विद्यार्थी प्राचीन और अर्वाचीन साहित्य में निर्माण के महत्वपूर्ण घटकों की पहचान द्वारा साहित्य के सौन्दर्य को आलोचनात्मक दृष्टि से समझने में सक्षम होंगे।

<b>Name of Programme</b>	<b>Name of the Course</b>	<b>Course Code</b>	<b>Focus Local, National, Regional, and Global</b>	<b>Description</b>
Bachelor of Arts (Semester-I)	History (History of India Upto C. 1000)	BARL-1273	National	To understand the Ancient Indian History starting from Indus Valley Civilization and understand the various factors leading to rise and fall of empires and emergence of new dynasties and their economy, art, administration, political and religious policies.
Bachelor of Arts (Semester-II)	History (History of India(C. 1000–A.D.1707))	BARL-2273	National	To get the Knowledge of the chronological framework of the course from 1000A.D. to 1707 AD and its importance and also evaluate the emergence and fall of the dynasties during the period (Delhi Sultante, Mughals, VijayNagar empire etc.)
Bachelor of Arts (Semester-III)	History (History of India (AD 1707-1947))	BARL-3273	National	Understand the establishment of the British rule in India and the factors responsible for the liquidation of the Mughal Empire in India. Comprehend the causes of the rise of Nationalism and the growth of Indian resistance to the British Rule, leading to the partition of India.
Bachelor of Arts (Semester-IV)	History (History of the Punjab (AD 1469-1799))	BARL-4273	Regional	Understand and analyze the contribution and History of Sikh Gurus and their implications till date.
Bachelor of Arts (Semester-V)	History(History of the World 1500-1956 AD)	BARL-5273	Global	To study the important events in the History of Europe starting from Renaissance and Reformation till the Second World War that changed the old world order.
Bachelor of Arts (Semester-VI)	History ( History of the Punjab (1799-1966))	BARL-6273	Regional	Understand the history of Punjab from the foundation of first Sikh empire in 1799 to the formation of New Punjab in 1966.
Bachelor of Arts (Semester-III)	History Honours (Option II Akbar)	BARL-3589	National	Understand the formation, expansion and consolidation of Mughal Empire under Akbar.

Bachelor of Arts (Semester-IV)	History Honours (Option (II) The National Movement)	BARL-4589	National	Understand the emergence of national movement and consciousness among Indians Understand the contribution of national leaders to create a memory of their sacrifices and analyze the major movements that led to the freedom of the country.
Bachelor of Arts (Semester-V)	History Honours (The French Revolution (1789–1799))	BARL-5589	Global	Understand the French Revolution from a social, economic, political, cultural and philosophical perspective, particularly the building of French Republic.
Bachelor of Arts (Semester-VI)	History Honours (Russian Revolution of 1917 and Russian Reconstruction Under Lenin	BARL-6589	Global	To Study the factors weading to the Russian Revolution and consolidation of the Bolshevik regime.  Understand New Economic Policy and new State and Society.
Bachelor of Arts/ Bachelor of Science (Medical) / Bachelor of Science (Non- Medical) / Bachelor of Science (Honours) Maths/ Bachelor of Science (Honours) Physics/ Bachelor of Science (Computer Science) / Bachelor of Science (Economics) / Bachelor of Commerce / Bachelor of Business Administration/ Bachelor of	Punjab History and Culture (From Earliest Times to C 320)	BARL-1431 BSML-1431 BSNL-1431 BOML-1431 BOPL-1431 BCSL-1431 BECL-1431 BCRL-1431 BBRL-1431 BJML-1431 BFDL-1431 BHSL-1431 BCAL-1431 BITL-1431 BBTL-1431 BOEL-1431	Regional	To study the developments under Ancient Punjab.

Arts (Journalism & Mass Communication) / Bachelor of Science (Fashion Design) / Bachelor of Science (Home Science) / /Bachelor of Computer Application /Bachelor of Science (Information Technology)/ Bachelor of Science (Bio-Technology) / Bachelor of Arts (Honours) English / (Semester-I)				
Bachelor of Arts/ Bachelor of Science (Medical) / Bachelor of Science (Non-Medical) / Bachelor of Science (Honours) Maths/ Bachelor of Science (Honours) Physics/Bachelor of Science (Computer Science) / Bachelor of Science (Economics) / Bachelor of	Punjab History and Culture (C. 320 to 1000 B.C.)	BARL-2431 BSML-2431 BSNL-2431 BOML-2431 BOPL-2431 BCSL-2431 BECL-2431 BCRL-2431 BBRL-2431 BJML-2431 BFDL-2431 BHSL-2431 BCAL-2431 BITL-2431 BBTL-2431 BOEL-2431	National	Understand the various factors leading to rise and fall of empires and emergence of new dynasties and their administration specifically of Maurya rule in general and Ashok in particular

<p>Commerce / Bachelor of Business Administration/ Bachelor of Arts (Journalism &amp; Mass Communication) / Bachelor of Science (Fashion Design) / Bachelor of Science (Home Science) / /Bachelor of Computer Application /Bachelor of Science(Information Technology)/ Bachelor of Science (Bio- Technology) / Bachelor of Arts (Honours) English / (Semester-II)</p>				
<p>Bachelor of Arts / Bachelor of Science (Medical) / Bachelor of Science (Non- Medical) / Bachelor of Science (Computer Science) / Bachelor of Science (Economics) / Bachelor of Commerce / Bachelor of</p>	<p>Punjab History and Culture (From 1000-1605 A. D.)</p>	<p>BARL-3431 BSML-3431 BSNL-3431 BCSL-3431 BECL-3431 BCRL-3431 BBRL-3431</p>	<p>Regional</p>	<p>Understand the society and culture of Medieval Punjab.</p>

Business Administration (Semester III)				
Bachelor of Arts / Bachelor of Science (Medical) / Bachelor of Science (Non-Medical) / Bachelor of Science (Computer Science) / Bachelor of Science (Economics) / Bachelor of Commerce / Bachelor of Business Administration (Semester IV)	Punjab History and Culture (From 1605 to 1849 A.D)	BARL-4431 BSML-4431 BSNL-4431 BCSL-4431 BECL-4431 BCRL-4431 BBRL-4431	Regional	Understand the adoption of new policy by Guru Hargobind and martyrdom of Guru Tegh Bahadur, factors leading to the establishment of Khalsa Panth and its impact. Have deep insight into the conflict with Mughals and the rise of Banda Singh Bahadur and aftermath.  Understand the fairs, festivals and folk music of Punjab.
Bachelor of Arts / Bachelor of Science (Medical) / Bachelor of Science (Non-Medical) / Bachelor of Science (Computer Science) / Bachelor of Science (Economics) / Bachelor of Commerce / Bachelor of Business Administration (Semester V)	Punjab History and Culture (From 1849-1947 A.D)	BARL-5431 BSML-5431 BSNL-5431 BCSL-5431 BECL-5431 BCRL-5431 BBRL-5431	Regional	Understand the causes that led to war the British and Sikhs that led to the Annexation of the Punjab and How the put under the control of Board of Administration.
Bachelor of Arts / Bachelor of Science (Medical) /	Punjab History and Culture (1947- 2000 A.D.)	BARL-6431 BSML-6431 BSNL-6431 BCSL-6431 BECL-6431	Regional	Comprehend Punjab's contribution in the freedom struggle, the exodus and Rehabilitation.

<p>Bachelor of Science (Non-Medical) / Bachelor of Science (Computer Science) / Bachelor of Science (Economics) / Bachelor of Commerce / Bachelor of Business Administration (Semester VI)</p>		<p>BCRL-6431 BBRL-6431</p>		
<p>Bachelor of Vocation (Retail Management)/ Bachelor of Vocation (Management and Secretarial Practices)/ Bachelor of Vocation (Animation)/ Bachelor of Vocation (Textile Designing and Apparel Technology)/ Bachelor of Vocation (Nutrition Exercise and Health) Bachelor of Vocation (Beauty and Wellness)/ Bachelor of Vocation (Artificial Intelligence)/ Bachelor of Vocation (Hospitality</p>	<p>Punjab History and Culture (From Earliest Times to C 320)</p>	<p>BVRL- 1431 BVML-1431 BVAL-1431 BVTL-1431 BVNL-1431 BVBL-1431 BVAL -1431 BVHL-1431</p>	<p>Regional</p>	<p>To study the developments under Ancient Punjab.</p>

and Tourism) ( Semester-I)				
Bachelor of Vocation (Retail Management)/ Bachelor of Vocation (Management and Secretarial Practices)/ Bachelor of Vocation (Animation)/ Bachelor of Vocation (Textile Designing and Apparel Technology)/ Bachelor of Vocation (Nutrition Exercise and Health) Bachelor of Vocation (Beauty and Wellness)/ Bachelor of Vocation (Artificial Intelligence)/ /Bachelor of Vocation (Hospitality and Tourism) Semester-II	Punjab History and Culture (C. 320 to 1000 B.C.)	BVRL- 2431 BVML-2431 BVAL-2431 BVTL-2431 BVNL-2431 BVBL-2431 BVAL -2431 BVHL-2431	National	Understand the various factors leading to rise and fall of empires and emergence of new dynasties and their administration specifically of Maurya rule in general and Ashok in particular.
Bachelor of Commerce (Honours) Semester-I	Punjab History and Culture (1450- 1716)	BCOL-1431	Regional	Make a comparison between the philosophy and teachings of first five Sikh Gurus and their relevance in the present scenario.
Bachelor of Commerce (Honours) Semester-II	Punjab History and Culture (1717- 1947)	BCOL-2431	Regional	Understand the struggle of Sikhs for the power and rise of Ranjit Singh.

Bachelor of Arts (Honours) English Semester I	History of England (1485-1688)	BOEL-1277	Global	Comprehend the journey of the British History from monarchy to Parliamentary form of Government and how the rise and fall of dynasties takes place establishing various Acts and Rights.
Bachelor of Arts (Honours) English Semester II	History of England (1688-1782)	BOEL-2277	Global	Critically analyze, using historical evidence, one major turning points in British history after 1688 namely Colonial Supremacy and colonial rivalries and significant developments under Hanoverian period. Have an overview of the economic, political, social, cultural, and scientific developments from 1688 to the present period under study.
Bachelor of Arts (Honours) English Semester III	History of England (1782-1853)	BOEL-3276	Global	Have better understanding of the main events of the French Revolution (1789–99) and its significance in the shift in European Politics from Monarchy to Democracy. Understand the role of Empire in National Identity.
Bachelor of Arts (Honours) English Semester IV	History of England (1853-1914)	BOEL-4276	Global	Critically analyze, using historical evidence, major turning points in British history after 1852 namely Colonial Supremacy and colonial rivalries. To explore and better understand the different ideologies pertaining to the British Empire including mercantilism, classical liberalism, and protectionism.
Bachelor of Arts (Honours) English Semester V	History of England (1914-1939)	BOEL 5277	Global	To comprehend and analyse the rise of Trade Unionism in England. To focus on the historical forces and events that affected the world between the two world wars. To understand, evaluate and analyse the technology of war and alliances throughout the 20th century and learn lessons from the same.
Bachelor of Arts (Honours) English Semester-VI	History of England (1939-1995)	BOEL-6277	Global	Have an understanding of key events and themes in British History in the 20th Century and place this understanding in the wider context of

				Britain's relationship with Europe and the wider world.
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### Department of Journalism Mass Communication

Name of Programmes	Name of the Course	Course Code	Focus Local, National, Regional, and Global	Description
Master of Arts (Journalism and Mass Communication) Semester I	Introduction to Communication	MJML-1311	Global	To Understand the role of Communication in personal & professional success and develop awareness of appropriate communication strategies.
Master of Arts (Journalism and Mass Communication) Semester I	History of Print Media in India	MJML-1312	National	This course will enable the students to learn about the history of print media in detail, the role of press during the Independence movement and afterwards in the country.
Master of Arts (Journalism and Mass Communication) Semester I	Reporting and Editing	MJML-1313	Global	To understand the Patterns of different types of reporting will enable the students to learn to represent various issues in a professional way.
Master of Arts (Journalism and Mass Communication) Semester I	Media Law and Ethics	MJML-1314	National	This course will enable the students to learn about different laws related to journalism in detail so that they will not face any legal problems in their professional life later.
Master of Arts (Journalism and Mass Communication) Semester I	Advertising	MJMM-1315	Global	To impart the knowledge about the challenging and competitive world of Advertising.
Master of Arts (Journalism and Mass Communication) Semester II	Development Communication	MJML-2311	National	To impart the Knowledge about development communication and its various stakeholders and policy makers, assessment of risks and opportunities through development communication.
Master of Arts (Journalism and Mass Communication)	Media Management	MJML-2312	Global	Media management is the strategic formulation of

Communication) Semester II				activities designed to carry out the objectives of the media program. Students are involved in research to become proficient in media analysis and hone their negotiation skills.
Master of Arts (Journalism and Mass Communication) Semester II	Current Affairs	MJML-2313	National	To enhance the knowledge about various kinds of political, business and sports related activities around the world, which will enhance their career in future as a media professional.
Master of Arts (Journalism and Mass Communication) Semester II	Communication Research-I	MJML-2314	National	To impart the knowledge about how to conduct research individually and in a group in a clear and imaginative manner.
Master of Arts (Journalism and Mass Communication) Semester II	Radio & TV Programming	MJMM-2315	National	The basic concepts and fundamental elements of Radio and TV production.
Master of Arts (Journalism and Mass Communication) Semester III	Mass Communication Research-II	MJML-3311	National	To make the students learn how to access, analyze and use the information by using a range of research tools for their projects.
Master of Arts (Journalism and Mass Communication) Semester III	New Media Technology	MJML-3312	Global	The primary goal is to help students use the power of the Internet as a powerful tool for the Mass Communication and the limitless potential in the field of New media.
Master of Arts (Journalism and Mass Communication) Semester III	Public Relation and Corporate Communication	MJML-3313	Global	This provides an introduction to the principles, concepts and objectives of public relation & corporate communication.
Master of Arts (Journalism and Mass Communication) Semester III	Science Journalism	MJML-3314	Global	This provides an introduction to the principles, concepts, objectives and various domains of Science Journalism.
Master of Arts (Journalism and Mass Communication) Semester III	Photography	MJMM-3315	Global	The importance of photographs, techniques and utility of photography and its applications in mass media.
Master of Arts (Journalism and Mass Communication) Semester IV	International Communication	MJML-4311	Global	To explore the Political, economic and cultural dimensions of international communication.

Master of Arts (Journalism and Mass Communication) Semester IV	Human Rights	MJML-4312	National	The relationship between Human Rights and Media will be explained.
Master of Arts (Journalism and Mass Communication) Semester IV	Intercultural Communication	MJML-4313	Global	To explore the various dimensions of intercultural communication and also discuss the concept of Communication in western and eastern cultures.
Master of Arts (Journalism and Mass Communication) Semester IV	Dissertation	MJMD-4314	National	To enable the scholars to become aware of the theoretical knowledge available on the subject and the scientific way of writing the thesis.
Master of Arts (Journalism and Mass Communication) Semester IV	Film Studies (Practical)	MJMM-4315	National	To understand the Process of Film Production: Pre-Production, Production and Post-Production.
BAJMC (2022-23)				
Bachelor of Arts (Journalism and Mass Communication) Semester I	Principles of Communication	BJML-1313	Global	Understand the role of communication in personal & professional success.
Bachelor of Arts (Journalism and Mass Communication) Semester I	Reporting and Editing-I	BJML-1314	Global	The basics of journalism and news reporting.
Bachelor of Arts (Journalism and Mass Communication) Semester I	Media and Politics	BJML-1315	National	To impart knowledge about duties, responsibilities, principal and directions given by India constitution.
Bachelor of Arts (Journalism and Mass Communication) Semester I	Photo Journalism	BJML-1316	Global	The importance of photographs, techniques and utility of photography and its applications in mass media
Bachelor of Arts (Journalism and Mass Communication) Semester I	Print Media Lab	BJMP-1317	Local and National	Analysis of newspapers and news magazines.
Bachelor of Arts (Journalism and Mass Communication) Semester I	Photo Lab	BJMP-1318	Local and National	To impart knowledge about Camera components , Use of Lens or Lights
Bachelor of Arts (Journalism and Mass Communication) Semester II	Press Laws & Media Ethics	BJML-2313	National	To understand the laws related to press

Bachelor of Arts (Journalism and Mass Communication) Semester II	History of Print Media	BJML-2314	National	To aware the students about the role of Indian Press in freedom struggle
Bachelor of Arts (Journalism and Mass Communication) Semester II	Mass Communication :Concepts & Processes	BJML-2315	Global	To understand the various tools of Mass Communication
Bachelor of Arts (Journalism and Mass Communication) Semester II	Design & Graphics	BJML-2316	Global	The basic concepts of various designing software.
Bachelor of Arts (Journalism and Mass Communication) Semester II	Communication Lab	BJMP-2317	Global	To understand the various tools of MassCommunication
Bachelor of Arts (Journalism and Mass Communication) Semester II	Design & Graphics Lab	BJMP-2318	Global	The basic concepts of various designing software.
Bachelor of Arts (Journalism and Mass Communication) Semester III	Cyber Journalism	BJML-3311	National	The basic concepts of Cyber Journalism and its fundamental Concepts.
Bachelor of Arts (Journalism and Mass Communication) Semester III	Reporting and Editing - II	BJML-3312	Global	The basics of journalism and news reporting.
Bachelor of Arts (Journalism and Mass Communication) Semester III	History of Broadcasting in India: Policies and Principles	BJML-3313	National	The beginning of Television and Doordarshan in India.
Bachelor of Arts (Journalism and Mass Communication) Semester III	News Feature Writing	BJML-3314	National	The basic concepts of feature writing and the process of research needed for feature writing.
Bachelor of Arts (Journalism and Mass Communication) Semester III	Development Communication	BJML-3315	National	Develop an understanding of developmental issues in the mind of students.
Bachelor of Arts (Journalism and Mass Communication) Semester III	Reporting and Editing Lab	BJMP-3316	Global	The basics of journalism and news reporting.
Bachelor of Arts (Journalism and Mass Communication) Semester III	Cyber Lab	BJMP-3317	Global	The basic concepts of Cyber Journalism and its fundamental Concepts.

Bachelor of Arts (Journalism and Mass Communication) Semester III	Feature Writing	BJMP-3318	National	The basic concepts of feature writing and the process of research needed for feature writing.
Bachelor of Arts (Journalism and Mass Communication) Semester IV	Media:Business Communication	BJML-4311	National	Introduction to the principles, concepts and objectives of Media and Business Communication.
Bachelor of Arts (Journalism and Mass Communication) Semester IV	Programme Formats: Radio & TV	BJML-4312	National	The basic concepts and fundamental elements of Radio and TV production.
Bachelor of Arts (Journalism and Mass Communication) Semester IV	Video Production: Idea to Screen	BJML-4313	National	The basic concepts and fundamental elements of Video Production.
Bachelor of Arts (Journalism and Mass Communication) Semester IV	Folk Media	BJML-4314	Local and National	To trace the historical significance of various Folk Media of our country.
Bachelor of Arts (Journalism and Mass Communication) Semester IV	Advertising: Concepts & Principles	BJML-4315	National and Global	This fascinating subject will be explored with the specific objective of enabling interested students to eventually carve out a viable career in this field.
Bachelor of Arts (Journalism and Mass Communication) Semester IV	Radio & TV Production Lab	BJMP-4316	Global	The basic concepts and fundamental elements of Radio and TV production.
Bachelor of Arts (Journalism and Mass Communication) Semester IV	Operation & Handling of Equipment	BJMP-4317	National and Global	The basic concepts and fundamental elements of Video Production.
Bachelor of Arts (Journalism and Mass Communication) Semester IV	Advertising Lab	BJMP-4318	National and Global	To understand the scope & concept of Event Management
Bachelor of Arts (Journalism and Mass Communication) Semester V	Event Management: and Methods	BJML-5311	Global	To understand the practical dimensions of Event Management.
Bachelor of Arts (Journalism and Mass Communication) Semester V	Current Affairs: Contemporary Issue in Media-I	BJML-5312	Global / National	To understand the various political & social issues of the country.
Bachelor of Arts (Journalism and Mass Communication) Semester V	Media Research Methodologies	BJML-5313	National	To impart the knowledge about how to conduct research individually and in a group in a clear and imaginative manner.

Bachelor of Arts (Journalism and Mass Communication) Semester V	Social Media	BJML-5314	National and Global	To understand the functioning & mechanism of various social media platforms.
Bachelor of Arts (Journalism and Mass Communication) Semester V	Public Relations	BJML-5315	Local and National Global	To understand the mechanism of Public Relation in the context of New Media.
Bachelor of Arts (Journalism and Mass Communication) Semester V	Event Management Lab	BJMP-5316	Global	To understand the practical dimensions of Event Management.
Bachelor of Arts (Journalism and Mass Communication) Semester V	Pilot Study	BJMP-5318	National	To impart the knowledge about how to conduct research individually and in a group in a clear and imaginative manner.
Bachelor of Arts (Journalism and Mass Communication) Semester VI	Global Media	BJML-6311	Global	To impart the knowledge about international Newspapers and Radio.
Bachelor of Arts (Journalism and Mass Communication) Semester VI	Current Affairs: Contemporary Issue in Media-II	BJML-6312	Global /National	Study of current debates on social issues.
Bachelor of Arts (Journalism and Mass Communication) Semester VI	Perspective of Audio Sound	BJML-6313	Local and National	To impart the knowledge about Selection of Microphones and Types of Microphones.
Bachelor of Arts (Journalism and Mass Communication) Sem VI	Video Electronic Production	BJML-6314	National and Global	Process of Film Production: Pre-Production, Production and Post-Production.
Bachelor of Arts (Journalism and Mass Communication) Semester VI	Specialized Reporting	BJML-6315	National	To understand the concept of specialized reporting and Its relevance in the field of journalism.
Bachelor of Arts (Journalism and Mass Communication) Semester VI	Audio Lab	BJMP-6316	Local and National	To impart the knowledge about selection of microphones and types of Microphones.
Bachelor of Arts (Journalism and Mass Communication) Semester VI	Specialized Reporting Lab	BJMP-6317	Local and National	To understand the concept of specialized reporting and Its relevance in the field of journalism.
Bachelor of Arts (Journalism and Mass Communication) Semester VI	Film Project	BJMP-6318	Local and National	To understand the process of Film Production: Pre- Production, Production and Post-Production.

Bachelor of Arts Semester I	Journalism and Mass Communication (Vocational)	BARM-1313	Global	The course will enable the students to have an understanding of different Models & Theories of Communication.
Bachelor of Arts Semester II	Journalism and Mass Communication (Vocational)	BARM-2313	National	To understand the basic concepts related to Mass Communication.
Bachelor of Arts Semester III	Journalism and Mass Communication Writing for Print Media	BARM-3313	National	The course will acquaint the students with the latest technology in the field of print media.
Bachelor of Arts Semester IV	Journalism and Mass Communication Mass Media and Photography	BARM-4313	National	Students will explore this immensely artistic as well as highly technical media.
Bachelor of Arts Semester V	Advertising	BARM 5313	Global	The students will learn the concept of online advertising & its application in today's world.
Bachelor of Arts Semester VI	Public Relations	BARM-6313	Global	To understand the mechanism of public relation in the context of New Media.

### Department of Management & Secretarial Practices

Name of Programmes	Name of the Course	Course Code	Focus Local, National, Regional and Global	Description
Bachelor of Vocation (Management & Secretarial Practices) Semester-I	Computer Fundamentals	BVML-1123	Global	This course provides basic computer knowledge about MS Office which is mandatory in every job profile in today competitive world.

Bachelor of Vocation (Management & Secretarial Practices) Semester-I	Work Management, Workplace, Health and Safety	BVML-1124	Global	This course enable the students to manage the workplace task by applying theoretical knowledge with legal requirements to be complied at workplace.
Bachelor of Vocation (Management & Secretarial Practices) Semester-I	Customer Relationship Management	BVML-1125	Global	Customer is the king of the market and without satisfying the customer no business can survive in the market. This course enables the students to know the basic customer needs, correspondence with customer and duties towards customers etc. It will prove helpful in gaining the customer loyalty and perform well at their job in customer services, research in development, customer relation manager etc.
Bachelor of Vocation (Management & Secretarial Practices) Semester-I	Office Management	BVML-1126	Global	Record keeping is legally essential for every business organisation. This subject enables the students to manage the office chores effectively and keep records perfectly. It will help in any corporate as well as management job.
Bachelor of Vocation (Management & Secretarial Practices) Semester-I	MS Office-I	BVMM-1127	Global	Detailed learning of MS office including PowerPoint Competition grooves the personality traits of the students by boosting their confidence and presentable skills. All of these are the essential qualities to get a decent job in today competitive world.

Bachelor of Vocation (Management & Secretarial Practices) Semester-II	Principles of Management	BVML-2323	Global	This course content will qualify the students to be a successful managers in practical business world.
Bachelor of Vocation (Management & Secretarial Practices) Semester-II	Basic Accounting	BVML-2324	National	Students can learn how to maintain systematic, accurate and complete record of financial transactions of a business.
Bachelor of Vocation (Management & Secretarial Practices) Semester-II	Commercial Laws	BVML-2325	National	This course throws light on legal requirements to be complied at every workplace which enables the students to understand the business environment in practical world.
Bachelor of Vocation (Management & Secretarial Practices) Semester-II	MS Office – II	BVMM-2126	Global	Detailed learning of MS office including PowerPoint Competition grooves the personality traits of the students by boosting their confidence and presentable skills. All of these are the essential qualities to get a decent job in today's competitive world.
Bachelor of Vocation (Management & Secretarial Practices) Semester-II	Lab based on Typing Skills (Data Entry)	BVMP-2127	Global	This course prepares the students for jobs like clerical cadre, administrative, data entry operator and many more.
Bachelor of Vocation (Management & Secretarial Practices) Semester-III	Business Organisation and Systems	BVML-3321	Global	This course provides the knowledge of core business environment, rules, procedures and policies which can help the students to commence their own business.
Bachelor of Vocation (Management & Secretarial Practices)	Management Information System	BVML-3122	Global	It enables the learner to understand the work and online record system of

Semester-III				an organization and enhances the chances of getting job in corporate firms.
Bachelor of Vocation (Management & Secretarial Practices) Semester-III	Marketing Management	BVML-3323	Global	Marketing Management identifies market opportunities and comes out with appropriate strategies for exploring those opportunities profitably.
Bachelor of Vocation (Management & Secretarial Practices) Semester-III	Business and Office Correspondence	BVML-3324	Global	This course provides the knowledge of various means of correspondence in business firm and also explains how to frame various means of correspondence.
Bachelor of Vocation (Management & Secretarial Practices) Semester-III	Accounting for Managers	BVML-3325	National	The syllabi consists of full fledge managerial aptitude program, as it is mixture of various important concepts of Financial, Cost as well as Management accounting. It enables the students to learn theoretical and practical concepts of recent practices in accounting in employability.
Bachelor of Vocation (Management & Secretarial Practices) Semester-III	Lab on Electronic CRM	BVMP-3126	Global	E-CRM is the latest technique to maintain customer's relations inventory management with ZOHO CRM software which adds to practical skills of the students.
Bachelor of Vocation (Management & Secretarial Practices) Semester-III	Computer based Accounting – TALLY	BVMP-3327	National	Practical knowledge of theoretical concepts is need of the hour and the topics covered under this course throw light on practical applications of accounting tools and

				techniques which for sure enhances chances of employability too.
Bachelor of Vocation (Management & Secretarial Practices) Semester-III	Lab on Life Skills	BVMP-3328	Global	Syllabus of this subject prepares the students to do job in today & stressful environment with the help of overall personality development.
Bachelor of Vocation (Management & Secretarial Practices) Semester-IV	Secretarial Practices	BVML-4321	National	The knowledge of this subject enables the students to get good job opportunities in corporate world, like Company Secretary, Manager moreover detailed knowledge of subject can help them to be a successful entrepreneur.
Bachelor of Vocation (Management & Secretarial Practices) Semester-IV	Digital Data Management	BVML-4122	Global	Students learn to manage data digitally, online record keeping, effective storage techniques and they can be eligible for the job of data analyst and data manager etc.
Bachelor of Vocation (Management & Secretarial Practices) Semester-IV	Managerial Skills	BVML-4323	Global	Managerial skills helps the student to manage the personnel in an organization tactfully and contains broad job opportunities in educational institution, public and private firms, hospitals etc.
Bachelor of Vocation (Management & Secretarial Practices) Semester-IV	Statistical Analysis	BVML-4324	Global	Statistical tools and techniques to analyse various business decisions helps in improving decision making capability of students.
Bachelor of Vocation (Management & Secretarial Practices) Semester-IV	Entrepreneurial Skills	BVML-4325	Global	It helps in analyzing the business environment in

Secretarial Practices) Semester-IV				order to identify business opportunities, identify the elements of success of entrepreneurial ventures, consider the legal and financial conditions for starting a business venture etc, which further motivates the students to be an entrepreneur.
Bachelor of Vocation (Management& Secretarial Practices) Semester-IV	Web based Applications for Office Management	BVMP-4126	Global	It excels the students in virtual business correspondence (Zoom, Google meet, management of email and other virtual platforms)
Bachelor of Vocation (Management& Secretarial Practices) Semester-IV	Minor Project (Computer based)	BVMD-4127	Global	It includes the activity of website designing with the help of HTML.
Bachelor of Vocation (Management& Secretarial Practices) Semester-V	Introduction to Graphic Designing	BVML-5121	Global	Graphic designing is an essential part of today's marketing and advertising companies so student can have the opportunities to work in renowned corporate houses as graphic designer.
Bachelor of Vocation (Management& Secretarial Practices) Semester-V	Fundamentals of Banking	BVML-5322	National	Detailed theoretical as well as practical training of students in banking field sharpen the skills of students to get a job in financial sector and banks.
Bachelor of Vocation (Management& Secretarial Practices) Semester-V	Fundamentals of Goods and Services Tax (GST)	BVML-5323	National	Students will come to know about GST. It is an indirect tax which has replaced many indirect taxes in India such as the excise duty, VAT, services tax, etc.

Bachelor of Vocation (Management & Secretarial Practices) Semester-V	Designing in Corel Draw	BVML-5124	Global	It enables the student for the job of graphic designer, advertisement designer and other professional designing work.
Bachelor of Vocation (Management & Secretarial Practices) Semester-V	Designing in Adobe Photoshop	BVML-5125	Global	Students will come to know image creation, graphic design and photo editing software developed by Adobe.
Bachelor of Vocation (Management & Secretarial Practices) Semester-V	Lab on Corel Draw	BVMP-5126	Global	Practical learning of Corel draw software enables the student for the job of graphic designer, advertisement designer and other professional designing work.
Bachelor of Vocation (Management & Secretarial Practices) Semester-V	Lab on Adobe Photoshop	BVMP-5127	Global	Practical learning of adobe Photoshop qualify the students to make their career in media line, to work as social media entrepreneur and many more.
Bachelor of Vocation (Management & Secretarial Practices) Semester-V	Lab on Goods and Services Tax (GST)	BVMP-5328	National	Practical knowledge of Goods and Services Tax will help students to learn how the GST is levied at every point of sale and how the GST actually charged in case of Intra-state sales, Central sales, State sales.
Bachelor of Vocation (Management & Secretarial Practices) Semester-VI	Fundamentals of Insurance	BVML-6321	Global	This content taught the risk management techniques and learners acquire technical and practical skills needed in building careers in the insurance industry.
Bachelor of Vocation (Management & Secretarial Practices)	Human Resource Management	BVML-6322	Global	Develop the understanding of the concept of human

Semester-VI				resource management and to understand its relevance in organizations. Students can apply for essential post of HR manager in an organization.
Bachelor of Vocation (Management & Secretarial Practices) Semester-VI	E- Publishing Fundamentals	BVML-6123	Global	This course designs methodology in the field of visual communication; explain technical tools necessary for the realization of the projects and the necessary interdisciplinary scientific skills etc. It open the multiple job opportunities for students.
Bachelor of Vocation (Management & Secretarial Practices) Semester-VI	Indian Financial System	BVML-6324	National	The Content of this course provides detailed knowledge of Indian Financial System and its functioning, Capital and money marketing working etc. Great job opportunities are available with students as financial advisor and legal consultant and investor.
Bachelor of Vocation (Management & Secretarial Practices) Semester-VI	Desktop Publishing in Adobe in-design	BVMM-6125	Global	Students learn professional printing with the help of desktop publishing technology which opens many doors of getting jobs in educational institutions, professional printing houses and corporate world.
Bachelor of Vocation (Management & Secretarial Practices) Semester-VI	Personality Enhancement lab	BVMP-6326	Global	Career Counselling/ Under this course students are polished with the appropriate corporate etiquettes and continuous career

				counselling, communication skills, dining etiquettes, Social Behaviour & Etiquette and activities of building self confidence etc. Make the students ready for job placements.
Bachelor of Vocation (Management & Secretarial Practices) Semester-VI	On job Training (Major project )	BVMD-6127	Global	This part of courses facilitate the students to practically experience the job and try their hands on it. It also adds a little experience to their resume before getting first job and this ultimately add value in availing a job opportunity.

### Department of Mathematics

Name of Programmes	Name of the Course	Course Code	Focus Local, National, Regional and Global	Description
Bachelor of Science (Honours) Mathematics Semester I	Calculus-I	BOML-1333	Global	Applied in Astronomy, Medical Profession, and Material Science.
Bachelor of Science (Honours) Mathematics Semester I	Coordinate Geometry	BOML-1334	Global	Applied in crucial fields including Digital world, map projections, air transports, GPS and many more.

Bachelor of Science (Honours) Mathematics Semester I	Statics or	BOML-1336	Global	To apply the concepts of force and moment in two and three dimensions.
Bachelor of Science (Honours) Mathematics Semester I	Mechanics	BOMM-1396	Global	Understand the various coordinate systems and its applications. Students will be able to know the conservations laws and the symmetries of space & time.
Bachelor of Science (Honours) Mathematics Semester II	Calculus-II	BOML-2333	Global	To learn the concept required in Material Science, Robotics, Health System, Engineering.
Bachelor of Science (Honours) Mathematics Semester II	Matrices and Theory of Equations	BOML-2334	Global	Applied in finding the number of independent solutions of a system of linear equations. Eigen values and vectors are used in several fields including machine learning, quantum computing, communication system design, construction designs etc.
Bachelor of Science (Honours) Mathematics Semester II	Solid Geometry	BOML-2335	Global	Applied in areas like animation, Computer vision and image analytics.
Bachelor of Science (Honours) Mathematics Semester II	<sup>3</sup> Dynamics	BOML-2336	Global	Applied in space science, car engines, Falcon heavy trajectory. Airplanes are dynamically analysed.
Bachelor of Science (Honours) Mathematics Semester II	Modern Physics	BOMM-2396	Global	To understand wave particle duality and use of this duality in studying crystal structure. Students understand radioactivity and use of radio isotopes and uses of nuclear radiation detectors. They know about elementary particles and cosmic rays, their properties and conservation rules.

Bachelor of Science (Honours) Mathematics Semester III	Calculus III	BOML-3331	Global	To learn the skill required in Clinical study, Engineering, architecture & design.
Bachelor of Science (Honours) Mathematics Semester III	Ordinary Differential Equations and Special Functions	BOML-3332	Global	Applied in static potentials and wave propagation. To determine the frequency components of an FM wave. Special Functions such as Legendre, Bessel, Hermite etc. are important for many problems of wave Propagation, static potentials etc.
Bachelor of Science (Honours) Mathematics Semester III	Probability Theory	BOML-3333	Global	Applications of probability theory included areas like mathematical statistical physics, ergodic theory, mathematical biology, mathematical statistics, and theoretical computer science.
Bachelor of Science (Honours) Mathematics Semester III	Linear Algebra	BOML-3334	Global	To design and analyze suspension systems, cryptography, to enhance X-rays, tomographs and images from space. To vary font on computer using linear transformations. In designing games and in making animation movies.
Bachelor of Science (Honours) Mathematics Semester IV	Vector calculus	BOML-4331	Global	Applications include navigation through water, land, air; Sports instructions and majority of Engineering problems.
Bachelor of Science (Honours) Mathematics Semester IV	Partial Differential Equations	BOML-4332	Global	To learn the skill required in optics, modelling, medical science, environment studies.
Bachelor of Science (Honours) Mathematics Semester IV	Group Theory	BOML-4333	Global	To find the selection rules for spectroscopic transition, able to analyse crystal and symmetrical

				structure of molecule, Application in robotics, computer vision and graphics.
Bachelor of Science (Honours) Mathematics Semester IV	Statistical Methods	BOMM-4334	Global	Application in marketing, business, health care departments, financing, budgeting, weather forecasting, robotics, aerospace, political campaigns, population records, data science.
Bachelor of Science (Honours) Mathematics Semester V	Number Theory	BOML-5331	Global	The theory is not only used in Mathematics, but also applied in cryptography, device authentication, websites for e-commerce, coding, security systems, and many more.
Bachelor of Science (Honours) Mathematics Semester V	Discrete Mathematics	BOML-5332	Global	To design the mathematical formulation of real life situation graphs and to apply the knowledge of boolean algebra in modelling, simplification switching circuits and design of digital computers.
Bachelor of Science (Honours) Mathematics Semester V	Linear Integral Equations	BOML-5333	Global	Integral equations are used in describing phenomena which requires summations over space or time or both. They are widely used in the field of engineering where engineers use integrals to find the shape of a building.
Bachelor of Science (Honours) Mathematics Semester V	Riemann Integration	BOML-5334	Global	To learn the skill required for astronomy, engineering, measuring systems.
Bachelor of Science (Honours) Mathematics Semester V	Metric Spaces	BOML-5335	Global	To explore metric spaces with its uses in internet search engines, image

				classification etc.
Bachelor of Science (Honours) Mathematics Semester VI	Complex Analysis	BOML-6331	Global	To learn the techniques required for signal processing, control theory and circuit theory.
Bachelor of Science (Honours) Mathematics Semester VI	Analytical Skills	BOML-6332	National	Applications in Share Market, Coding and decoding, business, analysis and interpretation of given data, important measure for a prospective business and overall executives's abilities.
Bachelor of Science (Honours) Mathematics Semester VI	Numerical Analysis	BOML-6333	Global	It is widely used for forecasting and predicting in the field of machine learning.
Bachelor of Science (Honours) Mathematics Semester VI	Special Functions	BOML-6334	Global	Special Functions such as Legendre, Bessel, Hermite etc. are important for many problems of wave Propagation, static potentials etc.
Bachelor of Science (Honours) Mathematics Semester VI	Differential Geometry	BOML-6335	Global	To discuss the fundamental theorem for surface theory and able to apply tensors in various areas such as Riemannian geometry, theory of relativity and many other disciplines of science and engineering.
Bachelor of Science (Honours) Physics Semester III	Mathematics – III	BOPL-3333	Global	To learn the skill required in Clinical study, Engineering, architecture & design.
Bachelor of Science (Honours) Physics Semester IV	Mathematics - IV	BOPL-4333	Global	To learn the concept of linear algebra which help to create ranking algorithms in search engines, concept of eigen values that help in electrical engineering and concept of sequence and

				series.
Bachelor of Science (Non-Medical) Semester I	Mathematics (Algebra)	BSNM-1333(I)	Global	Applied in finding the number of independent solutions of a system of linear equations. Eigen values and vectors are used in several fields including machine learning, quantum computing, communication system design, construction designs etc.
Bachelor of Science (Non-Medical) Semester I	Mathematics (Calculus and Trigonometry)	BSNM-1333(II)	Global	To expose the geometric aspects of conics. To analyze rotating bodies. Aerospace engineers use this to analyze, design and trouble shooting their work.
Bachelor of Science (Non-Medical) Semester II	Mathematics (Calculus and Differential equations)	BSNM-2333(I)	Global	Applied in graphing rational equations, finding length of a given curve , determining mass of an object if its density function is known, checking the growth of diseases in graphical representation etc.
Bachelor of Science (Non-Medical) Semester II	Mathematics (Calculus)	BSNM-2333(II)	Global	To learn the skill required in Clinical study, Engineering, architecture & design.
Bachelor of Science (Non-Medical) Semester III	Mathematics (Analysis)	BSNM-3333 (I)	Global	Application in Computer world, engineering, thermodynamics, in business to understand problems and to explore the data in meaningful way, in economic theory, in financing, theoretical computer sciences.
Bachelor of Science (Non-Medical)	Mathematics (Analytical	BSNM-3333 (II)	Global	Applied in crucial fields including digital world,

Semester III	Geometry)			map projections, air transports GPS and many more.
Bachelor of Science (Non-Medical) Semester IV	Mathematics (Statics and Vector Calculus)	BSNM-4333	Global	To apply the concept of force and moment in two and three dimensions and also include navigation through water, land air; sports instructions and majority of Engineering problems.
Bachelor of Science (Non-Medical) Semester V	Mathematics (Dynamics)	BSNM-5333(I)	Global	Applied in space science, car engines, Falcon heavy trajectory. Airplanes are dynamically analysed.
Bachelor of Science (Non-Medical) Semester V	Mathematics (Number Theory)	BSNM-5333(II)	Global	The theory is not only used in Mathematics, but also applied in cryptography, device authentication, websites for e-commerce, coding, security systems, and many more.
Master of Science (Botany) Semester-II	Theoretical Biology	MBTL-2336	Global	To learn the concept of analysing data in medical field, applications in medicines, information technology, marketing, accounts, business and robotics.
Master of Science (Zoology) Semester-II	Biostatistics	MZOL-2334	Global	It helps to identify the best way to deploy resources to treat populations and also provide us with scientific, historical data and results; they give us direction for the future.
Master of Science (Chemistry) Semester II	Mathematics for Chemists	MCHL-2336	Global	Applications in economics, business, oil companies to explore land for oil, machine learning, quantum computing, cartography, satellite systems.
Master of Science (Chemistry)	Biology for Chemists	MCHL-2056	Global	Knowledge about biomolecules, cell structure, different types of

Semester II				tissues, Mendelians laws, structure of DNA and gene expression.
Master of Science (Mathematics) Semester I	Real Analysis-I	MMSL-1331	Global	To explore metric spaces with its uses in internet search engines, image classification etc. and application of RS Integral.
Master of Science (Mathematics) Semester I	Complex Analysis	MMSL-1332	Global	To learn the techniques required for signal processing, control theory and circuit theory.
Master of Science (Mathematics) Semester I	Algebra-I	MMSL-1333	Global	Application in aircraft to locate itself, in civil engineering, in testing software codes in software engineering, graphics, facial recognition and prediction.
Master of Science (Mathematics) Semester I	Mechanics-I	MMSL-1334	Global	To discuss motion of objects using concept of force, momentum and moment of inertia.
Master of Science (Mathematics) Semester I	Differential Equations	MMSL-1335	Global	Applications of Fourier transforms include areas like image analysis, system modelling, digital signal processing, noise removal etc. Laplace transform is widely used in analysis of unstable systems and in finding solution of ordinary differential equations. Sturm-Liouville theory studies the existence and asymptotic behaviour of the eigen values.
Master of Science (Mathematics) Semester II	Real Analysis-II	MMSL-2331	Global	Applied in Physics, Economics, Finance etc.
Master of Science (Mathematics) Semester II	Tensors and Differential Geometry	MMSL-2332	Global	To discuss the fundamental theorem for surface theory and able to apply tensors in various

				areas such as Riemannian geometry, theory of relativity and many other disciplines of science and engineering.
Master of Science (Mathematics) Semester II	Algebra-II	MMSL-2333	Global	Application in cryptography, computer vision task, Monte carlo and Quasi- monte carlo methods, quantum computing, wireless communication and in study of geometric objects.
Master of Science (Mathematics) Semester II	Mechanics-II	MMSL-2334	Global	To discuss mechanical concepts related to generalised coordinates and calculus of variations.
Master of Science (Mathematics) Semester II	Differential and Integral Equations	MMSL-2335	Global	Partial differential equations are widely used in mathematical formulation and hence finding solution of physical problems such as propogation of heat or sound, fluid flow, elasticity, electrostatics, electrodynamics etc. Integral equations are used in describing phenomenona which requires summations over space or time or both.
Master of Science (Mathematics) Semester III	Functional Analysis-I	MMSL-3331	Global	Used to compute vector length and distance between vectors.
Master of Science (Mathematics) Semester III	Topology-I	MMSL-3332	Global	Applied in dynamic system, biological system, robotics and computer networking.
Master of Science (Mathematics) Semester III	Discrete Mathematics-I	MMSL-3333	Global	To design the mathematical formulation of real life situation graphs and to apply the knowledge of boolean algebra in modelling,

				simplification switching circuits and design of digital computers.
Master of Science (Mathematics) Semester III	Statistics-I	MMSL-3334	Global	Applications of Statistics included areas like mathematical statistical physics, ergodic theory, mathematical biology, mathematical statistics, and theoretical computer science.
Master of Science (Mathematics) Semester III	Operations Research-I	MMSL-3335	Global	Operations Research is widely used in problem solving and decision making. It comprises of optimization techniques to solve problems related to transportation, assignment, game theory, scheduling, routing, facility location etc.
Master of Science (Mathematics) Semester IV	Functional Analysis-II	MMSL-4331	Global	Application in image transmission over wireless network, ergodicity, quantum mechanics, engineering, business, project management.
Master of Science (Mathematics) Semester IV	Topology-II	MMSL-4332	Global	To gain the knowledge of concepts of molecules and nano structure, computer graphics and engineering.
Master of Science (Mathematics) Semester IV	Number Theory	MMSL-4333	Global	The theory is not only used in Mathematics, but also applied in cryptography, device authentication, websites for e-commerce, coding, security systems, and many more.
Master of Science (Mathematics) Semester IV	Statistics-II	MMSL-4334	Global	Scope of Mathematical Statistics includes distributional foundation, point estimation theory, hypothesis testing theory, interval estimation theory, linear models and

				generalized models, non parametrical statistical theory.
Master of Science (Mathematics) Semester IV	Operations Research-II	MMSL-4335	Global	Queuing theory is used in regulating traffic flow, scheduling and facility design. Simulation is an effective technique to study mechanism of a system that controls the behaviour of the system and also to predict the future behaviour of a system such as when to replace an item, how to control inventory etc.

#### Department of Nutrition, Exercise Health

Name of programmes	Name of the course	Course code	Focus Local, National, Regional and Global	Description
Bachelor of Vocation (Nutrition, Exercise & Health) Semester I	Hospital Front Desk Coordinator-I	BVNL-1283	Global	To Understand important functions of hospital front desk coordinator and handle different categories of patients.
Bachelor of Vocation (Nutrition, Exercise & Health) Semester I	Basic Food and Nutrition	BVNL-1284	Global	To develop the knowledge of different food preparation methods and food as source of energy and determine basal metabolism Rate.
Bachelor of Vocation (Nutrition, Exercise & Health) Semester I	Introduction to Psychology	BVNM- 1285	Global	To enable them to understand the personality of an individual and to gain knowledge about attention and intelligence of an Individual.
Bachelor of Vocation (Nutrition, Exercise & Health) Semester I	Yoga and Body Fitness (Practical)	BVNP- 1287	Global	To demonstrate different asan to the students and enable the students to have a proper knowledge about the benefits of posture of different asan.
Bachelor of	Basic Food	BVNP-1288	Global	To distinguish between

Vocation (Nutrition, Exercise & Health) Semester I	and Nutrition (Practical)			different types of cooking methods and to develop the knowledge about cleaning of kitchen equipment's, utensils, floor and cupboard.
Bachelor of Vocation (Nutrition, Exercise & Health) Semester II	Diabetes Education- I	BVNL- 2283	Global	To give brief introduction to diabetes and to provide knowledge about regulation of blood glucose in human body and role of pancreas towards blood glucose level.
Bachelor of Vocation (Nutrition, Exercise & Health) Semester II	Role of Diet Assistant	BVNL- 2284	Global	To enhance the knowledge of personnel hygiene of diet assistant. Teach them different aspects of healthy living and soft skills of communication of diet assistant.
Bachelor of Vocation (Nutrition, Exercise & Health) Semester II	Hospital Front Desk Coordinator - II	BVNL-2285	Global	Understand the various bill payment modes, authenticity of currency, importance of providing bill to the carers and importance of maintaining empathetic relationship with the patient.
Bachelor of Vocation (Nutrition, Exercise & Health) Semester II	Advance Nutrition	BVNL- 2286	Global	To identify the bio-availability, requirement and deficiency of different vitamins and develop the knowledge of food preservation, food spoilage and principle of food Preservation.
Bachelor of Vocation (Nutrition, Exercise & Health) Semester II	Advance Nutrition (Practical)	BVNP- 2287	Global	To develop knowledge about therapeutic diets and enhance the cooking skills with absorbing more nutrients.
Bachelor of Vocation (Nutrition, Exercise & Health) Semester II	Entrepreneurial Development (Practical)	BVNP - 2288	Global	To Operation of diet clinic and diet counselling Computer application in use of nutrition related to software: Dietcal Online software.
Bachelor of Vocation (Nutrition, Exercise & Health)	Human Physiology	BVNL- 3282	Global	To develop the knowledge of cell structure and functions of inclusion bodies and understand the elementary

Semester III				knowledge of structure and functions of all body system.
Bachelor of Vocation (Nutrition, Exercise & Health) Semester III	Nutrition, Exercise and Immunity	BVNL – 3283	Global	To develop the knowledge about infections and role of nutraceuticals and functional foods.
Bachelor of Vocation (Nutrition, Exercise & Health) Semester III	Diabetes Education- II	BVNM- 3284	Global	To provide knowledge about types of Diabetes: Type I, Type II, Prediabetes, Gestational Diabetes, and Impaired Glucose Tolerance (IGT) and give knowledge about pathology of diabetes and complications of diabetes.
Bachelor of Vocation (Nutrition, Exercise & Health) Semester III	Food Science and Quality Control Standards	BVNM- 3285	Global	To develop the knowledge about meat structure, egg, milk and milk products and pulses, legumes, fruits and vegetables.
Bachelor of Vocation (Nutrition, Exercise & Health) Semester III	Community Nutrition	BVNM- 3286	Global	To understand the factors affecting food consumption and malnutrition and gain knowledge about agricultural production and socio-economic and psychological factors related to malnutrition and family size and composition.
Bachelor of Vocation (Nutrition, Exercise & Health) Semester III	Internship	BVNI – 3287	Global	To get understanding of various Food Acts and get the information about composition and structure of various food groups.
Bachelor of Vocation (Nutrition, Exercise & Health) Semester IV	Diabetes Education- III	BVNL- 4281	Global	To provide knowledge about glucometer and give knowledge about treatment plan for type I and II Diabetes.
Bachelor of Vocation (Nutrition, Exercise & Health) Semester IV	Food Microbiology	BVNL- 4283	Global	To knowledge about types of disinfection and different surfaces and materials and brief history of microbiology and sub disciplines of microbiology.

Bachelor of Vocation (Nutrition, Exercise & Health) Semester IV	Patient Relation Associate	BVNL-4284	Global	Understand the concept of report delivery process, employee's responsibility and quality improvement process.
Bachelor of Vocation (Nutrition, Exercise & Health) Semester IV	Meal management	BVNM -4286	Global	To understand the concept of recommended dietary allowances, food groups, exchange list and balanced diet.
Bachelor of Vocation (Nutrition, Exercise & Health) Semester IV	Internship	BVNI – 4287	Global	To understand about roles and responsibilities of diabetes Educator and get the concept of first aid and emergency medical response.
Bachelor of Vocation (Nutrition, Exercise & Health) Semester IV	Nutritional Biochemistry	BVNM- 4285	Global	To understand the concepts of biomolecules.
Bachelor of Vocation (Nutrition, Exercise & Health) Semester V	Fundamentals of Dietetics	BVNL-5282	Global	To gain the knowledge about Indian dietetic association and its membership and insight into objectives and concept of therapeutic diet.
Bachelor of Vocation (Nutrition, Exercise & Health) Semester V	Duty manager	BVNL-5283	Global	To gain insight into objectives and concept of Quality in health care service and develop the knowledge about fundamentals of accounting.
Bachelor of Vocation (Nutrition, Exercise & Health) Semester V	Introduction to sports nutrition	BVNL-5284	Global	To develop the knowledge about concept of sports Nutrition and understand the knowledge about carbohydrate, fat and protein intake during exercise.
Bachelor of Vocation (Nutrition, Exercise & Health) Semester V	Extension education and AV Aids	BVNM-5286	Global	To gain the knowledge about audio visual Aids and develop the knowledge about programme planning.
Bachelor of Vocation (Nutrition, Exercise & Health)	Food Service management	BVNM-5287	Global	To gain in depth knowledge of food service management and understand basic managerial skills.

Semester V				
Bachelor of Vocation (Nutrition, Exercise & Health) Semester V	Diet therapy and applied nutrition	BVNM-5288	Global	To knowledge about principles of therapeutic diets and develop the knowledge about diet in metabolic and chronic disorder – diabetes, gout, cardiovascular disease.
Bachelor of Vocation (Nutrition, Exercise & Health) Semester V	Cafeteria	BVNP-5289	Global	To knowledge about preparation of recipes suitable for cafeteria and develop the knowledge about standardization and cost calculation of recipes selected for cafeteria.
Bachelor of Vocation (Nutrition, Exercise & Health) Semester VI	Nutrition and Fitness	BVNL- 6281	Global	To understand the importance of physical activity, assessment, etiology and complications of overweight and obesity.
Bachelor of Vocation (Nutrition, Exercise & Health) Semester VI	Food Safety	BVNL- 6282	Global	To understand the concept of food borne illness and food hazards, food laws and regulations (National as well as International).
Bachelor of Vocation (Nutrition, Exercise & Health) Semester VI	Pediatric Nutrition	BVNL-6283	Global	To Understand the concept of anthropometric measurements, Childhood obesity, Underweight and Under nutrition.
Bachelor of Vocation (Nutrition, Exercise & Health) Semester VI	Therapeutic Nutrition	BVNM-6285	Global	To gain insight into objectives and concept of therapeutic Diets and develop adaptations of normal diets into therapeutic.
Bachelor of Vocation (Nutrition, Exercise & Health) Semester VI	Quantity Food Production	BVNM- 6286	Global	To understand about different food services and get the concept of menu planning and importance of personal hygiene of food Handlers.
Bachelor of Vocation (Nutrition, Exercise & Health) Semester VI	Internship	BVNI-6288	Global	Internship of any of the multi-specialty Hospital for a min. period of 30 days as Dietician.

Diploma in Early Childhood Care and Education Semester I	Foundation of Education	DECL-1281	Global	To learn the Concepts of foundation of Education.
Diploma in Early Childhood Care and Education Semester I	Child Psychology and Child Development	DECL-1282	Global	To enable the students to understand the child Psychology and growth.
Diploma in Early Childhood Care and Education Semester I	Child Health and Nutrition-I	DECL-1283	Global	To provide basic information about Paedritic Nutrition.
Diploma in Early Childhood Care and Education Semester I	Child Psychology and Child Development	DECL-1284	Global	Gives an insight to various Programmes for Children Growth and Health.
Diploma in Early Childhood Care and Education Semester I	Art and Craft	DECP- 1285	Global	Provides information regarding Child Pyschology and Child Growth.
Diploma in Early Childhood Care and Education Semester II	Methodology and Evaluation (Th.)	DECP-1286	Global	Practical Skills in Art and Craft.
Diploma in Early Childhood Care and Education Semester II	School Organization and Administration	DECL-2281	Global	Eluciadtes the concept of Teaching and learning and its Methods.
Diploma in Early Childhood Care and Education Semester II	Child Health and Nutrition-II	DECL-2282	Global	Gives Information on Childhood Education and Administration.
Diploma in Early Childhood Care and Education Semester II	Services and Programmes for Children –II	DECL-2283	Global	Enhance student’s understandings of Childhood Illness and physiology of Human Body.
Diploma in Early Childhood Care and Education Semester II	Methodology and Evaluation (Practical)	DECL-2284	Global	Students gain knowledge about Communication Aids.
Diploma in Early Childhood Care and Education	Project Work	DECP- 2285	Global	To learn about various methods of Tecahing and Aids.

Semester II				
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### Department of Physics

Name of Programmes	Name of the Course	Course Code	Focus Local, National, Regional and Global	Description
Master of Science (Physics) Semester I	Analog and Digital Electronics	MPHL-1391	Global	The following course helps to understand the concept of Electronic devices (MOSFET, UJT, SCR) and their applications.
Master of Science (Physics) Semester I	Mathematical Physics	MPHL-1392	Global	Mathematical Physics helps to understand Cartesian (X, Y,Z), Spherical polar (r, $\theta$ , $\phi$ ) and Cylindrical ( $\rho$ , $\phi$ , z) co-ordinate systems and their transformation equations.
Master of Science (Physics) Semester I	Classical Mechanics	MPHL-1393	Global	During this course, the students are familiar with aspects of Classical Mechanics such as Lagrangian and Hamiltonian formulation, particle in central potentials, rigid body motion. These will form the essential background for other courses such as Quantum Mechanics, Electrodynamics and High

				Energy Physics that students would learn in the subsequent semesters.
Master of Science (Physics) Semester I	Computational Techniques	MPHL-1394	Global	The introduction to MATLAB gives a basic knowledge about syntaxes and procedures used in MATLAB to solve various mathematical problems.
Master of Science (Physics) Semester I	Electronics Lab	MPHP-1395	Global	The electronics lab helps to Characterise and understand the applications of DIAC, TRIAC, UJT and SCR.
Master of Science (Physics) Semester I	Computer Lab	MPHP-1396	Global	This course will enable to write MATLAB programs to solve numerical integration, numerical differentiation and interpolation.
Master of Science (Physics) Semester II	Quantum Mechanics-I	MPHL-2391	Global	The student learn the basic concepts of spin and angular momentum and the role of spherical harmonics in determining the shape of electronic clouds around the nucleus. They will also learn about applications the total angular momentum.
Master of Science (Physics) Semester II	Electrodynamics I	MPHL-2392	Global	This course helps to understand the basic concepts of electrostatics and magnetism and related quantities and their calculations for different charge distribution as well as the behaviour of electric and magnetic field inside matter. The students have the ability to solve the electrostatic problems by method of images helps.
Master of Science (Physics) Semester II	Condensed Matter Physics-I	MPHL-2393	Global	Condensed Matter Physics-I helps to understand about various types of lattice defects, dislocations and grain boundaries and their role in crystal growth.

Master of Science (Physics) Semester II	Atomic and Molecular Spectroscopy	MPHL-2394	Global	Atomic and Molecular Spectroscopy explains the role of Frank Condon principle in determining electronic spectra of the molecule. The student also learn about the dissociation and pre-dissociation energies.
Master of Science (Physics) Semester II	Condensed Matter Physics Lab -I	MPHP-2395	Global	The lab helps to understand Hall effect and demonstrate concept of Pn junction g-factor using ESR, formation and analysis of Hysteresis loop.
Master of Science (Physics) Semester II	Spectroscopy Lab	MPHP-2396	Global	Spectroscopy Lab enables to set up the Fabry Parot interferometer, Michelson Morley interferometer, Zeeman experimental instrument and constant deviation spectrometer.
Master of Science (Physics) Semester III	Quantum Mechanics-II	MPHL-3391	Global	Quantum mechanics-II aim at the applications of quantum mechanics. The course gives deeper knowledge about the foundations of quantum mechanics and skills in problem solving in quantum mechanics and makes the students familiar with various approximation methods applied to atomic, nuclear and solid-state physics, and to scattering.
Master of Science (Physics) Semester III	Electrodynamics II	MPHL-3392	Global	Electrodynamics - II helps to understand different types of waveguides, the transmission of electromagnetic signals through waveguide. The attenuation and loss of signal in waveguides.
Master of Science (Physics) Semester III	Condensed Matter Physics-II	MPHL-3393	Global	Condensed Matter Physics-II aim at the applications of Solid state Physics. The course should give deeper knowledge about magnetic materials.
Master of Science (Physics) Semester III	Nuclear Physics	MPHL-3394	Global	Nuclear Physics helps to identify basic nuclear properties and outline their

				theoretical descriptions.
Master of Science (Physics) Semester III	Condensed Matter Physics Lab-II	MPHL-3395	Global	Condensed Matter Physics lab - II aims at understanding the mechanism of domain formation in ferromagnetic materials
Master of Science (Physics) Semester III	Nuclear Physics Lab	MPHL-3396	Global	Nuclear Physics Lab helps to carry out experimental work using NaI (Tl) scintillation detector and GM counter in the field of radiation shielding and radioactive analysis of various materials.
Master of Science (Physics) Semester IV	Particle Physics	MPHL-4391	Global	Particle Physics helps the students understand the fundamental principles and concepts governing particle physics. They learn various experimental techniques used in discovering the elementary particles and their various properties such as mass, lifetime, parity and spin.
Master of Science (Physics) Semester IV	Statistical Mechanics	MPHL-4392	Global	Students will understand the ensemble language of statistical mechanics i.e. micro canonical, canonical and grand canonical ensemble. Their description in terms of partition function and various areas where they are implied such as classical ideal gas, system of harmonic oscillators, paramagnetic behavior of gases, cluster expansion of classical gas. The need of switching from micro canonical to canonical and hence from canonical to grand canonical ensemble has also been explained.
Master of Science (Physics) Semester IV	Radiation and Particle Physics	MPHL-4393	Global	Radiation and Particle Physics aim at study the knowledge of ionizing Radiation and Radiation Quantities.
Master of Science (Physics)	Material Science	MPHL-4394	Global	Reactor Physics helps to study the types of reactors

Semester IV				and detailed working of Indian nuclear reactors
Master of Science (Physics) Semester IV	Assignment / Project	MPHD-4395	National	Assignment and Project are based on the following techniques in Material Science, Computational Physics, Nuclear Physics, Advanced Theoretical Physics, Radiation Physics and Electronics.
Bachelor of Science (Honours) Physics Semester III	Optics	BOPL-3391	Global	Optics help to understand the Huygen's Fresnel theory and diffraction, Fraunhofer diffraction due to single slit, double slit and n slits, the concept of resolving power.
Bachelor of Science (Honours) Physics Semester III	Statistical and Thermal Physics	BOPL-3392	Global	Statistical and Thermal Physics helps to understand the Maxwell Thermodynamics relations, Change of state and Clausius equation. Thermodynamic Potentials and Equilibrium of Thermodynamic Systems
Bachelor of Science (Honours) Physics Semester III	Mathematics –III	BOPL-3333	Global	To learn the skill required in Clinical study, Engineering, architecture & design.
Bachelor of Science (Honours) Physics Semester III	Chemistry-III	BOPL-3084	Global	Understand the concept of surface tension and interfacial tension demonstrate an understanding of basic principles of colligative properties and understand the basic concepts of colloidal state of matter and applications of colloids.
Bachelor of Science (Honours) Physics Semester III	Physics Lab –III	BOPP-3396	Global	During this Lab, the students will be able to demonstrate the verification of laws of probability distribution, conversion of electrical energy to heat and concept of thermal conductivity.
Bachelor of Science (Honours) Physics Semester III	Chemistry Lab – III	BOPP-3087	Global	Compare the viscosity and surface tension of different liquids and solutions understand the technique of crystallisation

Bachelor of Science (Honours) Physics Semester IV	Mechanics-II	BOPL-4391	Global	The course helps to understand the concept of space-time intervals and Minkowski space. They will understand the time dilation, length contraction via geometrical interpretation of Lorentz transformations. They will learn the effects of gravity on light and space-time curvature.
Bachelor of Science (Honours) Physics Semester IV	Atomic Spectroscopy	BOPL-4392	Global	The course demonstrate understanding of exchange symmetry of wave function, different coupling schemes and spectra of atoms with more than one electron.
Bachelor of Science (Honours) Physics Semester IV	Chemistry-IV	BOPL-4084	Global	Study thevarious measurement techniques in NMR spectroscopy. Understand the infra-red spectroscopy in organic structure determinationlearn about the Principle and applications of ultraviolet and Woodward Fisher Rule. Interpret the spectrum of unknown compounds on the basis of NMR and Mass spectroscopy.
Bachelor of Science (Honours) Physics Semester IV	Numerical Methods and Error Analysis Interdisciplinary Course (ID)-II	BOPL -4335	Global	The course helps to solve polynomial and transcendental equations numerically with the iterative methods. They will also learn to solve set of linear simultaneous equations by direct and iterative methods.
Bachelor of Science (Honours) Physics Semester IV	Physics Lab –IV	BOPP-4396	Global	Various experiments are carried out such asb to measure an accessible (Horizontal and vertical) and inaccessible height using sextant, to demonstrate adiabatic expansion, thermo emf, stefen’s constant and thermal expansion measurements etc.

Bachelor of Science (Honours) Physics Semester IV	Chemistry Lab – IV	BOPP-4087	Global	Know the principle and mechanism of Conductometric titrations and polarimetric experiments. Determine the composition of unknown mixture of two liquids by refractive index measurements.
Bachelor of Science (Honours) Physics Semester V	Condensed Matter Physics –	BOPL-5391	Global	Condensed Matter Physics build concept about Kronig Penny model and its application to band theory to differentiate insulators, semiconductors and conductors, Hall effect
Bachelor of Science (Honours) Physics Semester V	Quantum Mechanics	BOPL-5392	Global	Quantum Mechanics helps to apply Schrodinger's wave equation for step potential, rectangular potential, potential well and oscillating potential, spherical coordinates to three dimensional problems like hydrogen atom and harmonic oscillator.
Bachelor of Science (Honours) Physics Semester V	Nuclear Physics	BOPL-5393	Global	Nuclear Physics helps to understand nuclear models (Liquid drop, Fermi gas model and Shell model) and their failures and successes.
Bachelor of Science (Honours) Physics Semester V	Electronics	BOPL-5394	Global	In the following course, the students are able to understand h-parameters, amplifiers using BJT & FETs and types of feedbacks and practical example of negative feedback (emitter follower). Understand LC and RC oscillators and their comparison.
Bachelor of Science (Honours) Physics Semester V	Physics Lab-V	BOPL-5395	Global	During this lab, the students are able to characterize p-n junction, zener diode, and their use as rectifier, filters, clipping element and to find energy gap.
Bachelor of Science (Honours) Physics Semester V	Seminar and Assignment	BOPL-5396	Global	Assignment and Project are based on the following techniques in Material Science, Computational

				Physics, Nuclear Physics, Advanced Theoretical Physics, Radiation Physics and Electronics etc.
Bachelor of Science (Honours) Physics Semester VI	Radiation and Particle Physics	BOPL-6391	Global	Radiation and Particle Physics helps to understand theory and working of various types of nuclear detectors like gas filled, semiconductor, solid state track detectors and nucleus emulsions.
Bachelor of Science (Honours) Physics Semester VI	Condensed Matter Physics II	BOPL-6392	Global	Condensed Matter Physics-II helps to understand the basics about nanomaterials and some characterisation techniques, concept of dielectric polarisation types and frequency dependence.
Bachelor of Science (Honours) Physics Semester VI	Molecular Spectroscopy and Laser	BOPL-6393	Global	Molecular Spectroscopy and Laser helps to understand different types of LASER and basics of Q Switching and holography.
Bachelor of Science (Honours) Physics Semester VI	Digital Electronics and Applications	BOPL-6394	Global	The course helps to understand the basics of ICs, binary to digital and digital to binary conversions, different number systems, addition and subtraction in binary system.
Bachelor of Science (Honours) Physics Semester VI	Physics Lab-V	BOPP-6395	Global	The course helps student to use GM counter as detector and helps them to characterize Thermistor, diode, LDR etc. using CRO. Students understand Hall effect and Boltzmann's coefficient, photo electric as well the use of OP-Amps as inverting and non inverting amplifiers and its application in zero cross detector and comparator.
Bachelor of Science (Honours) Physics Semester VI	Physics Lab-VII	BOPP-6396	Global	During this lab, the students are able to understand logic gates and their truth tables, 2-bit comparator, adders, subtractors, parity generator and checker.

Bachelor of Science (Non-Medical) Semester I	Mathematics (Algebra)	BSNM-1333	Global	Applied in finding the number of independent solutions of a system of linear equations. Eigen values and vectors are used in several fields including machine learning, quantum computing, communication system design, construction designs etc.
Bachelor of Science (Non-Medical) Semester I	Mathematics (Calculus and Trigonometry)	BSNM-1333	Global	To expose the geometric aspects of conics. To analyze rotating bodies. Aerospace engineers use this to analyze, design and troubleshooting their work.
Bachelor of Science (Non-Medical) Semester I	Chemistry (Inorganic Chemistry)	BSNM-1084	Global	Predict electronic properties of atoms using current models and theories in chemistry, sketch the probability density curves, boundary surface diagrams and shapes of orbitals and write the electronic configuration of atoms. Describe VBT, VSEPR theory and predicts the geometry of simple molecules & molecular orbital theory of homonuclear diatomic molecules.
Bachelor of Science (Non-Medical) Semester I	Chemistry (Organic Chemistry)	BSNM-1084	Global	Interpret the bonding, hybridization between different organic compounds, explain the various reaction mechanisms and different electron displacement effects compare the reactivities of various alkyl and aryl halide, stability of various cycloalkanes.
Bachelor of Science (Non-Medical) Semester I	Chemistry (Practical)	BSNM-1084	Global	Differentiate between pure & impure compounds. Separate and identify the various ions present in the mixture.
Bachelor of Science (Non-Medical) Semester I	Physics (Mechanics)	BSNM-1395	Global	Mechanics provide knowledge about the fundamental forces of nature, concept of centre mass, central forces and the motion of particle under central force

				and to determine the turning points of orbit. They will be able to understand the planetary motion by solving differential equation of orbits and studying Kepler's laws.
Bachelor of Science (Non-Medical) Semester I	Physics (Electricity And Magnetism)	BSNM-1395	Global	In this course, the students are able to find the relationship between electric field from two different inertial frames of reference. They will be learn the origin of magnetism and properties of various kinds of magnetic materials.
Bachelor of Science (Non-Medical) Semester I	Physics (Practical)	BSNM-1395	Global	During physics practical, the students study the moment of inertia of a body & on what factors its depends.
Bachelor of Science (Non-Medical) Semester II	Mathematics (Calculus and Differential equations)	BSNM-2333	Global	Applied in graphing rational equations, finding length of a given curve , determining mass of an object if its density function is known, checking the growth of diseases in graphical representation etc.
Bachelor of Science (Non-Medical) Semester II	Mathematics (Calculus)	BSNM-2333	Global	To learn the skill required in Clinical study, Engineering, architecture & design.
Bachelor of Science (Non-Medical) Semester II	Chemistry (Inorganic Chemistry)-I	BSNM-2084	Global	Explain the atomic, physical and chemical properties of alkali metals and alkaline earth metals. Interpret the properties of carbides, silicates, interhalogen compounds.
Bachelor of Science (Non-Medical) Semester II	Chemistry (Physical Chemistry)-II	BSNM-2084	Global	Acquire the knowledge of structure and intermolecular forces present between solids, liquids and gases, Discuss liquid crystals& its types. Demonstrate an understanding of basic principles of colligative properties of dilute solutions.
Bachelor of Science (Non-Medical) Semester II	Chemistry (Practical)	BSNM-2084	Global	Understand & apply the technique of crystallization. Compare& analyze the viscosity and surface tension

				of different liquids and solutions.
Bachelor of Science (Non-Medical) Semester II	Physics (Relativity and Electro-magnetism)	BSNM-2395	Global	In Relativity and Magnetism, the students derive Maxwell equations and their applications in propagation of e.m. waves in conductors and insulators.
Bachelor of Science (Non-Medical) Semester II	Physics (Vibration and Waves)	BSNM-2395	Global	This course provides the concept of coupled oscillators and wave motion. Student are able to apply the concept of waves and oscillations to any type of waves like e. m. waves, mechanical waves.
Bachelor of Science (Non-Medical) Semester II	Physics (Practical)	BSNM-2395	Global	At the end of this course, students are able to find the value of capacitor, coefficient of self inductance, permeability & permittivity of air.
Bachelor of Science (Non-Medical) Semester III	Mathematics (Analysis)	BSNM-3333	Global	Application in Computer world, engineering, thermodynamics, in business to understand problems and to explore the data in meaningful way, in economic theory, in financing, theoretical computer sciences.
Bachelor of Science (Non-Medical) Semester III	Mathematics (Analytical Geometry)	BSNM-3333 (II)	Global	Applied in crucial fields including digital world, map projections, air transports GPS and many more.
Bachelor of Science (Non-Medical) Semester III	Chemistry (organic Chemistry)	BSNM-3084	Global	To resolve the different enantiomers and differentiate between dextrorotatory-leavorotatory chiral and achiral compounds, understand the concept of isomerism, axial and equatorial bonds. Understand the methods of formation, chemical reactions, acidic character of alcohols, phenol and carbonyl compound.
Bachelor of Science (Non-Medical) Semester	Chemistry (Physical Chemistry)	BSNM-3084	Global	Understand and evaluate thermodynamic property of any system and its

III				applications to various systems, acquire the knowledge of phase equilibria of various systems, demonstrate the carnot cycle, understand the concept of Entropy.
Bachelor of Science (Non-Medical) Semester III	Chemistry (Practical)	BSNM-3084	Global	Understand and master the technique of gravimetric analysis, to understand the concept of TLC and its applications.
Bachelor of Science (Non-Medical) Semester III	Physics (Statistical Physics & Thermodynamics)	BSNM-3395	Global	Statistical Physics & Thermodynamics provides the concept of different types of Statistics and the need for Quantum Statistics.
Bachelor of Science (Non-Medical) Semester III	Physics (Optics)	BSNM-3395	Global	Optics explains the concept of interference of waves by division of wave front and by division of Amplitude, its different methods and interferometers.
Bachelor of Science (Non-Medical) Semester III	Physics (Practical)	BSNM-3395	Global	During the practical class, students use spectrometer to determine the refractive index of different transparent materials will dispersive power and resolving power of different transparent prisms and liquids using spectrometer.
Bachelor of Science (Non-Medical) Semester IV	Mathematics (Statics and Vector Calculus)	BSNM-4333	Global	To apply the concept of force and moment in two and three dimensions and also include navigation through water, land air; sports instructions and majority of Engineering problems.
Bachelor of Science (Non-Medical) Semester IV	Mathematics (Solid Geometry)	BSNM-4333	Global	Applied in areas like animation, Computer vision and image analytics.
Bachelor of Science (Non-Medical) Semester IV	Chemistry (Inorganic Chemistry)-I	BSNM-4084	Global	Understand the positions, electronic configurations, relative stability, preparation, properties, structures and characteristics of the f-block elements in the periodic table, understand the role of metal

				ions and other inorganic elements in biological systems.
Bachelor of Science (Non-Medical) Semester IV	Chemistry (Organic Chemistry)-II	BSNM-4084	Global	Understand preparation and reactions of nitroalkanes and nitroarenes, differentiate between primary, secondary and tertiary amines, basicity of amines CO 4: understand nomenclature, structural features, and methods of formation and chemical reactions of Organomagnesium, Organolithium, Organozinc and Organocopper compounds.
Bachelor of Science (Non-Medical) Semester IV	Chemistry (Practical)	BSNM-4084	Global	Detection of functional groups (phenolic, carboxylic, carbonyl, esters, carbohydrates, amines, amides, nitro and anilide) in simple organic compounds, preparation of their derivatives.
Bachelor of Science (Non-Medical) Semester IV	Physics (Quantum Mechanics	BSNM-4395	Global	Students are able to find the solution of Schrödinger wave equation for simple systems in three dimensions and for Hydrogen atom in spherical coordinates.
Bachelor of Science (Non-Medical) Semester IV	Physics (Atomic and Molecular Spectra )	BSNM-4395	Global	In this course, the students understand fine and hyperfine spectrum of hydrogen atom and the concept of spin and magnetic moment of an electron.
Bachelor of Science (Non-Medical) Semester IV	Physics (Practical)	BSNM-4395	Global	The exercises included in this laboratory course are aimed at training the students to handle different type of equipment for verification of some of the laws and concepts studied in theory like concepts of thermodynamics, photoelectric effect and for carrying out precise measurements so that they develop confidence to use later the sophisticated

				instruments in their respective fields.
Bachelor of Science (Non-Medical) Semester V	Mathematics (Dynamics)	BSNM-5333	Global	Applied in space science, car engines, Falcon heavy trajectory. Airplanes are dynamically analysed.
Bachelor of Science (Non-Medical) Semester V	Mathematics (Number Theory)	BSNM-5333	Global	The theory is not only used in Mathematics, but also applied in cryptography, device authentication, websites for e-commerce, coding, security systems, and many more.
Bachelor of Science (Non-Medical) Semester V	Chemistry (Inorganic Chemistry)	BSNM-5084	Global	To describe the magnetic properties of coordination compounds. CO3: describe the stability of metal complexes by the use of formation constants and to calculate thermodynamic parameters from them.
Bachelor of Science (Non-Medical) Semester V	Chemistry (Physical Chemistry)	BSNM-5084	Global	Acquire knowledge about electrodes, reversible and irreversible cells, concentration cells, E.M.F, potentiometric titrations, understand radioactivity, laws of radioactive decay, nuclear reactions, and applications of radioactivity.
Bachelor of Science (Non-Medical) Semester V	Chemistry (Practical)	BSNM-5084	Global	Synthesize and analyse the coordination compounds, determine the end point of various conductometric titrations.
Bachelor of Science (Non-Medical) Semester V	Physics (Condensed Matter Physics)	BSNM-5395	Global	Condensed Matter Physics, build concept from free electron model to Kronig Penny model and its application to band theory to differentiate insulators, semiconductors and conductors.
Bachelor of Science (Non-Medical) Semester V	Physics (Electronics)	BSNM-5395	Global	In Electronics, the students understand LC and RC oscillators and their comparison, h-parameters, amplifiers using BJT & FETs and types of feedbacks and practical example of negative

				feedback (emitter follower).
Bachelor of Science (Non-Medical) Semester V	Physics (Practical)	BSNM-5395	Global	During the practical class, the students are able to characterize p-n junction, zener diode, and their use as rectifier, filters, clipping element and to find energy gap.
Bachelor of Science (Non-Medical) Semester VI	Mathematics (Linear Algebra)	BSNM-6333	Global	To design and analyze suspension systems, cryptograpy, to enhance X-rays, tomographs and images from space. To vary font on computer using linear transformations. In designing games and in making animation movies.
Bachelor of Science (Non-Medical) Semester VI	Mathematics (Numerical Analysis)	BSNM-6333(II)	Global	It is widely used for forecasting and predicting in the field of machine learning.
Bachelor of Science (Non-Medical) Semester VI	Chemistry- Molecular Spectroscopy	BSNM-6084	Global	Understand the principle and applications of ultraviolet and apply Woodward Fisher Rule to calculate $\lambda_{max}$ , understand the concepts of Vibrational spectroscopy, Vibrational coupling overtones and Fermi resonance and its application in Organic Chemistry, know about the Nuclear magnetic resonance spectroscopy. Proton chemical shift, spinnspin coupling, coupling constants and its applications to determine organic structures, to understand different cleavage patterns of organic compounds in Mass spectrometry and apply the knowledge for interpretation of the spectrum of an unknown compound.
Bachelor of Science (Non-Medical) Semester VI	Chemistry (Physical Chemistry)-II	BSNM-6084	Global	Understand the applications of S.W.E to rigid rotator, harmonic oscillators, hydrogen and hydrogen like atoms, quantum numbers,

				acquire knowledge about unit cell, space lattice, miller indices, symmetry operations, Bragg equation, and powder method.
Bachelor of Science (Non-Medical) Semester VI	Chemistry (Practical)	BSNM-6084	Global	Separate the various mixtures by Column Chromatography techniques, synthesize different Organic Compounds.
Bachelor of Science (Non-Medical) Semester VI	Physics(Nuclear Physics)	BSNM-6395	Global	Nuclear Physics helps to identify basic nuclear properties and outline their theoretical descriptions, concepts and types about nuclear reactions, reactions cross section and compound nucleus.
Bachelor of Science (Non-Medical) Semester VI	Physics (Radiation and Particle Physics)	BSNM-6395	Global	The students understand theory and working of various types of nuclear detectors like gas filled, semiconductor, solid state track detectors and nucleus emulsions.
Bachelor of Science (Non-Medical) Semester VI	Physics (Practical)	BSNM-6395	Global	During the practical class, students use GM counter to understand the concepts of dead time and absorption coefficient and statistical fluctuations.

## Department of Psychology

<b>Name of the Programme</b>	<b>Name of the Course</b>	<b>Course Code</b>	<b>Focus Local, National, Regional and Global</b>	<b>Description</b>
Master of Arts (Psychology) Semester -I	Experimental Psychology	MSYL-1441	Global and National	Broad knowledge of the general theoretical and scientific principles of experimental psychology.
Master of Arts (Psychology) Semester -I	Social Psychology	MSYL-1442	Regional, Global and National	Mainly focus and analyze the major theories, concepts, empirical findings, methods and techniques used in social psychology.
Master of Arts (Psychology) Semester -I	Statistical Techniques in Psychology	MSYL-1443	Global and National	Define and identify basic concepts in inferential and descriptive statistics.
Master of Arts (Psychology) Semester -I	Perceptual Processes	MSYL-1444	Global and National	History and methods used in the science of sensation and perception.
Master of Arts (Psychology) Semester -I	Theories and Systems of Psychology	MSYL-1445	Global and National	Historical development of Psychology and explain the development of Psychology as Science.
Master of Arts (Psychology) Semester -I	Group Dynamics	MSYL-1446	Regional, Global and National	It is about the major theories of group development and describe the interpersonal and intrapersonal reactions within the context of the group.
Master of Arts (Psychology) Semester -I	Practicals	MSYP-1447	Global and National	Practical are regarding the various tools used in psychological assessment.
Master of Arts (Psychology) Semester -II	Approaches to Personality	MSYL-2441	Global and National	Develop understanding of the basic approaches towards personality developed by the majorschools.
Master of Arts	Motivation	MSYL-2442	Global and National	Analyze the major theories, concepts, empirical findings,

(Psychology) Semester -II				methods and techniques used in motivation.
Master of Arts (Psychology) Semester -II	Experimental Designs	MSYL-2443	Global and National	About the different types of research methodologies and will be able to use them in research projects.
Master of Arts (Psychology) Semester -II	Physiological Psychology	MSYL-2444	Global and National	It is about the basic knowledge, structure and function about the structure and function of nervous system.
Master of Arts (Psychology) Semester -II	Abnormal Psychology	MSYL-2445	Global and National	It is related with the issues and concepts of abnormal psychology and its place in history and in society.
Master of Arts (Psychology) Semester -II	Practicals	MSYP-2446	Global and National	It is regarding the various tools used in psychological assessment for the assessment of Personality.
Master of Arts (Psychology) Semester -III	Psychometrics	MSYL-3441	Global and National	It is based on the theory and technique of psychological measurement.
Master of Arts (Psychology) Semester -III	Psychological Assessment	MSYL-3442	Global and National	It is deal with various psychometric and projective tests for personality.
Master of Arts (Psychology) Semester -III	Counselling Psychology	MSYL-3443 (OPT-III)	Global and National	Based on the concept, process, skills and ethical considerations essential to practice counselling settings.
Master of Arts (Psychology) Semester -III	Clinical Psychology	MSYL-3444 (OPT-IV)	Global and National	History and emergence of clinical psychology and its interrelationship with other disciplines.
Master of Arts (Psychology) Semester -III	Psychology of Exceptional Children	MSYL-3445 (OPT-VII)	Global and National	Based on the concept of exceptional children and distinguish between impairment, disability and handicap.
Master of Arts (Psychology) Semester -III	Human Rights and Constitutional Duties (ID paper)	MSYL-3446	Regional, Global and National	It is deal with the concept, types of Human Rights.
Master of Arts (Psychology) Semester -III	Practicals	MSYP-3446	Global and National	It is related with the administer psychological tools and apparatus for measuring personality, emotions and interest.
Master of Arts	Field Work	MSYF-3447	Global and National	Understanding of the concepts, principles, and practical

(Psychology) Semester -III				application of Psychological tools and psychotherapies with real case history.
Master of Arts (Psychology) Semester -IV	Research Methodology	MSYL-4441	Global and National	Understanding and broad knowledge of the research techniques used in the field of psychology.
Master of Arts (Psychology) Semester -IV	Applied Psychology	MSYL-4442	Global and National	It is about the application of psychological principles to solve problems of the human experience, social influence and legal system.
Master of Arts (Psychology) Semester -IV	Health Psychology	MSYL-4443 (OPT-III)	Global and National	It is about the nature and significance of emerging areas of health psychology.
Master of Arts (Psychology) Semester -IV	Positive Psychology	MSYL-4444 (OPT-IV)	Global and National	It is about trace the development of positive psychology as an independent discipline with Its multidimensional perspective.
Master of Arts (Psychology) Semester-IV	Developmental Psychopathology	MSYL-4445 (OPT-VI)	Global and National	It deals with the understanding about the concept of psychopathologies, their classification and assessment.
Master of Arts (Psychology) Semester-IV	Practicals	MSYP-4446	Global and National	Based on the administer psychological tools and apparatus for measuring creativity, intelligence and stress.
Bachelor of Arts Semester I	Psychology (Basic Psychological Processes)	BARM-1443	Global and National	Know about the historical development of Psychology and gain knowledge about the origin of psychology as a science.
Bachelor of Arts Semester II	Psychology (Psychological Processes)	BARM-2443	Global and National	Acquire in-depth knowledge in the psychological concepts of memory, motivation, emotions and personality. Apply the theoretical facts for enhancing one's personality, learning and memory and use it in everyday issues of life.
Bachelor of Arts Semester III	Psychology (Biological Basis Behaviour)	BARM-3443	Global and National	Acquire basic knowledge about the structure and function of nervous system. Describe and understand the interaction of different parts of the nervous system with higher cognitive functions.

Bachelor of Arts Semester IV	Psychology (Experimental Psychology)	BARM-4443	Global and National	Introduction of the concept of psychophysics and its various psychophysical methods. In-depth knowledge about of the phenomenon of learning in the field of psychology and its associated types. The practical application of reinforcement schedules in day to day life.
Bachelor of Arts Semester V	Psychology (Abnormal Psychology-I)	BARM-5443	Global and National	To understand the concepts of normality and abnormality with its causes.To beware of the history and classification systems of abnormality.
Bachelor of Arts Semester VI	Psychology (Abnormal Psychology-II)	BARM-6443	Global and National	Acquire a better understanding of abnormal behaviour patterns, and thereby learn to distinguish abnormal behaviour from normal. Know about the symptoms and causes of various psychological disorders.
Bachelor of Arts Semester III	Psychology (History and Schools of Psychology)	BARL-3619	Global and National	Know about the historical development of Psychology.
Bachelor of Arts Semester IV	Psychology (Social Psychology)	BARL-4619	Global, National and Regional	Understand and analyze the major theories, concepts, empirical findings, methods and techniques used in social psychology.
Bachelor of Arts Semester V	Psychology (Psychological Testing and Measurement)	BARL-5619	Global and National	Introduce to the students the history, importance and classification of psychological testing.
Bachelor of Arts Semester VI	Psychology (Applied Psychology)	BARL-6619	Global and National	To understand, analyze, interpret, predict and control human behaviour for better life and society. To provide an understanding about the discipline of psychology to the students with special emphasis on its application in different fields.

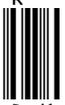
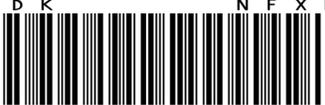
<b>Class</b>	<b>Title of Course</b>	<b>Course Code</b>	<b>Focus Local, National, Regional, and Global</b>	<b>Description</b>
Bachelor of Arts Semester I	Music Vocal	BARM-1366	National	To preserve Indian performing Arts (Music Vocal) Theatrically and Practically.
Bachelor of Arts Semester II	Music Vocal	BARM-2366	National	To preserve Indian performing Arts (Music Vocal) Theatrically and Practically.
Bachelor of Arts Semester III	Music Vocal	BARM-3366	National	To preserve Indian performing Arts (Music Vocal) Theatrically and Practically.
Bachelor of Arts Semester IV	Music Vocal	BARM-4366	National	To preserve Indian performing Arts (Music Vocal) Theatrically and Practically.
Bachelor of Arts Semester V	Music Vocal	BARM-5366	National	To preserve Indian performing Arts (Music Vocal) Theatrically and Practically.
Bachelor of Arts Semester VI	Music Vocal	BARM-6366	National	To preserve Indian performing Arts (Music Vocal) Theatrically and Practically.
Bachelor of Arts Semester I	Music (Instrumental)	BARM-1357	National	To preserve Indian performing Arts (Music Instrumental) Theatrically and Practically.
Bachelor of Arts Semester II	Music (Instrumental)	BARM-2357	National	To preserve Indian performing Arts (Music Instrumental) Theatrically and Practically.
Bachelor of Arts Semester III	Music (Instrumental)	BARM-3357	National	To preserve Indian performing Arts (Music Instrumental) Theatrically and Practically.
Bachelor of Arts Semester IV	Music (Instrumental)	BARM-4357	National	To preserve Indian performing Arts (Music Instrumental) Theatrically and Practically.
Bachelor of Arts Semester V	Music (Instrumental)	BARM-5357	National	To preserve Indian performing Arts (Music Instrumental) Theatrically and Practically.
Bachelor of Arts	Music (Instrumental)	BARM-6357	National	To preserve Indian performing Arts (Music Instrumental)

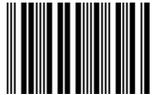
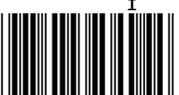
Semester VI				Theatrically and Practically.
Bachelor of Arts Semester I	Indian Classical Dance (Kathak)	BARM-1156	National	To preserve Indian performing Arts (Indian Classical Dance - Kathak) Theatrically and Practically.
Bachelor of Arts Semester II	Indian Classical Dance (Kathak)	BARM-2156	National	To preserve Indian performing Arts (Indian Classical Dance - Kathak) Theatrically and Practically.
Bachelor of Arts Semester III	Indian Classical Dance (Kathak)	BARM-3156	National	To preserve Indian performing Arts (Indian Classical Dance - Kathak) Theatrically and Practically.
Bachelor of Arts Semester IV	Indian Classical Dance (Kathak)	BARM-4156	National	To preserve Indian performing Arts (Indian Classical Dance - Kathak) Theatrically and Practically.
Bachelor of Arts Semester V	Indian Classical Dance (Kathak)	BARM-5156	National	To preserve Indian performing Arts (Indian Classical Dance - Kathak) Theatrically and Practically.
Bachelor of Arts Semester VI	Indian Classical Dance (Kathak)	BARM-6156	National	To preserve Indian performing Arts (Indian Classical Dance - Kathak) Theatrically and Practically.
Master of Arts (Music Vocal) Semester-III	MMVL-3361	Scientific Study of Indian Music	National	Scientific Study of Indian Music.
Master of Arts (Music Vocal) Semester-III	MMVL-3362	Music as a Commercial Art	National	Commercial exposure in Indian Music.
Master of Arts (Music Vocal) Semester-III	MMVL-3363	Stage and Sound Arrangement	Global	Study of different components of arranging sound to create harmony melody rhythm etc.
Master of Arts (Music Vocal) Semester-III	MMVL-3364	Multimedia and Indian Music	International	Study of Technology and media, especially in the field of Indian Music.
Master of Arts (Music Vocal)	MMVP-3365	Practical-V(Stage Performance)	National	To preserve Indian performing Arts (Classical Music Vocal): Practical aspects.

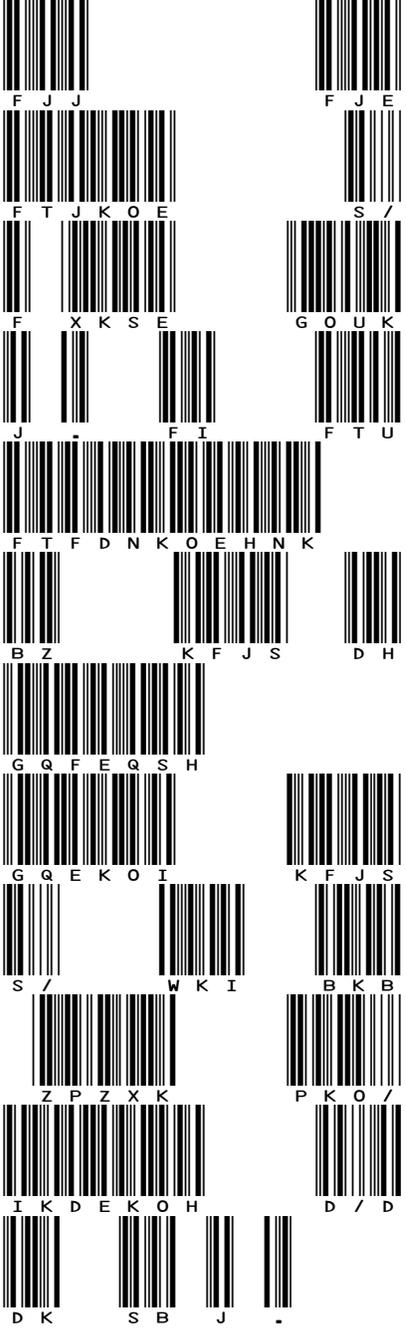
Semester-III				
Master of Arts (Music Vocal) Semester-III	MMVV-3366	Practical-VI (Viva-Voce)	National	To preserve Indian performing Arts (Classical Music Vocal): Practical aspects.
Master of Arts (Music Vocal) Semester-IV	MMVL-4361	Gurmat Sangeet	Regional	Theoretical and practical concepts of Gurmat Sangeet.
Master of Arts (Music Vocal) Semester-IV	MMVL-4362	Eassys on Indian Music and Research in Music	National	Various aspects of Research in Indian Music.
Master of Arts (Music Vocal) Semester-IV	MMVL-4363	Raag and Taal: Their Science and Aesthetics	National	To study the Physics of Aesthetical elements of Raag and Taal.
Master of Arts (Music Vocal) Semester-IV	MMVP-4364	Practical- VII(Stage Performance)	National	To preserve Indian performing Arts (Classical Music Vocal): Practical aspects.
Master of Arts (Music Vocal) Semester-IV	MMVV-4365	Practical-VIII (Viva-Voce)	National	To preserve Indian performing Arts (Classical Music Vocal): Practical aspects.
Master of Arts (Music Vocal) Semester-IV	MMVD-4366	Research Project (Minor)	National	To Experience the Research Process through Research Project.

### Department of Punjabi

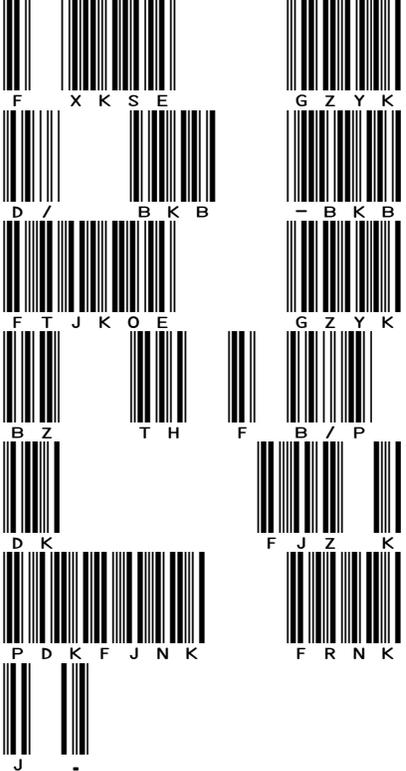
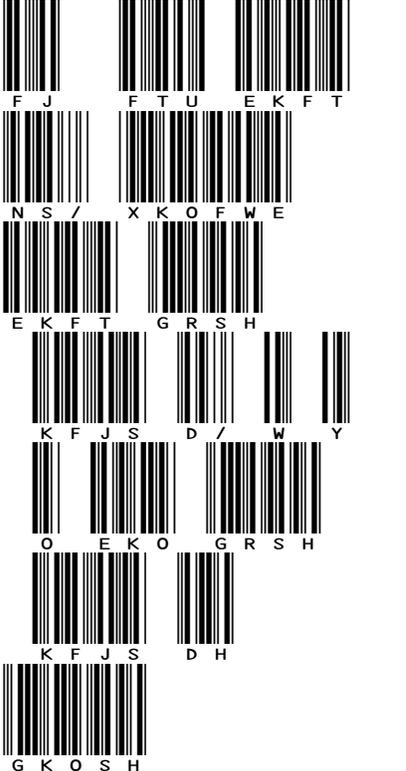
Programme	Course Title	COURSE CODE	Focus Local, National, Regional	Description
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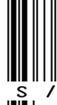
			<b>and Global</b>	
Masters of Arts (Punjabi) Semester I	Gurmat Kav	MPBL-1421	Regional	                      
Masters of Arts (Punjabi) Semester I	Punjabi Sufi Kav	MPBL-1422	Regional	   

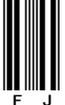
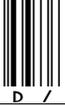
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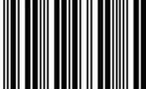
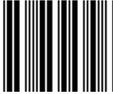
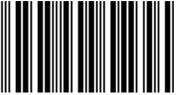
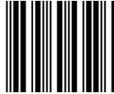
<p>Masters of Arts (Punjabi) Semester I</p>	<p>Sahit Sidhant ate Kav Shastar</p>	<p>MPBL-1423</p>	<p>Regional</p>	 <p>A grid of 18 barcode labels arranged in 6 rows and 3 columns. The labels are: Row 1: F J J, F J E; Row 2: F T J K O E, S /; Row 3: F X K S E, G O U K; Row 4: J -, F I, F T U; Row 5: F T F D N K O E H N K; Row 6: B Z, K F J S, D H; Row 7: G Q F E Q S H; Row 8: G Q E K O I, K F J S; Row 9: S /, W K I, B K B; Row 10: Z P Z X K, P K O /; Row 11: I K D E K O H, D / D; Row 12: D K, S B, J, -</p>
<p>Masters of Arts (Punjabi) Semester I</p>	<p>Lokdhara ate Punjabi Lokdhara</p>	<p>MPBL-1424</p>	<p>Regional</p>	 <p>A grid of 6 barcode labels arranged in 3 rows and 2 columns. The labels are: Row 1: F J J, G O U K, T H; Row 2: F X K S E, S /; Row 3: F T J K O E, F R N K B</p>

				                               
Masters of Arts (Punjabi) Semester I	Tulnaatmak Bharti Sahit:Sidhant	MPBL-1425	Regional	 

	ate Vihar			
Masters of Arts (Punjabi) Semester II	Bhagat Bani	MPBL-2421	Regional	

				 F G N K U K O B Z  D / D  G R S H  K F J S  D /  N K O Z G  S /  F T E K  S A  F T F D N K O E H  I K D  J  D R / -
Masters of Arts (Punjabi) Semester II	Punjabi Kissa ate Birtaant Kav	MPBL-2422	Regional	 F E Z  K  E K F T  S /  P H O  E K F T  W Z X E K B H  G Z I K P H  K F J S  D H N K D  N W H O  G O Z G O K T K  J B -  F J  F T U  F E Z  K  T K O  S /

				 I Z R B K W K D /  F X K S E  G F O G / Y N Z S O  F B Y / V G Z I K P H  F E Z K E K F T D /  F T E K  G V K N G Z I K P H  P H O E K F T D /  F T E K G V K N  S A F T F D N K O E H  I K D J D R / -
Masters of Arts (Punjabi) Semester II	Khoj ate Punjabi Alochna	MPBL-2423	Regional	 F J  F T U  F T F D N K O E H  G Z I K P H  N K B U B K  D /

				 N K O Z G  S /  F T E K  D /  N F X N  B  D /  B K B  B K B  G Z I K P H  F T U  G Q U F B S  W K E  T K D H  O G T K D H  S /  Z O U B K T K D H  N K B  U B K  D K  N F X N  B  E O E /  G Z S W  F T U  G Q U F B S  N K B U B K  F T X H N K  S  A  I K D  J  D R / / -
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Masters of Arts  
(Punjabi)  
Semester II

Sabhyachaar  
ate Punjabi  
Sabhyachaar

MPBL-2424

Regional



Masters of Arts  
(Punjabi)  
Semester II

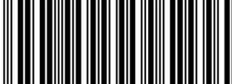
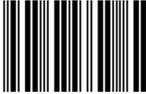
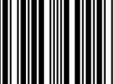
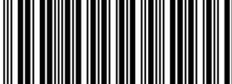
Punjabi Media  
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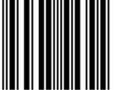
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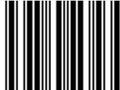
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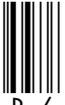
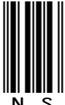
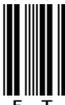
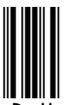


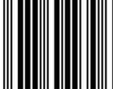
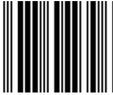
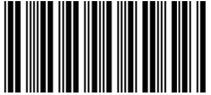
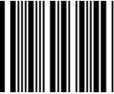
A grid of 20 barcode elements arranged in 10 rows and 2 columns. Each barcode is accompanied by a label consisting of alphanumeric characters. The labels are: Row 1: F J (left), F T U (right); Row 2: F T F D N K O E H (left), L (right); Row 3: G Z S O E K O H (left), L (right); Row 4: G F O G K P K (left), L (right); Row 5: G Q F E O S H (left), N S / (right); Row 6: G Q I B (left), N S / (right); Row 7: G Q E K O (left), D / (right); Row 8: G Z S O E K O H (left), D / (right); Row 9: G Q Z W Y (left), O G (right); Row 10: L P O (left), Z G K D E H (right); Row 11: B / Y (left), H U O (right); Row 12: W B K E K S (left), H U O (right); Row 13: O H F T T (left), G F O G K P (right); Row 14: K (left), F B W (right), N S / (right); Row 15: O G (left), G Z I K P H (right).

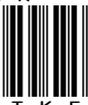
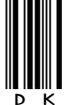
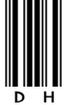
			 G Z S O E K O H  N K O Z G F Z X  G K  B F J O  N S /  G Z I K P H  G Z S O E K O H  K F J S E  G Z S O E K O H  D K  N F X N  B  E O B R / .
Masters of Arts (Punjabi) Semester II	Tourism at Punjabi Sabhyachar	MPBL-2426	Global  N F O I W  N S /  G Z I K P H  F G N K U K O  F T U  N F O I W  D /  Z E B G  G F O G K P K  N  F O I W  N S /

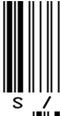
				 F G N K U K O  D /  N Z S O  Z P X  G Z I K P H  F G N K U K O  F T U  N F O I W  D /  F G S E V  N S /  F T E K  F G N K U K  O E N  F O I W  D /  G K P K J H  O E K O  P K O /  I K D E K O H  F D Z S H  I K T / R H .
Masters of Arts (Punjabi) Semester III	Adhunik Punjabi Kavita	MPBL-3421	Regional	 N K X  F B E  G Z I K P H  E F T S K  D /  F X K S E  G Z Y K  S  A  I K D

			 E O T K E /  F J F S J K E  G Q G K T K D H  I K D E K O H F D Z S H  I K T / R H .
Masters of Arts (Punjabi) Semester III	Punjabi Novel	MPBL-3422	Regional  B K T B B Z  N I E / Z R D K  W J K E K F T F E J K  I K D K J . F J  D K G K T J F E  B K T B F J Z E  N F I J K K F J S  O G J F I  O K J H A F E /  W K I D /

			             
Masters of Arts (Punjabi) Semester III	Punjabi Bhasha ate Bhasha Vigyan-I	MPBL-3423	Global              

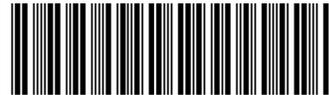
				 G K P K  F T F R N K B  D H  G F O G K P K  N S /  Y / S O  G K P K  F T F R N K B  N S /  G K P K  P K  S O  W K B T  F T F R N K B  W B  F T F R N K B  K F J S  D O P B  N S /  E  D O S H  F T F R N K B  D H  I K D E K O H  F D Z S H  I K T / R H .
Masters of Arts (Punjabi) Semester III	Punjabi Vartak-I	MPBL-3424	Regional	 G Z I K P H  T K O S E  S  A

			 F T F D N K O E H N K  B Z  T K E  E O T K T  D  D K  W B O E  G Z I K P H  T K O S E  D H  N W H O  F T O K S  F J D /  N K O Z G  N S /  F T E K  G Q F E F O N K  P K O /  I K D E K O H  G Q D K B  E O F D N K  G Q G Z E  P D K T  D K  J  .
Masters of Arts (Punjabi) Semester III	Punjabi Natak ate Ikangi	MPBL-3425	Regional  B K N E  D H  F T X K  G Z I K P H  B K N E  D /  F T E K

			 G V N G Z I K P H  B K N E L B T H B S W  G Q F T O S H N K  B K N E  S /  F J E K R H  L  F T X K R S  F B Y / V B K N E S /  O Z R W Z U L N Z S O  Z P Z Z X S A  F T F D N K O E D K  B Z  I K D  E O T K F J N K  I K T / R K .
Masters of Arts (Punjabi) Semester IV	Vishav Classiki Sahit	MPBL-4421	Global  F T P T E B K F E H  K F J S G O U /



F T U



F T F D N K O E H N K



B Z E B K F E H



K F J S D H



G F O G K P K N S /



G Q F E O S H



E B K F E H



K F J S D H



G Q Z F R E S K



G Z S W H



E B K F E H B K T B



D / T D G T N S /



F T E K G Z S W



F T U F B Z E H

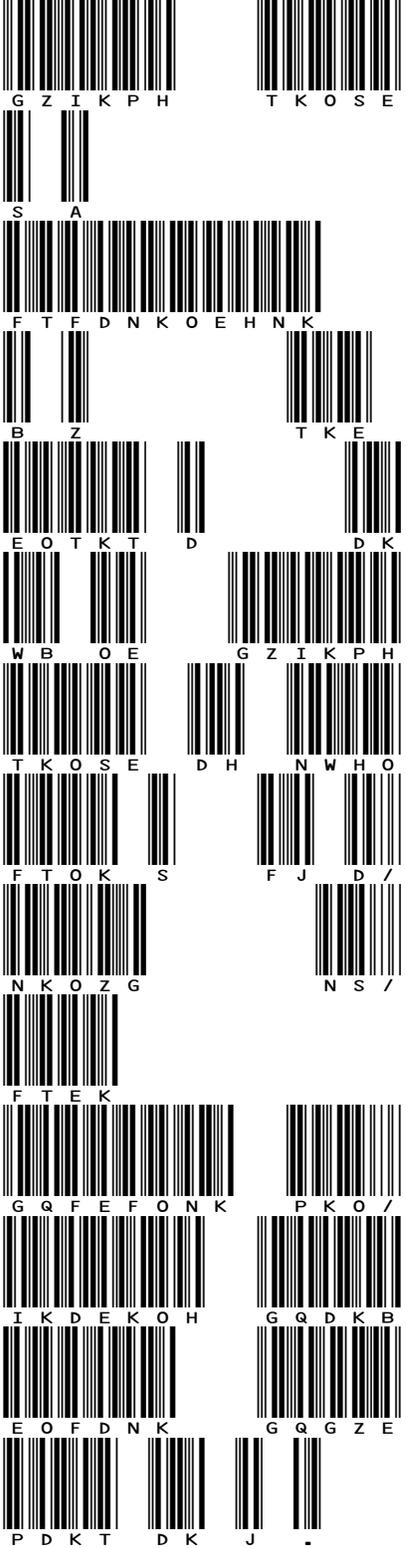


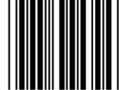
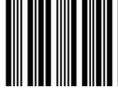
E J K D H D K

			    
<p>Masters of Arts (Punjabi) Semester IV</p>	<p>Punjabi Kahani</p>	<p>MPBL-4422</p>	<p>Regional</p>           

			 K P H E J K D H D H  F E S H  Z G K T B K T K S /  B T / O M K D S A  I K D J D R / -
Masters of Arts (Punjabi) Semester IV	Punjabi Bhasha ate Bhasha Vigyan-II	MPBL-4423	Global  G Z I K P H G K P K  S / G K P K  F T F R N K B - I I D /  G / G O F T U  G Z I K P H D H N K  F T N K E O D E  F J E K J H N K L  G F O G K P K N S /  P D S O G Z I K P H  T K E P D S O



<p>Masters of Arts (Punjabi) Semester IV</p>	<p>Punjabi Vartak- II</p>	<p>MPBL-4424</p>	<p>Regional</p>	 <p>A grid of 20 barcode elements arranged in 10 rows and 2 columns. Each element consists of a barcode with a corresponding alphanumeric label below it. The labels are: Row 1: G Z I K P H, T K O S E; Row 2: S, A; Row 3: F T F D N K O E H N K; Row 4: B, Z, T, K, E; Row 5: E, O, T, K, T, D, D, K; Row 6: W, B, O, E, G, Z, I, K, P, H; Row 7: T, K, O, S, E, D, H, N, W, H, O; Row 8: F, T, O, K, S, F, J, D, /; Row 9: N, K, O, Z, G, N, S, /; Row 10: F, T, E, K; Row 11: G, Q, F, E, F, O, N, K, P, K, O, /; Row 12: I, K, D, E, K, O, H, G, Q, D, K, B; Row 13: E, O, F, D, N, K, G, Q, G, Z, E; Row 14: P, D, K, T, D, K, J, -</p>
<p>Masters of Arts (Punjabi) Semester IV</p>	<p>(Opt-I) Parvasi Punjabi Sahit</p>	<p>MPBL-4425</p>	<p>Global</p>	 <p>A grid of 3 barcode elements arranged in 1 row and 3 columns. Each element consists of a barcode with a corresponding alphanumeric label below it. The labels are: G O T K, H, G Z I K P H</p>

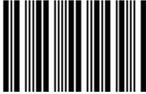
				 K F J S  D /  F  X K S E  G F O G / Y  S  A  I K D  E O T K  E /  F T F D N K O E D K  B  Z  G O T K H  G Z I K P H  K F J S  D /  F X K S  F J F S J K  G Q F T O S H N K  S /  B T A /  O M K D  S  A  I K D  E O T K F J N K  I K T / R K .
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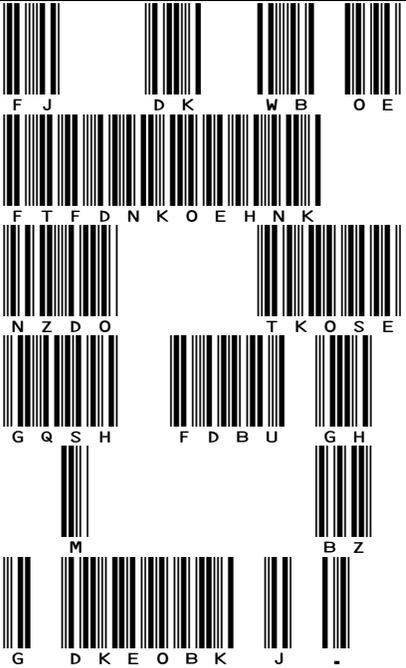
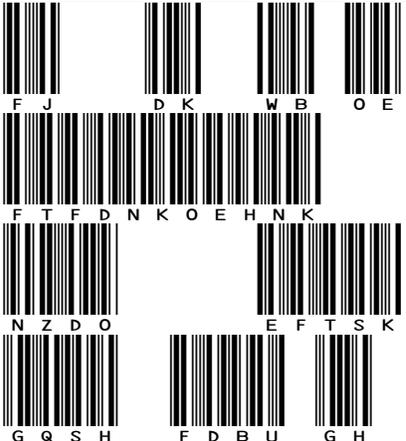
Bachelor of Science (Honours Mathematics)/ Bachelor of Arts (Honours) English Semester I

Punjabi (Compulsory)

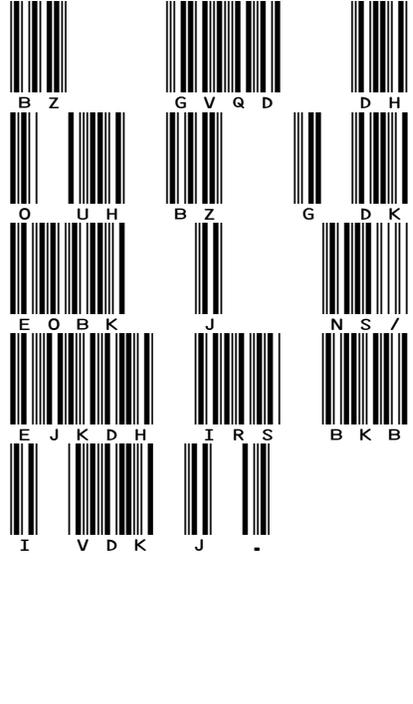
BOEL-1421  
BOML-1421  
BOPL-1421

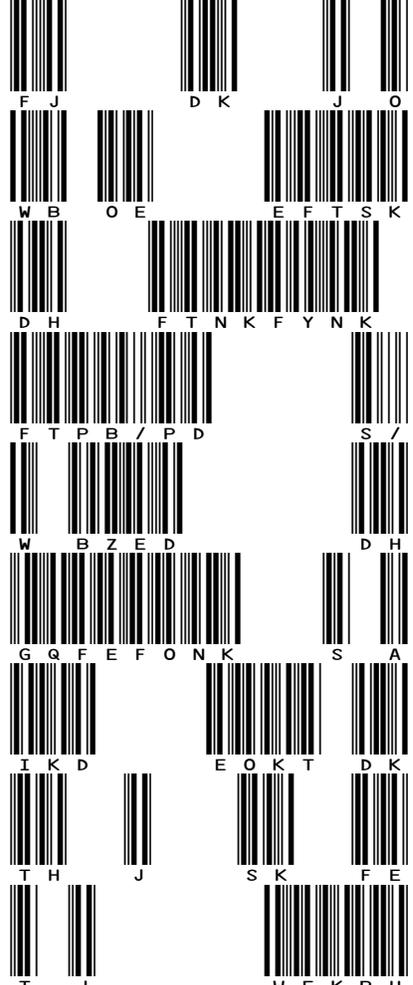
Regional

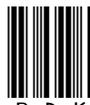
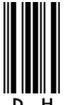
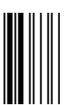
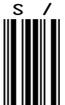
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 E F T S K		 D H	
 F T N K F Y N K			
 F T P B / P D		 S /	
 W B Z E D		 D H	
 G Q F E F O N K		 S A	
 I K D	 E O K T	 D K	
 T H	 J	 S K F E	
 T J	 W E K B H		
 W K I		 D H N K	
 W Z F	 N K T K	 B Z	
 W M	 E D	 N S /	
 N K B		 U B K S W E	
 F D Q P N H		 P D K	
 E D .			

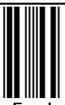
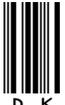
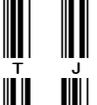
Bachelor of Science (Honours Mathematics)/ Bachelor of Arts (Honours) English Semester II	Punjabi (Compulsory)	BOEL-2421 BOML-2421 BOPL-2421	Regional	 <p>F J D K W B O E</p> <p>F T F D N K O E H N K</p> <p>N Z D O T K O S E</p> <p>G Q S H F D B U G H</p> <p>M B Z</p> <p>G D K E O B K J .</p>
Bachelor of Arts (Journalism & Mass Communication) / Bachelor of Science (Fashion Designing) / Bachelor of Science. (Home Science) / Bachelor of Computer Applications/Bac	Punjabi (Compulsory)	BJML-1421 BFDL-1421 BHSL-1421 BCAL-1421 BITL-1421 BBTL-1421	Regional	 <p>F J D K W B O E</p> <p>F T F D N K O E H N K</p> <p>N Z D O E F T S K</p> <p>G Q S H F D B U G H</p>

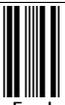
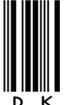
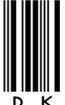
<p>honor of Science (Information Technology)/ Bachelor of Science (Bio- Technology) (Semester I)</p>				<p>M B Z G D K E O B K J S K F E T J N K X F B E D O F T U U Z B O J H N K E K F T X K O K T K N S / E T H N K P K O / F R N K B J K F B E O E D .</p>
<p>Bachelor of Arts (Journalism &amp; Mass Communication) / Bachelor of Science (Fashion Designing) / Bachelor of Science. (Home Science) / Bachelor of Computer Applications/Bac honor of Science (Information Technology)/</p>	<p>Punjabi (Compulsory)</p>	<p>BJML-2421 BFDL-2421 BHSL-2421 BCAL-2421 BITL- 2421 BBTL-2421</p>	<p>Regional</p>	<p>E J K D H G K R B Z F B / P F T U P K F W B E O E / F T F D N K O E H N K N Z D O E J K D H</p>

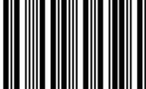
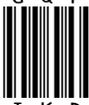
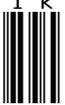
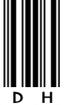
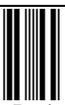
<p>Bachelor of Science (Bio-Technology) Semester II</p>				 <p>A grid of 15 barcode elements arranged in 5 rows and 3 columns. Each element consists of a barcode with alphanumeric characters below it. The characters are: Row 1: B Z, G V Q D, D H; Row 2: O U H, B Z, G D K; Row 3: E O B K, J, N S /; Row 4: E J K D H, I R S, B K B; Row 5: I V D K, J, -.</p>
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<p>Bachelor of Commerce (Honours) Semester I</p>	<p>Punjabi (Compulsory)</p>	<p>BCOL-1421</p>	<p>Regional</p>	 <p>A grid of 15 barcode elements arranged in 5 rows and 3 columns. Each element consists of a barcode with alphanumeric characters below it. The characters are: Row 1: F J, D K, J O; Row 2: W B, O E, E F T S K; Row 3: D H, F T N K F Y N K; Row 4: F T P B / P D, S /; Row 5: W B Z E D, D H; Row 6: G Q F E F O N K, S A; Row 7: I K D, E O K T, D K; Row 8: T H, J, S K, F E; Row 9: T, J, W E K B H.</p>
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				 W K I  D H N K  W Z F  N K T K B Z  W M  E D  N S /  N K B  U B K S W E  F D Q P N H  P D K  E D .
Bachelor of Commerce (Honours) Semester II	Punjabi (Compulsory)	BCOL-2421	Regional	 E J K D H  D H  F T N K F Y N K  F T P B / P D  S /  W B Z E D  D H  G Q F E F O N K  S A  I K D  J  D R / .  P P D  P D S O  G V Q D  B K B  F T F D N K O E H  F J  D /  W  Z Y B /

				 Z E B G K  B Z  N K X K O  P D K  E /  F J J B K  Z E B G K  S A  I K D  J D R /  -
<p>Bachelor of Arts / Bachelor of Science (Medical) / Bachelor of Science (Non Medical) / Bachelor of Science (Computer Science) / Bachelor of Science (Economics) / Bachelor of Commerce / Bachelor of Business Administration Semester I</p>	<p>Punjabi (Compulsory)</p>	<p>BARL-1421 BSML-1421 BSNL-1421 BCSL-1421 BECL-1421 BCRL-1421 BBRL-1421</p>	<p>Regional</p>	 F J  B Z  G V Q K T  D  D K  W B O E  F T F D N K O E H N K  N Z D O  E F T S K  G Q S H  F D B U  G H  M  B Z  G D K  E O B K  J  S K  F E  T J  N K X  F B E  D O  F T U  U Z B

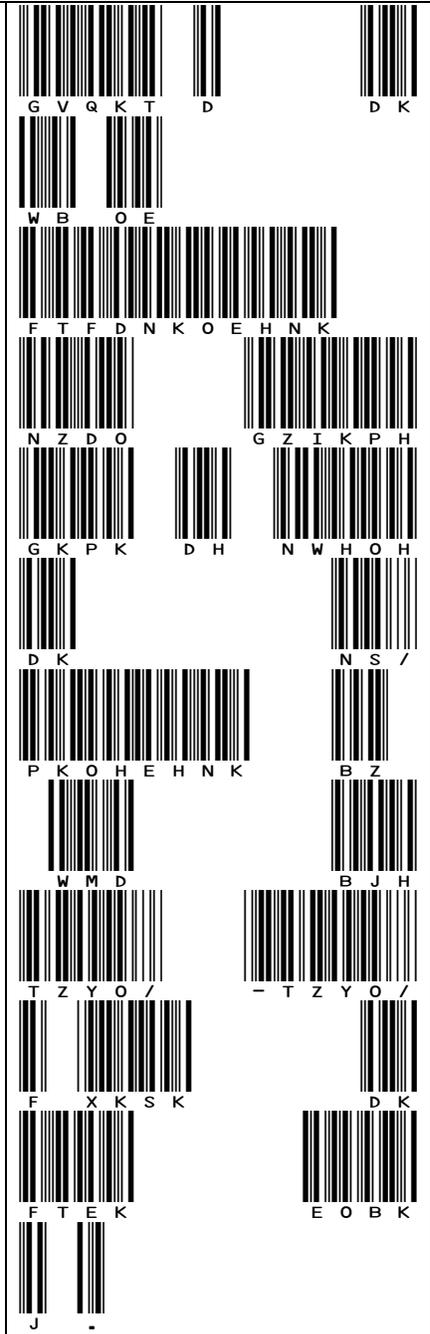
				 O J H N K  X K O K T K  E T H N K  F R N K B  E O  E D .  E K F T  N S /  P K O /  J K F B
<p>Bachelor of Arts / Bachelor of Science (Medical) / Bachelor of Science (Non Medical) / Bachelor of Science (Computer Science) / Bachelor of Science (Economics) / Bachelor of Commerce / Bachelor of Business Administration Semester II</p>	<p>Punjabi (Compulsory)</p>	<p>BARL-2421 BSML-2421 BSNL-2421 BCSL-2421 BECL-2421 BCRL-2421 BBRL-2421</p>	<p>Regional</p>	 F J  G V Q K T  W B O E  F T F D N K O E H N K  N Z D O  G Q S H  M  E O B K  D K  B Z  D K  D  F D B U  B Z  J  J O  B Z  D K  E J K D H  G H  G D K  F J  W B O E

				 E J K D H  F T P B / P D  W B Z E D  G Q F E F O N K  I K D  T H  T J  W K I  W Z F  W M  N K B  F D Q P N H  E D -	 D H  S /  D H  S A  E O K T  D K  S K  W E K B H  D H N K  N K T K  B Z  E D  N S /  U B K S W E  P D K
Bachelor of Arts / Bachelor of Science	Punjabi (Compulsory)	BARL-3421 BSML-3421	Regional	 F J  B Z	

<p>(Medical) /  Bachelor of  Science (Non  Medical) /  Bachelor of  Science  (Computer  Science) /  Bachelor of  Science  (Economics) /  Bachelor of  Commerce /  Bachelor of  Business  Administration  Semester III</p>		<p>BSNL-3421  BCSL-3421  BECL-3421  BCRL-3421  BBRL-3421</p>		 <p>G V Q K T D D K</p>  <p>W B O E</p>  <p>F T F D N K O E H N K</p>  <p>N Z D O G K P K D H</p>  <p>N W H O H N S /</p>  <p>P K O H E H N K B Z</p>  <p>W M D B J H</p>  <p>T Z Y O / - T Z Y O /</p>  <p>F X K S K D K</p>  <p>F T E K E O B K</p>  <p>J -</p>
<p>Bachelor of Arts  / Bachelor of  Science  (Medical) /  Bachelor of  Science (Non  Medical) /  Bachelor of  Science  (Computer</p>	<p>Punjabi  (Compulsory)</p>	<p>BARL-4421  BSML-4421  BSNL-4421  BCSL-4421  BECL-4421  BCRL-4421</p>	<p>Regional</p>	 <p>R O W Y H F B G H</p>  <p>D H N K</p>  <p>F T P / P S K T K B Z</p>

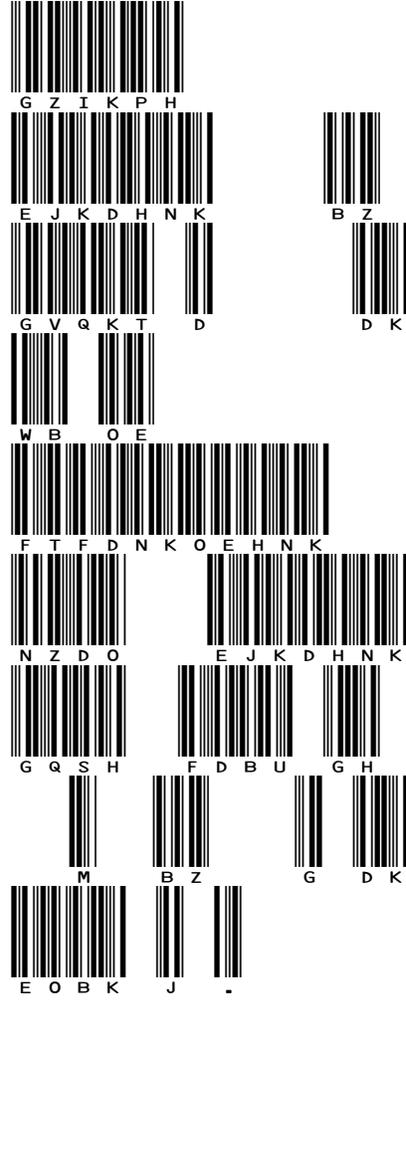
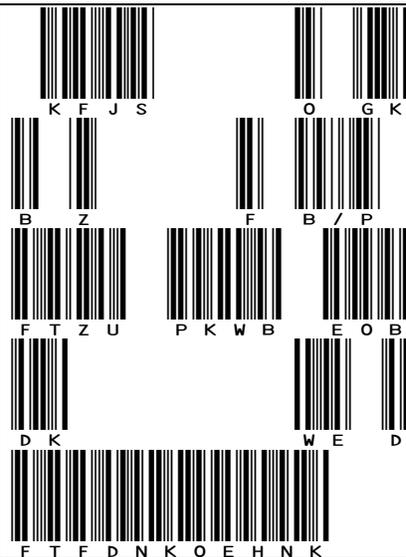
Science) /  
Bachelor of  
Science  
(Economics) /  
Bachelor of  
Commerce /  
Bachelor of  
Business  
Administration  
Semester IV

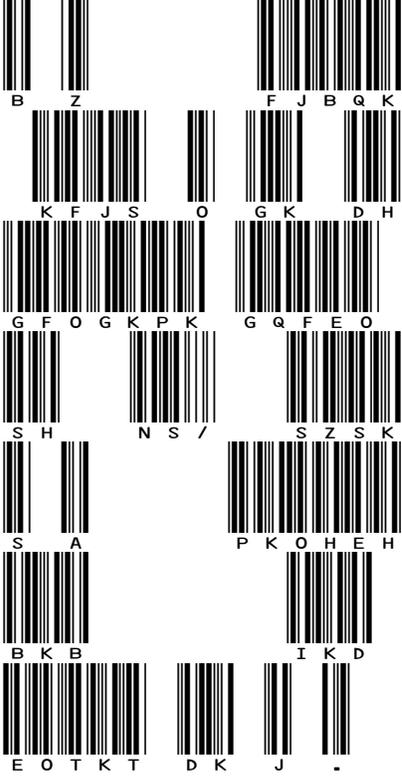
BBRL-4421

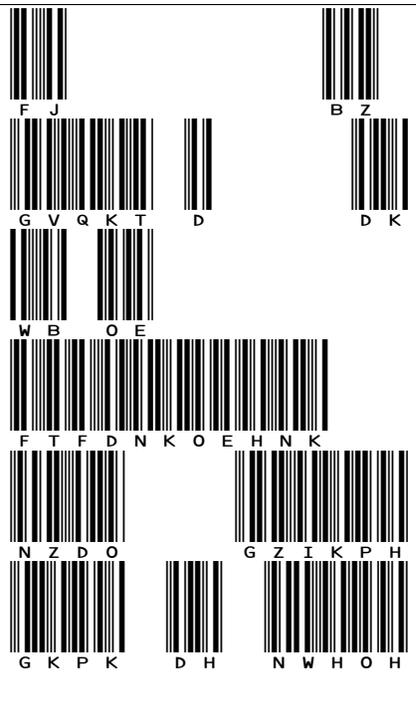


A grid of 20 barcode elements arranged in two columns. Each element consists of a barcode and a label below it. The labels are alphanumeric strings of varying lengths and characters.

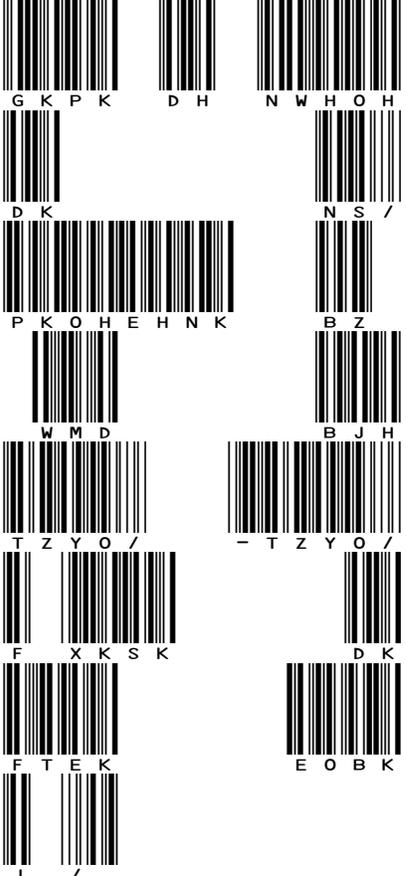
G V Q K T	D	D K
W B O E		
F T F D N K O E H N K		
N Z D O		G Z I K P H
G K P K	D H	N W H O H
D K		N S /
P K O H E H N K		B Z
W M D		B J H
T Z Y O /		- T Z Y O /
F X K S K		D K
F T E K		E O B K
J		-

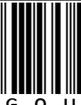
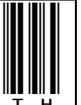
<p>Bachelor of Arts / Bachelor of Science (Medical) / Bachelor of Science (Non Medical) / Bachelor of Science (Computer Science) / Bachelor of Science (Economics) / Bachelor of Commerce / Bachelor of Business Administration Semester V</p>	<p>Punjabi (Compulsory)</p>	<p>BARL-5421 BSML-5421 BSNL-5421 BCSL-5421 BECL-5421 BCRL-5421 BBRL-5421</p>	<p>Regional</p>	 <p>A grid of 14 barcode elements with labels: G Z I K P H, B Z, E J K D H N K, D K, G V Q K T, D, D K, W B, O E, F T F D N K O E H N K, N Z D O, E J K D H N K, G Q S H, F D B U, G H, M, B Z, G, D K, E O B K, J, .</p>
<p>Bachelor of Arts / Bachelor of Science (Medical) / Bachelor of Science (Non Medical) / Bachelor of Science (Computer Science) / Bachelor of Science (Economics) / Bachelor of Commerce</p>	<p>Punjabi (Compulsory)</p>	<p>BARL-6421 BSML-6421 BSNL-6421 BCSL-6421 BECL-6421 BCRL-6421 BBRL-6421</p>	<p>Regional</p>	 <p>A grid of 10 barcode elements with labels: K F J S, O G K, B Z, F, B / P, F T Z U, P K W B, E O B, D K, W E, D, F T F D N K O E H N K</p>

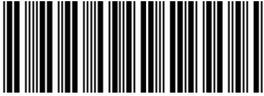
<p>Bachelor of Business Administration Semester VI</p>				 <p>B Z F J B Q K K F J S O G K D H G F O G K P K G Q F E O S H N S / S Z S K S A P K O H E H B K B I K D E O T K T D K J .</p>
<p>Bachelor of Arts / Bachelor of Science (Medical) / Bachelor of Science (Non Medical) / Bachelor of Science (Computer Science) / Bachelor of Science (Economics) / Bachelor of Commerce / Bachelor of Business Administration/ Bachelor of Arts (Journalism &amp; Mass Communication)</p>	<p>Basic Punjabi</p>	<p>BARL-1031 BSML-1031 BSNL-1031 BCSL-1031 BECL-1031 BCRL-1031 BBRL-1031 BJML-1031 BFDL-1031 BHSL-1031 BCAL-1031 BITL-1031 BBTL-1031</p>	<p>Regional</p>	 <p>W Z Y B H G Z I K P H G V Q K T D D K W B O E F T F D N K O E H N K B Z G Z I K P H G K P K B Z F Y K T D D H</p>

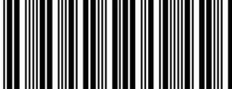
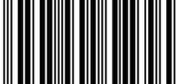
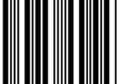
<p>/ Bachelor of Science (Fashion Designing) / Bachelor of Science. (Home Science) / Bachelor of Computer Applications/Bachelor of Science (Information Technology)/ Bachelor of Science (Bio-Technology)/ Bachelor of Science (Honours) Mathematics/ Bachelor of Arts (Honours) English/Bachelor of Commerce (Honours) Bachelor of Science (Honours) Physics Semester-I</p>		<p>BOML-1031 BOEL-1031 BCOL-1031 BOPL-1031</p>		 <p>A grid of 15 barcode elements arranged in 5 rows and 3 columns. Each element consists of a barcode and a corresponding alphanumeric code below it.</p> <ul style="list-style-type: none"> <li>Row 1: G Q F E F O N K, F T U</li> <li>Row 2: G K, E /, F J E, J O</li> <li>Row 3: G K P K, F, Z Y D, D K</li> <li>Row 4: W, E K, G Q D K B</li> <li>Row 5: E O B K, J, -</li> </ul>
<p>Bachelor of Arts / Bachelor of Science (Medical) / Bachelor of Science (Non Medical) / Bachelor of Science (Computer Science) / Bachelor of Science (Economics) / Bachelor of Commerce / Bachelor of Business Administration/ Bachelor of Arts</p>	<p>Basic Punjabi</p>	<p>BARL-2031 BSML-2031 BSNL-2031 BCSL-2031 BECL-2031 BCRL-2031 BBRL-2031 BJML-2031 BFDL-2031 BHSL-2031 BCAL-2031 BITL-2031</p>	<p>Regional</p>	 <p>A grid of 15 barcode elements arranged in 5 rows and 3 columns. Each element consists of a barcode and a corresponding alphanumeric code below it.</p> <ul style="list-style-type: none"> <li>Row 1: F J, B Z</li> <li>Row 2: G V Q K T, D, D K</li> <li>Row 3: W B, O E</li> <li>Row 4: F T F D N K O E H N K</li> <li>Row 5: N Z D O, G Z I K P H</li> <li>Row 6: G K P K, D H, N W H O H</li> </ul>

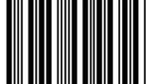
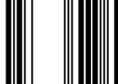
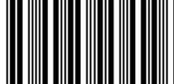
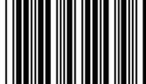
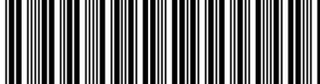
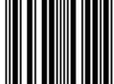
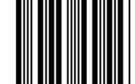
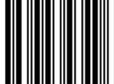
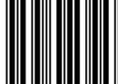
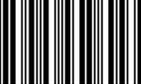


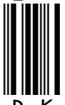
Administration Semester-III				
Bachelor of Arts / Bachelor of Science (Medical) / Bachelor of Science (Non Medical) / Bachelor of Science (Computer Science) / Bachelor of Science (Economics) / Bachelor of Commerce / Bachelor of Business Administration	Basic Punjabi	BARL-4031 BSML-4031 BSNL-4031 BCSL-4031 BECL-4031 BCRL-4031 BBRL4031	Regional	ਮੁੱਢਲੀ ਪੰਜਾਬੀ ਦੇ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਭਾਸ਼ਾ ਦੀ ਮੁੱਢਲੀ ਜਾਣਕਾਰੀ ਦੇਣ ਤੋਂ ਬਾਅਦ ਪੰਜਾਬੀ ਸਾਹਿਤ ਦੇ ਹੁ ਬ ਹੁ ਕਰਵਾਏ ਜਾਣ ਦਾ ਮਨੋਰਥ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਸਾਹਿਤ ਪੜ੍ਹਨ ਲਈ ਉਤਸ਼ਾਹਤ ਕਰਨਾ ਹੈ। ਪੰਜਾਬੀ ਸਾਹਿਤ ਜਗਤ ਦੇ ਨਾਮਵਰ ਕਵੀਆਂ ਦੀਆਂ ਰਚਨਾਵਾਂ ਪੜ੍ਹ ਕੇ ਵਿਦਿਆਰਥੀ ਇਨ੍ਹਾਂ ਦੇ ਜੀਵਨ ਤੇ ਸਾਹਿਤ ਤੋਂ ਜਾਣੂ ਹੋਣਗੇ।

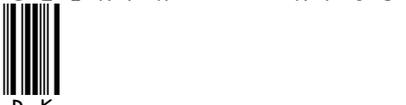
Semester-IV				
Bachelor of Arts / Bachelor of Science (Medical) / Bachelor of Science (Non Medical) / Bachelor of Science (Computer Science) / Bachelor of Science (Economics) / Bachelor of Commerce / Bachelor of Business Administration Semester-V	Basic Punjabi	BARL-5031 BSML-5031 BSNL-5031 BCSL-5031 BECL-5031 BCRL-5031 BBRL-5031	Regional	 F J J  G O U K  T H  F X K S E  S /  F T J K O E  F R N K B  D K  W / B  J -  F J  O K J H A  F T F D N K O E H N K  B Z  G  O K S B  G Z I K P H  B E  B K U B  E  E B K T K  B E  R H S K  B Z  W M D  D /  E K P B  P D K T  D  D K  S B  J  -

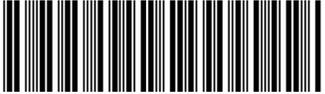
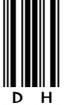
<p>Bachelor of Arts / Bachelor of Science (Medical) / Bachelor of Science (Non Medical) / Bachelor of Science (Computer Science) / Bachelor of Science (Economics) / Bachelor of Commerce / Bachelor of Business Administration Semester-VI</p>	<p>Basic Punjabi</p>	<p>BARL-6031 BSML-6031 BSNL-6031 BCSL-6031 BECL-6031 BCRL-6031 BBRL-6031</p>	<p>Regional</p>	 <p>F T F D N K O E H</p>  <p>G Z I K P H</p>  <p>F G N K U K O D K</p>  <p>F G S E V G Z I K P H</p>  <p>F G N K U K O D H</p>  <p>G R F B E</p>  <p>F E S H G Z I K P H</p>  <p>F G N K U K O D /</p>  <p>F B Y V T /</p>  <p>B Z S D</p>  <p>D K</p>  <p>N F X N B</p>  <p>E O B R / -</p>
<p>Bachelor of Arts Semester I</p>	<p>Punjabi (Elective)</p>	<p>BARL-1208</p>	<p>Regional</p>	 <p>F J D K W B O E</p>  <p>E F T S K</p>  <p>D H</p>

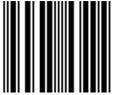
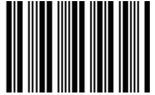
				 F T N K F Y N K  F T P B / P D  S /  W B Z E D  D H  G Q F E F O N K  S A  I K D  E O K T  D K  T H  J  S K  F E  T J  W E K B H  W K I  D H N K  W Z F  N K T K  B Z  W M  E D  N S /  N K B  U B K S W E  F D Q P N H  P D K  E D
Bachelor of Arts Semester II	Punjabi (Elective)	BARL-2208	Regional	 G Z I K P H  K F J S  D K  F J F S J K

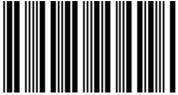
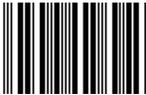
				 K F J S E  O G K
				 D K  F J F S J K
				 F B E K  S /
				 F T E K
				 G Q F T O S H N K  B Z
				 G V Q K T  D  D K
				 W B  O E
				 F T F D N K O E H N K
				 N Z D O  K F J S  D H
				 M  B Z  G  D K
				 E O B K  J  S K F E
				 T J  F R N K B
				 J K F B  E O
				 E D F J  D /  B K B
				 T  B Q K  F T U

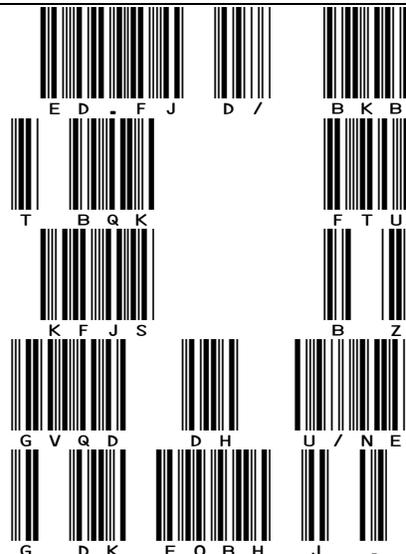
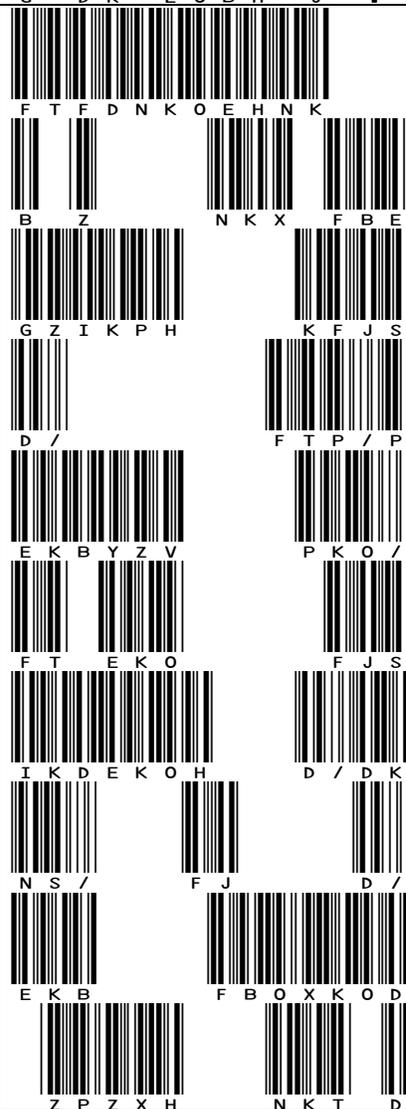
				 K F J S  B Z  G V Q D  D H  B K B  K  T X / R H
Bachelor of Arts Semester III	Punjabi (Elective)	BARL-3208	Regional	 W Z X E K B H B  G Z I K P H  E K F T  1 7 0 1 - 1 9 0 0  G S E  B Z  G V Q K T  D  D K  W B O E  F T F D N K O E H N K  N Z D O  E F T S K  G Q S H  F D B U  G H  M  B Z  G  D K  E O B K  J  S K  F E  T J  W Z X E K B H B

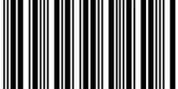
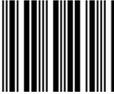
				     
Bachelor of Arts Semester IV	Punjabi (Elective)	BARL-4208	Regional	        

				 W B O E  F T F D N K O E H N K  N Z D O  K F J S  D H  M  B Z  G  D K  E O B K  J  S K  F E  T J  F R N K B  J K B  E O  E D F J  D /  B K B  T B Q K  F T U  K F J S  B Z  G V Q D  D H  U / N E  G D K  E O B H  J
Bachelor of Arts Semester V	Punjabi (Elective)	BARL-5208	Regional	 G Z I K P H  E K F T  Z R Q F J  1 7 0 0  J H H S Z E  G  S E

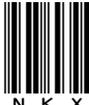
				 B Z  G V Q K T D  D K  W B O E  F T F D N K O E H N K  N Z D O  E F T S K  G Q S H  F D B U  G H  M  B Z  G D K  E O B K  J  S K F E  T J  W Z X E K B H B  D O  F T U  U Z B  O J H N K  E K F T -  X K O K T K  N S /  E T H N K  P K O /  F R N K B  J K  B  E O  E D  G Z I K P H  K F J S
Bachelor of Arts Semester VI	Punjabi (Elective)	BARL-6208	Regional	

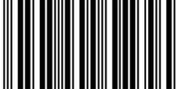
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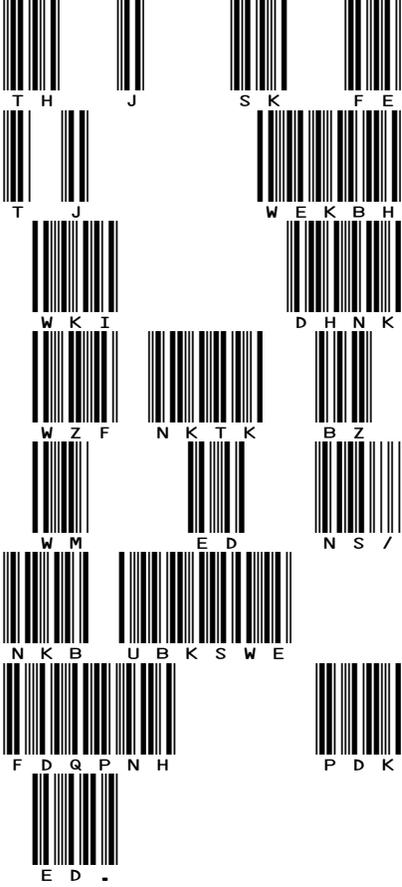
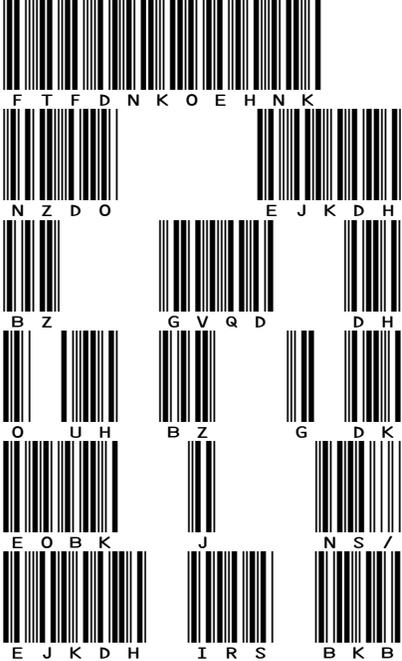
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Bachelor of Arts Semester III	Punjabi (Honours)	BARL-3579	Regional  <p> F T F D N K O E H N K  B Z N K X F B E  G Z I K P H K F J S  D / F T P / P  E K B Y Z V P K O /  F T E K O F J S  I K D E K O H D / D K  N S / F J D /  E K B F B O X K O D  Z P Z X H N K T D </p>

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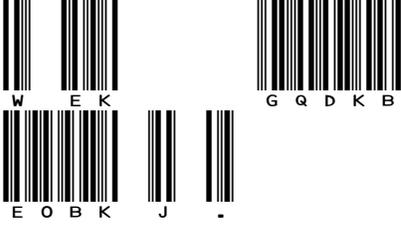
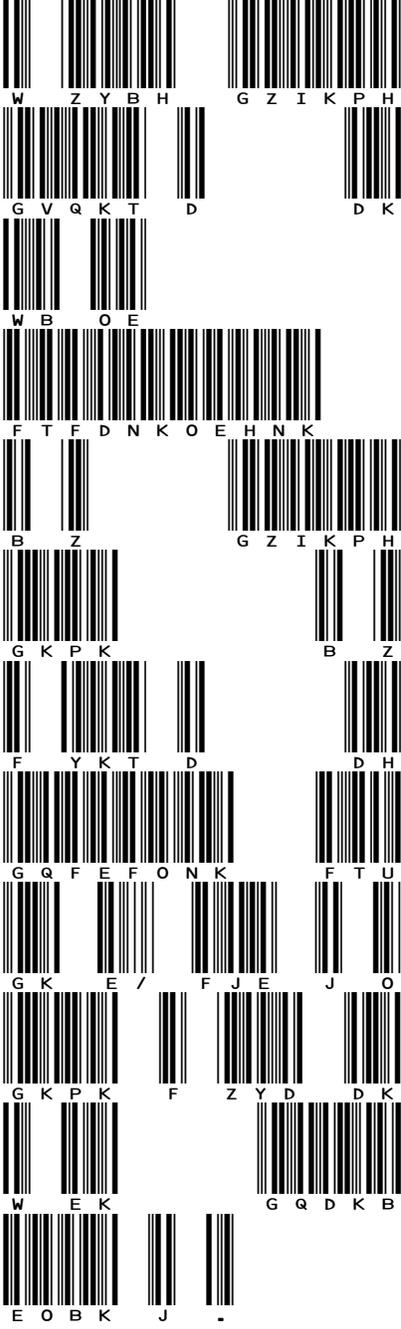
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Bachelor of Arts Semester VI	Punjabi (Honours)	BARL-6579	Regional	 F T F D N K O E H N K  B Z  N K X  F B E  G Z I K P H  N K B  U B K  Z E B G L T  D K S  F P Z P  X B H  S Q K  D H  T E Q E S H  D /  P K O /  F T E K O  F J S  I K D E K O H  D / D K  J  F T F D N K O E H N K  B Z  N K X  F B E

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Bachelor of Vocation (Retail Management)/ Bachelor of Vocation (Management & Secretarial Practices)/ Bachelor of Vocation (Animation )/ Bachelor of Vocation (Textile Design & Apparel Technology)/ Bachelor of Vocation (Nutrition Exercise & Health) )/ Bachelor of Vocation (Beauty & Wellness)/	Punjabi (Compulsory)	BVRL-1421 BVML-1421 BVAL-1421 BVTL-1421 BVNL-1421 BVBL-1421 BVPL-1421 BVHL-1421 BVIL-1421	Regional	 F J D K W B O E  E F T S K D H  F T N K F Y N K  F T P B / P D S /  W B Z E D D H  G Q F E F O N K S A  I K D E O K T D K

<p>Bachelor of Vocation (Photography &amp; Journalism)/  Bachelor of Vocation (Hospitality and Tourism)/  Bachelor of Vocation (Artificial Intelligence and Data Science)  Semester I</p>				 <p>Barcode grid for Semester I programs. The grid contains 18 barcodes with the following labels: THJ, SKFE, TJ, WEKBH, WKI, DHNK, WZF, NKTK, BZ, WM, ED, NS/, NKB, UBKSWE, FDQPNH, PDK, ED.</p>
<p>Bachelor of Vocation (Retail Management)/  Bachelor of Vocation (Management &amp; Secretarial Practices)/  Bachelor of Vocation (Animation )/  Bachelor of Vocation (Textile Design &amp; Apparel Technology)/  Bachelor of Vocation (Nutrition Exercise &amp; Health) )/  Bachelor of</p>	<p>Punjabi (Compulsory)</p>	<p>BVRL-2421  BVML-2421  BVAL-2421  BVTL-2421  BVNL-2421  BVBL-2421  BVPL-2421  BVHL-2421  BVIL-2421</p>	<p>Regional</p>	 <p>Barcode grid for Regional programs. The grid contains 18 barcodes with the following labels: FTFDNKOEHNK, NZDO, EJKDH, BZ, GVQD, DH, OUH, BZ, GK, EOBK, J, NS/, EJKDH, IRS, BKB.</p>

<p>Vocation (Beauty &amp; Wellness)/  Bachelor of Vocation (Photography &amp; Journalism)/  Bachelor of Vocation (Hospitality and Tourism)/  Bachelor of Vocation (Artificial Intelligence and Data Science)  Semester II</p>				<p>I V D K J .</p>
<p>Bachelor of Vocation (Retail Management)/  Bachelor of Vocation (Management &amp; Secretarial Practices)/  Bachelor of Vocation (Animation )/  Bachelor of Vocation (Textile Design &amp; Apparel Technology)/  Bachelor of Vocation (Nutrition Exercise &amp; Health) )/  Bachelor of Vocation (Beauty &amp; Wellness)/  Bachelor of Vocation (Photography &amp; Journalism)/  Bachelor of Vocation (Hospitality and Tourism)/  Bachelor of</p>	<p>Basic Punjabi</p>	<p>BVRL-1031  BVML-1031  BVAL-1031  BVTL-1031  BVNL-1031  BVBL-1031  BVPL-1031  BVHL-1031  BVIL-1031</p>	<p>Regional</p>	<p>W Z Y B H G Z I K P H</p> <p>G V Q K T D D K</p> <p>W B O E</p> <p>F T F D N K O E H N K</p> <p>B Z G Z I K P H</p> <p>G K P K B Z</p> <p>F Y K T D D H</p> <p>G Q F E F O N K F T U</p> <p>G K E / F J E J O</p> <p>G K P K F Z Y D D K</p>

<p>Vocation(Artificial Intelligence and Data Science) Semester I</p>				 <p>W E K G Q D K B E O B K J .</p>
<p>Bachelor of Vocation (Retail Management)/ Bachelor of Vocation (Management &amp; Secretarial Practices)/ Bachelor of Vocation (Animation )/ Bachelor of Vocation (Textile Design &amp; Apparel Technology)/ Bachelor of Vocation (Nutrition Exercise &amp; Health) )/ Bachelor of Vocation (Beauty &amp; Wellness)/ Bachelor of Vocation (Photography &amp; Journalism)/ Bachelor of Vocation(Hospitality and Tourism)/ Bachelor of Vocation(Artificial Intelligence and Data Science)</p>	<p>Basic Punjabi</p>	<p>BVRL-2031 BVML-2031 BVAL-2031 BVTL-2031 BVNL-2031 BVBL-2031 BVPL-2031 BVHL-2031 BVIL-2031</p>	<p>Regional</p>	 <p>W Z Y B H G Z I K P H G V Q K T D D K W B O E F T F D N K O E H N K B Z G Z I K P H G K P K B Z F Y K T D D H G Q F E F O N K F T U G K E / F J E J O G K P K F Z Y D D K W E K G Q D K B E O B K J .</p>

Semester II				
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### Department of Philosophy

Name of Programmes	Name of The course	Course Code	Focus local, national, regional and Global	Description
Bachelor of Arts Semester 1	Elementary Philosophy	BARL-1377	Global	Learn about Philosophy as a subject is diverse and valuable. It helps to understand the Socio-Political Philosophy, Learn about the various religious and social reforms of Ethical Philosophy and Have an in-Depth understanding of Philosophy of Culture and Civilization.
Bachelor of Arts Semester II	Ethics: Western and Indian	BARL-2377	Global	The course helps the student to understand Western and Indian Perspective of Ethics.It helps to understand the concept of

				Justice, Theory of action and importance of virtue for humanity are the concepts which students can learn easily through this course and Moreover this course helps to groom ethical and moral behaviour of students through ethical religious path Philosophy.
Bachelor of Arts Semester III	Deductive Logic and Applied Ethics	BARM-3377	Global	In this course students will be expected to: Have a knowledge and understanding of the ethical theories that can be used for dealing with practical moral problems. They also learnt how to offer arguments for and against the main positions introduced and have learnt skills in the analysis and critical assessment of arguments. Moreover they Learn about the use of Ethics in various Professions and student Gained confidence in expressing their ideas in open debate on any professional ethics topic.
Bachelor of Arts Semester IV	Inductive Logic and Environmental Ethics	BARM-4377	Global	Student can learn about Environmental Ethics and its issues.
Bachelor of Arts Semester V	Western meta physics and Epistemology	BARL-5377	Global	Upon successful completion of this course, students will be able to Reflect critically upon their assumptions, values and mental models associated with western philosophical perspective of life. Also Learn depth of Metaphysical thought of western Philosophy. Learn about the valid sources to attain knowledge and Recognize and reflect on the Metaphysical and epistemological theory.

### Department of Retail Management

Name of	Name of the	Course code	Focus	Description
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<b>programmes</b>	<b>course</b>		<b>Local, National, Regional and Global</b>	
Bachelor of Vocation (Retail Management) Semester I	Fundamentals of Management	BVRL-1323	Global	To specify how the managerial tasks of planning, organizing, directing and controlling can be executed in different circumstances.
Bachelor of Vocation (Retail Management) Semester I	Basics of Retail Management	BVRL-1324	Global and National	To understand the ways that retailers use marketing tools and techniques to Interact with their customers and apply a broad theoretical and technical knowledge of retail management to understand opportunities and challenges for creating excellent retailing experience.
Bachelor of Vocation (Retail Management) Semester I	Computer Fundamentals-I	BVRL-1125	Global	To know basic features of word and work effectively with features that affect the page layout of your document and create slide presentations that include text, graphics, animation, and transitions, and create the PowerPoint presentation.
Bachelor of Vocation (Retail Management) Semester I	Computer Applications in Retail	BVRL-1126	Global and National	To understand the fundamentals of computing devices and reinforce computer vocabulary, particularly with respect to personal use of computer hardware and software, the Internet & networking.
Bachelor of Vocation (Retail Management) Semester I	Lab on Computer Fundamentals-I (MS Office)	BVRP-1127	Global	To know basic features of word and work effectively with features that affect the page layout of your document and create slide presentations that include text, graphics, animation, and transitions, and create the PowerPoint presentation.
Bachelor of Vocation (Retail Management) Semester I	Lab on Retail Selling Skills	BVRP-1328	National	To explain functions/ features /benefits of a product appropriate to the needs of a particular consumer (through information gained by active listening).
Bachelor of Vocation (Retail	Retail Shopper Behaviour	BVRL-2323	Global and National	To identify different retail occupations and the related skills, attributes and behavior.

Management) Semester II				
Bachelor of Vocation (Retail Management) Semester II	Human Resource in Retail Operations	BVRL-2324	National	To get a clear understanding about various HR plans and implementation strategies and manage human resource affairs of a retail organization.
Bachelor of Vocation (Retail Management) Semester II	Computer Fundamentals–II (Advance Excel)	BVRM-2126	Global	To effectively use of formulas in worksheets and Indicate the names and functions of the excel interface components.
Bachelor of Vocation (Retail Management) Semester II	Summer Internship and Viva Voce	BVRI-2327	Global	To understand the selection of right store layout and design according to the nature of merchandise and understand the working of retail store.
Bachelor of Vocation (Retail Management) Semester III	E-Commerce	BVRL-3322	Global and National	To describe internet trading relationships including Business to Consumer, Business-to- Business, Intra-organizational and discuss security issues and explain procedures used to protect against security threats.
Bachelor of Vocation (Retail Management) Semester III	Store Layout and Design	BVRL-3323	Global and National	To understand the importance and psychology behind an effective store layout and product placement.
Bachelor of Vocation (Retail Management) Semester III	Retail Logistics Management	BVRL-3324	Global and National	Analyze and discuss key contemporary issues and problems in logistics management.
Bachelor of Vocation (Retail Management) Semester III	Health and Safety Management Issues in Retail	BVRL-3325	Global and National	To identify various hazards that affect human resource safety and company policies regarding health management issues.
Bachelor of Vocation (Retail Management) Semester III	Computer Applications- Tally and Internet	BVRM-3126	National	To generate Accounting Vouchers and create Ledgers in Tally ERP 9 and understanding Inventory management in Tally ERP 9.
Bachelor of Vocation (Retail Management) Semester III	Store Operations- I	BVRP-3327	Global and National	To develop skills regarding planning, controlling merchandise in a retail store and learning controlling techniques for the operations of retail store.
Bachelor of	Supply Chain	BVRL-4321	National	To develop an understanding of

Vocation (Retail Management) Semester III	Management			basic concepts and role of supply chain management in business.
Bachelor of Vocation (Retail Management) Semester IV	Merchandising Management	BVRL-4322	National	Understand merchandise forecasting and budgeting. Use basic buying management methods to meet the needs of a simulated retail market.
Bachelor of Vocation (Retail Management) Semester IV	Entrepreneurship Development	BVRL-4323	Global and National	To have an appreciation of the opportunities and challenges around developing multi-sided platforms and learn how investors appraise retail and consumer start-ups.
Bachelor of Vocation (Retail Management) Semester IV	Business Ethics	BVRL-4324	Global and National	To incorporate the concept of Business Ethics and Corporate Social Responsibility (CSR) into Business decisions and successfully practicing the various approaches to Business Ethics.
Bachelor of Vocation (Retail Management) Semester IV	Lab on E-Retailing and Retail Information System	BVRM-4325	Global and National	To determine the different methods and factors of online pricing and understanding the concept of price discrimination in E-retailing.
Bachelor of Vocation (Retail Management) Semester IV	Store Operations–II	BVRP-4326	Global and National	To develop skills regarding planning, controlling merchandise in a retail store and learning controlling techniques for the operations of retail store.
Bachelor of Vocation (Retail Management) Semester IV	Personality and Soft Skills Development	BVRL-5321	Global	To learn about basic personality traits and ways of understanding personality at work place and finding out personality disorders and learn different ways to change personality.
Bachelor of Vocation (Retail Management) Semester V	Project Management	BVRL-5322	National	To understand the feasibility analysis in project management and network analysis tools for cost and time estimation and implementing general business concepts, practices and tools to facilitate project success.
Bachelor of Vocation (Retail Management) Semester V	Advertising and Sales Management	BVRL-5323	National	To understand the concept of media planning and control, promotional tools and distribution channels and learning the importance of sales

				management in order to improve sales of organization.
Bachelor of Vocation (Retail Management) Semester V	Customer Relationship Management	BVRL-5324	Global and National	To evaluate the relationship between organization and its customer by using various techniques and methods.
Bachelor of Vocation (Retail Management) Semester V	Business Laws	BVRL-5325	National	To apply basic legal knowledge to business transactions and identify the fundamental legal principles behind contractual agreements.
Bachelor of Vocation (Retail Management) Semester V	Fundamentals of Visual Merchandising-I	BVRP-5326	Global and National	To apply basic design principles and colour theories to displays and advertising. Understand how to make display meaningful-identify colour, size and other attributes of the product that match the display.
Bachelor of Vocation (Retail Management) Semester V	Capstone Project	BVRD-5327	National	To learn how to make a Business Plan, understand the concept of Revenue Model and Analyze the different requirements for startup.
Bachelor of Vocation (Retail Management) Semester V	Retail Operations Management	BVRL-6321	Global	To learn integrated supply chain planning & innovations in supply chain management and know the process, planning & implementation of loyalty programmes.
Bachelor of Vocation (Retail Management) Semester VI	Marketing Management	BVRL-6322	National	To understand the benefits and basis of market segmentation. Learn the process of new product development and consumer adoption process.
Bachelor of Vocation (Retail Management) Semester VI	Production and Operations Management	BVRL-6323	National	To explain the major concepts in the functional areas of accounting, marketing, finance, and management.
Bachelor of Vocation (Retail Management) Semester VI	Financial Management	BVRL-6324	National	To appreciate the relevance of finance in business, sources of long term and short-term funds and understand the concept of cost of capital and its components.
Bachelor of Vocation (Retail Management)	Elements of Salesmanship	BVRL-6325	Global and National	Analyze the buying motives and profile of different customers and evaluate the different problems faced by a salesman

Semester VI				during sales presentation.
Bachelor of Vocation (Retail Management) Semester VI	Fundamentals of Visual Merchandising-II	BVRP-6326	Global and National	To apply basic design principles and colour theories to displays and advertising. Understand how to make display meaningful- Identify colour, size and other attributes of the product that match the display.
Bachelor of Vocation (Retail Management) Semester VI	Summer Internship and Viva Voce	BVRI-6327	Global	To understand the selection of right store layout and design according to the nature of merchandise and understand the working of retail store.
Master of Vocation (Retail Management) Semester - I	Fundamentals of Retailing and Retail Formats	MVRL-1321	Global	To understand the ways that retailers use marketing tools and techniques to Interact with their customers and apply a broad theoretical and technical knowledge of retail management to understand opportunities and challenges for creating excellent retailing experience.
Master of Vocation (Retail Management) Semester - I	Accounting for Retail Managers	MVRL-1322	National	To interpret and analyze financial statements, combine financial analysis with other information to assess the financial performance and position of a retail organisation.
Master of Vocation (Retail Management) Semester - I	Foundations of Management	MVRL-1323	Global	To specify how the managerial tasks of planning, organizing, directing and controlling can be executed in different circumstances.
Master of Vocation (Retail Management) Semester - I	IT Applications in Retail	MVRL-1325	Global and National	To understand the fundamentals of computing devices and reinforce computer vocabulary, particularly with respect to personal use of computer hardware and software, the Internet & networking.
Master of Vocation (Retail Management) Semester - I	Fundamentals of E- Retailing	MVRL-1326	Global and National	To determine the different methods and factors of online pricing and understanding the concept of price discrimination in E-retailing.

Master of Vocation (Retail Management) Semester - I	Lab on E-Retailing	MVRP-1327	Global and National	To use tools and services of the internet in the development of a virtual e-commerce site and to demonstrate an understanding of the importance of brand management online.
Master of Vocation (Retail Management) Semester - I	Project on Visual Merchandising	MVRD-1328	National	To apply basic design principles and colour theories to displays and advertising. Understand how to make display meaningful- Identify colour, size and other attributes of the product that match the display.
Master of Vocation (Retail Management) Semester - II	Retail Marketing Principles	MVRL-2321	National	To identify and classify marketing segments and targets, demonstrating the use of marketing research techniques.
Master of Vocation (Retail Management) Semester - II	Rural Retailing	MVRL-2322	National	To create awareness about the applicability of the concepts, techniques and processes of marketing in rural context and familiarizing with the special problems related to sales in rural market.
Master of Vocation (Retail Management) Semester - II	Retail Branding Strategies	MVRL-2323	Global	To develop a consumer-centric approach to building, measuring and evaluating strategies that build brand equity for new and existing brands.
Master of Vocation (Retail Management) Semester - II	Mall Management	MVRL-2324	Global and National	To comprehend the mall architecture and mall project handling and understanding infrastructure management and recognize different types of malls
Master of Vocation (Retail Management) Semester - II	Retail Buying and Merchandise Management	MVRL-2325	Global and National	To understand buying and merchandising process, techniques for buying, buying for various types of stores, buyer-vendor relationships.
Master of Vocation (Retail Management) Semester - II	Lab on Retail Business Skills	MVRP-2326	National	To explain functions/ features /benefits of a product appropriate to the needs of a particular consumer (through information gained by active listening).

Master of Vocation (Retail Management) Semester - II	Summer Internship and Viva Voce	MVRI-2327	Global	To understand the selection of right store layout and design according to the nature of merchandise and Understand the working of retail store.
Master of Vocation (Retail Management) Semester - III	Retail Marketing Research	MVRL-3321	National	To Synthesize the need for business research, its conduct and application to retail business decisions and understand the ways that retailers use marketing tools and techniques to interact with their customers.
Master of Vocation (Retail Management) Semester - III	Business Ethics and Corporate Social Responsibility	MVRL-3322	National	To incorporate the concept of Business Ethics and Corporate Social Responsibility (CSR) into Business decisions and successfully practicing the various approaches to Business Ethics.
Master of Vocation (Retail Management) Semester - III	International Retailing	MVRL-3323	Global	To understand the development & implementation of merchandise plans and understanding the global marketing mix in retail context.
Master of Vocation (Retail Management) Semester - III	Retail Personnel Management	MVRL-3324	Global	To get a clear understanding about various HR plans and implementation strategies and manage human resource affairs of a retail organization.
Master of Vocation (Retail Management) Semester - III	Lab on IT Solutions in Retail	MVRP-3325	Global and National	To get the clear information about different software used by Retailers and analyse the strategies of different entrepreneurs in E-Retailing.
Master of Vocation (Retail Management) Semester - III	Case Studies in Retail Management	MVRD-3326	National	To apply a structured problem-solving process to real business situations in the retail industry and assess profitability and overall success of the retail industry through the analysis of cases.
Master of Vocation (Retail Management) Semester - III	Minor Research Project and Viva Voce	MVRD-3327	Global and National	To analyze and interpret the data through various statistical and mathematical tools and delvelop into managerial implications and business significance of the issue under investigation.

Master of Vocation (Retail Management) Semester - IV	Retail Banking Services	MVRL-4321	National	To assess the various retail products and critically evaluate the recent trends in Retailing.
Master of Vocation (Retail Management) Semester - IV	Business Environment and Strategic Management	MVRL-4322	Global and National	To have a clear understanding of formulation, implementation and evaluation of strategies and gain knowledge about strategies and their relation with dynamic environment.
Master of Vocation (Retail Management) Semester - IV	Entrepreneurship Development in Retail	MVRL-4323	Global and National	To have an appreciation of the opportunities and challenges around developing multi-sided platforms and learn how investors appraise retail and consumer start-ups.
Master of Vocation (Retail Management) Semester - IV	Legal Aspects of Retailing	MVRL-4324	National	To understand the existing legal framework under which the retailing activities must be conducted.
Master of Vocation (Retail Management) Semester - IV	Digital Marketing	MVRM-4325	Global and National	To assess the different social media marketing strategies, impact of digital technology on the practice of marketing.
Master of Vocation (Retail Management) Semester - IV	Retail Banking Practical	MVRP-4326	National	To learn the technology for retail banking.
Master of Vocation (Retail Management) Semester - IV	Summer Internship and Viva Voce	MVRI-4327	Global	To understand the selection of right store layout and design according to the nature of merchandise and understand the working of retail store.

### Department of Political Science

Name of programme	Name of the course	Course code	Focus Local, National, Regional and Global	Description
Bachelors of	Political	BARL-1406	Global	To comprehend the significance of political theory. To give

Arts Semester-I	Theory-I			explanation about the theories, approaches, concepts and principles of political theory. To understand the procedure of different theoretical ideas in political theory. To understand the various traditional and modern theories of political science. To evaluate the theories of origin of the state.
Bachelors of Arts Semester-II	Political Theory-II	BARL-2406	Global	The knowledge regarding the modern concepts of Political Science, particularly in relation to post-behavioral scenario will enable them to have better understanding of the subject. Conceptual clarity regarding the basic fundamental postulates of liberty, equality and justice will enhance their philosophical aspect of politics. To identify the different notions of political science, the nature of political activities, events and processes. To evaluate the working of formal and informal structures of the government.
Bachelors of Arts Semester-III	Indian Constitution	BARL-3406	Global	To understand various dimensions of Indian Constitution. Understanding of structure and working of Indian political structures and different branches of governments. Understanding about the supreme courts initiatives in order to bring the social, economic and political changes in the country. To evaluate the performance of democratic institutions of India and the impact of the policies of the government regarding the service provided by system.
Bachelors of Arts Semester-IV	Indian Political System	BARL-4406	Global	To know regarding the working of Indian Political structures, formal and informal organizations of the government. Conceptual clarity of the basic postulates of democratic process i.e. the voting behaviour,

				<p>working of political parties, pressure groups, the issues of political participation etc. To identify the different aspects of Political Processes, particularly political participation and various issues. To understand the dynamics of social structures with special focus on the role of caste, religion, language, ethnicity and regionalism etc. as the dominant and crucial aspect in Indian politics and their impact over the working of the political process. To understand the external political process in the contemporary period.</p>
Bachelors of Arts Semester-V	Comparative Government and Politics	BARL-5406	Global	<p>Tracing the evolution of Comparative Political System as a discipline in Political Science. Investigating the nature and scope of Comparative Political System.</p> <p>Critically analyzing the features of liberal democratic political systems with focus on UK and USA. Discussing the features of a federal system with special reference to USA in comparison with the unitary system of UK. Conducting an intensive comparative study of the Executive (UK, USA); Legislature (UK, USA); and the Judiciary (UK, USA). Critically looking at the rights of the citizens of UK and USA from a comparative perspective.</p> <p>Thoroughly analyse the political system of South Asia, particularly in the context of Afghanistan and Pakistan.</p>
Bachelors of Arts Semester-VI	International Relations	BARL-6406	Global	<p>Tracing the evolution of International Relations as a discipline in Political Science.</p> <p>Investigating the nature and scope of International Relations.</p>

				<p>Critically analyzing the concept of Non State Actors, Changing Nature of Warfare and Conflict Resolution.</p> <p>Discussing the Regional organisation and their impact on World Politics.</p> <p>Study of Issues and Concerns of Climate Change, Environmental Concern and International Terrorism.</p> <p>Critically looking at the working, implementation and impact of United Nations in defining and re-defining world politics.</p> <p>Thoroughly analyse the political economy of International Relations, Globalization, North-South Dialogue and G-20 Group Politics.</p>
Bachelors of Arts Semester-I	Administrative Theory	BARL-1414	Global	<p>To appreciate the methodological pluralism and synthesizing nature of knowledge in Public Administration; To comprehend the changing paradigms of Public Administration. To acquaint with the theories, approaches, concepts and principles of Public Administration; To grasp the knowledge about the administrative theories and concepts to make sense of administrative practices. To Understand public administration theory and concepts from multiple perspectives.</p>
Bachelors of Arts Semester-II	Indian Administration	BARL-2414	Global	<p>This course has a vast scope in Indian Administrative Services as well as more avenues of employment in other fields also.</p> <p>The students will learn the real nature and working of the Indian Administration and the relationship between political and</p>

				political executive.
Bachelors of Arts Semester-III	Personnel Administration in India	BARL-3414	Global	<p>Develop the understanding regarding the functions of Personnel Administration and their role in the administrative structure of India.</p> <p>This course will further enhance the knowledge about the recruitment and training component of the civil services in India.</p> <p>Impart the knowledge about the employee-employer relationships and various mechanisms for the eradication of corruption from the administrative machinery.</p>
Bachelors of Arts Semester-IV	Financial Administration	BARL-4414	Global	<p>This course has a vast scope in Competitive examinations particularly Indian Administrative Services as well as more avenues of employment in other fields also. To enable them to understand the dynamics of nature and working of civil administration.</p>
Bachelors of Arts Semester-V	Local Government (With Special Reference to Punjab)	BARL-5414	Global	<p>Tracing origin and evolution of local government in India. Investigating the nature and scope of local government. Discussing the features of a 73<sup>rd</sup> and 74<sup>th</sup> Constitutional Amendment Acts and recommendations of various other committees. To understand the working of local bodies in India through democratic decentralization.</p> <p>Critically looking at the powers of local bodies and the major obstacles in way of their working.</p>
Bachelors of Arts Semester-VI	Development Administration	BARL-6414	Global	<p>Tracing origin and evolution of Public Sector in India.</p> <p>Investigating the nature and scope of Public Sector.</p>

				<p>Discussing the features of Development Administration in India. To understand the Administrative Problems of Public Sector in India.</p> <p>Critically examining the major obstacles in the performance of Public Sector in present scenario.</p>
Bachelors of Arts Semester-I	Conceptual Understanding of Human Rights and Duties	BARL-1295	Global	<p>The students will learn about the basic classification of Rights and Duties. Students will inculcate the knowledge about the theoretical component of Human Rights. This course will also guide the students about the relationship between Human Rights and Duties. Students will grasp the knowledge about the basic understanding about the day to day violations of Human Rights in the society and will also suggest the remedial measures.</p>
Bachelors of Arts Semester-II	Human Rights: International Dimensions	BARL-2295	Global	<p>Role played by the United Nations and its various agencies for the development and progress of various human rights. To enable the students to understand the mechanism of ongoing efforts to ensure human rights at global level through its various agencies and charters, commissions, councils etc.</p>
Bachelors of Arts Semester-III	Societal Issues of Human Rights in India	BARL-3295	Global	<p>The students to have the knowledge regarding the Societal problems and theoretical approaches to Social problems and Social Changes.</p> <p>Understanding about the national initiatives for the protection of human rights of minorities, scheduled castes and scheduled tribes; aged &amp; disabled and problems of women. The understanding of Offence involving Human Rights of Accrued, Inmates of Persons and</p>

				<p>Custodial Homes.</p> <p>This course lays the guidelines for improving the performance of Police and Jail system in more efficient manner. To aware the students about the rights to Legal Aid and legal mechanism in case of violation of Human rights.</p>
Bachelors of Arts Semester-IV	Environment and Human Rights	BARL-4295	Global	<p>To understand the historical perspective of environment and pollution and its effects on life and earth. To understand the rights about clean environment and the right to development and growth. To understand and appreciate the real scenario of Planet Earth in the era of globalization. To evaluate the constitutional provisions and initiatives and policies of the government towards the protection of the environment.</p>
Bachelors of Arts Semester-V	International Human Rights	BARL-5295	Global	<p>To identify the factors, which are responsible for the origin of various organizations of Human Rights at the international level. To understand the humanitarian issues and various mechanisms of Human Rights. To grasp the knowledge about the working of governments for the protection of human rights. Critically looking at the cases of violation of Human Rights and to find the possible solution.</p>
Bachelors of Arts Semester-VI	Women Rights	BARL-6295	Global	<p>To understand the evolutionary process of Gender. To understand various mechanisms of women rights. To understand the difference between Gender and Feminism.</p>
Bachelors of Arts Semester-III	Public Administration	BARL-3599	Global	<p>This course lays the basic foundation of public administration and its close relationship in the context of administrative machinery. This</p>

				course enhances understanding of good governance, delegated legislation and various principal of organization. This course helps them to understand the budgetary system of India. It provides the knowledge and guidelines regarding the different aspects of civil services in India. The purpose is to include the ethical values, dedication, honesty and hardworking among the students as the future nation builders.
Bachelors of Arts Semester-IV	Indian Foreign Policy (OPT-I)	BARL-4599	Global	This course gives in-depth knowledge of the basic principles of Indian Foreign Policy and its Policy of Non-alignment. It enables students to understand India's relations with the neighbouring countries. It enables the students to understand the Nuclear Policy and program of India.
Bachelors of Arts Semester-V	Comparative Political Thought	BARL-5599	Global	To know the importance of the ideology of Indian Political thought as well as western political thought. To increase your mental development by studying the views of various Indian thinkers as well as western thinkers. To gain knowledge of its utility in the current political scenario. Understanding your practical life, ancient ideas and current ideology by comparing the Indian and western political thinkers.  Understanding the merits and demerits of political ideas and experimenting in your real life field.
Bachelors of Arts Semester-VI	Comparative Political Thought-II	BARL-6599	Global	To know the importance of the ideology of Indian political thought as well as western political thought. To increase your mental development by studying the views of various Indian

				<p>thinkers as well as western thinkers. To gain knowledge of its utility in the current political scenario.</p> <p>Understanding your practical life, ancient ideas and Current ideology by comparing the Indian and western political thinkers.</p> <p>Understanding the merits and demerits of political ideas and experimenting in your real life field.</p>
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### Department of Sanskrit

<b>Name of Programmes</b>	<b>Name of the Course</b>	<b>Course Code</b>	<b>Focus Local, National, Regional and Global</b>	<b>Description</b>
Bachelor of Arts Semester-I	Sanskrit (Elective)	BARM - 1466	Global	To generate interest in sanskrit language among the students and impart knowledge of the structure of Sanskrit language.
Bachelor of Arts Semester -II	Sanskrit (Elective)	BARM - 2466	Global	To generate interest to ancient sociological and plotical structure of the society.
Bachelor of Arts Semester -III	Sanskrit (Elective)	BARM - 3466	Global	Learning Sanskrit grammar and its application.
Bachelor of Arts Semester -IV	Sanskrit (Elective)	BARM - 4466	Global	The student will be able to understand the general structure of Sanskrit language.

<b>Name of Programmes</b>	<b>Name of the Course</b>	<b>Course Code</b>	<b>Focus Local, National, Regional and Global</b>	<b>Description</b>
Bachelor of Arts Semester -V	Sanskrit (Elective)	BARM - 5466	Global	To generate interest in Sanskrit language among the students.
Bachelor of Arts Semester -VI	Sanskrit (Elective)	BARM - 6466	Global	The students will be able to right and communicate in Sanskrit.

### **Department of Sociology**

<b>Name of Programme</b>	<b>Name of the Course</b>	<b>Course Code</b>	<b>Focus Local, National, Regional, and Global</b>	<b>Description</b>
Bachelor of Arts Semester-I	Fundamentals of Sociology- I	BARL-1475	Global	To understand sociology as a discipline and also to study the role of society, institutions, ethics and norms in shaping individual's personality.

Bachelor of Arts Semester-II	Fundamentals of sociology- II	BARL-2475	National	To describe the role of various agents of socialization and theories of self development. Also illustrates social stratification, mobility, classification systems and the importance of social control through various agencies along with the types of crimes.
Bachelor of Arts Semester-III	Society in India	BARL-3475	National	Understand the various features of Indian Society, the institution of marriage, family and kinship which shapes individual's identity. It also describes the social structure and features of tribal, rural and urban society and causes, patterns and extents of various social problems which these societies face.
Bachelor of Arts Semester-IV	Social Change in India	BARL-4475	Regional	Develops an ability to understand the meaning, sources and impact of social change. It also studies the various processes of social change and critically analyses the theories of social change.
Bachelor of Arts Semester-V	Social Thought	BARL-5475	Global	Understand the contribution of August Comte, Max Weber, Herbert Spencer and Emile Durkheim and also to critically analyse their theories.
Bachelor of Arts Semester-VI	Social Research and Scientific Methods	BARL-6475	National	To understand the concept and steps of Social research, study various techniques of data collection and also prepares a researcher for report writing.

### Department of Textile Design & Apparel Technology

Name of Programmes	Name of the Course	Course Code	Focus local, national, Regional and global	Description
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Bachelor of Vocation (Textile Design & Apparel Technology) Semester-I	Introduction to Entrepreneurship	BVTL- 1233	Global	Learn the importance of entrepreneurship development and their effective management in an Organization.
Bachelor of Vocation (Textile Design & Apparel Technology) Semester-I	Fashion Design and Textile-I	BVTM- 1234	Global	To Students learn how to render their concept in diverse mediums improve their personal style while building portfolio.
Bachelor of Vocation (Textile Design & Apparel Technology) Semester-I	Fundamentals of Digital Textile-I	BVTM- 1125	Global	Use various Microsoft Office products like Microsoft Word and PowerPoint. Prepare Documents /presentation required for routine office work.
Bachelor of Vocation (Textile Design & Apparel Technology) Semester-I	Sewing Techniques –I	BVTP- 1236	Global	Understand the process involved in garment manufacturing such as cutting, planning, spreading and sewing.
Bachelor of Vocation (Textile Design & Apparel Technology) Semester-I	Health Safety and Maintenance	BVTP- 1237	Global	Create awareness of other responsibility towards their health and safety. To effectively communicate and collaborate inside a diverse work environment.
Bachelor of Vocation (Textile Design & Apparel Technology) Semester-I	Internship and Project Report	BVTI-1238	Global	Enhance the industrial experience & Learn how to work in formal working environment and the benefits of team work.
Bachelor of Vocation (Textile Design & Apparel Technology) Semester-II	Business Planning	BVTL- 2233	Global	Understand the basic concept of planning a business & establish the linkage between entrepreneurship and business planning
Bachelor of Vocation (Textile Design & Apparel Technology) Semester-II	Fashion Design and Textile-II	BVTM- 2234	Global	Learn how to render their concept in diverse mediums improve their personal style while building portfolio.
Bachelor of Vocation (Textile Design & Apparel Technology) Semester-II	Fundamentals of Digital Textile II	BVTM- 2125	Global	Understand and apply Textile design concepts using Computers. Acquaint students with knowledge of CAD based

				application in Fashion Designing.
Bachelor of Vocation (Textile Design & Apparel Technology) Semester-II	Garment Sewing	BVTP- 2236	Global	Understand the role of pattern adaptation techniques used to fit the different figure shapes and garment size. To understand the process involved in garment manufacturing such as cutting, planning, spreading and sewing.
Bachelor of Vocation (Textile Design & Apparel Technology) Semester-II	Internship and Project Report	BVTI-2237	Global	Understand develop and enhance professional awareness and communication skills. Learn how to work in formal working environment and the benefits of team work.
Bachelor of Vocation (Textile Design & Apparel Technology) Semester-III	Apparel Industry and Quality Control	BVTL- 3232	Global	Understand how to maximize the production of goods within the specified tolerances correctly the first time.
Bachelor of Vocation (Textile Design & Apparel Technology) Semester-III	History of Indian Clothing	BVTL- 3233	Global	Understand about our Indian Historic Costumes, traditional art and crafts that is a key to future fashion. Get acquainted with sketching skills of costumes for different regions of India.
Bachelor of Vocation (Textile Design & Apparel Technology) Semester-III	Pattern Making and Draping	BVTM- 3234	Global	Learn the basic draping techniques. Gain practical knowledge of different terms of pattern making.
Bachelor of Vocation (Textile Design & Apparel Technology) Semester-III	CAD-I	BVTP- 3235	Global	Understand the concepts of fashion design on computer. To acquaint students with knowledge of CAD based application in Fashion Designing.
Bachelor of Vocation (Textile Design & Apparel Technology) Semester-III	Garment Construction	BVTP- 3236	Global	Educate students on the technical aspects of developing design patterns with accuracy, and give them a firm foundation in the concepts.

				To develop skills and methods in the area of apparel production.
Bachelor of Vocation (Textile Design & Apparel Technology) Semester-III	Design Development-I	BVTP- 3237	Global	Increase the proficiency in drawing skills. To execute flat drawing and design to communicate the mood and image of fashion design.
Bachelor of Vocation (Textile Design & Apparel Technology) Semester-III	Seminar and Project Report	BVTD- 3238	Global	Experience to understand, discuss and evaluate the professional issues relating to textile & acquire the practical knowledge regarding the working procedure and the production of garments at industrial or commercial level.
Bachelor of Vocation (Textile Design & Apparel Technology) Semester-IV	Import-Export Management	BVTL- 4231	Global	Understand the knowledge of international trade and trade related policies. To enable the students to compare and contrast alternative theories and concept of international trade.
Bachelor of Vocation (Textile Design & Apparel Technology) Semester-IV	Traditional Indian Textiles	BVTM- 4233	Global	To gain the knowledge of Traditional handwork of different states of India. To study of historical background motifs, colors and materials used in various embroideries.
Bachelor of Vocation (Textile Design & Apparel Technology) Semester-IV	CAD-II	BVTP- 4234	Global	Understand the fashion design concepts on computer. To acquaint students with knowledge of CAD based application in Fashion Designing.
Bachelor of Vocation (Textile Design & Apparel Technology) Semester-IV	Professional garment Construction	BVTP- 4235	Global	Enable the students to construct men's wear. To educate students on the technical aspects of developing design patterns of men's wear with accuracy.
Bachelor of Vocation (Textile Design &	Design DevelopmentII	BVTP- 4236	Global	Teach students Professional illustrations which will help them in garment designing.

Apparel Technology) Semester-IV				To enable the students to draw and render theme-based garments.
Bachelor of Vocation (Textile Design & Apparel Technology) Semester-IV	Internship Report	BVTI-4237	Global	Enhance an industrial experience. Understand develop and enhance professional awareness and communication skills.
Bachelor of Vocation (Textile Design & Apparel Technology) Semester-V	Enterprise Management	BVTL-5232	Global	Learn the importance of entrepreneurship development and their effective management in organization. learn Contribute to the development implementation and evaluation of entrepreneurial skills.
Bachelor of Vocation (Textile Design & Apparel Technology) Semester-V	Textile Production Techniques	BVTM-5233	Global	Understand the term textiles in context of weaving, knitting, bonding and felting. To identify different fabric construction methods including simple and decorative weaving.
Bachelor of Vocation (Textile Design & Apparel Technology) Semester-V	Technical Surface Designing-I	BVTP-5234	Global	To learn about needle craft. To gain the knowledge of different embroidery techniques.
Bachelor of Vocation (Textile Design & Apparel Technology) Semester-V	E-Designing	BVTP-5235	Global	Acquaint students with knowledge of CAD based application in Fashion Designing. To learn the Creating labels, Logos, Posters Designing methods.
Bachelor of Vocation (Textile Design & Apparel Technology) Semester-V	Advance Draping and Garment Construction	BVTP-5236	Global	To learn the basic draping techniques. To familiarize with draping method for different kinds of garments.
Bachelor of Vocation (Textile Design & Apparel Technology) Semester-V	Advance Rendering and Stylization	BVTP-5237	Global	Learn different elements of illustrations. To execute flat drawing and design to communicate the mood and image of fashion design.

Bachelor of Vocation (Textile Design & Apparel Technology) Semester-V	Survey and Project Report	BVTD- 5238	Global	To gain knowledge of different fabrics and trimmings available in the market. To enable students to learn the sourcing of various fashion materials.
Bachelor of Vocation (Textile Design & Apparel Technology) Semester-VI	Fashion Marketing and Merchandising	BVTL- 6231	Global	Know the role and responsibilities of fashion merchandising. Know about fashion show, Exhibitions and Displays.
Bachelor of Vocation (Textile Design & Apparel Technology) Semester-VI	Eco Textiles and Sustainable clothing	BVTL- 6232	Global	Understand about the development and maintenance of healthy and safe work environment. To learn how to set effective safety goals for an organization.
Bachelor of Vocation (Textile Design & Apparel Technology) Semester-VI	Custom made Sewing	BVTP- 6234	Global	To learn how to manage the boutique. To gain the knowledge about measurement charts, specification sheets and cost sheet.
Bachelor of Vocation (Textile Design & Apparel Technology) Semester-VI	Portfolio Development	BVTP- 6235	Global	Provide the opportunity to demonstrate your skills and fit in a visual format. Exhibit the student inclination towards and particular segment of the industry by identifying target customers, design requirements and pricing.
Bachelor of Vocation (Textile Design & Apparel Technology) Semester-VI	Technical Surface Designing-II	BVTP- 6236	Global	Know about the different printing methods. Get the knowledge of embroidery stitches.
Bachelor of Vocation (Textile Design & Apparel Technology) Semester-VI	Digital Designing and Display	BVTP- 6237	Global	Enable the students to organize exhibitions. Learn how to prepare displays.
Bachelor of Vocation (Textile Design & Apparel Technology)	Internship Report	BVTI-6238	Global	To learn how to work in formal working environment and the benefits of team work. To experience to

Semester-VI				understand, discuss and evaluate the professional issues relating to textile.
Master of Vocation (Textile Design and Apparel Technology) Semester-I	Health Safety and Maintenance	MVTL-1231	Global	Learn the knowledge of Health Safety & Maintenance in their field. To create awareness of other responsibility towards their health and safety.
Master of Vocation (Textile Design and Apparel Technology) Semester-I	Textile and Apparel Production	MVTM-1232	Global	Identify different fabric construction methods including simple and decorative weaving. Understand the introduce to aspects of apparel production technology.
Master of Vocation (Textile Design and Apparel Technology) Semester-I	Fashion Draping and Pattern Making	MVTM-1233	Global	Apply the knowledge in garment production and textile units. Use industry terminology and equipment in appropriate ways.
Master of Vocation (Textile Design and Apparel Technology) Semester-I	Fashion Illustration and Design	MVTP-1234	Global	Students will gain knowledge about various art mediums like charcoal, steadlers, posters, water colors, pastels and ink. Student will able to create awareness of Current Fashion.
Master of Vocation (Textile Design and Apparel Technology) Semester-I	Garment Construction-I	MVTP-1235	Global	Learn about design research, design inspirations and sourcing. Gain knowledge about pattern development.
Master of Vocation (Textile Design and Apparel Technology) Semester-I	Fashion Digital Designing-I	MVTP-1236	Global	To attain knowledge about various tools of Photoshop and adobe illustrator. To learn how to make various fashion details.
Master of Vocation (Textile Design and Apparel Technology) Semester-I	Visual Display	MVTP-1237	Global	Learn about Visual Display and Presentation Skill. Understand skills needed to create and construct 3-dimensional window displays.
Master of Vocation (Textile Design and	Internship and Viva Voce	MVTI-1238	Global	Understand develop and enhance professional

Apparel Technology) Semester-I				awareness and communication skills. Learn how to work in formal working environment and the benefits of team work.
Master of Vocation (Textile Design and Apparel Technology) Semester-II	Fashion Studies	MVTL-2231	Global	Understand the effect of various social factors on clothing. Understand the effect of various Psychological factors on clothing.
Master of Vocation (Textile Design and Apparel Technology) Semester-II	Introduction to Textile Science	MVTM-2232	Global	Test the fabrics by using different types of natural and synthetic fiber and discuss briefly the results.
Master of Vocation (Textile Design and Apparel Technology) Semester-II	Garment Construction-II	MVTP-2234	Global	Educate students on the technical aspects of developing design patterns with accuracy, and give them a firm foundation in the concepts.
Master of Vocation (Textile Design and Apparel Technology) Semester-II	Fashion Digital Designing-II	MVTP-2235	Global	Learn the basic using vector graphics. Create fashion illustration working with styles.
Master of Vocation (Textile Design and Apparel Technology) Semester-II	Fabric Craft	MVTP-2236	Global	Develop and apply design skills specific to printed textiles, through the use of color, materials and techniques for generation of original artwork.
Master of Vocation (Textile Design and Apparel Technology) Semester-II	Fashion illustration and Stylization	MVTP-2237	Global	Learn different elements of illustrations. Execute flat drawing and design to communicate the mood and image of fashion design.
Master of Vocation (Textile Design and Apparel Technology) Semester-II	Industrial Training and Project Report	MVTI-2238	Global	Enhance the industrial experience. Develop and enhance professional awareness and communication skills.
Master of Vocation (Textile Design and Apparel Technology) Semester-III	Fundamentals of Retailing	MVTL-3231	Global	Understand how current social and economic factors affect fashion retailers. Analyze and evaluate current visual merchandising

				techniques used locally and globally.
Master of Vocation (Textile Design and Apparel Technology) Semester-III	Industrial Safety	MVTL-3232	Global	Student will learn identify the components needed to provide a safe and healthful work environment through case. Student will learn to Work in an ethical and professional manner.
Master of Vocation (Textile Design and Apparel Technology) Semester-III	History of art in Textiles	MVTM-3233	Global	Student will learn to Work in an ethical and professional manner. Students will able to understand the different dyed textiles of each state.
Master of Vocation (Textile Design and Apparel Technology) Semester-III	Creative Textile Design and Illustration	MVTP-3234	Global	To render their concept in diverse medium, improve their personal style while building portfolio. Understand fashion industry.
Master of Vocation (Textile Design and Apparel Technology) Semester-III	Advanced Pattern Making & Grading	MVTP-3235	Global	Understand the human body proportion to get the required shape of the garments. Understand the principles of Pattern Grading and get to know about the various tools and equipment used for Patten Grading.
Master of Vocation (Textile Design and Apparel Technology) Semester-III	Professional Garment Production	MVTP-3236	Global	Understand the concept to apply the use of pattern drafting for clothing. Understand the role of pattern adaptation techniques used to fit the different figure shapes and garment size.
Master of Vocation (Textile Design and Apparel Technology) Semester-III	CAD in Textile Designing-I	MVTP-3237	Global	Apply design concepts and knowledge for creating computerized Designs. Use CAD and its various tools.
Master of Vocation (Textile Design and Apparel Technology) Semester-III	Internship and Project Report	MVTI-3238	Global	Learn how to work in formal working environment and the benefits of team work. Understand, discuss and evaluate the professional issues relating to textile.

Master of Vocation (Textile Design and Apparel Technology) Semester-IV	Fashion Event Management and Media	MVTL-4231	Global	Communication skills to present their ideas and market their plans in front of the management and clients respectively. Understand Social and Environmental issues in fashion and media.
Master of Vocation (Textile Design and Apparel Technology) Semester-IV	World Costumes	MVTL-4232	Global	The course will provide knowledge about the history of Global Costumes. The course will focus on historic costumes and their influence on modern costumes.
Master of Vocation (Textile Design and Apparel Technology) Semester-IV	Accessory Designing and Surface Ornamentation	MVTP-4234	Global	Gain the knowledge of Illustrate different accessory types. Understand to design different articles with own skills and creativity.
Master of Vocation (Textile Design and Apparel Technology) Semester-IV	Custom Made Sewing	MVTP-4235	Global	Gain the knowledge of client profile. Gain the knowledge about measurement charts, specification sheet and Cost sheet.
Master of Vocation (Textile Design and Apparel Technology) Semester-IV	CAD in Textile Designing-II	MVTP-4236	Global	Understanding of clothing construction, patternmaking, technical design, and patternmaking software. To use CAD and its various tools.
Master of Vocation (Textile Design and Apparel Technology) Semester-IV	Portfolio Design Development	MVTP-4237	Global	Rendering of different garments on the model with emphasis on the fabric, texture, colour and style details. Exhibits the student inclination towards and particular segment of the industry by identifying the target customers, design requirements and pricing
Master of Vocation (Textile Design and Apparel Technology) Semester-IV	Internship and Project Report	MVTI-4238	Global	Understand the selection of right collection of design according to the nature of merchandise. Understand the hands-on practice within a real job

				situation.
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**Department of Zoology**

<b>Name of Programmes</b>	<b>Name of the Course</b>	<b>Course Code</b>	<b>Focus Local, National, Regional, and Global</b>	<b>Description</b>
Bachelor of Science (Medical) Semester I	Zoology (Cell Biology)	BSMM-1483 (I)	Global	Students will be able to learn and perform a variety of molecular and cellular biology techniques, cellular structure and functions of various cell organelles and basic idea about cancer and immunity.
Bachelor of Science	Zoology	BSMM-	Global	Gain knowledge about physiology of non-chordates including

(Medical) Semester I	(Biodiversity-I)	1483 (II)		unicellular protozoan, Poriferans, Cnidarians, Platyhelminths, Aschelminths and Annelids.
Bachelor of Science (Medical) Semester I	Zoology (Practical-I - Related to Cell Biology & Biodiversity-I)	BSMM- 1483 (P)	Global	Students will familiarize with various instruments and techniques used in scientific studies, recognition of important non chordates and their conservation and ultrastructure of various cell organelles and chromosomal arrangements during cell division.
Bachelor of Science (Medical) Semester I	Botany (Diversity of Microbes)	BSMM- 1075 (I)	Global	Provide detail information on Algae and Fungi
Bachelor of Science (Medical) Semester I	Botany (Diversity of Cryptogams)	BSMM- 1075 (II)	Global	Provides details information on Bryophytes and Pteridophytes diversity and their potential
Bachelor of Science (Medical) Semester I	Botany (Practical-I – Related to Diversity of Microbes & Diversity of Cryptograms)	BSMM- 1075 (P)	Global	Practical skills on Bacteria, Fungi, Algae and Pteridophytes.
Bachelor of Science (Medical) Semester I	Food Science and Quality Control (Vocational) (Food Chemistry and Nutrition)	BSMM-1255	Global	Students will understand food, its functions, food groups, food metabolism, nutrition, malnutrition, properties of various food components, composition and nutritional significance of cereals, milk and milk products, composition and nutritional significance of egg and poultry, meat and fish, fruits and vegetables.
Bachelor of Science (Medical) Semester I	Food Science and Quality Control (Vocational) (Food Chemistry and Nutrition) (Practical)	BSMM- 1255 (P)	Global	Students will familiarize with various instruments and techniques used in determination of moisture content of wheat flour, ash content of food, various qualitative tests of proteins and lipids in different foods, estimation of Vitamin C, fat content, salt content, volatile and nonvolatile acids in vinegar, grading

				and quality evaluation of eggs, fruits and vegetables.
Bachelor of Science (Medical) Semester I	Microbiology (Fundamentals of Microbiology)	BSMM- 1343	Global	Gain knowledge about history of microbiology and characterization and identification of microorganisms, principle and applications of different microscopes and methods of sterilization, pure culture concept, different staining methods of bacteria, structure of bacterial cell, nutritional requirement of microorganisms, different types of culture media, control of microorganisms by chemical and physical methods, reproduction and growth of microorganisms, common bacterial and viral diseases in human.
Bachelor of Science (Medical) Semester I	Microbiology (Fundamentals of Microbiology) (Practical)	BSMM- 1343 (P)	Global	Students will understand various sterilization techniques, culture media preparation, cultivation and isolation of pure cultures of microorganisms, different staining techniques of bacteria and different parts of microscope, typical growth curve of bacteria, measurement of size of microbial cells by ocular micrometer.
Bachelor of Science (Medical) Semester I	Chemistry (Inorganic Chemistry)	BSMM/BSNM -1084 (I)	Global	To Predict electronic properties of atoms using current models and theories in chemistry. To identify the periodic trends in physical and chemical properties of elements, To explain, predict & draw structures of simple ionic compounds.
Bachelor of Science (Medical) Semester I	Chemistry (Organic Chemistry)	BSMM/BSNM -1084 (II)	Global	To interpret the bonding, hybridization between different organic compounds, To interpret the reactions and properties of alkanes, alkenes & alkynes, To compare the reactivities of various alkyl and aryl halide, stability of various cycloalkanes, To differentiate between aromatic, anti-aromatic and non-aromatic compounds, explain the effect of various substituents on

				the reactivity of aromatic compounds.
Bachelor of Science (Medical) Semester I	Chemistry Practical	BSMM/BSNM -1084 (P)	Global	To separate and identify the various ions present in the mixture. To accurately note down the melting point of organic compounds, To accurately note down the boiling point of organic compounds, To differentiate between pure & impure compounds.
Bachelor of Science (Medical) Semester II	Zoology (Ecology)	BSMM-2483 (I)	Global	Student will study the history, introduction and nature of ecosystem, biogeochemical cycles and ecological adaptations, characteristics of population & biotic community and know about the conservation of resources.
Bachelor of Science (Medical) Semester II	Zoology (Biodiversity –II)	BSMM-2483 (II)	Global	Students will understand physiology and economic importance of Arthropods & social organization of insects. General pattern of life history of phylum Mollusca, Echinodermata and affinities of Hemichordates with Non-Chordates and Chordates.
Bachelor of Science (Medical) Semester II	Zoology (Practical-II-related to ecology and Biodiversity -II)	BSMM-2483 (P)	Global	Know about the morphological, physiological & behavioural adaptations of different animals in different habitats, classification & ecology of invertebrates, faunal diversity of different zoogeographical realms and different types of bird's nests.
Bachelor of Science (Medical) Semester II	Botany (Cell Biology)	BSMM-2075 (I)	Global	Provides information on fundamental aspects of cell biology.
Bachelor of Science (Medical) Semester II	Botany (Genetics)	BSMM-2075 (II)	Global	Gives an insight into structure and function of DNA, RNA, Gene and Protein.
Bachelor of Science (Medical)	Botany (Practical-II-Genetics and Cell	BSMM-2075 (P)	Global	Practical information on Genetics and Cell Biology.

Semester II	Biology)			
Bachelor of Science (Medical) Semester II	Food Science and Quality Control (Vocational) (Food Plant Hygiene and Sanitation)	BSMM-2255	Global	Student will study the hygiene, sanitation and importance of personal hygiene of food handler in food industries, different methods of cleaning and sanitation in food processing industries, principles and practices of cleaning and sanitation in different food processing industries, pest control, hygiene of water used for processing and waste product handling in food industries.
Bachelor of Science (Medical) Semester II	Food Science and Quality Control (Vocational) (Food Plant Hygiene and Sanitation) (Practical)	BSMM-2255	Global	Students will understand different methods and equipment used for sterilization, methods used to determination of B.O.D & C.O.D, TDS of water, hardness of water, alkalinity and acidity, organic matter, chlorides and sulphates in water.
Bachelor of Science (Medical) Semester II	Microbiology (Basic Food Microbiology)	BSMM- 2343	Global	Students will learn about microorganisms important in food microbiology and the intrinsic and extrinsic factors affecting their growth, the origin and preparation of various fermented foods, different methods of food preservation, applications of prebiotics and probiotics, spoilage in different food products.
Bachelor of Science (Medical) Semester II	Microbiology (Basic Food Microbiology) (Practical)	BSMM-2343 (P)	Global	Students will learn about enumeration of the total microbial cells in a suspension by serial dilution and pour plating, enumeration of total bacteria in milk by direct microscopic count, morphology of bacteria, yeasts and molds, bacteriological quality check of raw milk by methylene blue reduction test, production of various fermented foods, study of spoilage causing microorganisms present in spoiled bread and raw milk.
Bachelor of Science (Medical)	Chemistry (Inorganic)	BSMM/BSNM -2084 (I)	Global	To explains & compares the trends in atomic and physical properties of group 13, 14, 15, 16, 17 elements.

Semester II	Chemistry)			To explain the atomic, physical and chemical properties of alkali metals and alkaline earth metals, To Interpret the properties of carbides, silicates, interhalogen compounds, Exhaustive understanding of d-block elements belonging to 4th, 5th and 6th period.
Bachelor of Science (Medical) Semester II	Chemistry (Physical Chemistry)	BSMM/BSNM -2084 (II)	Global	To explain various gaseous laws and their application, To acquire the knowledge of structure and intermolecular forces present between solids, liquids and gases, To understand & apply the basic concepts of colloidal state of matter and applications of colloids, To demonstrate an understanding of basic principles of colligative properties of dilute solutions.
Bachelor of Science (Medical) Semester II	Chemistry Practical	BSMM/BSNM -2084 (P)	Global	To understand & apply the technique of crystallization, To determine the rate of the reactions , To compare & analyze the viscosity and surface tension of different liquids and solutions, To application of calorimeter in various thermochemistry experiments.
Bachelor of Science (Medical) Semester III	Zoology (Evolution)	BSMM-3483 (I)	Global	Students will able to understand the concept, rate, evidences and theories of evolution, micro, macro and mega-evolution, speciation, significance of fossils in evolutionary studies, Origin & Extinction of reptiles, Evolution of man, migration in birds and fishes and adaptations among various animals.
Bachelor of Science (Medical) Semester III	Zoology (Biodiversity III) (Chordates)	BSMM-3483 (II)	Global	Understand general body plan of Herdmania and external characters of Amphioxus, understand external characters and affinities of Petromyzon, physiological studies of Frog, Uromastix, Pigeon and Rat.
Bachelor of Science (Medical)	Zoology (Practical-III-related to	BSMM-3483 (P)	Global	Students will familiarize with organ systems of various chordates, economically important specimens,

Semester III	Evolution and Biodiversity-III)			and some important evolutionary phenomena.
Bachelor of Science (Medical) Semester III	Botany (Structure Development and Reproduction in Flowering Plant-I)	BSMM-3075 (I)	Global	Gives information on Morphology and Anatomy of Stem.
Bachelor of Science (Medical) Semester III	Botany (Structure Development and Reproduction in Flowering Plant-II)	BSMM-3075 (II)	Global	Gives information on Morphology and Anatomy of Root and Embryogenesis.
Bachelor of Science (Medical) Semester III	Botany (Practical-III - Structure Development and Reproduction in Flowering Plant I & II)	BSMM-3075 (P)	Global	Experimental skill to study internal structure in plants.
Bachelor of Science (Medical) Semester III	Food Science and Quality Control (Vocational) (Food Processing and Packaging)	BSMM-3255	Global	Students will able to understand the methods of food preservation and processing of fats, oils and sugar, processing of salt, tea, coffee, chocolate and cocoa powder, extruded foods and role of enzymes in food processing, spices and flavors, food additives and manufacturing of fermented products, types of packaging materials, their properties and machinery.
Bachelor of Science (Medical) Semester III	Food Science and Quality Control (Vocational) (Food Processing and Packaging) (Practical)	BSMM-3255 (P)	Global	Students will learn methods of determination of physical characteristics of cereals, milling of wheat into flour, wet and dry gluten contents, identification of packaging materials, estimation of the shelf life of packaged food, strength of different packaging material, chemical resistance of packaging materials, adequacy of blanching and they will visit the various industries dealing with food packaging material like, paper board and metal.

Bachelor of Science (Medical) Semester III	Microbiology (Microbial Nutrition and Metabolism)	BSMM- 3343	Global	Students will understand the nutritional requirements for growth of microorganisms, types of microorganisms on the basis of nutrition, transport of nutrients across the cell membrane, metabolic pathways and electron transport chain of bacteria, the enzyme kinetics and biosynthesis of nucleic acids.
Bachelor of Science (Medical) Semester III	Microbiology (Microbial Nutrition and Metabolism) (Practical)	BSMM-3343 (P)	Global	Students will learn about Isolation and enumeration of total bacteria from soil by pour plating and spread plating, Comparison of microbial growth on complex medium, defined and minimal medium, Distinction between fermenting and non-fermenting microorganisms, Effects of various concentrations of carbon source, nitrogen source, temperature, pH, salt, metals and dyes on bacterial growth.
Bachelor of Science (Medical) Semester III	Chemistry (Organic Chemistry)	BSMM/BSNM -3084 (I)	Global	To resolve the different enantiomers and differentiate between dextrorotatory-leavorotatory chiral and achiral compounds, To : understand the methods of formation, chemical reactions, acidic character of alcohols , Preparation of understand structure and bonding phenols, acidic character of phenols, To compare reactivity of aliphatic and aromatic aldehydes and ketones, to understand the various reactions given by carbonyl compounds.
Bachelor of Science (Medical) Semester III	Chemistry (Physical Chemistry)	BSMM/BSNM -3084 (II)	Global	To understand and evaluate thermodynamic property of any system, To demonstrate the carnot cycle, understand the concept of Entropy. To understand the concept of Residual entropy, To understand concept of spontaneity of a reaction in terms of free energy change. To understand and demonstrate the concept of phase equilibria of one component system, two component

				system.
Bachelor of Science (Medical) Semester III	Chemistry (Physical Chemistry)	BSMM/BSNM -3084 (P)	Global	To understand and master the technique of volumetric analysis, analyze an acidic and alkali content in different samples, To analyze calcium content in various samples permanganometrically, understand the concept of hardness of water and its analysis by EDTA method. To understand and master the technique of gravimetric analysis. To understand the concept of TLC and its applications.
Bachelor of Science (Medical) Semester IV	Zoology (Biochemistry)	BSMM-4483 (I)	Global	Students will understand the structure and functions of biologically important molecules, enzymes, coenzymes and metabolism of carbohydrates, lipids and proteins.
Bachelor of Science (Medical) Semester IV	Zoology (Animal Physiology)	BSMM-4483 (II)	Global	Students will understand mechanism of digestion, respiration, composition of blood, blood groups, cardiac cycle, mechanism of skeletal muscle contraction & neural integration, physiology of behavior and endocrine system and urine formation.
Bachelor of Science (Medical) Semester IV	Zoology (Practical-Related to Biochemistry and Animal Physiology)	BSMM-4483 (P)	Global	Students will learn clinical procedures for blood & urine analysis, diagnostic biochemical assessment and Skeletons of some representative vertebrates.
Bachelor of Science (Medical) Semester IV	Botany (Diversity of Seed Plants and their Systematics-I)	BSMM-4075 (I)	Global	Gives information about diversity of Gymnosperms.
Bachelor of Science (Medical) Semester IV	Botany (Diversity of Seed Plants and their Systematics-II)	BSMM-4075 (II)	Global	Gives information about diversity of Angiosperms.
Bachelor of Science (Medical)	Botany (Practical-IV-Diversity of Seed Plants and their	BSMM-4075 (P)	Global	Practical information on Gymnosperm and Angiosperm.

Semester IV	Systematics -I and II)			
Bachelor of Science (Medical) Semester IV	Food Science and Quality Control (Vocational) (Quality Assurance)	BSMM-4255	Global	Students will understand the quality control in food industry and quality attributes, quality assessment methods in different food industries, sampling techniques and sensory evaluation of food, concept of HACCP, GMP and food laws and regulations.
Bachelor of Science (Medical) Semester IV	Food Science and Quality Control (Vocational) (Quality Assurance) (Practical)	BSMM-4255 (P)	Global	Students will learn various tests used to detect adulterants in milk, cereals, oils and fats and will be able to determine cooking quality of rice, acidity and pH of milk, iodine value of oil/fat, saponification value of oil/fat, determination of reducing and non-reducing sugars, interior and exterior quality of eggs, alcoholic acidity of flour, analysis of canned fruits and vegetables.
Bachelor of Science (Medical) Semester IV	Microbiology (Microbial Ecology)	BSMM- 4343	Global	Students will gain knowledge about the diversity of various microbial habitats, different microbial interactions, competition for survival in nature, role of microorganisms in geochemical cycles, concept of microbial toxins, biofertilizers and bioinsecticides, the effluent treatment, bioremediation and bioleaching.
Bachelor of Science (Medical) Semester IV	Microbiology (Microbial Ecology) (Practical)	BSMM-4343 (P)	Global	Students will learn about isolation and enumeration of fungi from air and soil by pour plating and spread plating, determination of dissolved oxygen content (DO), Biological oxygen demand (BOD) and chemical oxygen demand (COD) of the given water sample by Titrimetric method, bacteriological examination of water sample by MPN method, isolation of symbiotic nitrogen bacteria from root nodules, crowded plate method for studying microbial interactions, Lethal effect of Ultra violet light on bacterial

				growth.
Bachelor of Science (Medical) Semester IV	Chemistry (Inorganic Chemistry)	BSMM/BSNM -4084 (I)	Global	To understand the key features of coordination compounds. To understand the properties and reactions of non-aqueous solvents. To write both reduction and oxidation half reactions for a simple redox reaction, Frost and understand the Latimer Pourbaix diagram, To understand the positions, electronic configurations, relative stability, preparation, properties, structures and characteristics of the f-block elements in the periodic table and understand the role of metal ions and other inorganic elements in biological systems.
Bachelor of Science (Medical) Semester IV	Chemistry (Organic Chemistry)	BSMM/BSNM -4084 (II)	Global	To understand structure and bonding in carboxylic acids and carboxylic acid derivatives. To understand preparations and reactions of ethers and epoxides, To understand preparation and reactions of nitroalkanes and nitroarenes. To understand nomenclature, structural features, methods of formation and chemical reactions of organomagnesium, organolithium, organozinc and organocopper compounds.
Bachelor of Science (Medical) Semester IV	Chemistry Practical	BSMM/BSNM -4084 (P)	Global	To understand the basics of Qualitative analysis, Detection of elements (N, S and halogens) in organic compounds.  Detection of functional groups (phenolic, carboxylic, carbonyl, esters, carbohydrates, amines, amides, nitro and anilide) in simple organic compounds Preparation of their derivatives.
Bachelor of Science (Medical) Semester V	Zoology (Development Biology)	BSMM-5483 (I)	Global	Students will understand the key events of pre and post-fertilization developments, developmental stages of frog and chick up to three germ layers, rabbit, foetal membranes and

				placenta. Parthenogenesis.
Bachelor of Science (Medical) Semester V	Zoology (Genetics)	BSMM-5483 (II)	Global	Students will be able to understand Mendelian inheritance, genetic mechanisms like linkage, crossing over and multiple alleles, structure of nucleic acid, process of replication and translation, genetic code, concept of mutation, regulation of gene expression and extracellular inheritance, population genetics, genetic recombination and various molecular techniques.
Bachelor of Science (Medical) Semester V	Zoology (Practical –V-related to development biology and genetics)	BSMM-5483 (P)	Global	Students will be able to understand the development patterns of frog, chick and Larva of Herdmania, process of gametogenesis, pedigree analysis and preparation of family charts, inheritance of morphogenetic human characters and patterns of palm and finger tips.
Bachelor of Science (Medical) Semester V	Botany (Plant Physiology)	BSMM-5075 (I)	Global	Provides information on plant functions.
Bachelor of Science (Medical) Semester V	Botany (Biochemistry & Biotechnology)	BSMM-5075 (II)	Global	Understand the structure of biomolecules and metabolic pathways. Elucidates the methods and principles of plant biotechnology.
Bachelor of Science (Medical) Semester V	Botany (Practical-IV-Related to Plant Physiology and Biochemistry Biotechnology)	BSMM-5075 (P)	Global	Experimental skill to understand plant function.
Bachelor of Science (Medical) Semester V	Food Science and Quality Control (Vocational) (Food Analysis)	BSMM-5255	Global	Students will understand the food composition and proximate analysis of food components, analysis of micronutrients, physical methods of food analysis including food rheology, refractometry and polarimetry, different chromatography techniques.
Bachelor of Science	Food Science and Quality Control	BSMM-5255 (P)	Global	Students will learn techniques and instrument used for determination of

(Medical) Semester V	(Vocational) (Food Analysis) (Practical)			milk quality, TSS of food, surface tension of food sample by using drop number method, viscosity index of food sample, proximate composition of different types of food and estimation of different minerals and vitamins, estimation of percent loss in weight after drying and dehydration.
Bachelor of Science (Medical) Semester V	Microbiology (Applied Microbiology I)	BSMM- 5343	Global	Students will understand the screening of microorganisms, composition and characteristics of fermentation media, parts of fermenter and types of industrial fermentation, downstream processing, fermentation economics and patent.
Bachelor of Science (Medical) Semester V	Microbiology (Applied Microbiology I) (Practical)	BSMM- 5343 (P)	Global	Students will learn about the Isolation of microorganisms from soil and fruits, Screening of industrially important Amylase and Protease producing microorganisms, estimation of protein by Lowry method, preservation of industrially important microorganisms, Determination of percentage viability of yeast cells by haemocytometer.
Bachelor of Science (Medical) Semester V	Microbiology (Applied Microbiology-I) (Practical)	BSMM/BSNM -5084 (I)	National	To use Crystal Field Theory to understand the structure, hybridisation, geometry and predict the colour of the complexes. To describe the magnetic properties of coordination compounds To describe the stability of metal complexes by the use of formation constants and to calculate thermodynamic parameters from them, To draw Orgel diagrams for $d^1$ to $d^{10}$ systems and predict the possible transitions and to calculate number of microstate and ground state term symbols, To understand preparations, properties and applications of alkyls aryls of lithium and aluminium, bonding in metal-ethylenic complexes, mechanism of homogeneous

				hydrogenation.
Bachelor of Science (Medical) Semester V	Microbiology (Applied Microbiology-I) (Practical)	BSMM/BSNM -5084 (II)	National	<p>To understand conductance and its types, applications of conductivity measurements, conductometric titrations, transport numbers.</p> <p>To acquire knowledge about electrodes, reversible and irreversible cells, concentration cells, E.M.F, potentiometric titrations.</p> <p>To understand radioactivity, laws of radioactive decay, nuclear reactions, and applications of radioactivity. To characterise the molecules with the help of various spectroscopic techniques such as vibrational, rotational, raman and electronic spectroscopy.</p>
Bachelor of Science (Medical) Semester V	Microbiology (Applied Microbiology-I) (Practical)	BSMM/BSNM -5084 (P)	National	<p>To synthesize and analyse the coordination compounds.</p> <p>To determine the end point of various conductometric titrations, To know the principle and working of Abbe's Refractometer. To determine the composition of unknown mixture of two liquids by refractive index measurements. To learn the technique of Rast's methods. To learn phenomenon of adsorption of acetic acid and oxalic acid on charcoal. To learn distribution coefficient of iodine between CCl<sub>4</sub> and water.</p>
Bachelor of Science (Medical) Semester VI	Zoology (Medical Zoology)	BSMM-6483 (I)	Global	Students will gain knowledge about life history of various pathogenic microbes like pathogenic protozoans and helminths as well as diseases caused by them, life cycle, diseases and control measures of arthropod vectors and awareness about epidemic diseases, immune system of humans, serodiagnostic assays and vaccines.
Bachelor of Science	Zoology (Medical laboratory)	BSMM-	Global	Students will understand the precautionary measures, various

(Medical) Semester VI	Technology)	6483 (II)		diagnostic investigation and basic laboratory techniques used for biological specimens including collection, and analysis of different samples like blood and other tissues for hematological, bacteriological and microbial analyses by using different techniques.
Bachelor of Science (Medical) Semester VI	Zoology (Practical-VI) related to Medical Zoology & Medical laboratory Technology	BSMM- 6483 (P)	Global	Students will understand various sterilization, histopathological techniques like handling and processing of tissue specimens as well as staining procedures, develop technical skills associated with medical laboratory technology in using appropriate laboratory techniques and instrumentation in accordance with current laboratory safety protocol And estimation of protein & sugar.
Bachelor of Science (Medical) Semester VI	Botany (Ecology)	BSMM- 6075 (I)	Global	To understand and gain knowledge of the environment and its interaction with plants.
Bachelor of Science (Medical) Semester VI	Botany (Economic Botany)	BSMM- 6075 (II)	Global	To know the importance and application of plants for the betterment of human livelihood.
Bachelor of Science (Medical) Semester VI	Botany (Practical-VI- Ecology and Economic botany)	BSMM- 6075 (P)	Global	To apply scientific principles in experimental design and study of economic importance of various plants.
Bachelor of Science (Medical) Semester VI	Food Science and Quality Control (Vocational) (Food Plant Layout and Management)	BSMM-6255	Global	Students will understand the importance of plant layout and how to set up the proper plant layout to reduce the production cost and increase the productivity. Concept of market research helps to understand the consumers.
Bachelor of Science (Medical) Semester VI	Food Science and Quality Control (Vocational) (Food Plant Layout and Management)	BSMM- 6255 (P)	Global	Students will familiarize with the concept of depreciation and processing costs, preparation of layout and process diagram of various food products manufacturing plant, determination

	(Practical)			of sanitary status of plant equipment and visit to various food industries.
Bachelor of Science (Medical) Semester VI	Microbiology (Applied Microbiology-II)	BSMM- 6343	Global	Students will understand the processing of fermented foods, microbial Cell as fermentation products, production of different industrial chemicals and role of microorganisms in preparation of alcoholic beverages, industrial enzymes, vitamins, amino acids and antibiotics.
Bachelor of Science (Medical) Semester VI	Microbiology (Applied Microbiology-II) (Practical)	BSMM-6343 (P)	Global	Students will learn about the production of amylases and proteases in liquid medium using the selected microorganisms, assay of crude enzyme preparation for Amylase and protease, Production of alcohol from molasses and cereal grains, Immobilization of microbial cells and enzyme preparations by calcium alginate entrapment method, Comparison of submerged and solid-state fermentation techniques for amylase production, production of wine and vinegar, kinetics of growth of yeast in batch/continuous culture.
Bachelor of Science (Medical) Semester VI	Chemistry (Molecular Spectroscopy)	BSMM/BSNM -6084 (I)	Global	To understand the principle and applications of ultraviolet and apply Woodward Fisher Rule to calculate $\lambda_{\max}$ , To understand the concepts of Vibrational spectroscopy, Vibrational coupling overtones and Fermi resonance and its application in Organic Chemistry. To know about the Nuclear magnetic resonance spectroscopy, Proton chemical shift, spin-spin coupling, coupling constants and its applications to determine organic structures. To understand different cleavage patterns of organic compounds in Mass spectrometry and apply the knowledge for interpretation of the spectrum of an unknown compound.
Bachelor of Science	Chemistry (Physical)	BSMM/BSNM -6084 (II)	Global	To understand schrodinger wave equation (S.W.E), To understand the

(Medical) Semester VI	Chemistry)			applications of S.W.E to rigid rotator, harmonic oscillators, hydrogen and hydrogen like atoms, quantum numbers , To acquire knowledge about unit cell,space lattice, miller indices, symmetry operations, Bragg equation, powder method, To understand photophysical, photo chemical, radioactive and non-radiative processes, quantum yield, energy transfer processes.
Bachelor of Science (Medical) Semester VI	Chemistry Practical	BSMM/BSNM -6084 (P)	Global	To separate the various mixtures by Column Chromatography technique, To synthesize different Organic Compounds. To synthesise the different compounds by Green Approach To prepare the different dyes.
Master of Science (Zoology) Semester I	Functional Organization of Animals–I	MZOL-1481	Global	Students will be able to learn about various systems i.e. digestive, respiratory, excretory and reproductive of invertebrates and comparison amongst various groups.
Master of Science (Zoology) Semester I	Animal Ecology	MZOL-1482	Global	Student will be able to Demonstrate and Understand the ecological relationships between organisms and their environment. Explain and identify the role of the organisms in energy transfers. CO3Understand various types of adaptations and ecology of population Understand the applied aspect of ecology.
Master of Science (Zoology) Semester I	Cell Biology	MZOL-1483	Global	Students will be able to describe structure of cell, cell membrane and organization and processing of nucleus. Describe the ultra-structure and functions of Ribosomes, Golgi complex and Endoplasmic reticulum. Describe the ultra-structure and functions of Mitochondria, Lysosomes and Peroxisomes. Understand cell signaling and cell cycle.
Master of	Concepts of	MZOL-1484	Global	Students will be study about

Science (Zoology) Semester I	Biotechnology			Cell culture, cell lines and applications of stem cells. Understand molecular markers and vectors used in biotechnology fields. Understand various techniques used in biotechnology. Describe monoclonal antibodies and vaccines.
Master of Science (Zoology) Semester I	Practical-I (Functional Organization of Animals-I)	MZOP-1486	Global	Students will understand the comparative anatomy of gut through demonstration, comparative physiology of circulatory, excretory & reproductive system through ICT based videos, presentations and charts.
Master of Science (Zoology) Semester I	Practical-II (Ecology and Cell Biology)	MZOL-1487	Global	Students will be able to perform the experiments to analyze the macromolecules in animals. Describe the fine structure and functions of cell organelles. Perform a variety of cellular biology techniques. Analyse various physicochemical parameters in environmental matrices.
Master of Science (Zoology) Semester II	Functional Organization of Animals –II (Theory)	MZOL-2481	Global	Students will able to Describe the Integumentary system and muscular system, appendicular skeletal system and locomotion in vertebrates. Understand the physiology endocrine system. Describe various sensory organs and receptors.
Master of Science (Zoology) Semester II	Applied Zoology–I (Theory)	MZOL-2482	Global	Students will understand the methods of bee keeping, diseases of honeybee and various bee products. Know the culture and harvesting methods of Lac and mulberry silkworm. Understand the various methods of prawn farming. The students will also know about the spoilage, processing and preservation of prawns. Understand the artificial pearl formation and economics of Vermiculture.
Master of Science	Evolution	MZOL-2483	Global	Students will learn that by biological evolution we mean that

(Zoology) Semester II				many of the organisms that inhabit the Earth today are different from those that inhabited it in the past. Understand that variations lead to natural selection that can bring about evolution. Describe the Isolating mechanisms, modes of speciation, their impact on distribution of species and extinction of organisms. Population genetics; how selection, mutation, migration (gene flow), and inbreeding affect the genetic structure of populations; genetic drift, the other important evolutionary force.
Master of Science (Zoology) Semester II	Practical–III (Functional Organizations of Animals-II)	MZOP-2486	Global	Understanding of the comparative anatomy through demonstration and comparative physiology of sense organs, muscles, endocrine system through ICT based videos, presentations and charts.
Master of Science (Zoology) Semester II	Practical–IV (Evolution and Applied Zoology-I)	MZOP-2487	Global	Student will know the Animals of evolutionary importance, fossils, analogous and homologous organs, Mimicry and Colouration. Acquaint with the applied aspects of Zoology i.e. sericulture, lac culture, apiculture, dairy farming, poultry etc. Understand the propositions underlying theories of evolution through demonstrations.
Master of Science (Zoology) Semester III	Research Techniques and Methodology	MZOL-3481	Global	Students studying Research Techniques and Methodology will learn about the different methods, tools, and techniques used to conduct scientific research. Additionally, they will explore various research methods, including qualitative and quantitative. Overall, the study of Research Techniques and Methodology is essential for conducting high-quality research and contributing to the advancement of scientific knowledge.

Master of Science (Zoology) Semester III	Developmental Biology	MZOL-3482	Global	Students studying Developmental Biology will learn about the processes by which organisms grow and develop from a single cell into a complex organism. They will study the molecular and genetic mechanisms that control cell differentiation, tissue formation, and organogenesis, as well as the environmental factors that can influence development. Additionally, they will explore the developmental stages of different organisms, from fertilization to birth or hatching, and the similarities and differences between them. The study of Developmental Biology is important for understanding how genetic and environmental factors interact to shape an organism's development.
Master of Science (Zoology) Semester III	General Biochemistry	MZOL-3483	Global	Students studying General Biochemistry will learn about the chemical processes that occur within living organisms. They will study the structure and function of biological macromolecules, such as proteins, nucleic acids, and lipids, as well as the pathways by which cells obtain and use energy. Additionally, they will explore the regulation of biochemical reactions, the role of enzymes in catalyzing reactions, and the principles of metabolic pathways. The study of General Biochemistry is crucial for understanding the fundamental processes of life and for developing new therapies for diseases related to metabolic disorders.
Master of Science (Zoology) Semester III	Applied Zoology-II (Vertebrates)	MZOL-3484	Global	Students studying Applied Zoology-II (Vertebrates) will learn about the classification, anatomy, physiology, and behavior of vertebrates, including fishes, amphibians, reptiles, birds, and mammals. They will study the characteristics that distinguish each group of vertebrates and explore their

				ecological roles and adaptations to different environments. Additionally, they will learn about the conservation and management of vertebrate populations, including the impact of human activities on their habitats and the strategies for mitigating these effects. The study of Applied Zoology-II (Vertebrates) is important for understanding the diversity of vertebrate life and for developing effective conservation and management strategies to protect these species and their habitats.
Master of Science (Zoology) Semester III	Practical-V (Research Techniques and Applied Zoology-II)	MZOP-3485	Global	Students studying Practical -V (Research Techniques and Applied Zoology-II) will learn hands-on skills related to the research techniques and concepts studied in the classroom. They will gain experience in designing and conducting experiments, collecting and analyzing data, and presenting their findings in written and oral formats. Additionally, they will learn about the practical aspects of studying vertebrate biology. Overall, Practical -V (Research Techniques and Applied Zoology-II) is essential for developing the practical skills and experience necessary to pursue a career in zoology or related fields.
Master of Science (Zoology) Semester III	Practical VI (Developmental Biology and Biochemistry)	MZOP-3486	Global	Students studying Practical VI (Developmental Biology and Biochemistry) will learn hands-on skills related to the concepts and techniques studied in Developmental Biology and General Biochemistry. They will gain experience in laboratory techniques related to gene expression, protein purification, and molecular biology methods. Additionally, they will learn about the practical aspects of studying developmental biology, including the techniques used for imaging and

				analyzing developing embryos or tissues. Overall, Practical VI (Developmental Biology and Biochemistry) is essential for developing the practical skills and experience necessary to pursue a career in biochemistry, developmental biology, or related fields.
Master of Science (Zoology) Semester IV	Animal Behaviour and Wildlife Conservation	MZOL-4481	Global	Student will know the various aspects of animal behaviour in the whole animal kingdom such as communication, neural and hormonal control of behaviour. The students will also be versed with the social and reproductive behaviours. The students will be introduced with the status of wildlife in India, various measures taken to conserve the wildlife resources.
Master of Science (Zoology) Semester IV	Animal Genetics & Biotechnology	MZOL-4482	Global	Animal genetics is the study of genes, heredity, and genetic variation in animals. It helps students understand the mechanisms that control the inheritance of traits from one generation to the next. Biotechnology, on the other hand, refers to the use of living organisms, cells, or biological processes to develop products and applications that improve the quality of life. Overall, animal genetics and biotechnology are exciting and rapidly advancing fields that offer a wealth of opportunities for students interested in genetics, biotechnology, and animal sciences. It will make students understand its potential to revolutionize the way we produce food, treat diseases, and protect our environment.
Master of Science (Zoology) Semester IV	Concepts of Immunology	MZOL-4483	Global	Students studying Concepts of Immunology will learn about the immune system, which is the body's defense against infections and diseases. They will learn about the different types of immune cells, how they work together to recognize and eliminate pathogens,

				<p>and how the immune system can also cause harm in the form of autoimmune diseases or allergies. Students will also learn about the various components of the immune system, including antibodies, antigens, cytokines, and complement proteins, and how they interact with each other to mount an immune response. They will study the different types of immune responses, including innate and adaptive immunity, and how vaccines work to boost immunity against specific pathogens. They will learn about the different types of immunotherapy, such as monoclonal antibodies and checkpoint inhibitors that are used to treat cancer and other diseases.</p>
<p>Master of Science (Zoology) Semester IV</p>	<p>Biosystematics</p>	<p>MZOL-4484</p>	<p>Global</p>	<p>Students studying biosystematics will learn about the classification, diversity, and evolution of living organisms. They will learn how to use taxonomic methods to identify and classify different species based on their physical characteristics, genetic makeup, and evolutionary relationships. In addition, they will explore the importance of biosystematics in understanding the distribution and conservation of biodiversity, and in developing strategies for managing and protecting ecosystems.</p>
<p>Master of Science (Zoology) Semester IV</p>	<p>Practical-VII (Animal Behaviour and Wildlife Conservation)</p>	<p>MZOP-4485</p>	<p>Global</p>	<p>In subject Practical-VII (Animal Behaviour and Wildlife Conservation), students will learn about the behavior of animals in their natural habitats, including how they interact with each other and their environment. They will also study the various conservation efforts aimed at protecting and preserving wildlife populations and their habitats. This may involve hands-on activities such as observing animals in their natural habitats, conducting surveys to assess the health of wildlife</p>

				populations, and developing conservation plans to mitigate threats to endangered species. Overall, this subject provides students with a deep understanding of the intricate relationships between animals and their environment, and the importance of conservation efforts in maintaining the delicate balance of nature.
Master of Science (Zoology) Semester IV	Practical-VIII (Genetics & Biosystematics)	MZOP-4486	Global	Subject Practical - VIII (Genetics & Biosystematics) will teach students about the fundamental principles of genetics and the application of biosystematics in studying biological diversity. Students will learn about the structure and function of genes, genetic variation, genetic inheritance, and genetic engineering techniques. They will also study the classification and identification of organisms based on their morphological, physiological, and molecular characteristics. This subject will equip students with the knowledge and skills to analyze genetic data and construct phylogenetic trees to understand the evolutionary relationships among different species. Overall, the subject provides a strong foundation in genetics and biosystematics.

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