

Name of Programme: M.Sc. Botany

Programme Outcome

M.Sc. Botany is a two-year postgraduate programme to impart advanced knowledge on modern biology. Other than providing students with indispensable knowledge, the programme curriculum fosters problem-solving and critical thinking skills that prepare students to take on any challenges.

Under this programme the students gain insights into the key research areas of Botany. The programme encompasses a balance of both theoretical and practical sessions which enables the students to apply their learning and develop end results.

The programme focuses on career-oriented subjects like Microbial Biotechnology, Plant tissue culture, Enzyme Technology and Genetics, Plant breeding and Crop improvement etc.

Programme Specific Outcome

PSO1. After successful completion of the course, a student is able to understand different fields of Botany like systematics, evolution, ecology, physiology, biochemistry, plant interactions with microbes and insects, anatomy, morphology, reproduction, genetics and molecular biology of various life-forms. She/he even has an edge over other students as they will be trained in skill enhancement courses like Biofertilizer technology.

PSO2. The student completing the course is able to classify various life forms of plants, design and execute experiments related to basic studies on ecology, physiology, biochemistry, plant interactions with microbes and insects, morphology, anatomy, reproduction, genetics, microbiology, molecular biology, recombinant DNA technology etc.

PSO3. The student completing the course is capable of executing short-term research projects/dissertations using tools and techniques in any of the basic specializations of Botany under supervision.

Course Outcome

Semester: I

Sl.No.	Paper /Course	Title	Course outcome
1.	MBOTCC-I	Phycology, Mycology and Bryology	On successful completion of this course, students will be able to know about the- CO1: Thallus organisation of algae, fungi and bryophytes, and their salient features. CO2: Different kinds of algal, fungal, lichen and bryophyte diversity and their economic implication. The course has importance in the areas of academics and research.
2.	MBOTCC-2	Microbiology and Plant Pathology	Students will learn- CO1: Methods in microbiology, develop theoretical and technical skills of basic microbiology (sterilize, isolate, culture, preserve microbes), the structure of bacteria and viruses.

			CO2: The diversity of micro-organisms, their classification, structure and growth. CO3: Applied aspects of microbial diversity in various fields e.g.: pharmaceuticals, agriculture etc. CO4: Ways and means of combating plant diseases so as to minimize economic loss. The course has importance in the areas of academics, research, and employability.
3.	MBOTCC-3	Pteridophyta, Gymnosperms and Paleobotany	Students will get in-depth knowledge of- CO1: The plant diversity (esp. In pteridophytes, and gymnosperms) and understanding the evolutionary trends through the study of palaeobotany. CO2: The evolutionary diversification of early land plants and morphological and reproductive innovations in pteridophytes and gymnosperms. The course has importance in the areas of academics and research.
4.	MBOTCC-4	Practical	Students will learn and perform practical on- CO1: Use of sterilization instruments, media preparation. CO2: Isolation and study of microorganisms. CO3: Study of common fungal diseases, vegetative habits, anatomy and reproductive morphology of common pteridophytes and gymnosperms. The course has importance in the areas of academics, research, and employability.

Semester: II

Sl.No.	Paper /Course	Title	Course outcome
5.	MBOTCC-5	Biofertilizer Technology	On successful completion of this course, students will be able to know about the- CO1: Biofertilizers and their use. CO2: Isolation, identification, purification, mass production of microorganisms used in biofertilizers, and also on quality control of commercial biofertilizers. CO3: Biofertilizers' applied aspects for the enhancement of soil fertility and crop productivity and ideal way for sustainable development. The course has importance in the areas of academics, research, and employability.
6.	MBOTCC-6	Taxonomy, Anatomy & Embryology	Students will get in-depth knowledge of- CO1: Classifications and interaction between taxonomy, anatomy & embryology. CO2: Different methods of naming plants, different principles of nomenclature etc. CO3: Phylogeny and phylogenetic systematic, methods used in molecular systematic studies. CO4: Embryology, and its role in taxonomy.
7.	MBOTCC-7	Physiology & Biochemistry	Students will learn- CO1: The mechanism of osmotic relations, metabolism, growth and morphogenesis. CO2: Energy transduction mechanism and biochemical energetics in plants. CO3: Enzymes, their structure, role and properties. The course has importance in the areas of academics and research.

8.	MBOTCC-8	Plant tissue culture, Ethnobotany, Biodiversity and Biometry	After completing the course, students will get to know about- CO1: Ways of conservation and propagation of economically important and endangered plants. CO2: Biodiversity, their types, patterns, loss, conservation and its importance. CO3: Biometric tools like measurement of variability and test of significance of data etc. CO4: Cell and tissue culture, ethnopharmacology, and ethnoecology. The course has importance in the areas of academics, employability and research.
9.	MBOTCC-9	Practical	Students will get practical knowledge on- CO1. Preparation of culture media, explant culture and callus initiation. CO2: Family description of some locally available plants and their taxonomic classification. CO3: Physiological studies like determination of water potential, estimation of protein, paper chromatography etc. CO4: Staining and study of xylem, phloem and pollen etc. The course has importance in the areas of academics, research, and employability.

Semester: III

Sl.No.	Paper /Course	Title	Course outcome
10.	MBOTCC-10	Cell biology & Cytogenetics	Students will learn- CO1: Cell theory, ultrastructure and chemical composition of the cell. CO2: Cell cycle, apoptosis, and its control mechanism. CO3: Concepts of Mendelian genetics, sex determination and extranuclear inheritance. CO4: Basics of microscopy and micro-densitometry. The course has importance in the areas of academics, research, and employability.
11.	MBOTCC-11	Molecular Biology	On successful completion of the course, students will learn- CO1: The structure and function of the protein and nucleic acid, DNA organization and its packaging. CO2: Principle mechanisms of genome replication, maintenance, function and regulation of expression. The course has importance in the areas of academics, research, and employability.
12.	MBOTCC-12	Recombinant DNA technology	Students will learn- CO1: Manipulating DNA molecules to produce genetic combinations which are of value to science, medicine & various industries. CO2: rDNA technology, cloning vectors, passenger DNA, methods of DNA transfer, DNA fingerprinting, IPR etc. The course has importance in the areas of academics, research, and employability.

13.	MBOTCC-13	Plant ecology and environmental biology	Students will have knowledge about- CO1: Organism and population concept, interactions among populations CO2: Community structure and community dynamics. CO3: Concept of ecosystem, ecosystem energetic, environmental pollution. CO4: Importance of environmental awareness. The course has importance in the areas of academics, research, and employability
14.	MBOTCC-14	Practical	Students will gain practical knowledge on- CO1: Modern instruments used in botany, cytological techniques. CO2:Karyotype analysis. CO3:Basic recombinant DNA technology, DNA amplification. CO2: Electrophoresis, spectroscopy, centrifugation, isolation of microorganisms etc. CO3: Ecological adaptations. The course has importance in the areas of academics, research, and employability.

Semester: IV

<u>Sl.No.</u>	<u>Paper /Course</u>	<u>Title</u>	<u>Course outcome</u>
15	MBOTEC-1	Cytogenetics and Crop improvement	Students will gain advanced knowledge on- CO1: Haploidy, aneuploidy, polyploidy, chromosome banding pattern. CO2: Mutations, transposons, epigenetics, epigenomics, human genetic diseases. CO3: Traditional and modern methods of crop improvement and plant breeding. The course has importance in the areas of academics, research, and employability.
16	MBOTEC-1	Applied Microbiology and Plant Pathology	Students will have in depth knowledge of- CO1: Industrial application of microbial diversity, study of causal organism of plant pathogens and their control. CO2: Fermentation technology, plant pathology etc. CO3: Solid waste treatment, composting and land filling. CO4: Wastewater treatment, bioremediation, biogas production. The course has importance in the areas of academics, research, and employability.
17	MBOTEC-2	Project Dissertation	Students should be able to learn how to select and defend a topic of their research, how to effectively plan, execute, evaluate and discuss their experiments. The students are exposed to cutting-edge technologies to achieve a solution and learn to process scientific data using biostatistics. Students should be able to demonstrate considerable improvement in the following areas –

		<ul style="list-style-type: none"> - In-depth knowledge of the chosen area of research. - Capability to critically and systematically integrate knowledge to identify the issues that must be addressed within the framework of the specific thesis. - Competence in research design and planning. - Capability to create, analyze and critically evaluate different technical solutions. - Ability to conduct research independently. - Ability to perform analytical techniques/experimental methods. - Project management skills. - Report writing skills. - Problem-solving skills. - Communication and interpersonal skills. <p>The course has importance in the areas of academic, research and employability.</p>
--	--	---

Name of Programme: M.Sc. Biotechnology

Programme Outcome

M.Sc. Biotechnology is a two-year postgraduate programme initiated with an impetus to impart advanced knowledge on modern biology. Other than providing students with indispensable knowledge, the programme curriculum fosters problem-solving and critical thinking skills that prepare students to take on any challenges.

Under this programme the students gain insights on the key research areas of Advances in Microbial, Plant and Environmental Biotechnology. The programme encompasses a balance of both theoretical and practical sessions which enables the students to apply their learning and develop end results.

The programme focuses on career-oriented subjects like Microbial Biotechnology, Genetic Engineering, Plant tissue culture, Animal Biotechnology, Enzyme Technology and Bioinformatics.

Programme Specific Outcomes (PSOs)

PSO1: Students will be able to demonstrate and apply their knowledge of cell biology, biochemistry, microbiology and molecular biology to solve the problems related to the field of biotechnology.

PSO2: Students will be able to demonstrate and apply the principles of bioprocess engineering in the design, analysis, optimization and simulation of bioprocess operations.

PSO3: Students will be able to gain fundamental knowledge in animal and plant biotechnology and its applications.

PSO5: Students will be able to (a) Describe fundamental molecular principles of genetics; (b) Understand the relationship between phenotype and genotype in human genetic traits; (c) Describe the basics of genetic mapping; (d) Understand how gene expression is regulated.

PSO6: Students will be able to (a) To elaborate concepts of biochemistry with easy-to-run experiments; (b) To familiarize themselves with basic laboratory instruments and understand the principle of measurements using those instruments with experiments in biochemistry.

PSO7 Students will be able to understand various facets of molecular procedures and the basics of genomics and proteomics.

PSO8: Students will be able to gain hands-on experience with modern biology techniques. This experience would enable them to begin a career in the industry that engages in genetic engineering as well as in research laboratories conducting fundamental research.

Course Outcome

Sl. No	<u>Paper/Course</u>	<u>Title</u>	<u>Course Outcome</u>
1	MSBTCCC-1	Cell & Molecular Biology and Genetics	<p>On successful completion of this course, students will be able to know about the</p> <p>CO1: Diversity of cell, Cell signaling, Organelle biogenesis, Apoptosis</p> <p>CO2: Process of replication of DNA, transcription, post-transcriptional modifications, and translation in both prokaryotes and eukaryotes</p> <p>CO3: Regulation of gene; Genetic recombination in prokaryotes</p> <p>CO4: Principles of genetics</p> <p>The course has importance in the areas of academics and research. The students will get in-depth knowledge of biological processes through the investigation of the underlying molecular mechanisms.</p>
2	MSBTCCC-2	Microbiology	<p>Students should be able to –</p> <p>CO1: Acquire and demonstrate competency in laboratory safety and skills applicable to microbiological research</p> <p>CO2: Identify the major categories of microorganisms and analyze their classification, diversity and structure.</p> <p>CO3: Identify and demonstrate how to control microbial growth.</p> <p>CO4: Demonstrate and evaluate the interactions between microbes and hosts and the environment.</p> <p>The course has importance in the areas of academic, research and employability.</p>
3	MSBTCCC-3	Biomolecule and Basic Enzymology	<p>Students should be able to</p> <p>CO1: Gain fundamental knowledge in biochemistry</p> <p>CO2: Understand Enzymology principles, fundamental properties of enzymes, catalytic mechanisms, and enzyme kinetics. The course also provides an overview of enzyme purification, localization of enzymes, enzyme immobilization, and applications of enzymes in various industries.</p>

			<p>CO3: Understand the structure classification and functions of carbohydrates, lipids, amino acids, and their derivatives. The course further sheds light on the principle of enzyme catalysis.</p> <p>The course has importance in the areas of academic, research and pharmaceutical industries.</p>
4	MSBTCCC-4	Practical	<p>Students should be able to -</p> <p>CO1: To elaborate concepts of biochemistry with easy-to-run experiments.</p> <p>CO2: Learn the estimation of carbohydrates, lipids, proteins and nucleic acids. The students also learn various techniques such as various types of chromatography used for the separation of amino acids and plant secondary metabolites.</p> <p>CO3: Familiarize with basic laboratory instruments and understand the principle of measurements using those instruments with experiments in biochemistry.</p> <p>CO4: To isolate, characterize and identify common bacteria and fungi, determine the bacterial load in different samples, perform antimicrobial sensitivity test, - Preserve microbial cultures.</p> <p>The course has importance in the areas of research and employability.</p>
5	MSBTCCC-5	Biofertilizer and Mushroom Technology	<p>Students should be able to</p> <p>CO1: Known the process of production of different types of biofertilizers and knows the basic way of their cultivation.</p> <p>CO2:Determine the most important species of cultivated mushrooms and knows the basic way of their cultivation.</p> <p>CO3: Prepare media from agricultural wastes for mushroom cultivation.</p> <p>The course has importance in the areas of skill development and entrepreneurship.</p>
6	MSBTCCC-6	Biophysics and Instrumentation	<p>Students should be able to</p> <p>CO1: Learn the history, theoretical basis and basic understanding of some of the latest technologies in the area of biotechnology.</p> <p>CO2:Learn about various applications of these technologies. They may learn one application in depth through an assignment and/or seminar.</p> <p>CO3: Design an experiment with step-by-step instructions to address a research problem.</p> <p>The course has importance in the areas of academic, research and employability.</p>
7	MSBTCCC-7	Biology of Immune System	<p>Students should be able to –</p> <p>CO1: Evaluate the usefulness of immunology in different pharmaceutical companies.</p> <p>CO2: Identify the proper research lab working in the area of their own interests.</p> <p>CO3: Apply their knowledge and design immunological experiments to</p>

			demonstrate innate, humoral or cytotoxic T lymphocyte responses and figure out the kind of immune responses in the setting of infection (viral or bacterial) by looking at cytokine profile. The course has importance in the areas of academic, research and development sector.
8	MSBTCCC-8	Bioprocess Technology	Students should be able to – CO1: Appreciate relevance of microorganisms from industrial context. CO2: Carry out stoichiometric calculations and specify models of their growth. CO3: Give an account of design and operations of various fermenters. CO4: Present unit operations together with the fundamental principles for basic methods in production technique for bio-based products. CO5: Calculate yield and production rates in a biological production process, and also interpret data. CO6: Calculate the need for oxygen and oxygen transfer in a bioproduction process. CO7: Critically analyze any bioprocess from an economics/market point of view. - CO8: Give an account of important microbial/enzymatic industrial processes in food and fuel industry. The course has importance in the areas of academic, research and employability.
9	MSBTCCC-9	Practical	Understanding of various instruments used in biological research is an integral part of the Biotechnology course module. Bioinstrumentation Lab is designed to make students familiar and get hands-on exposure to various instruments important for research in biotechnology. Students can develop a relevant skill set which can aid their employment. Students should also be able to – CO1: Comprehend techniques such as different types of spectroscopy, Centrifugation, Chromatography, Electrophoresis etc. CO2: Evaluate the usefulness of immunology in different pharmaceutical companies. CO3: Apply their knowledge and design immunological experiments to demonstrate different types of immunity. CO4: Gain the ability to investigate, design and conduct experiments, analyze and interpret data, and apply laboratory skills to solve complex bioprocess techniques. This experience would enable them to begin a career in industry that engages in modern biology as well as in research laboratories conducting fundamental research.

10	MSBTCCC-10	Biostatistics and Bioinformatics	<p>Students should be able to –</p> <p>CO1: Gain a broad understanding in statistics and bioinformatics</p> <p>CO2: Recognize the importance and value of statistical thinking, training, and approach to problem-solving on a diverse variety of disciplines.</p> <p>CO3: Develop an understanding of the basic theory of the computational tools.</p> <p>CO4: Gain working knowledge of these computational tools and methods.</p> <p>CO5: Appreciate their relevance for investigating specific contemporary biological questions; Critically analyze and interpret the results of their study.</p> <p>The course has importance in the areas of research and employability.</p>
11	MSBTCCC-11	Recombinant DNA Technology	<p>Given the impact of recombinant DNA technology in modern society, the students should be endowed with strong theoretical knowledge of this technology. In conjunction with the practical in molecular biology & genetic engineering, the students should be able to take up biological research as well as placement in the relevant biotech industry.</p> <p>Students should be able to –</p> <p>CO1: Understand different types of intellectual property rights in general and protection of products derived from biotechnology research and issues related to application and obtaining patents.</p> <p>CO2: Gain knowledge of biosafety and risk assessment of products derived from recombinant DNA research and environment release of genetically modified organisms, national and international regulations.</p> <p>CO3: Understand ethical aspects related to biological, biomedical, health care and biotechnology research.</p> <p>The course has importance in the areas of academic, research and employability.</p>
12	MSBTCCC-12	Plant and Animal Biotechnology	<p>Students should be able to –</p> <p>CO1: Learn the principles and technical advances behind the <i>in vitro</i> culture of plant and animal cells.</p> <p>CO2: Learn the applications of plant transformation for improving the productivity and performance of plants.</p> <p>CO3: Understand the basic principles and techniques in stem cell culture.</p> <p>CO4: Understand the basic techniques and applications of hybridoma technology.</p> <p>The course has importance in the areas of academic, research and employability.</p>
13	MSBTCCC-13	Environmental Biotechnology	<p>On completion of the course, students will be able to understand</p> <p>CO1: Use of basic microbiological, molecular and analytical methods, which are extensively used in environmental biotechnology.</p>

			<p>CO2:And address complex environmental issues from a problem-oriented, interdisciplinary perspective.</p> <p>CO3:The basic concepts of environment/ ecosystem and the role microorganisms play in maintaining the ecosystem balance.</p> <p>CO4: The unconventional uses of microorganisms in various industries and environmental benefits of the use of the microorganisms.</p> <p>CO4: The various biological methods of waste management and application of microbes in bioremediation.</p> <p>The course has importance in the areas of academic, research and employability.</p>
14	MSBTCCC-14	Practical	<p>On completion of this course, students should be able to:</p> <p>CO1: Describe contents and properties of most important bioinformatics databases;</p> <p>CO2: Perform text- and sequence-based searches and analyze and discuss results in light of molecular biological knowledge;</p> <p>CO3: Explain major steps in pairwise and multiple sequence alignment, explain principle and execute pairwise sequence alignment by dynamic programming;</p> <p>CO4: Predict secondary and tertiary structures of protein sequences.</p> <p>CO5: Gain hands-on experience on gene cloning as well as plant tissue culture and associated techniques.</p> <p>The course has importance in the areas of academic, research and employability.</p>
15	MSBTCEC-1	Project dissertation/Internship	<p>Students should be able to learn how to select and defend a topic of their research, how to effectively plan, execute, evaluate and discuss their experiments. The students are exposed to cutting-edge technologies to achieve a solution and learn to process scientific data using biostatistics.</p> <p>Students should be able to demonstrate considerable improvement in the following areas –</p> <ul style="list-style-type: none"> - In-depth knowledge of the chosen area of research. - Capability to critically and systematically integrate knowledge to identify the issues that must be addressed within the framework of the specific thesis. - Competence in research design and planning. - Capability to create, analyze and critically evaluate different technical solutions. - Ability to conduct research independently. - Ability to perform analytical techniques/experimental methods. - Project management skills. - Report writing skills. - Problem-solving skills. - Communication and interpersonal skills.

			The course has importance in the areas of academic, research and employability.
16	MSBTCEC-2	Project dissertation/Internship	-Do-

Name of Program: M.Sc. Biochemistry

Programme Outcome

Programme outcome of M. Sc Biochemistry is to produce competent biochemists who can employ and implement their knowledge base in premium processes and applications which will profoundly influence or utilize for the existing paradigm of agriculture, industry, healthcare, Patholaboratory and restoration of the degraded environment to provide a sustainable competitive edge to present society. Students will exhibit contemporary knowledge in Biochemistry and students will be eligible for doing jobs in various sectors of the pharmaceutical and biotechnological industry.

Programme Specific Outcome

Biochemistry as a subject is the base of all the subjects of Life Sciences such as Botany, Zoology, Biotechnology, Microbiology etc. It is also included as basic course in Medical Science, Veterinary Science, Dental Science, Agriculture Science etc. Hence M.Sc. Biochemistry Degree Holders have a large number of opportunities for teaching positions at various levels, such as Assistant Professor, Tutor, and Demonstrator etc.

In the present era no research can be done in the field of Life Science without Biochemistry. Hence Biochemistry holds the key of research in the field of Life Science as well as Medical Science, Veterinary Science, Dental Science and Agriculture Science. So a huge number of Scientific positions are available for the Biochemistry Degree Holders.

Beside these, other opportunities area as follows:

PSO1: Students will be able design, conduct experiments, analyze and interpret data for investigating problems in Biochemistry and allied fields.

PSO2: Higher studies (M. Phil, Ph.D.) can be pursued in order to attain research positions. Various examinations such as CSIR-NET, GATE, ICMR and many other opens channels for promising career in research.

PSO3: Students can become Research associates, Junior Production Officer and Technical assistants in Biochemistry, biotechnology, pharmaceutical Companies, biofertilizer industry, aquaculture industries, environmental units, crop production units, food processing industries, national bio-resource development firms, banking and KPO.

PSO4: Entrepreneurship ventures such as consultancy, patho-laboratory and training centres can be opened.

PSO5: Some of the major pharmaceutical and drug companies hiring biochemist professionals include Accenture, Dabur, Ranbaxy, Hindustan Lever and Dr Reddy's Labs, food processing industries, beverage, chemical industry and textile industry as well. Besides this, industries also employ biochemist professionals in their marketing divisions to boost up business in sectors where their products would be required.

PSO6: Students will be able to understand the potentials, and impact of biochemical innovations on the environment and their implementation for finding a sustainable solution to issues pertaining to the environment, health sector, agriculture, etc.

PSO7: Several career opportunities are available for students with a biochemistry background abroad especially in countries like Germany, Australia, Canada, USA and many more where biochemistry is a rapidly developing field.

Course Outcome

Semester-I

Sl. No.	Paper/Course	Title	Course Outcome
1	CC-1	Organic And Biophysical Chemistry	Drug Industry, Paint Industry
2	CC-2	Cell and Molecular Biology	Research
3	CC-3	Biophysical and Biochemical Techniques, Biostatistics, Basic Computer skill and Research Methodology	Biomedical Industry, Bioinformatics Based industry, Data Analysis and Interpretation
4	CC-4	Practical General Biochemistry	Quality control in Industries
5	AECC-1	Environmental Sustainability and Swachhha Bharat Abhiyan	Awareness for cleanliness and environmental protection

Semester-II

Sl. No.	Paper/Course	Title	Course Outcome
---------	--------------	-------	----------------

6	CC-5	Nutritional Biochemistry	Dietician, Food Processing industries
7	CC-6	Bioenergetics and Biomolecules	Research
8	CC-7	Enzymology	Drug and enzyme-based industries
9	CC-8	Plant Biochemistry	Plant based industries
10	CC-9	Practical Enzymology and Analytical Biochemistry	Drug synthesis, enzyme-based industries and Quality control
11	AEC-1	Solid Waste Management	Municipal corporations, Environment protection
		Mushroom Culture	Food Processing Industry
		Bio-fertilizer Production	Agro-Based Industries

Semester-III

Sl. No.	Paper/Course	Title	Course Outcome
12	CC-10	Dissertation/ Project	Research or Patho Laboratories
13	CC-11	Human Physiology	Medical based industry, Drug Research and Development (R&D)
14	CC-12	Immunology and Immunochemistry	Vaccine Production, Antidote production
15	CC-13	Biotechnology and Bioinformatics	Genetically modified organisms' production, Agriculture research
16	CC-14	Practical- Hematology, Immunochemistry and Biotechnology	Blood Bank, Blood testing, Pathological labs
17	AECC-2	Human Values, Professional Ethics and Gender Sensitization	Development of ethos towards profession and society

Semester-IV

Sl. No.	Paper/Course	Title	Course Outcome
IV	EC-1	Theory	Microbial Biochemistry
			Clinical Biochemistry
	EC-2	Practical	Microbial Biochemistry
			Clinical Biochemistry

Name of Program: M.Sc. Geology

Programme Outcome

1. The generation of trained personnel ready to serve in the realms of teaching and research in Earth Science.
2. The production of a strong contingent of Earth Scientists adequately trained in both theoretical and practical aspects of Geology.
3. The program shall equip students with the technological tools and skills competent enough to analyze Geological data and information of the best utilization in Earth Science studies.
4. A significant outcome of the program shall be the production of versatile Geologists who understand the significance of sustainable utilization & development of Earth resources.

Course Outcome

Semester-I

Sl. No.	<u>Paper/Course</u>	<u>Title</u>	<u>Course Outcome</u>
1	MGELCC-1	Structural Geology & Geotectonic	<ol style="list-style-type: none"> 1. Knowledge of behavior of rocks and their Geological significance. 2. Ability to analyze strain ellipses and ellipsoid. 3. Understand the concept of Mechanics of folding faulting. 4. Know the significance of planar and linear fabrics. 5. Understand the geotectonic of earth.
2	MGELCC-2	Mineralogy, Crystallography & optical Mineralogy	<ol style="list-style-type: none"> 1. Knowledge of Mineralogy 2. Understanding of crystal structure. 3. Knowledge of properties of essential minerals. 4. To comprehend space lattice, space groups and crystal lattice. 5. Thorough knowledge of optical mineralogy.
3	MGELCC-3	Igneous Petrology & Geochemistry	<ol style="list-style-type: none"> 1. Knowledge of magma generation, differentiation. 2. To comprehend various classification of igneous rocks. 3. Understanding concept of phase equilibria. 4. Learning of various igneous activities of India. 5. Thorough knowledge of Geochemistry of Earth.
4	MGELCC-4	Practical	<ol style="list-style-type: none"> 1. Interpret various geological structure from the study of geological maps. 2. Understand the use of stereographic projection of structural data and mineral data. 3. Gain an ability to distinguish different igneous rock in the field and this section. 4. Learn to classify optical properties of the mineral. 5. Understand the importance of Geological maps in understanding Geomorphology structure etc.
5	MGELCC-5	Geomorphology Remote Sensing &	<ol style="list-style-type: none"> 1. Students shall have a comprehensive understanding of land forms. 2. Knowledge of Arial photography techniques.

		GIS	3. Application RS and GIS. 4. Importance of GPS.
6	MGELCC-6	Sedimentology	<ol style="list-style-type: none"> 1. Students will be able to understand the process for formation of sedimentary rocks. 2. They will interpret dynamics of depositional environments. 3. Enable students to evaluate the record of tectonic & climatic process through geological time.
7	MGELCC-7	Metamorphic Petrology	<ol style="list-style-type: none"> 1. Understanding of metamorphism and its products. 2. Knowledge of relation between plate tectonics and metamorphic facies. 3. Importance of I so grads and metamorphic reaction. 4. Learning about the metamorphic product. 5. Knowledge of paired metamorphic belt and metasomatism.
8	MGELCC-8	Stratigraphy & Paleontology	<ol style="list-style-type: none"> 1. Students shall benefit in their idea of various stratigraphic tools. 2. A better understanding of the oldest rocks & their associations. 3. A comprehensive idea of Aravalli, Cuddapah & Vindhya rocks & their significance. 4. An understanding of origin & extinction of life forms and the vertebrate & Mammalian life.
9	MGELCC-9	Practical	<ol style="list-style-type: none"> 1. Identification of the different sedimentary and metamorphic rock. 2. Enable students to use satellite data in interpreting geology of the area. 3. Learn latest software and its use in solving geological problems. 4. Identify different kind of fossils and their stratigraphic importance. 5. Learn the position of India on a Global Map in different Geological time.
10	MGELCC-10	Environmental Geology & Hydrogeology	<ol style="list-style-type: none"> 1. Knowledge of hydrological properties of aquifers. 2. To study techniques of ground water exploration and water quality. 3. Understanding of Hydrosphere, Lithosphere and Biosphere. 4. Knowledge of EIA and Environmental legislation. 5. Study of Environmental Issues.
11	MGELCC-11	Engineering Geology Geo-Exploration	<ol style="list-style-type: none"> 1. Understanding of role of geologists in the construction of civil structures. 2. To investigate Rock Mass characterization and classification. 3. To understand different types of engineering structure and techniques. 4. To know different types of Exploration methods. 5. Student shall have a solid understanding of techniques o investigation for engineering projects.
12	MGELCC-12	Economic Geology	<ol style="list-style-type: none"> 1. Students will have understanding of classification of minerals deposits and processes of formation. 2. To have a knowledge of mineral Economics and related legislation. 3. A comprehensive idea about genesis and distribution of major are minerals and associated host rock. 4. A basis understanding of accurance and origin of fuel deposits with reference to India.

13	MGELCC-13	Stratigraphy & Paleontology	<ol style="list-style-type: none"> 1. Evidence for changes in the form of oceans and continents. 2. Global and local climate and environment in which different forms of life evolved. 3. To unravel the event of the past. 4. To determine the order in which the rock was formed. 5. To understand Morphology and evolutionary trends of fauna and flora.
14	MGELCC-14	Practical	<ol style="list-style-type: none"> 1. Identify the Economic mineral based on their distinguishing properties. 2. A comprehensive idea of the rock mass classification. 3. Identify the different kinds of fossils vertebrate, invertebrate, plants. 4. To develop an idea of determination of the hydrological properties of rock. 5. An understanding of the location of ground water provinces of India.
	MGELCE-1	Advanced Sedimentology	<ol style="list-style-type: none"> 1. Students will be able to understand the process of formation of sedimentary rocks. 2. They will interpret dynamics of depositional environments. 3. Students will be able to critically evaluate the record of tectonic and climatic processes through geological time.
	MGELCE-1	Geochemistry	<ol style="list-style-type: none"> 1. Students shall benefit to have basis ideas about the universe and the Earth. 2. Development of comprehensive knowledge of the application of geochemistry. 3. Understanding about the petrology and the Chemistry behind it. 4. Enhancement of knowledge regarding the Earth & its different spheres. 5. Knowledge of geochemistry for industrial purpose.
	MGELEC-2 Practical	Advance Hydrogeology	<ol style="list-style-type: none"> 1. Interpret Hydrogeological Map and understand groundwater condition of the area. 2. Learn the physical and chemical properties of water. 3. Determine the hydrological properties to the rock. 4. Determine the groundwater provinces of India and groundwater resources of Bihar.
	MGELEC-2 Practical	Oceanography	<ol style="list-style-type: none"> 1. Learn the position of global ocean currents on a global map. 2. Understand the inter-relationship between ocean and atmosphere.
	MGELEC-2 Practical	Fuel Geology	<ol style="list-style-type: none"> 1. Methods of sampling of coal. 2. Identify the different type of coal in the field and microfossils under these sections. 3. Determine the properties reserves. 4. Knowledge of coal for industrial purpose.
	MGELEC-2 Practical	Advanced Sedimentology	<ol style="list-style-type: none"> 1. Identify the different kinds of sedimentary rocks in field and under this section. 2. A comprehensive idea of textural significance of sediments. 3. Students shall understand the recognitions & significance of heavy minerals. 4. To know the utility of sedimentary structures in understanding paleogeographic direction. 5. Knowledge of sedimentological data for industrial purpose.
	MGELEC-2 Practical	Geochemistry	<ol style="list-style-type: none"> 1. Analyze geochemical data to reveal different earth processes. 2. Knowledge of geochemistry for industrial purpose.
	MGELEC-2	Field Training	<ol style="list-style-type: none"> 1. Understand the application of principles of Geology in the field to reveal geology of

	Practical	Dissertation	<p>the area.</p> <ol style="list-style-type: none"> 2. Experience the process of collection of rock samples top sheet and BPS. 3. Framing up of the field report based on scientific analysis leading to a professional presentation of the geological data.
--	-----------	--------------	--

Name of Program: M.Sc. Mathematics

Programme outcome

After completion of the programme the student will be able to

1. Develop his logical capacity to great extent which will lay down a firm foundation of the fundamental concepts.
2. Develop the ability in the applicability of Mathematics to real life problems.
3. Develop the ability to design and carry out research in the concerned and allied fields.
4. Develop skills in problem solving, critical thinking and analytical reasoning.
5. Develop the ability to communicate with clarity the results and the concepts which he/she has learned.

Programme Specific outcome

PSO1: The course is so designed that after the completion of the course, students will be able to develop basic concepts of the topic taught, which will help them in solving problems related to the topic and uplift their analytical abilities required to pursue higher research in the field of their choice, so that they can achieve higher academic excellence.

PSO2: Further the applied part of the course is helpful in applying the concepts to various fields such as Bio-Mathematics, Environmental Science, Mathematical Economics, Population Dynamics, Actuarial Science, Industrial Mathematics, Financial Mathematics, Social Science, Medical Science, etc.

PSO3: After the completion of the course the student will find himself well equipped to appear at Public Service Examination and other employment related examinations, such as teaching at the University & College level or even at the school level.

Course Outcome

Semester –I

Sl.No	Paper/Course	Title	Course Outcome
1	MAT CC-01	Abstract Algebra	After the completion of this paper, students will be able to answer basic questions related to mentioned topics. Logical capacity of the students is enhanced to a great extent.
2	MAT CC-02	Real Analysis	Real Analysis is an important part of Pure Mathematics. Stress is laid on development of the analytical abilities of the students.
3	MAT CC-03	Linear Algebra	After the completion of this paper students will be able to use computational techniques and algebraic skills. The students are able to grasp an overall concept of algebraic structures.
4	MAT CC-04	Discrete Mathematics	Discrete Mathematics finds its applications in digital circuits and computational Mathematics. And develops the idea how pure mathematics can be applied to real life.

Semester -II

Sl.No	Paper/Course	Title	Course Outcome
5	MAT CC- 05	General Advanced Mathematics	The student is able to grasp the basic ideas about the topics mentioned.
6	MAT CC -06	Complex Analysis	Analytical study of complex analysis along with problem solving techniques is developed.
7	MAT CC -07	Differential and Integral Equation	Differential Equation plays an important role in solving problems in Applied Mathematics. The student is well equipped to solve real life situation problem.
8	MAT CC -08	Measure Theory	Measure Theory is an important part of pure mathematics. Stress is laid to inculcate development of analytical skills of students. After the completion of

			this paper the student is well prepared to analyse problem related to the mentioned topics.
9	MAT CC -09	Topology	A study of this topic paves the way for developing the idea how pure mathematics can be applied and generalized.

Semester -III

Sl.No	Paper/Course	Title	Course Outcome
10	MAT CC-10	Functional analysis	The students, after the completion of the course, is able to develop the concepts needed for further study and research.
11	MAT CC-11	Fluid Dynamics	In analytical dynamics and fluid mechanics the completion of course the student will be able to develop some advanced concepts required for research in applied mathematics.
12	MAT CC-12	Classical Mechanics	The students is able to solve some problem arising in physics using mathematical equations, differential equations etc.
13	MAT CC-13	Optimization Techniques	Optimization is a topic of the day & here students are taught some programming methods and they are able to develop an insight in the subject.
14	MAT CC-14	Differential Geometry	After studying Differential Geometry the student is able to see how differential calculus is applied to geometrical problems.

Semester –IV

Sl.No	Paper/Course	Title	Course Outcome
15	MAT EC-01	Elective Paper	MAT EC-01 & MAT EC 02 are the two electives to be selected out of given ten options. Each option has its own important in the field where it can be applied. After studying the electives, the students will be well prepared in the research field of his choice.
16	MAT EC-02	Elective Paper	

Name of Program: M.Sc. Statistics

Programme outcome

After successful completion of the programme of MA & MSc in Statistics, Students get a plenty of opportunity in different field. As Statistics is an applied Science and is being used in almost all the disciplines such as Engineering, Medical Science, Economics, Sociology, Management etc, Students may establish themselves as consultant or data Scientist or system analyst in esteemed organization.

They may develop their career in the field of research especially in Population Science and in Mathematical Statistics.

Employment opportunities for students of this programme are growing day by day in the areas such as Indian Statistical Service, NSSO, CSO, State Bureau of Statistic & Evaluation, State Planning Board, Health Sector, Banks etc.

Course Outcome

Semester-I

Sl. No.	<u>Paper/Course</u>	<u>Title</u>	<u>Course Outcome</u>
1	CC1	Real Analysis Probability Theory	Deals with basis foundation of modern probability theory which is essential for statistical differences.
2	CC 2	Linear Algebra	Convenient for Potential studies of Stochastic processes, linear models & multivariate analysis.
3	CC 3	Sample survey & Statistics for National Development	Sampling is the Science and art of controlling & measuring the reliability of useful statistical differences.
4	CC 4	Practical & Group Discussion	These Practical are based on papers 101, 102 & 103. Students are given a topic of dissertation on which group discussion are held.

Semester-II

Sl. No.	<u>Paper/Course</u>	<u>Title</u>	<u>Course Outcome</u>
1	CC5	Distribution Theory & Non-Parametric tests	Helps in modeling real life problems dealing with certainties and drawing valid conclusions.
2	CC6	Linear Models & Regression Analysis	Highly applied in Engineering Science and in the field of estimating economic parameters and also in for ecartering.
3	CC7	Statistical computing	Useful in Statistical Computing especially in case of high dimensional data.
4	CC8	Practical & Field work	Practical are based on the papers 201, 202, and 203. Students are required to collect data from the field on the topic of social & economic importance and to write report on the same

Semester-III

<u>Sl. No.</u>	<u>Paper/Course</u>	<u>Title</u>	<u>Course Outcome</u>
1	CC9	Statistical Inference	Deal with drawing optimal conclusions based on samples with the help of appropriate inferential techniques.
2	CC10	Design & Analysis of Experiment	Deals in designing an experiment in a set of conditions such that the result obtained is beyond any criticism.
3	CC11	Reliability	Highly applied in Engineering sciences dealing with life time as well as reliability of a systems.
4	CC12	Practical Paper	Practicals based on the papers 301, 302, & 303 to make students course outcome oriented.

Semester-IV

<u>Sl. No.</u>	<u>Paper/Course</u>	<u>Title</u>	<u>Course Outcome</u>
1	EC1	Stochastic Process	Deals with real life characteristics as a function of time and hence applied in almost all the disciplines.
2	EC1	Multivariable Analysis	Deals with highly dimensional data and related statistical differences.
3	EC1	Demography	Deals with birth, death, migration etc so it is applicable in planning, food, housing, health, employment, education etc.
4	EC2	Practical & Dissertation	Practicals are based on the papers 401, 402 & 403 and students are required to submit dissertation to make them course outcome oriented.

Faculty of Commerce

Name of Program: M.Com

Programme Outcome

The M. Com. Programme has the following Programme Outcome:

- Students become competent in terms of employability in finance, banking and monitoring sectors.
- Students become able to plan & budget their outstanding skill required for the growth of an organisation.
- Students developed a unique kind of leadership and managerial skill.
- Students become able to take decision under the condition of the uncertainty of the business world.
- Students are able to focus and project their vision for the future.
- Students become competent to take strategic decision in the complex business world.
- Students become capable in taking strategic decision relating to Accountancy, Finance and Taxation of an organisation.
- Students become competent in the calculation of Risk & Return investment.
- Students become knowledgeable in HR & Marketing practices.
- Students become Business consultant, HR consultant, Marketing consultant and Investment consultant.

Programme Specific Outcome

The M. Com. Programme has the following Programme Specific Outcome:

PSO1: Students become competent in terms of solving the critical situation problems in the areas of Financial Decision-Making.

PSO2: The M. Com. passed out students are able to develop a unique kind of leadership by examples.

PSO3: Students are during their classroom studies develop a specific kind of change in their attitude and behaviour mainly focusing on knowledge, honesty, values

and self-services.

PSO4: They are trained for developing a business model with all creativity.

They become confident to show their talents and performance at the national level.

Course Outcome

Semester-I

Sl. No.	Paper/Course	Title	Course Outcome
1	COMCC – 1	Management Concept	The knowledge of this paper will promote the managerial skill of students. They can use the resources of the organisation in the most effective manner. They can acquaint with the sense of duty, responsibility and accountability of a Manager which goes to enhance the ability of planning, organising, directing, staffing & controlling the thing in any concern.
2	COMCC – 2	Statistical Analysis	This paper provides statistical tools and techniques for decision making. With the knowledge of this paper student can take the decision very quickly and accurately. The students are able to forecasted the thing easily. Analytical ability of the students is enhanced which help in the area of planning and taking appropriate financial, marketing and HR decisions.
3	COMCC – 3	Managerial Economics	This paper goes to enhance the decision-making ability of the student by giving full information about the market situation for a product.
4	COMCC - 4	Business Finance	This goes to help the students with such ability where production of better quality at lower cost is possible in any business concern. Different types of economic and business decisions are taken perfectly with the knowledge of this paper.

Semester-II

Sl. No.	Paper/ Course	Title	Course Outcome
5	COMCC – 5	Human Resource Management	Effective utilisation of human resources is made possible with the knowledge of this paper. This paper makes the students enable through which retention of an employee and better human relations are ensured.
6	COMCC – 6	Marketing Management	Students are able to understand the functioning of Market. The knowledge of this paper helps the students in taking several decisions regarding pricing & promotion of the product in the interest of the Consumer as well as in the interest of business firm too. After completion of the course they will be able to formulate Marketing Strategy for any firm.
7	COMCC – 7	Financial Management	Students should be able to use financial statements to evaluate firm performance. They can prepare financial plan for corporate concern. They can decide the better capital structure. They can evaluate the investment proposals of any business firm.
8	COMCC – 8	Corporate Legal	This paper goes to enhance the ability of the student to resolve the legal issues of a corporate concern.

		Framework	After going through this paper, the students will be able to know about the functioning & formation of a company and managing the company a legal manner. They will come & know about meetings, resolutions, minutes & other legal documents of the company with the knowledge of this paper.
9	COMCC – 9	Management Accounting	After the study of this paper the students will be able to analyse the financial statement of any corporate concern. They can assist in the decision-making process of top-level Management in actual corporate life. They can easily prepare the budget for business firm. It will enable them to take production decision in a corporate concern.

Semester-III

Sl. No.	Paper/Course	Title	Course Outcome
10	COMCC – 10	Entrepreneurship Development in India	The knowledge of this paper will help the students in becoming an entrepreneur. They can be able to know the procedure of setting up an enterprise in urban and rural areas. They can identify the problems and can be able to solve them with the knowledge of this paper.
11	COMCC – 11	Research Methodology	This will enable the students to select more profitable security and better portfolio during a particular period of time. They can assess the risk and minimise it to the greater extent with the knowledge of this paper.
12	COMCC – 12	Advanced Accountancy	This will enhance accounting skill of a student where they can prepare and maintain accounting statement of a company in proper manner and as per the provisions of company's Act.
13	COMCC – 13	Corporate Direct Tax	The students will be able to assess the company with the knowledge of different provisions of Tax laws applicable for company. They can work as Tax Consultant with the knowledge of this paper.
14	COMCC – 14	Security Analysis and Portfolio Management	This will enable the students to prepare better research proposal on any relevant issues of national and international importance. Quality of a good research and taste and temperament of a research is enhanced with the knowledge of this paper.

Semester-IV (SPECIALIZATION / EC: ACCOUNTING AND FINANCE)

Sl. No.	Paper/Course	Title	Course Outcome
15	COMEC – 1	Corporate Tax Planning and Management	This will enable the student to suggest the ways through which tax liability of a corporate concern can be reduced in a legal manner. Compliance of tax laws becomes easy with the knowledge of this paper.
16	COMEC – 2	Advance Cost Accounting	This promotes skill in the areas of cost computation and cost related decision for manufacturing and service providing concern.
SPECIALIZATION / EC: MARKETING			
17	COMEC – 1	Service Marketing	The students will be able to explain the areas of service marketing. The integration of new technologies and other key issues facing today is possible by customer service providers and service manager. With the knowledge of this paper they can effectively understand what quality means in service delivery and how perceptions of service quality are developed by customers.
18	COMEC – 2	Retail Management	The students will be able to understand the challenges of working in retail field. They will be able to know the valuable skills as required for a retail manager. They can easily classify strategic retail growth opportunities in Indian retail market and outside.
SPECIALIZATION / EC: HUMAN RESOURCE MANAGEMENT			
19	COMEC – 3	Industrial Relations in India	The students will be able to know the procedures of settlements of Industrial disputes and can suggest for preventing measures to maintain better Industrial relations. They can understand the emerging trends of industrial relations in present age of globalisation. They can suggest the level of works participation in management in particular activity.
20	COMEC – 4	Labour Welfare and Social Security	The students will be able to know the different schemes of labour welfare and social security as existing today. The knowledge of this paper will help the students in executing these schemes in right direction.

Name of Programme: Master in Business Administration**Programme Outcome**

The MBA Programme has the following Programme Outcome:

Provides opportunities to the students of different disciplines to join the Programme to be well acquainted with the managerial capabilities in their careers.

Develops core competency among the management students to meet and handle the challenges relating to the changing scenario in the fields of Industry and Trade as well as ever increasing Services Sectors.

Provides an excellent managerial competence among the students for meeting the present and future challenges of business organisation in a Liberalised world Economies.

Making students well equipped with the broad spectrum of knowledge of Management of Finance, marketing and Human resource so that they may be more professional and specialised in their respective fields.

Creation of Think-Tank of excellent managerial inputs for present and future Research in the areas of Management.

Provides managerial inputs to the Small Sectors (SSI Units) so as to make the entrepreneurs-cum-managers more professional in managing their units.

Programme Specific Outcome

The MBA Programme has the following Specific Outcome:

After the completion of the Management Programme the students are transformed into a skill-oriented mind in the domain of Marketing, Finance and Human Resource Management. Their knowledge in these areas help them to become creative in their respective field which ultimately helps a corporation and business organisation to grow, develop and sustain strategically in the long run.

Course Outcome

Semester-I

Sl. No.	Paper/Course	Title	Course Outcome
1	MB 101	Principles and Practice of Management	At the end of teaching this course enables the students to develop the basic awareness of management functions and various dimensions of organizational life. It also attempts to provide exposure of the ethical dilemma in management practice.
2	MB 102	Managerial Economics	At the end of teaching this course enables students to make aware of the various economic issues that they are expected to face as managers at the firm level and to equip them with the tools and techniques of economic analysis for improving their decision-making skills.
3	MB 103	Statistical Methods for Decision Making	At the end of teaching this course enables students to familiar with basic statistical techniques and their application in manager decision-making.
4	MB 104	Accounting and Financial Analysis	At the end of teaching this course enables students to know the importance of the accounting interpretation of financial of a business to take statistics decision for the company.
5	MB 105	Marketing Management	At the end of teaching this course intends to provide an experienced based approach to making theory and its practical application. It enables the student to learn the basic of

			marketing.
6	MB 106	Human Resource Management	This course gives knowledge that employees are an asset to the organisation and, therefore, it is the duty of the organisation to make them so by giving them appropriate training, compensation, incentive as well as making them disciplined and proper handling of their grievances.

Semester-II

Sl. No.	Paper/Course	Title	Course Outcome
7	MB 201	Organisational Behaviour	At the end of teaching this course makes students to understand the behaviour of employees in an organisation including their perceptions, personally and conflicts in an organisation.
8	MB 202	Business Research Methods	The outcome of this course is to develop the research skills of the students in investigating the business problems with a view to arrive at findings, interpretation of data and conclusions of their investigation in the form of systematic reports.
9	MB 203	Operations Research	At the end of teaching this course intends to acquaint the students with the management of different operational aspects of organization especially with respect to the manufacturing assembling and servicing processes with numerical and quantitative technical value addition.
10	MB 204	Management Accounting and Control	At the end of teaching this course is to expose the students to the applied aspect of accounting and making them familiar with the techniques of using Accounting information for decision-making.
11	MB 205	Financial Management	At the end of teaching this course enables students to aims at familiarizing the participants with the skills related to basic principles tools and techniques of financial management.
12	MB 206	Project Management	At the end of teaching this course enables students to gain basic knowledge about the concept of project, project management, project life cycle, project appraisal; to acquaint the students about various issues of project management.

Semester-III

Sl. No.	Paper/Course	Title	Course Outcome
13	MB 301	Strategic Management	At the end of teaching this course aims at familiarizing the participants with the important role that strategic management plays an important role in a business success and enables students to develop analytical and conceptual skills with the help of class participation and case discussion.
14	MB 302	Legal Aspects of Business	At the end of teaching this course aims at providing a rich contemporary knowledge, time tested principles, basic concept, emerging ideas, evolving theories, latest techniques ever changing procedures & practices in the field of Law in comprehensive way.
15	MB 303	Project Study	At the end of teaching in this course the students require to prepare on the topic of project incorporating the details of their working, findings and suggestions as it helps them to develop the ability to apply multi-disciplinary concept and techniques to solve organisational problems.
16	MB 304	Summer Training	Each and every student require to undergo study on various aspects of industrial, business or

		Programme	service organisation for four weeks of summer training. The object is to impart to training to the management students to business units.
17	MB FC 01	Security Analysis and Portfolio Management	At the end of teaching this course is to expose the students to the concept, tools and techniques applicable in the field of Derivatives as a tool of investment and Derivative analysis.
18	MB FC 02	Corporate Tax Planning and Management	At the end of teaching this course aims to provide understanding of Direct Tax including rules pertaining there to and application to different business situation & to understand principles underlying the Service Tax along with basic concepts of VAT.
19	MB HC 01	Labour and Employment Laws in India	At the end of teaching this course intends to educate and create awareness among the students about various aspects of Labour and Employment Law and thus equip them to handle this delicate subject with maturity, objectively and understandings.
20	MB HC 02	Industrial Relations	At the end of teaching this course enables the students to be acquainted with the Industrial relations framework in our country, the importance of the maintenance of Industrial peace and efforts to reduce the incidence of Strikes and Lockout and Industrial Strike are to be emphasised.
21	MB MC 01	Consumer Behaviour	The outcome of this course is to present a comprehensive coverage of the subject with examples from the Indian Scenario. It also challenges students to understand the complexities of consumer needs and perception and translate them into effective Marketing strategies.
22	MB MC 02	Services Marketing	At the end of teaching this course enables the students to understand the difference between services and goods. It also makes them aware of marketing of services, such as banking, insurance, hotel & hospitality services, health care, tourism, etc.

Semester-IV

Sl. No.	Paper/ Course	Title	Course Outcome
01	MB 401	Corporate Governance and Business Ethics	The outcome of this course is to expose the students to the various concept of Corporate Governance and Business Ethics and provides an in-depth study of various issues there under.
02	MB 402	Computer Application and Management Information System	At the end of teaching this course enable the students to aware of Computer Software and Hardware. It also makes aware the use of Information Technology in modern business.
03	MB 403	Comprehensive Viva-Voce	This is an oral examination of the students carrying 100 marks. It is conducted by a duly constituted examination body which encompasses the entire Course of the Study. This helps to understand students' ability and knowledge in their area of specialisation.
04	MB 404	Business Communication	At the end of teaching this course intends to develop good communication skills in students for their future jobs and endeavours in the corporate world so that they can gain a cutting edge over their other counterparts within the country and across the globe.
05	MB FC 01	Banking and Financial Services	At the end of teaching this course aims to familiarize the students about banking and financial services and strengthen their analytical understanding about Indian financial environment.
06	MB FC 02	Financial Derivatives	At the end of teaching this course shall expose the students to the concept, tool and techniques applicable in the field or Derivatives as a tool of investment for calculating Risk and Return in an

			uncertain Business environment.
07	MB HC 01	Management of Change	At the end of teaching this course intends to develop an orientation towards the change. It shall coach the students to be proactive towards a planned change. It details the relevant aspects of change that help the students understand the importance of managing change.
08	MB HC 02	Group Dynamics	At the end of teaching this course enables the students to familiarize with the meaning, scope and significance of group and group dynamic to examine the factors and issue that influence group performance and group effectiveness to identify causes of intragroup and intergroup conflict and ways and means of resolving the conflict and to cultivate skills for group decision-making and teambuilding.
09	MB MC 01	Sales and Distribution Management	The outcome of this course is to help management students understand the fundamentals of Sales management and Distribution management so as to recognize the need of Business and to have the effective Sales and Distribution strategies for the satisfaction of channel partners.
10	MB MC 02	Strategic Management	At the end of teaching this course enable the students to develop analytical skills for the formulation and implementation of market driven strategies. It also aims at recognizing, embracing, and managing change by focusing on higher level strategic issues and decision making deliver superior value to customers in global market, competitive situations and under the condition of uncertainty.

Faculty of Law

Name of Program: LLM

Programme Outcome

1. The Programme outcome of P.G Law is to produce legal experts as well as good academicians specialized in constitutional and administrative Law.
2. The Programme shall equip students with the computer and other scientific developments, especially in legal framework.
3. Main output of this faculty is to produce professionals especially Judges, Lawyers and academicians.

Semester-I

Sl. No.	<u>Paper/Course</u>	<u>Title</u>	<u>Course Outcome</u>
1	101	Indian Constitutional Law	Research, Employability
2	102	Constitutionalism and Constitutional	Environmental, Employability

		Development in India and England	
3	103	Comparative and Co-operative federalism	Research, Employability
4	104	Civil and Political Rights	Academic, Research, Employability

Semester-II

Sl. No.	<u>Paper/Course</u>	<u>Title</u>	<u>Course Outcome</u>
5	201	Legal Education and Research Methods	Research
6	202	Administrative Law in India	Social, Environmental, Employability
7	203	Administrative Law in India-II	Research, Employability
8	204	Comparative Administrative Law	Academic, Research

Semester-III

Sl. No.	<u>Paper/Course</u>	<u>Title</u>	<u>Course Outcome</u>
9	301	Legal Philosophy	Academic
10	302	Law relating to Jurisdiction and courts system in India	Research, Applications
11	303	Law relating to Procedure and proof	Employability
12	304	Law relating to Relief	Academic

Semester-IV

Sl. No.	<u>Paper/Course</u>	<u>Title</u>	<u>Course Outcome</u>
13	CC13	Judicial Process	Research, Academic, Application
14	EC1	Dissertation	Research
15	EC2	Dissertation	Research

Faculty of Humanities

Name of Program: M.A. Ancient History & Archology

Programme Specific outcomes (PSO):

PSO1: Creates employment capacity in the field of Archaeology.

PSO2: Provides knowledge of Indian Culture.

PSO3: Promotes interest in research in the subject.

PSO4: Provides knowledge of excavation and exploration.

PSO5: Provides knowledge of Museum, Heritage & Tourism.

PSO6: Raises consciousness for protection and promotion of heritage

<u>Sl. No.</u>	<u>Paper/Course</u>	<u>Title</u>	<u>Course Outcome</u>
1	CC- 1	Political History of India (From Indus Valley Civilization to 319 A.D)	This subject gives the knowledge about early history. It provides the background for Ancient History and Archaeology course.
2	CC- 2	Political History of India (From 319 A.D to 1206 A.D.)	It gives knowledge about various regions in India and helps in the understanding the historical developments in North India and South India
3	CC - 3	Ancient Indian Epigraphy	Paleography and Inscription are principal source are of subject. Various aspects of the subject depicted through Paleography and Inscriptions.
4	CC - 4	Ancient Indian Numismatics	The study of Numismatics gives us the knowledge of Economics changes of different dynasty. It is the study of coins tokens and other payment mediums used in economic activities.
5	CC - 5	Social Economic History of Ancient India	It gives the knowledge of the Socio – economic changes in Ancient India.
6	CC - 6	Political History of South – East Asia	It deals with the Expansion of India in south east. It gives knowledge about the economic, cultural and political relations of India and South - East Asia.
7	CC - 7	Ancient World Civilization	The course on World Civilization deals with the various river valley civilizations that existed in at the time.

8	CC - 8	Concept and Technique of Archaeology, Pre and Proto History of Africa & Excavated Archaeology Sites	It gives an idea about the technique and science of the origin of archaeology in addition to teaching about new findings in archaeological sites.
9	CC - 9	Ancient Indian art, Architecture and Iconography	It gives the cultural heritage of India on the basis of ancient Literature and traditions. The development in the field of literature in various parts of India and taught.
10	CC - 10	Cultural History of South-East Asia	It presents the cultural Expansion of South East Asia. Spreading of Indian religions such as Hinduism, Buddhism; and Indian art-forms and traditions and taught.
11	CC - 11	Pre and Proto History of India and Ancient Potteries	This paper gives information about the original sources of Pre and Proto historical times.
12	CC - 12	Historiography, History of Bihar and Research Methodology	It gives knowledge about how Ancient history continued. Regional history of Bihar presents cultural evidences of this. Recent developments are learnt through Research Methodology.
13	CC - 13	Religion, Philosophy & Political Administration of Ancient India	This paper is the backbone of Ancient Indian History which presents the original idea of philosophical belief, Religious fact and political changes.
14	CC - 14	Practical	Gives first hand information about the antiques Present in Ancient India. It also helps in developing future carrier as archaeologist
15	Elective course (15-16)	Elective course Two paper	Then other papers are offered based on student's choice. This gives an ideas about student interest in the CBCS curriculum, that is Religion, Philosophy, Buddhism, Tourism, Polity, Art, Iconography, Architecture etc.

Name of Program: M.A. Arabic

Programme Outcome

Provide a base for employment in Arabs countries.

Provide a degree for employment in India's school, colleges and universities.

Help to get jobs in embassies, tourism department, Hotels and Hospitals etc.

Semester-I

<u>Sl. No.</u>	<u>Paper/Course</u>	<u>Title</u>	<u>Course Outcome</u>
1	AR 101	History of Arabic Languages Literature	The literary history is very important for the students of any language. So the first of all we study about literary history.
2	AR 102	Pre-Islamic & Early Islamic Poetry	The Pre-Islamic & Early Islamic poetry is man important is Arabic language & literature from the beginning is has influenced the early and medieval period.
3	AR 103	Poetry of Umayyad and Abbasid period	Umayyad and Abbasid period is the golden age for Arabic language and eil, so the study of this period is more important.
4	AR 104	Prose of Abbasid Period	The Prose of usage in the very important in the field of the prose history.

Semester-II

<u>Sl. No.</u>	<u>Paper/Course</u>	<u>Title</u>	<u>Course Outcome</u>
5	AR 201	Functional Arabic	The translation and modern lessons are more important for trad and cultural relations with Arab and relevance in todays life and global scenario.
6	AR 202	Modern Poetry	The Arabic Poetry be modern writers have a significant role in the development of Arab society and Arabs people.
7	AR 203	Modern prose	The Arabic Poetry be modern writers have a significant role in the development of Arab society and Arabs people.
8	AR 204	Magama literature	Magama is a classical style of writing in Arabic which was development in Abbasid period.

Semester-III

<u>Sl. No.</u>	<u>Paper/Course</u>	<u>Title</u>	<u>Course Outcome</u>
9	AR 301	Grammar Rhetoric and Prosody	Grammar is the backbone of any language without it is impossible for any person to express his feelings.
10	AR 302	Arabic Novel	Novel is an important part of knowledge.
11	AR 303	History of Islam	This is very important part of knowledge.
12	AR 304	Literature forms movement of Arabic lit	Literary movement have an important role in the development of language and lit.

Semester-IV

<u>Sl. No.</u>	<u>Paper/Course</u>	<u>Title</u>	<u>Course Outcome</u>
13	AR 401	Criticism	Criticism is very important for values and standard of a literature.
14	AR 402	Indo-Arab Prose	The relation of Indian People with Arabs worlds is very old. This is a historical fact. This relation has affected both side of people.
15	AR 403	Group Papers A.B.C.D	That relation of group will compulsory A- Indo Arabic Lit B- Bihar School of Arabic lit C- Tofseer and Hadis lit D- Study of same scholars whose contribution in Arabic lit

16	AR 404	Viva-voce	
----	--------	-----------	--

Name of Program: M.A. English

S.N.	Course	Course Title	Course Outcome
1	CC-1	English Poetry from Chaucer to Milton	This course provides a panoramic structure of English poetry from Chaucer to Milton. It will enable the understanding and interpretation of poetic production in relation to its historicity, culture and inheritance drawn from classical Greek antiquity and diverse continental influences in relation to thematic patterns and forms.
2	CC-2	Shakespearean Drama	This course will enable the learners to gain knowledge of different dramatic forms used by Shakespeare. It will also enable students to revisit Shakespearean drama as a cultural production with relation to contemporary society and culture.
3	CC-3	15 th to 17 th Century Drama	This course offers a spectrum of different kinds of drama beginning with a Morality play and concluding with a woman dramatist who wrote Comedy of Manners.
4	CC-4	Late 17 th and 18 th Century Literature	This variety of selection of poetry, prose and novel is located within the Enlightenment project with its rationalizing processes impacting prosodic forms in poetry and anticipating a movement towards Romanticism. It will familiarize the students with the rising culture of the bourgeoisie.
5	CC-5	Film and Literature	The course on Film and Literature is to enable the understanding of the two most important cultural productions of our times. The course will examine films and texts as reflection and production of culture, ideology and history. It will encourage analytical skills related to visual literacy and its correspondences with the world framed as a structured text, familiarizing students with the techniques and grammar of films.
6	CC-6	19 th Century Poetry	The close of the eighteenth century saw a wide- moving and restless spirit of change and new creation in Europe. The French revolution was the most flamboyant manifestation of this spirit. The nineteenth century movement championed not only political liberty but also freedom from conventions, social and institutional restrictions. This course will make the students familiar with aesthetic responses to the quest of freedom, as aesthetic forms liberated themselves from the rigid orthodoxies of eighteenth century forms of poetry and their expression.
7	CC-7	Classical & English Criticism	This course will provide insight into the historical development of criticism from Aristotle to the advent of theory in the twentieth century.
8	CC-8	Indian and Western Literary Theory	Indian Literary Theory will engage students in understanding the intricacies of the craft of aesthetic production affecting a decolonized recovery of the importance of Indian aesthetic traditions. Contemporary Critical Theory is integral to how literary criticism is produced in the late 20 th and 21 st centuries and this form of critical literacy enhances a nuanced interpretation of literature's scope, content and form. This form of interdisciplinary critical literacy fosters different ways of

			thinking about and reading literature and culture. Students will find these exciting approaches immensely empowering in shaping thoughts on different ways in which literature may be read.
9	CC-9	19 th Century Fiction and non-fiction	The study of Victorian literature should foster the understanding of the gradual establishment of democracy, the utilitarian attitude on account of striking material prosperity, the expansion of the British Empire, the effects of the aftermath of the industrial revolution, and the impact of Darwin's theory of evolution that influenced the literature of the age.
10	CC-10	Modern and Contemporary Poetry	: The striking features of Modernism in literature are a spirit of disillusionment, reflections on the complexities of modern urban life, importance of the unconscious mind, recognition of impossibility of an absolute interpretation of reality and a feeling of ideological uncertainty. This course will help the students understand the intricacies of the aesthetic production of the age.
11	CC-11	Modern and Contemporary Drama	Modern drama is born out of responses to a changing world order, family structures, existential crisis and absurdity of life and totalitarian regimes and surveillance. Students will appreciate the social, historical, cultural and political matrix that was expressed in innovative forms using multiple dramatic techniques.
12	CC-12	Modern and Contemporary Fiction	This course will make the students understand fiction from different parts of the world covering multiple themes, styles, ideological persuasions and experiences.
13	CC-13	Indian Literature in English & in Translation	Decentering English literature from metropolitan Britain and the creation of visibility of Postcolonial literatures from India that is inclusive of identities of multiple constituencies is a significant national project. Students will be able to appreciate different genres of writing with which cultural affiliations are likely to be immediate.
14	CC-14	Linguistics	Study of Linguistics will enable the understanding of the structural and generative aspects of language, and social, cultural, historical and political factors through which linguistic and language based context is often determined
15	EC-1 (a)	New Literatures	Drawn from different geographical locations, cultures and people's aspirations, these writings encourage students to appreciate diversities across borders. These insights will foster understanding and empathy for people in an act of mediated experience of history, culture and politics.
16	EC-1 (b)	b)American Literature	In The American Scholar address, Emerson said 'For far too long have we listened to the courtly muses of Europe' ushering in a distinctive character of American writing across genres. This course offers a broad sample of American writings covering different forms of aesthetic expressions.
17	EC-1 (c)	Women's Literature	Avoiding any claims to 'universal women's experience', the content of the course includes a multicultural cross-section of women's experiences as women, authors and members of diverse social groups. The objective is to analyze race, class, social identity, ethnicity, age and the intersections of these categories
18	EC-1 (d)	16 th and 17 th Century Prose	This course will encourage students to appreciate Wisdom literature, and in terms of style, as fountainhead of English prose covering satire, political philosophy, utopian imaginary and a spiritual reawakening through prison literature.

19	EC-1 (e)	Cultural Studies	Cultural Studies is an interdisciplinary engagement with culture. It will develop among students the understanding of relationships between cultures as they intersect and interact in zones of contact. It will also make them aware of the power relations between the dominant and the disadvantaged, the manufacture of consent that ensures conformity. Stuart Hall states that Cultural Studies in Britain was born as a political project that analyzed post war advanced capitalist culture.
20	EC 2 (a)	Translation Theory and Practice	This course will explore different approaches to translation and help develop an understanding of the links between theory and practice. It will enable students to acquire an awareness of the wider cultural, ethical and professional contexts of translation and equip them to later specialize as professional translators
21	EC 2 (b)	Partition Narratives	The political partition of India was one of the greatest human catastrophes. In a few months millions of people migrated across borders amidst unimaginable inhuman atrocities when tolerance, compassion and respect broke down. One million people are estimated to have died and seventy five thousand women were abducted and violated. The barbaric acts that seemed incomprehensible in normal times drove many to silence, denial, rage, guilt and despair while collective amnesia often served as a survival strategies for individuals, communities and nations. The course attempts to address a hubris arising from our inability to learn from history.
22	EC 2 (c)	c) Writing in English from Bihar	Provincial writings in English as opposed to metropolitan writings in English has not received its due recognition. The course will endeavour to direct the gaze toward these writers to determine their contribution to Indian English literature carving out a cultural constituency of appreciable worth.
23	EC 2 (d)	European Fiction in English Translation	Course outcome: The objective of this course is to acquaint students with some key works of European fiction to broaden their literary horizon. Translation has become a foundation of literature in a globalised world through which access is gained to the many distinguished works in languages other than our own.

Name of Program: M.A. Maithili

Programme Outcome

The Maithili courses are formed in such a manner that after the completion of this course students will be acquainted with academic world of Maithili language and literature. This course also encourages the students for research work in this field. The students also get opportunity of employability in the academic like teaching, research and in administrative like UPSC and BPS field after the completion of this course.

Programme Specific Outcome

All the courses of PG Maithili Department are full of multi-characteristic language, translation, Maithili Literature & History, Drama etc. make the Maithili as a developed language. After the completion of M. A. programme in Maithili the students can get the employment in the field of translation and academic field. The students can get the job in research area in the Maithili. The students can get the employment in UPSC, BPSC and Institute of Indian Language (Mysore) and in the Universities

<u>Sl. No.</u>	<u>Paper/Course</u>	<u>Title</u>	<u>Course Outcome</u>
1	Mai 101	Maithili sahyak Ethihās (Adikal aa Madhyakal)	During the period of 1 st Semester i.e. (July to December 2017) the teaching of this paper is completely done according to the syllabus. Student received the main themes of this paper and too interest. Student studied the historical social and environmental aspects of Maithili Prose, particularly during the ancient Maithili prose.
2	Mai102	Bhasa Vigyan	This paper was taught analytically according to the syllabus and was completed fully. Student were very keen interested to understand the phonetics and semantic aspect of Maithili linguistics. Language is necessary for each and every person. It affects society and its environment student studies all these things and were inclined to do research on Maithili linguistics.
3	Mai 103	Adharbhut Bhasa	This is the study of Moral Science on the basis of Vidyapati's Sanskrit text as well as text written in Arahatta language. The course of this paper is fully complete. The paper encouraged the students to take interest in doing research on this paper.
4	Mai 104	Muktak Kavya	This paper is related to Maithili Blank verse (Muktaka Kavya) in which students read about modern poet. This paper has also been completed by the related teacher. The teacher showed the impact of these verses on Social Environment and human life too.
5	Mai 201	Madhyakalin Natak	This paper is related to Maithili dramas of Middle age, which were prominent in the regions of Mithila, Assam and Nepal. The paper completed fully according to the syllabus. It is very interesting paper which impacts human life and society.
6	Mai 202	Gadya	This paper is related to the Modern writers, in which the concerned teacher taught essays written by these writers. Student came to know about the writers and their writings according to the syllabus. This paper provide scope for research works.
7	Mai 203	Kavyashastra	This paper studies the Maithili poetics. The teacher completed the paper according to the syllabus. Students were interested to know the themes of this paper which impacts human life society and the environment.
8	Mai 204	Samlochna Avam Patra- Patrika	This paper is the study of Maithili journalism and criticism. Critical Study is very important these days. The teacher taught it according to the syllabus and completed fully. He pointed out the significance of criticism and journalism in human life and social environment.
9	Mai 301	Maithili shaityak Ethihās (Aadharik Kal)	The paper is related to the modern history of Maithili literature. It is important paper which encouraged students to do research in this field. The teacher completed the paper fully according to the syllabus.

10	Mai 302	Katha o Upanyas	This paper is related to the Maithili novels and story writings. The teacher completed the paper fully according to the syllabus. Students were interested to know the themes of Maithili novels and story writings which impact the human society and its environment.
11	Mai 303	Aadhunik Maithili Natak Avam Akanki	The paper is related to the modern Maithili drama and one act play. The teacher completed the course according to the syllabus and encouraged students to do research in this field.
12	Mai 304	Prattand Kavya	This paper is related to the Maithili epics which gives outline of important Maithili epics according to the syllabus. The teacher completed the paper fully and students were keen interested to work on Maithili Epics deeply.
13	Mai 401	Anuhad Vigyan aa Paschatya Aalichana Sidhant	Translation is very important section of any literature including Maithili. In this paper the teacher pointed as how to translate a language. It is the core of human life. Everyone needs it.
14	Mai 402	Lok Sahitya	Folk literature give lives to the man and society, particularly Maithili folk literature is very sweet and living. Students were taught about it according to the syllabus. There isa wide scope of doing research on fold literature in Maithili. It impacts society, environment and human life too.
15	Mai 403	(K) Vidyapati	This is an optional paper related to Vidyapati only. Students were taught about Vidyapati's vivid literature according to the syllabus which was fully completed. There is a wide scope to do research on this paper.
16	Mai 404	(Kha) Yatri	This is also on optional paper related to the Modern literature (Yatriji) yatriji was progressive poet who wrote poems, novels etc. He has depicted Maithili culture and civilization in his works. The teacher portrayed Yatriji and his contribution before students according to the syllabus.

Name of Program: M.A. Urdu

Programme Outcome

The programme enables the students of Urdu to be introduced with Indian age-old heritage, accumulating in the last forty centuries, exercising inexpressible impact on the life and culture of the Indians with the explicit aim of inspiring as well as uplifting qualitatively each and every one, directly or otherwise concerned with.

- 1) Critical Thinking: - Take informed actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions (intellectual, organizational and personal) from different perspectives.
- 2) Social Interaction: - Elicit views of others, mediate disagreements and help reach conclusions in group settings.
- 3) Effective Citizenship: - Demonstrate empathetic social concern and equity-centered national development, and the ability to act with an informed awareness of issues and participate in civic life through volunteering.
- 4) Ethics: - Recognize different value systems including their own, understand the moral dimensions of their decisions, and accept responsibility for them.
- 5) Self-directed and Life-long Learning: - Acquire the ability to engage in independent and life-long learning in the broadest context of socio-technological changes.

Programme Specific Outcome

Urdu is a very rich language of India. It is a medium to know about ancient Indian history, culture, religion, social life through its text. The academic programmes of Urdu courses are designed to enhance not only professional skill but also develop an understanding of rich heritage and dynamic prevalent scenario of India through various Urdu texts.

- 1) Develop a strong concept of Urdu, philosophy and literature.
- 2) Enhance communication skill- Listening, Speaking, Reading and Writing.
- 3) Practice of textural analysis of Urdu & other text endows them to develop a critical perspective to assess existing research through careful reading, analysis and discussion.
- 4) Reasonable understanding of multi-disciplinary relevance of literature of Urdu.
- 5) Contribute to national development.

Course Outcome

Sl. No.	Paper/ Course	Title	Course Outcome
01.	CC- 1	Dastan	To understand the initial phase of Urdu prose and writing style of Urdu fiction.
02.	CC- 2	Novel	To learn the history and art of novel and its development from 19 th century to 20 th century
03.	CC- 3	Mukhtasar Afsana	To learn the history and art of Urdu short stories and its development from 19 th century to 20 th century

04.	CC- 4	Ghair Afsanvi Nasr	To understand art and history of non-fictional prose like Sawaneh, Khudnawisht, Tanz-o-Mazah, Khutoot, Khaka Nigari etc.
05.	AECC-1	Environmental Sustainability and Swachha Bharat Abhiyan activities	To learn the environmental ethics, ecosystem, bio-diversity and its conservation, development and its adverse effects on the environment and importance of programmes like Swachha Bharat Abhiyan.
06.	CC- 5	Urdu Ghazal	To understand the history and art of the Urdu Ghazal from 18 th century to 20 th century with special reference to Wali, Meer, Ghalib, Shad etc.
07.	CC- 6	Urdu Nazm	To understand the history and art of the Urdu Nazm from 18 th century to 20 th century with special reference to Nazeer, Akbar, Majaz, Josh, Faiz, Jameel etc.
08.	CC- 7	Masnavi	To understand the history and art of Masnavi with special reference to Qutub Mushtari, Sahrul Bayan, Gulzar-e-Nasim which reflect the culture and civilization of medieval India.
09.	CC- 8	Qaseeda & Marsia	Qaseeda and Marsia are two important genres of Urdu which reflect the history of early Islamic period and Darbari culture of medieval India and also to understand the history and art of Qaseeda & Marsia
10.	CC- 9	Tahqeeque	To understand the methodology and technique of research in Urdu
11.	AEC-1/ SEC-1	Ability Enhancement Course/ Skill Enhancement Centre	To provide an overview of the law and policies relating to environment both at the national and international level
12.	CC- 10	Tanqeed	To understand the history and techniques of criticism in Urdu with special reference to Hali, Shibli, Kalimuddin Ahmad etc.
13.	CC- 11	Tahreekat-o-Rujhanat	To understand the history of different movements like Fort William College services for Urdu, Aligarh movement, Progressive movement, Modernism and post-modernism in Urdu.
14.	CC- 12	Bihar ka Adabi Dabistan	Bihar School of Urdu literature is very important centre in Urdu history. The purpose of this paper is to learn the history and contributions of Bihar School towards the development of Urdu literature from 19 th century to till date.
15.	CC- 13	Lesaniyat aur Arooz-o-balaghat	To understand the art and techniques of Arooz in Urdu poetry and history of Urdu linguistic with special reference to linguistic families, relations between Hindi & Urdu and theories about origin of Urdu language.
16.	CC- 14	Study of Iqbal & Ghalib	To know the biography and contributions of two renowned poets, Iqbal and Ghalib and the especialities of their poetry.

17.	AECC- 2	Human Values and Professional Ethics and Gender Sensitization	To understand the variety of moral issues, principles of ethics, gender justice and human rights etc.
18.	EC 1 (A)	Asari Adab	Any one of the papers mentioned can be opted by the candidate for their skill development.
	EC 1 (B)	Sahafat	
	EC 1 (C)	Tarjuma Nigari	
	EC 1 (D)	Taswwuf	
	EC 1 (E)	Drama	
19.	EC- II	Project Work and Practical	To make a project on the topic given by the department which enables them to present their views on any topic by gathering information from different sources as well as from field work.
20.	GE- 1/ DSE	Generic Elective course	The student has been given an option to choose any subject from the faculty for their inter-disciplinary knowledge.

Name of Program: M.A. Bengali

Programme Outcome

Bengali is our Mother Language. There is a great opportunity to know the History of its Language and Literature, Linguistic. This course has the potential to be successful in the workplace in the future by acquiring good Bengali writing and speaking ability. This Programme will bring knowledge of Bangla Language, Literature, history, society, politics, religion, literary movements etc. Besides, Increase knowledge about prachin o Modhya zuger Kabya o Kobita , Drama of 19th Century , able to briefed discuss Comparative study of other Literature , also known about drama, theatre and stage , Rabindra Sahitya , Sharat Sahitya , etc. A compete idea about folklore and culture will be born through this programme.

Different in-depth knowledge of higher subjects will help students to study in future. It is possible through this course to be successful in various competitive examination like NET, SET, SLTET and Civil Service etc.

Programme Specific Outcome

Develop a strong concept of Bengali literature & Bengali linguistics (old, Medieval , Modern age) . The students should possess the fundamental knowledge of Bengali Rhythms, Alonkar, ‘Baishanab Padabali’, Translate Literature, Mangal Kabya, etc. . Students are enabled to transfer and apply the acquired concepts and principles to study different branches of Bengali literature that is fiction, short story, essay and poetry. Understand the principles and application of classification of Drama, Novels, and Poetry. Develop a conception of aesthetic sense and understand the interdisciplinary approach.

- knowledge and understanding of basic Bengali grammar and Bengali vocabulary.
- knowledge and understanding of the appropriateness of basic Bengali structures and expressions in a given context
- knowledge and understanding of Drama, Novel, Short Story, Poetry of 19th & 20th century.
- knowledge and understanding of History of Bengali Literature.
- knowledge and understanding of basic Bengali linguistics.
- Increase conception of Bengali fiction and short story, essay and novel.
- Understanding about the classification of essay, novel, poetry and criticism.
- knowledge and understanding of comparative study Bengali & Bihar Literature.

Semester – I

Sl. No	Course Code	Title of the Paper	Course Outcome
1	CC-01	History of Bengali Literature (Prachin & Madhyug)	Learn about ancient and medieval history in Bengali literature. Charyapada, translation literature, Mangalkavya, Vaishnapadavali Shaktapadavali, knowledge about the importance and significance of Bengali literature will increase. Ancient and medieval Bengali social culture will gain a better idea of how the political context influenced Bengali literature.
2	CC-02	History of Bengali Language	To Know the identity of different language families of the world. By dividing the age of Bengali language, knowledge about the origin and development of Bengali language will increase.
3	CC-03	Prachin O Modhya YougerKavya	The nature, features and importance of ancient and medieval poetry will be known in Bengali literature. Learn about the different poets of Shakta Padavali and their poetry, as well as the history of the origin of Mangalkavya and how medieval mythology prevailed in literature and how a new literary genre was created.
4	CC-04	Unobinsho Shatabdir Kavya	Knowledge of how nineteenth-century poetry changed the genre of medieval poetry will grow. By changing the traditional way of thinking in literature, how literary epics are born, will also gain an idea about lyric poetry, romanticism, the nature of the universe.

Semester – II

Sl. No	Course Code	Title of the Paper	Course Outcome
5	CC-05	Drama of 19 th Century	Tragedy, mythology, social will also be able to know about the different categories of drama. Gain a complete idea of the history of the origins of nineteenth century drama, playwrights, various plays and the history of theater. The drama that changes people's thinking will be reflected in the learning through this paper.
6	CC-06	Bankim Chandra ebong Bankimuttor Uponyas	A clear idea of the origin and evolution of the novel will emerge. Bankimchandra and post Bankimchandra will know about the next novel, the novelist. Men's reluctance to self-control and having a wife but being addicted to other women and its tragic consequences can be seen in his novels also regional novels, river centric novels will increase the knowledge about how they are involved in human life.
7	CC-07	Rabindra Sahitya	Knowledge about plays, essays, novels, poetry will increase in Rabindra Sahitya. In Bengali literature, Rabindranath is like the sun, in his light Bengali literature is enlightened and it is rich.
8	CC-08	Biharer Anchalik Uponyas	A link between Bengali and Bihar literature can be found. Learning will reflect on how much Bengali literature in Bihar influenced Bengali literature and will be able to discuss comparatively between these two literatures.
9	CC-09	Bangle Natya Sahitya	You will know the origin and development of Bengali drama. He will also be able to understand the dynamic nature of the playwright and the play in the modern era.

Semester – III

Sl. No	Course Code	Title of the Paper	Course Outcome
10	CC-10	History of Bengali Literature (1800-1950)	Learn about the history of modern Bengali literature. The wealth of detailed knowledge about the diverse genres of literature that have evolved and evolved from ancient and medieval literature and enriched the storehouse of literature is growing.
11	CC-11	History of Bengali Language	By realizing the importance of grammar in Bengali language, one will be aware of the phonological and morphological features of the language and will also understand the speed and nature of modern Bengali language.
12	CC-12	Baishnab Padabali ebong Chaityanya Charitamrit	Learn about various poems and poets of Vaishnava verses. Chaitanyabiographical literature is a fancy addition to Bengali literature will get a clear idea about it.
13	CC-13	Kabya Tattwa ebong Prabandha Sahitya	Know what the article means, features and classification. Bankimchandra, Pramatha Chowdhury's essay will be aware of the nature, content and style of the essay, along with the idea of Western poetry.
14	CC-14	Sharat Sahitya	As a novelist, complete knowledge about Saratchandra will increase. Hindi writer Munshi Premchand will get an idea of the literary relationship with Sarat Chandra Chattopadhyay and will be able to have a comparative discussion about the two writers.

Semester – IV

Sl. No	CourseCode	Title of the Paper	Course Outcome
15	EC-1	Bangla o Hindi Sahitya : Shilipio Sholpo, or Bangla sahyta o Poribesh , or Nodi o bangle uponyas .	Learn to compare discussions between Bengali and Hindi literature and to establish links between the two literatures. Or you will get a clear idea of what a river centric novel is and how the novel influences human life in a literary context.
16	EC-2	Gobeshona Sandharva or Adhunik Bangla Kobita	Know about the dynamics and origin and development of modern Bengali poetry or increase knowledge about research context.
17	DSE-1 or	Bangla Uponyase Mahila Ouponyasik	The knowledge of women novelists in Bengali literature and how much their novels enriched Bengali literature will increase. They chose society, social prejudice, against injustice as the main theme of their literature
18	GE-1	Lakasahtya o Sanskriti.	Folklore is a prominent branch of Bengali literature. Bengalis' own resources are folk culture and folk literature. This prominent genre of literature on average adopts the Puranas, a long-standing culture of various reforms. Folklore and culture are rooted in the origin and development of the nation.

Faculty of Social Sciences

Name of Program: M.A. Sociology

Programme Outcome

Initially, Psychology was a pure science, unconcerned with the application & usefulness of Psychology to the people, but with William James (1890) stepping into the field Psychology converted into utility-driven science with massive use of psychological knowledge & principles derived from its research, in solving problems of daily lives. It is a field that everyone can and should use throughout life. It offers a fascinating body of research - derived knowledge about human behavior it also provides a new way of looking at the world and ourselves.

Programme Specific Outcome

Keeping in mind the four parameters mentioned here. Some instance of programme specific outcomes of our field of PSYCHOLOGY is mentioned below:

1. Use of cognitive-behavioral techniques in pain management.
2. With knowledge of sensory processes, the Psychology have improved the usefulness of virtual technology.
3. Psychologists studying state of consciousness are suggesting ways to counteract “drowsy driver” syndrome.

Besides the above mentioned some recent outcome, Psychologists are giving specific. Psychologist are consistently working in the area of de-addiction, depression, Child-abuse, Teen violence, aggression, anger management, stress-management. We are using operant conditioning principles, Schedules of reinforcement in changing and shaping behavior, We have also a very effective motivational strategies.

Semester-I

Sl. No.	<u>Paper/Course</u>	<u>Title</u>	<u>Course Outcome</u>
1	PSY M 101	Fundamentals of Basic Psychological Process	Besides giving idea of Psychological & Psycho-physical methods, this paper gives knowledge about 3 basis psychological process-attention motivation, emotion. Hence has great academic & Research value
2	PSY M 102	Cognitive Psychology	Exclusively focused on all cognitive processes-perception, thinking (convergent & divergent thinking) Remembering -forgetting problem-solving, learning, intelligence, hence great academic & Research potentiality, Application ranges from promotion of cognitive health, creativity, concept learning training to creation of artificial intelligence.
3	PSY M 103	Research Methodology	The paper has greatest contribution in our progression toward scientific knowledge about quickly changing human-behavior-a difficult task. It explores develops new methodology for Research contact with people is the only way to collect data in our science hence it develops Environmental & Social sensitivity.
4	PSY M 104	Social Psychology	How people perceive and influence one another and that is what social Psychology is all about. It is all about your life, your beliefs, your attitudes, your relationship hence great research potentiality & applications scholars of other field are also using principles of Social influence, social thinking and social relation in promoting health, peace & socially desirable behavior.

Semester-II

<u>Sl. No.</u>	<u>Paper/Course</u>	<u>Title</u>	<u>Course Outcome</u>
1	PSY M 201	Neuro Psychology	This paper throws light how the brain & our body controls our behavior, thinking & emotion. It encourages Research on brain functioning through various methods. It suggests ways how to help Physically disability person.
2	PSY M 202	Psychopathology	This paper deals with all types of psychopathological problems and how to deal with such problems. This paper has greater employability in treating persons with mental problem.
3	PSY M 203	Psychological Statistics	This paper is specifically designed to train & guide a scientific research to deal with his data derived from researches. It helps all I understanding cause effect relationship between events. A person with good command in paper has ample employability scope in Research Institutes.
4	PSY M 204	Laboratory Experiments	This paper has awarded psychology the status of science enabling behavioral scientists to explore & verify the resumed relationship between 2 events. Again, this paper has employability scope in Research Institute.

Semester-III

<u>Sl. No.</u>	<u>Paper/Course</u>	<u>Title</u>	<u>Course Outcome</u>
1	PSY M 301	Personality Theories	A very young field of Psychology to here scientists are struggling to unravel the mystery of UNIQUENESS of a person who we are & how se got the that way. How personality develops making each person different from every other person in the world. There is not yet one single explanation. This paper through its brief clippings of each perspective opens up the whole world of applications-environmental, social and scientific.
2	PSY M 302	System and Theories of Psychology	It describes how the parents-philosophy & Physiology gave birth to a new science experimental Psychology it Liepziq laboratory in Germany, also describes evolution of contrasting perspectives in Psychology. Looking back at the past helps in understanding future, So the paper has immense significance, although no research & employability value.
3	PSY M 303	Psychometrics	Here, the mission is to develop skill in constructing & using different type of psychometric

			assessment techniques so that one can tap individual differences in intelligence, aptitude, interest and personality- a vital data for guidance & counselling purpose, selection purpose (into any engineering etc) DRDO (Bangalore) especially employ many Psychometrician, employment opportunity in Industry & Educational settings.
4	PSY M 304	Psychological Testing	Knowing difference among individuals is such a vital information that this paper is especially designed to acquaint them some well known tests in psychology, namely projective tests & other tests also persons well versed with there techniques can do research on personality abnormalities and can be employed in clinical settings.

Psychology (Group A) Elective Papers

Semester-IV

<u>Sl. No.</u>	<u>Paper/Course</u>	<u>Title</u>	<u>Course Outcome</u>
1	PSY M 401	Organizational Behavior (OB)	This paper is dedicated to better understanding & managing people at work. Due to link with diverse disciplines it has rich academic heritage OB is both research & application oriented but not a gateway to employment but anyone who aspires to thrive (not just survive) in organization must study OB- team building, communication, influencing & leading other, conflict handling, persuasion & negotiation skill & other OB related skills are taught here.
2	PSY M 402	Occupational Psychology	A branch which germinated through academic lecture on advertising, got a big sprit through famous Hawthorne Research, has now established itself as a 100% applied branch which studies human behavior in work setting. Psychologists are needed in industrial setting for assistance in selection placement, performance appraisal, incentive determination & also to address problems of accidents, fatigue, morale, motivation, job satisfaction, Engineering Psychologists are engaged in designing of man machine system.
3	PSY M 403	Consumer Behavior	Consumer Behavior is the study of what people buy, when they buy & why they buy. Research on consumer's mentality is the back-bone of this paper. People engaged in manufacturing & marketing can employ consumer psychologist for their business benefit.
4	PSY M 404	Research Project	

Psychology (Group B) Elective Papers**Semester-IV**

<u>Sl. No.</u>	<u>Paper/Course</u>	<u>Title</u>	<u>Course Outcome</u>
1	PSY M 401	Clinical Psychology	A unique paper as it is not confined to theory building and research rather it is directly concerned with alleviating intellectual, emotional & Psychological mal adjustment. Clinical Psychologists are in great demand today in hospitals, home, educational setting. They are also engaged in research & teaching professions.
2	PSY M 402	Psychotherapies	This paper clearly reflects as Psychology's commitment to the use of science as a basis for practice/applications. The paper is dedicated to all those professionals and students as well who are investing their life in helping people suffering from mental disorders. It presents a whole range of therapeutic procedures-Psychodynamics, humanistic, behavior& cognitive therapies, individual and group therapies. The main focus of Research in this area is toward assessing the effectiveness of a therapy. Hence experimental Research is more popular.
3	PSY M 403	Life Span Developmental Psychology	It contains a vast reservoir of knowledge about all types of developmental changes in human beings biological, cognitive, social, emotional, moral, language that occur from pre-natal period till death. All sorts of techniques are used here for data collection, most significant is longitudinal studies. Beside having an impressive academic background its application to our environment social life is unlimited. Helps us those professional careers that involves working with children, i.e. teaching, nursing, social work also useful for parents & family.
4	PSY M 404	Project	

Psychology (Group C) Elective Papers**Semester-IV**

<u>Sl. No.</u>	<u>Paper/Course</u>	<u>Title</u>	<u>Course Outcome</u>
1	PSY M 401	Applied Social Psychology	As the name suggests the chief mission of their paper is that through academic discourse sensitize students towards major problems of our society & find solutions through Research to train students to apply basic principle from social Psychology in solving burning problems of the society.
2	PSY M 402	Sports Psychology	Sports Psychologist have great employment opportunity in sports world where they can give experts advise on many issues- how to identify sports talent, nurture & train them, motivate them, up-lifting morale of losing teams. Improving performance, fostering team-feelings, discipline & morality- these are only few examples ample scope of using psychology in sports. There is a reservoir of research- based findings on sports.
3	PSY M 403	Health Psychology	Health Psychology is the study of the relation between psychological variables and health. Research conducted here support the theory that both mind & body are equally important determinants of health and illness on the basis of their intensive research academic discourse, psychologist have been able to design preventive strategies against cancer, AIDS addiction of all types. We have also well-designed coring strategies & for promotion of healthy life style employment opportunity in health sector.
4	PSY M 404	Research Project	

Name of Program: Master of Social Work

Programme Outcome

M. A. in Social work is highly preferred in both Governmental and Non-governmental sectors as project Director, Program Director, Program Officer, Program coordinator, Assistant Coordinator, Program Assistant, Project Officer, Program Manager, Training coordinator, Research Officer, Resource mobilizer, Area Manager etc.

Semester-I

<u>Sl. No.</u>	<u>Paper/Course</u>	<u>Title</u>	<u>Course Outcome</u>
1	MSW 101	History and Philosophy of Social Work	Understanding of Philosophical background of any discipline provides sound theoretical perspectives to understand the problems
2	MSW 102	Sociology for Social Work	Without understanding the functioning of society carrying our social work may not prove fruitful.
3	MSW 103	Research Methodology in Social Work	Carrying out the researches alone can keep the students upto date with the various problems of the society.
4	MSW 104	Social Case Work	To have practical and qualitative understanding of the various problems.

Semester-II

<u>Sl. No.</u>	<u>Paper/Course</u>	<u>Title</u>	<u>Course Outcome</u>
5	MSW 201	Disaster Management	Understanding the problem reduces the vulnerability arising out of various kinds of disaster.
6	MSW 202	Human and Social Development	Holistic understanding of the concepts of development dispels various types of misgiving.
7	MSW 203	Gender issues and Social Work	Gender sensitization in the need of the hour to remove the age-old patriarchal prejudices.
8	MSW 204	Field work-based dissertation viva-voce	To have practical understanding of the various problems of society.

Semester-III

<u>Sl. No.</u>	<u>Paper/Course</u>	<u>Title</u>	<u>Course Outcome</u>
9	MSW 301	Social Pathology Population Studies	Helps in eradicating various types of deep-rooted social ills and making social a better place to stay.
10	MSW 302	Statistics and Computer application	Adds to the skill of the students to analyze the data in a more scientific way.
11	MSW 303	Social welfare in Administration and Social Action	Welfare state like India professional knowledge helps in improving the delivery systems of various schemes.
12	MSW 304	Social Group Work and Community Organization	To develop community awareness for Group Social Work in a better way.

Semester-IV

Sl. No.	<u>Paper/Course</u>	<u>Title</u>	<u>Course Outcome</u>
13	MSW 401	Social Policy and Planning	The better understanding of the policy and planning helps in formulating proper programmes & its implementation.
14	MSW 402 Gr-A	Human Resource Management	Modern society is basically a management society where HRM matters much.
15	MSW 402 Gr-B	Rural Development	India still lives in villages hence understanding the models of rural development in urgently required.
16	MSW 403 Gr-A	Industrial Relations	For a healthy atmosphere in any industrial organization understanding of I. R. and its dynamic of essential.
17	MSW-403 Gr-B	Urban Development	Urbanization poses new challenges everyday hence its scientific understanding helps in solving the issues.
18	MSW-404	Field work-based dissertation and Viva-voce exam	To have first hand knowledge and understand of the various social problems.

Name of Program: M.A. Geography

Programme Outcome

Programme Outcome:

- Employed in Higher Education, Professor/ Lecturer
- Work as Researcher
- Work in Town Planning Department
- Research
- School teacher
- Administration etc.

Programme Specific Outcome:

- Pursue higher study in Geography
- Demography
- Remote Sensing & GIS
- Research & Planning etc

Course Outcome:

Sl.No	Name of the Course	Course Code	Learning Outcome
1	Geomorphology	CC-1	<ul style="list-style-type: none"> To gain knowledge complexity of landforms over the earth's surface Study of Fluvial Morphology Placement as Geologists, Assistant Professors Landscape analyst
2	Climatology & Oceanography	CC-2	<ul style="list-style-type: none"> Ability to interpret and analyze atmospheric characteristics and weather conditions which helps in placement as Climatologist, Climate change analyst.
3	Representation and Analysis of Geographical data	CC-4	<ul style="list-style-type: none"> Induces capacity to analyze Data and gain expertise as a Cartographer and data analyst
4	Regional Planning and Rural Development	CC 5	<ul style="list-style-type: none"> Acquire knowledge regarding different tools, techniques and theories of regional planning related to Agricultural Planning Wetlands, Arid regions. Hilly regions Drought and Flood region Planning Urban town planning and Slums To be placed as Rural Development Officer or planner, Town Planner etc
5	Environment and Disaster Management	CC6	<ul style="list-style-type: none"> To understand Environment in a systematic way and ability to work as a Consultant in different agencies, Environmental Pollution Analyst, Disaster Task Force, Emergency Manager
6	Resource and Economic Geography	CC7	<ul style="list-style-type: none"> Acquire knowledge of the fundamental and modern issues related to resource and economic sectors Inculcate geographical knowledge towards economic development and resource sustainability Resource planning

7	Geography of India	CC 8	<ul style="list-style-type: none"> To gain detailed physical, economic, socio-cultural and demographic dimensions of India which helps to develop administrative skills
8	Cartographic Techniques	CC9	<ul style="list-style-type: none"> To develop capacity of preparing and analyzing various maps and diagrams in spatial-temporal context To be placed as Data Analyst and Cartographer in different agencies
9	Quantitative Techniques and Research Methodology	CC 10	<ul style="list-style-type: none"> To acquire research skills and acquaintance in statistical techniques Inculcate knowledge for doctoral research and gain expertise for Research Officer/ Project Manager in different institutions/agencies
10	Remote Sensing and Geographical Information System	CC 11	<ul style="list-style-type: none"> To develop skills for image interpretation Digital Mapping and data analysis and management, To get engaged as GIS Data analyst
10	Land Use and Agriculture Geography	CC-13	<ul style="list-style-type: none"> Inculcate geographical knowledge of Agriculture and allied activities for research To foster ability for agricultural planning
11	Instrumental Surveying & GPS	CC-14	<ul style="list-style-type: none"> To have acquaintance with various techniques of surveying and modern tools related to Remote Sensing and GIS inculcate skills as Surveyor/Placement as Amin
12	Urban Geography	EC-1-A	<ul style="list-style-type: none"> Ability to interpret and analyze urban land use and problems related to urban development and slums work in the field of Town /urban Planning
13	Population Geography	EC-1-C	<ul style="list-style-type: none"> To acquire knowledge regarding population dynamics and its problems placed as Demographer in Population Census Office,
14	Dissertation and Project Work	EC -2	<ul style="list-style-type: none"> Project Officer/ project manager/ research