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PROGRAMME OUTCOMES (POs)

Sanjeev Agarwal
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SCHOOL OF COMPUTER SCIENCES AND APPLICATIONS

Programme Name: Bachelor of Technology (Computer Science & Engineering)

PO1: Apply the knowledge of basic sciences and fundamental engineering concepts in solving global engineering problems

PO2: Identify and define engineering problems, conduct experiments and investigate to analyze and interpret data to arrive at substantial conclusions.

PO3: Propose appropriate solutions for engineering problems complying with functional constraints such as economic, environmental, societal, ethical, safety and sustainability.

PO4: Perform investigations, design and conduct experiments, analyze and interpret the results to provide valid conclusions.

PO5: Select/develop and apply appropriate techniques and IT tools for the design & analysis of the systems.

PO6: Give reasoning and assess societal, health, legal and cultural issues with competency in professional engineering practice.

PO7: Demonstrate professional skills and contextual reasoning to assess environmental/societal issues for sustainable development.

PO8: Demonstrate Knowledge of professional and ethical practices

PO9: Function effectively as an individual, and as a member or leader in diverse teams, and in multi-disciplinary global situations.

PO10: Communicate effectively among engineering community, being able to comprehend and write effectively reports, presentation and give / receive clears instructions.

PO11: Demonstrate and apply engineering & management principles in their own / team projects in multidisciplinary national and international environment.

PO12: Recognize the need for, and have the ability to engage in independent and lifelong learning

Programme Name: Master of Technology (Computer Science & Engineering)

PO1: An understanding of the theoretical foundations and the limits of computing.

PO2: An ability to adapt existing models, techniques, algorithms, data structures, etc. for efficiently solving national and international problems.

PO3: An ability to design, develop and evaluate new computer based systems for novel applications which meet the desired need so find us try and society.

PO4: Understanding and ability to use advanced computing techniques and tools.

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PO5: An ability to undertake original research at the cutting edge of computer science & its related areas.

PO6: An ability to function effectively individually or as a part of a team to accomplish as target goal.

PO7: An understanding of professional and ethical responsibility.

PO8: An ability to communicate effectively with a wide range of audience at national or international environment.

PO9: An ability to learning dependently and engaging lifelong learning.

PO10: An understanding of the impact of IT related solutions in an economic, social and environment context.

Programme Name: Master of Computer Applications (MCA)

PO1: **Computational Knowledge:** Apply knowledge of computing fundamentals, computing specialization, mathematics, and domain knowledge appropriate for the computing specialization to the abstraction and conceptualization of computing models from defined problems and at Local/Global level requirements.

PO2: **Problem Analysis:** Identify, formulate, research literature, and solve complex computing problems reaching substantiated conclusions using fundamental principles of mathematics, computing sciences, and relevant domain disciplines.

PO3: **Design /Development of Solutions:** Design and evaluate solutions for complex computing problems, and design and evaluate systems, components, or processes that meet specified needs with appropriate consideration for public health and safety, cultural, societal, and at Global level environmental considerations.

PO4: **Conduct Investigations of Complex Computing Problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

PO5: **Modern Tool Usage:** Create, select, adapt and apply appropriate techniques, resources, and modern computing tools at Local/Global level to complex computing activities, with an understanding of the limitations.

PO6: **Professional Ethics:** Understand and commit to professional ethics and cyber regulations, responsibilities, and norms of professional computing practice at Local/Global level.

PO7: **Life-long Learning:** Recognize the need, and have the ability, to engage in independent learning for continual development as a computing professional at Global level.

PO8: **Project management and finance:** Demonstrate knowledge and understanding of the computing and management principles and apply these to one's own work, as a member and leader in a team, to manage Local/Global level projects and in multidisciplinary environments.

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PO9: Communication Efficacy: Communicate effectively with the computing community, and with society at large, about complex computing activities by being able to comprehend and write effective reports, design documentation, make effective presentations, and give and understand clear instructions.

PO10: Societal and Environmental Concern: Understand and assess societal, environmental, health, safety, legal, and cultural issues within local and global contexts, and the consequential responsibilities relevant to professional computing practice.

PO11: Individual and Team Work: Function effectively as an individual and as a member or leader in diverse teams and in multidisciplinary environments.

PO12: Innovation and Entrepreneurship: Identify a timely opportunity and using innovation to pursue that opportunity to create value and wealth for the betterment of the individual and society at Local/Global level.

Programme Name: Bachelor of Computer Applications (BCA)

PO1: Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

PO2: Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO3: Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

PO4: Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

PO5: Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

PO6: The engineer and society at Local and Global lavel: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

PO7: Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development at global level.

PO8: Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice at national level.

PO9: Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10: Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and

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write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

PO11: Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage Local/Global level projects and in multidisciplinary environments.

PO12: Lifelong learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of Global level technological change.

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SCHOOL OF AGRICULTURAL SCIENCES AND ENGINEERING

Programme Name: Bachelor of Technology Agricultural Engineering

PO1: Apply the Knowledge of Mathematics, Science, Engineering fundamentals, and an engineering specialization to the solution of complex engineering problems for International level.

PO2: Design solutions for complex engineering problems and design system components or process, and engineering sciences for local need.

PO3: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations for National level.

PO4: Analytical and critical thinking abilities for data- based decision making for International level.

PO5: Ability to develop value based leadership ability for National level.

PO6: Determine the entrepreneurial for global Level.

PO7: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments for International level.

PO8: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change for National level.

PO9: Ability to understand, analyze and communicate global, economic, legal ethical aspects of Technology for global Level.

PO10: Ability to lead themselves and others in the achievement of organizational goals, contributing effectively to a team environment for International level.

Programme Name: Master of Science Agriculture (Agronomy)

PO1: Apply the theoretical and conceptual knowledge obtained at graduation level in the real field conditions at local, national and international levels.

PO2: Deeply elaborate various fundamental concepts learned at graduation level for local and national levels.

PO3: Learn the advanced production techniques of various agronomic crops as well as their commercial utilization including import and export scenario for national, international and global prospects.

PO4: Apply the concepts of crop rotation, inter cropping and multi cropping to select the best possible crop and other enterprise combination at local and national levels.

PO5: Understand the effect of various biotic and abiotic factors on crop production and the remedies associated with it at local and national level.

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PO6: Understand the basic principles of experimental design and learn the basics of field data collection, it's analysis and interpretation to draw valid results and conclusions for global level.

PO7: Understand the importance of integration of different possible ways of nutrient management, weed management and pest management to maximize the profit as well as to maintain ecological balance for local, national and international platforms.

Programme Name: Master of Science Agriculture Horticulture (Floriculture and Landscaping)

PO1: Research based subjects such as scientific writing and ethics help students to build research aptitude for local, national, international and global needs.

PO2: The curriculum of this course lays strong emphasis on in-depth knowledge of theoretical and practical aspects for managing emerging issues in commercial flower production by highlighting the usage in protected cultivation and good agriculture practices in floricultural crops for local and national levels.

PO3: Seminar based course develop presentation and technical skills in students for national and international platforms.

PO4: A candidate who possesses a M.Sc. Ag. degree in horticulture with specialization in Floriculture and Landscaping can be benefitted with an enormous number of job profiles under public and private sectors at local, national and international levels.

PO5: A growing export industry, increasing product demands and advances in horticultural technology is making this an extremely lucrative career for local, national and international prospects.

PO6: Students can work in a wide range of areas in botanical gardens, agribusiness, crop management of flowers, seed production of flowers. Landscaping of public and private areas, floral arrangements, nursery industry, etc. at local and national levels.

PO7: Students can also render their services as a scientist in the field of floriculture and landscaping at national and international levels.

PO8: The training institutes welcome such candidates for the posts of training organizers at nationally and internationally.

PO9: Students can go for higher degree programs for further research work at national and international.

PO10: Jobs are being created in sectors, both private and public, in fields such as research and journalism and also within and outside the borders.

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PO11: Students may develop as an entrepreneur by producing and processing of flowers and ornamental plants at local and national needs.

Programme Name: Master of Science Agriculture Horticulture (Vegetable Science)

PO1: Research based subjects such as scientific writing and ethics help students to build research aptitude for local, national, international and global needs

PO2: The curriculum of this course lays strong emphasis on in-depth knowledge of theoretical and practical aspects for managing emerging issues in vegetable production by highlighting the usage of in protected cultivation and good agriculture practices in commercial vegetable crops for local and national levels.

PO3: Seminar based course develop presentation and technical skills in students for national and international platforms.

PO4: A candidate who possesses a M.Sc. Ag. degree in Horticulture with specialization in Vegetable Science can be benefitted with an enormous number of job profiles under public and private organizations at local, national and international levels

PO5: A growing export industry, increasing product demands and advances in horticultural technology is making this an extremely lucrative career for local, national and international prospects.

PO6: Students can work in a wide range of areas in post-harvest industries, agribusiness, crop management, high quality vegetable production units etc at local and national levels.

PO7: Students can also render their services as a scientist in the field of vegetable sciences at national and international levels.

PO8: The training institutes welcome such candidates for the posts of training organizers at nationally and internationally.

PO9: Students can go for higher degree programs for further research work at national and international.

PO10: Jobs are being created in sectors, both private and public, in fields such as research and journalism and also within and outside the borders.

PO11: Students may develop as an entrepreneur by producing and processing of vegetables at local and national needs.

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Programme Name: Master of Technology Agricultural Engineering (Farm Machinery and Power Engineering)

PO1: Understand and application of the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to solve the complex engineering problems for National level.

PO2: Use and implement of recourses which will be economically feasible, agro and energy technologies for sustainable agriculture for International level.

PO3: Synthesizing and analyzing of farm machinery and power and management system in the field of agriculture for National level.

PO4: Conduct demonstrates; develop ability to Design and Conduct Experiments, Interpret and Analyzes Data and Report Results. Deeply elaborate various fundamental concepts learned at graduation level for global level.

PO5: Demonstrate an Understanding of their Professional Ethical Responsibilities for International level.

PO6: Develop to conduct demonstrate ability to Function Effectively Individually and also as a Team Member in Multidisciplinary activities for local level.

PO7: Understand the importance & role of government all over the world to promote use of the renewable energy sources for global level.

PO8: Communicate effectively in both Verbal and Written Forms for National level.

Programme Name: Master of Technology Agricultural Engineering (Process and Food Engineering)

PO1: Design solution for complex problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations for local need.

PO2: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problem for International level.

PO3: Capable of synthesizing, processing and post-harvest management system in the field of agriculture for National level.

PO4: Acquire the basic knowledge about constituents, pre-treatment and processing of food and milk for local need.

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PO5: Demonstrate ability to Function Effectively Individually and also as a Team Member in Multidisciplinary activities for National level.

PO6: Communicate effectively in both Verbal and Written Forms for local need.

PO7: Understand packaging laws and regulations as per standards laid down by government agencies for global Level.

PO8: Understand the basic principles of refrigeration and air conditioning for International level.

Programme Name: Master of Technology Agricultural Engineering (Soil and Water Conservation Engineering)

PO1: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problem for National level.

PO2: Capable of soil and water management system in the field of agriculture for International level.

PO3: Demonstrate ability to Function Effectively Individually and also as a Team Member in Multidisciplinary activities for local need.

PO4: Communicate effectively in both Verbal and Written Forms for global level.

PO5: Identify the sources of water and their characteristics for global level.

PO6: Design and manage water resources systems for optimal utilization for International level.

PO7: Optimum uses of land and water resources for sustainable development for local need.

PO8: Understand designs for water harvesting technology for conservation of land resources for International level.

Programme Name: Bachelor of Science (Hons.) Agriculture

PO1: Apply the conceptual knowledge of agriculture in practical situation for national and international prospects.

PO2: Ability to understand the effect of various biotic factors on the growth of crop plants for local and national level.

PO3: Ability to understand different components of agriculture i.e. dairy, poultry, fisheries, piggery etc & their interaction with crop husbandry for national, international and global needs.

PO4: Develop entrepreneurial skills for local, national and international standards.

PO5: Choose the best possible agri-enterprise for a agro-ecosystem for local and national concern.

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SCHOOL OF BUSINESS MANAGEMENT

Programme Name: Bachelor of Business Administration

PO1: **Management Knowledge**: Enhance the horizon of knowledge so as to enable the learners to carry out qualitative research and pursue academic or professional careers.

PO2: **Problem analysis:** Develop problem analysis skills and knowledge and applying the same in real life situation.

PO3: **Conduct investigations of complex problems:** Using research knowledge and aptitude acquired in the course of study for solving socially relevant problems.

PO4: **Modern tool usage:** Use application of technology tools in business which may be beneficial at national and international level.

PO5: **Environment and sustainability:** Understand the role and applicability of knowledge acquired in the context of local, national & global society, environment and sustainable development sticking on to the ethics and values.

PO6: **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the Management practice.

PO7: **Communication and Team Work:** Develop effective communication skills and ability to work in teams by strengthening group dynamics to meet global demand.

PO8: **Life-long learning:** Foster ability to engage in life-long learning, demonstrating empathetic social concern, contributing to the development of nation.

Programme Name: Master of Business Administration

PO1: **Management knowledge:** Apply the knowledge of management theories and practices to solve business problems occurring at global & national business environment.

PO2: **Problem analysis:** Utilize qualitative and quantitative methods to investigate and solve critical business problems.

PO3: **Design/develop solutions:** Identify business opportunities, design and implement innovations as per local, national & global needs.

PO4: **Conduct investigations of complex problems:** Research literature; identify and analyze management research problems.

PO5: **Modern tool usage:** Demonstrate the capabilities required to apply cross-functional business knowledge and technologies in solving real-world business problems & challenges available in local, national & global business environment.

PO6: **The Manager and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal, and cultural issues and the consequent responsibilities relevant to management practice.

PO7: **Environment and sustainability:** Demonstrate ethical, social and environmental responsibilities in business environment.

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PO8: **Professional Ethics:** Apply ethical principles for making judicious managerial decisions.

PO9: **Individual and team work:** Lead themselves and others in the achievement of organizational goals, contributing effectively to a team environment.

PO10: Communication: Communicate effectively with various stakeholders.

PO11: Project management and finance: Demonstrate knowledge and understanding of the management principles and apply these to manage projects in multidisciplinary environments.

PO12: Life-long learning: Recognize the need for, and have ability to engage in independent and life-long learning.

Programme Name: Bachelor of Commerce

PO1: **Accounting Knowledge:** Have an in-depth understanding in areas such as accountancy, business management, company law, finance, marketing which will instill the knowledge and capability of understanding the business world and economy in students.

PO2: **Problem analysis:** Develop analytical, leadership and decision-making skills among the students, thereby making them better managers. The students shall be exposed to multiple functional areas of business.

PO3: **Design/develop solutions:** Cultivate entrepreneurial skills and mindset. Subjects like entrepreneurship, marketing, finance, advertising help the students start and maintain a successful business at local, national and global level.

PO4: **Conduct investigations of complex problems:** Demonstrate the ability to innovate, the ability to execute the most daunting of challenges in the most trying of circumstances at national as well as international level. They shall learn to integrate tools and concept from these areas in solving business problems.

PO5: **Modern tool usage:** Use relevant and contemporary software packages through the curriculum thereby making them job ready.

PO6: **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the accounting practice.

PO7: **Individual and team work:** Master the art of doing business. The subject brings students abreast with the corporate culture and prepares them for their professional life.

PO8: **Communication:** Get practical exposure and bridge gap between industry and academia through case studies, seminars & project work to meet national & international need.

Programme Name: Bachelor of Commerce (Honours)

PO1: **Accounting Knowledge:** Have systematic and comprehensive knowledge of the areas related to finance, human resource management, marketing, international economics, corporate and financial accounting, company law, accounting and taxation, etc.

PO2: **Problem analysis:** Develop skills and attitudes needed for critical thinking and adopting

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a comprehensive problem-solving approach. They shall be exposed to the training that helps them understand real life situations through case-studies.

PO3: Design/develop solutions: Think of a given problem or situation from different perspectives like economic, financial, social, national, global etc. and broadens the prospect of their thought processes. It not only helps the students add dimensions to its decision making but also in reaching to inclusive conclusions.

PO4: Conduct investigations of complex problems: Demonstrate the ability to innovate, the ability to execute the most daunting of challenges in the most trying of circumstances at national as well as international level.

PO5: Modern tool usage: To be technologically updated as it has courses like computerised accounting system, computer applications etc. which not only make them work using software but also makes them independent enough in this world of digitization.

PO6: Ethics: Check unethical behaviour, falsification and manipulation of information in order toavoid debacles which can be seen rising persistently over the period of time. It would also help in making responsible citizens and facilitate character building.

PO7: Individual and team work: Have a global perspective and integrate national values and beliefs with international culture and competence.

PO8: Communication: To deliver and communicate information effectively with a mark through updated teaching learning pedagogies to meet global needs.

PO9: Life-long learning: Imbibe entrepreneurial skills inculcating competencies, needed to become an entrepreneur. These would lead to develop an attitude of life-long learning.

Programme Name: Master of Commerce

PO1: Accounting Knowledge: Have provide advanced knowledge of business and the techniques of managing businesses with special focus on Banking and Finance along with Advanced Accounting and Taxation.

PO2: Problem analysis: Comprehend higher level knowledge and understanding of contemporary trends in commerce.

PO3: Design/develop solutions: Cultivate entrepreneurial skills and mindset among the students. Subjects like entrepreneurship, marketing, finance, advertising help the students start and maintain a successful business at local, national and global level.

PO4: Conduct investigations of complex problems: Acquire qualifications toward higher level specialist positions as Consulting, Finance, Accounting, Marketing, Human Resource Management, Business Management, Information Systems, Auditing, Taxation, International Business Environment etc.

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PO5: **Modern tool usage:** Equip themselves with relevant skills to make them Industry ready and employable for local, national & international environment.

PO6: **Environment and sustainability:** Present one's candidature for wide range of opportunities in education, research and employment.

PO7: **Ethics:** Inculcate a sense of civic responsibility, corporate social citizenship, moral accountability and dignity of labour leading to a holistic development.

PO8: **Communication:** Develop competencies like problem solving skills, communication skills like listening, writing concisely, analytical skills and presentation skills to derive logical conclusions to meet global needs.

PO9: **Project Management and Finance:** Provide guidance to plan and undertake independent application-oriented research in the chosen specialization.

PO10: **Life-long learning:** Train the learners on teamwork, lifelong learning and continuous professional development.

Programme Name: Bachelor of Hotel Management & Catering Technology

PO1: **Industry knowledge:** Apply the knowledge of food and beverage service, housekeeping, front office and food production into the growth of hospitality industry.

PO2: **Professional skills:** Demonstrate professional and operational skills in field of Hotels, airlines, tourism hospitality industry to meet global demand.

PO3: **Diversity:** Provide manager input in Hotels Accountancy, Food Safety and Quality, Human Resource Management, Facility Planning in Financial Management, Strategic Management, Tourism Market and Tourism Management.

PO4: **Environment and sustainability:** Understand the impact of professional hotels nearby societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development at national and international level.

PO5: **Ethics:** Apply ethical principles and show commitment to professional ethics responsibilities and norms of hospitality industry.

PO6: **Communication:** Communicate effectively in complex situations and activities with society at large, guest handling and creating Public relations, maintaining effective documentation for smooth operation and basic understanding of multilingual people at national and international level.

PO7: **Life-long learning:** Demonstrate awareness and need for containers learning by regular upgrading of professional knowledge and skills

PO8: **Opportunities:** Apply jobs in hotels & allied hospitality industry, Flight kitchen and onboard flight services, Indian Navy hospitality services, Fast food chain restaurants, Hospital and institutional catering, Shipping and cruise lines, State tourism Development Corporation, Multinational companies at local, national and global level for their hospitality services.

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Programme Name: Master of Tourism and Travel Management

PO1: **Tourism Knowledge**: Apply the knowledge of diverse nature of tourism, including culture and place, global/local perspectives, and experience design and provision. Understand multi-form character of travel and tourism business.

PO2: **Problem Analysis**: Apply problem solving and critical analysis within diverse contexts. Develop leadership skills and to provide necessary Managerial, Communicative, IT, product and Resource skills to effectively handle Tourism activities.

PO3: **Design/develop Solutions:** Create, apply, and evaluate marketing strategies for tourism destinations and organizations and also Plan, lead, organize and control resources for effective and efficient tourism operations.

PO4: **Modern Tool Usage:** Apply relevant technology for the production and management of tourism experiences.

PO5: **Environment and Sustainability**: Apply principles of sustainability into tourism in the local and global context.

PO6: **Ethics:** Practice empathy and respect for diversity and multicultural perspectives.

PO7: **Individual and Teamwork:** Work collaboratively in groups, both as a leader and a team member, in diverse environments, learning from and contributing to the learning of others.

PO8: **Communication**: Assess, evaluate, and employ appropriate communication tools for discussions within and between teams and members, various audiences, decision-making teams, and corporate communication tasks to meet global needs also.

PO9: **Project Management and Finance:** Propose and conduct a research project to inform tourism practice and be able to frame a better and viable marketing and product innovation strategies to increase the profitability and stability of an organization.

PO10: **Life-long learning**: Demonstrate awareness and need for containers learning by regular upgrading professional knowledge and skill.

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SCHOOL OF ENGINEERING AND TECHNOLOGY

Programme Name: Bachelor of Technology (Electronics & Communication Engineering)

PO1: Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems which is relevant to the global developmental needs.

PO2: Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences and engineering sciences at national and international levels.

PO3: Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations for regional developmental needs.

PO4: Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions at global levels.

PO5: Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations for regional developmental needs.

PO6: Identify Solutions: Dedication to work as an electrical or electronics engineer who is capable of identifying solutions to various local and global problems faced by the society.

PO7: Design Modern Systems: Ability to design and develop modern systems for the upkeep of pollution free environment for local developmental needs as well.

PO8: Ethics & Social values: Willingness and ability to upkeep professional ethics and social values at local level.

PO9: Independent Thinking: Willingness and ability to think independently take initiative and lead a team of engineers or researchers at national and international levels.

PO10: Communication: Ability to express ideas clearly and communicate orally as well as in writing with others at national, international and global levels.

PO11: Lifelong Learning: Willingness and ability to maintain lifelong learning process by way of participating in various professional activities for the fulfillment of national and international development needs.

PO12: Administrative responsibilities: Willingness and ability to take up administrative responsibilities involving both project and financial management confidently which is relevant to the global developmental needs.

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Programme Name: Bachelor of Technology (Mechanical Engineering)

PO1: **Engineering Knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems for national and international projects.

PO2: **Modern tool usage:** Create, select and apply appropriate techniques, resources, and modern engineering and IT tools for local as well as national interest including prediction and modeling to complex engineering activities with an understanding of the limitations.

PO3: **Conduct Investigations of Complex Problems:** Use research-based knowledge and research methods for gaining international and global repute including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

PO4: **Environment and Sustainability:** Understand the impact of the professional engineering solution in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development acquiring local and global need.

PO5: **Problem Analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions for local, national and international aspects using first principles of mathematics, natural sciences, and engineering sciences.

PO6: **Design / Development of Solutions:** Design solutions for complex engineering problems and design system components or process that meet the specified needs to achieve local and global awareness with appropriate consideration for public health and safety, and the cultural, societal, and environmental considerations.

PO7: **The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, healthy, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice at national, international and global level.

PO8: **Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions for national and international awareness.

PO9: **Life-long Learning:** Recognize and need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change to meet national and global standards of education.

PO10: **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice to achieve local and national awareness.

PO11: **Individual and Team Work:** Function effectively as an individual, and as a member of leader in diverse teams and in multidisciplinary settings to gain local, national as well as international repute.

PO12: **Project management and Finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work to meet local

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and national interest as a member and leader in a team to manage projects and in multidisciplinary environments.

Programme Name: Bachelor of Technology (Civil Engineering)

PO1: **Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems of local as well as global importance.

PO2: **Problem analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO3: **Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations at local, national and international level.

PO4: **Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions for local, national and international challenges.

PO5: **Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering local and global activities with an understanding of the limitations.

PO6: **The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues of local and global importance and the consequent responsibilities relevant to the professional engineering practice.

PO7: **Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development at local and global level.

PO8: **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO9: **Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10: **Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions at national and international level.

PO11: **Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects at local and global level and in multidisciplinary environments.

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PO12: Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change at national as well as international level.

Programme Name: Master of Technology (Electrical Engineering)

PO1: Acquire in-depth knowledge in the domain of power systems which have relevance to the global developmental needs.

PO2: Ability to critically analyze various power system components, models and their operation in order to fulfill the regional developmental needs.

PO3: Ability to apply fundamentals and concepts to analyze, formulate and solve complex problems of electrical power systems and its components for the fulfillment of regional developmental needs.

PO4: Apply advanced concepts of electrical power engineering to analyze, design and develop electrical components, apparatus and systems to put forward scientific findings at national and international levels.

PO5: Ability to use advanced techniques, skills and modern scientific and engineering tools for professional practice at global level.

PO6: Preparedness to lead a multidisciplinary scientific research team and communicate effectively at national and international levels.

PO7: Demonstrate and apply knowledge and understanding of engineering principles for project management in order to fulfill the local development needs.

PO8: To motivate exploring ideas and to encourage for independent, reflective and lifelong learning at local levels.

PO9: To understand the impact of engineering solutions in a global, economic, environmental and societal context.

Programme Name: Master of Technology (Electronics & Communication Engineering)

PO1: Acquire in-depth knowledge in the domain of Electronics Engineering meeting with local, national and international standards.

PO2: Ability To conduct literature surveys and contribute in emerging areas through collaborative and multidisciplinary research to compete with local, national and international environments.

PO3: Ability to apply fundamentals and concepts to analyze, formulate and solve complex problems of electrical power systems and its components to benefit the local, national and global organization working in power systems.

PO4: Ability of Understanding of tools and techniques, and their usage in analysis and design, apparatus and systems to put forward scientific findings at national and international levels.

PO5: Ability to use advanced techniques, skills and modern scientific and engineering tools for professional practice meeting national and global standards.

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PO6: Preparedness to lead a multidisciplinary scientific research team and communicate effectively with local, national and international organizations.

PO7: Demonstrate and apply knowledge and understanding of engineering principles for project management based on national and international standards.

PO8: To motivate exploring ideas and to encourage for independent, reflective and lifelong learning which help national and global communities to upgrade lifestyle.

PO9: To understand the impact of engineering solutions in local, national, global, economic, environmental and societal context.

Programme Name: Master of Technology (Mechanical Engineering)

PO1: Understanding of tools and techniques, and their usage in analysis and design to meet local, national and international interest.

PO2: To conduct literature surveys and contribute in emerging areas through collaborative and multidisciplinary research which benefits national and global interest.

PO3: To understand and integrate existing and new acquired knowledge in the discipline for future enrichment to meet national and international standards.

PO4: Ability of creative thinking, critical analysis and decision making for productive research and development to meet local and national interest.

PO5: Devise feasible and optimal solutions to the problems in the area of expertise, amenable to society and environment for national and international awareness.

PO6: Ability of independent and reflective learning to acquire international and global repute.

PO7: Understanding of the professional and ethical responsibilities which benefits national and global interest.

PO8: To improve capability for solving engineering problems to gain local as well as national interest.

PO9: Ability to write reports and communicate through effective presentations to meet national and international standards.

PO10: To impart research skills among the graduates with professional and ethical attitude for developing local, national and international interest.

Programme Name: Master of Technology (Civil Engineering)

PO1: Apply the knowledge of science, mathematics, and engineering principles for developing problem solving attitude.

PO2: Identify, formulate and solve engineering problems in the domain of structural engineering at local and global level.

PO3: Use different software tools for Analysis and Design in the domain of structural engineering.

PO4: Design and conduct experiments, analyze and interpret data, for development of simulation experiments and local and global challenges.

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PO5: Function as a member of a multidisciplinary team with sense of ethics, integrity and social responsibility at national and international level.

PO6: Apply current techniques and skills in the field of structural engineering.

PO7: To solve engineering problems of local and global importance by using potential feasible solutions and evaluate them to arrive at the optimal solution by considering societal and environmental factors / issues.

PO8: Have an understanding of engineering and management principles and apply the same to one's own work as a member and leader in a team and manage projects efficiently at local and global level.

PO9: Recognize the need for and ability to engage in life-long understanding independently with competence and commitment for local and nation development.

PO10: Acquire integrity, code of conduct, ethics of research of national and international level and scholarship and consideration of impact of research outcomes on professional activities.

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SCHOOL OF LAW

Programme Name: Bachelor of Law (LL.B.)

PO1: To provide legal knowledge to students so that they may be able to work in the field of Law.

PO2: Familiarising students with basic laws and judicial interpretations at the national and international level.

PO3: Apprising students of the legal system, Rule of Law, and Administration of Justice.

PO4: Producing internationally competent litigating lawyers, corporate lawyers, judges, judicial officers, legal officers, researchers, law reformers, law teachers etc.

PO5: Promoting ethical practices in the profession of law.

PO6: Promoting inter-disciplinary approach to legal profession at National level.

Programme Name: Master of Law (LL.M.)

PO1: Legal Knowledge: To acquire & apply legal knowledge to the complex Socio-legal problems.

PO2: Professional Ethics: To understand and apply principles of professional ethics of legal profession at National level.

PO3: Legal research & legal reasoning: to develop legal research skills & legal reasoning and apply it during programme & in Legal practice.

PO4: Self-reflection & lifelong learning: To develop an attitude of self-reflection while learning & Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of changing legal contexts.

PO5: Self-employability: To provide a platform of self-employability by developing professional skills in legal industry.

PO6: Leadership skills: To develop leadership qualities amongst students.

PO7: After prepare of project the students thinks fit for research works self.

PO8: A student completing the course is found himself fit for answering the questions without hesitation in viva-voce.

Programme Name: Integrated Law – B.A.LL.B

PO1: To provide legal knowledge to students so that they may be able to work in the field of Law

PO2: Familiarizing students with basic laws and judicial interpretations at at Global level.

PO3: Apprising students of the legal system, Rule of Law, and administration of justice.

PO4: Producing internationally competent litigating lawyers, corporate lawyers, judges, judicial officers, legal officers, researchers, law reformers, law teachers etc.

PO5: Promoting ethical practices in the profession of law.

PO6: Promoting inter-disciplinary approach to legal profession.

Programme Name: Integrated Law – B.B.A.LL.B

PO1: To provide legal as well as Management related basic knowledge to students so that they may be able to work in the field of Law.

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PO2: The students keep themselves abreast with latest developments in the legal and management discipline.

PO3: The program focuses on creating a learning environment that fosters students' managerial and entrepreneurial skills, a sense of global and social responsibility, besides in-depth know-how and wherewithal to provide solutions to legal problems using intellectual autonomy at Global level.

PO4: Producing internationally competent litigating lawyers, corporate lawyers, judges, judicial officers, legal officers, researchers, law reformers, law teachers etc.

PO5: Promoting ethical practices in the profession of law.

PO6: Promoting inter-disciplinary approach to legal profession.

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SCHOOL OF BIOTECHNOLOGY

Programme Name: Bachelor of Science (Biotechnology)

PO1: Fundamental understanding: To enrich global knowledge and train in basic concepts of Basic Sciences and various branches of Biotechnology such as genetics, molecular biology, biochemistry, immunology, fermentation technology, environmental biotechnology and tissue culture techniques.

PO2: Interdisciplinary approach: Analyze the local relationships among animals, plants, microbes, environment and global Industry.

PO3: Practical learning: Perform local procedures as per laboratory standards in the areas of Biochemistry, Bioinformatics, molecular biology, immunology, industrial biotechnology and fermentation technology.

PO4: Technical Ability: Acquaint with the global knowledge of different techniques and their principles along with working of the instruments for research and diagnostic applications.

PO5: Analytical opinion: Perceive things and the events that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our local ideas and decisions (intellectual, organizational, and personal) in the light of scientific principal.

PO6: Effective Communication: Speak, read, write and listen clearly in person and through different communication medium in English. Social Interaction, elicit views of others, mediate disagreements and help reach conclusions in group settings.

PO7: Ethics and Rights: Recognize different global value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them.

PO8: Understand the global issues of environmental deterioration, pollution and sustainable development. Developing critical problem-solving approach for these societal concerns via bioremediation and integrated management.

PO9: Self-directed and Life-long Learning: Acquire the global ability to engage in independent and life-long learning in the broadest context socio-technological changes

PO10: Contemporary Problem worldwide: Global awareness of contemporary issues that can be mitigated or supported through life science know how and biotechnology skills.

Programme Name: Bachelor of Science (Food Technology)

PO1: **Disciplinary Knowledge:** Utilization the global knowledge of science, engineering fundamentals, and techniques to the solution in the field of food technology and other allied subjects.

PO2: **Communication Skills:** Communicate effectively and write effective reports and design documentation, make effective presentations through seminars, project reports.

PO3: **Problem Solving:** Identify, formulate, review research literature, and analyze complex Food applications, problems and Design solutions for complex problems and design system

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components or processes that meet the specified needs with appropriate consideration for the food sustainability.

PO4: **Practical executive skills:** Acquire the global practical knowledge and demonstrate the ability to design, conduct experiments and analyze data in the field of food technology.

PO5: **Information/digital Literacy:** Learn how to use appropriate software's globally to apply for bulk scale/industrial production of technology-based food products.

PO6: **Self-directed learning:** To develop an ability of working independently and to make an in-depth study of various disciplines of food technology.

PO7: **Moral and ethical awareness:** Understand the national impact of the professional food technology solutions in societal and environmental contexts, and apply ethical principles and commit to professional ethics and responsibilities.

PO8: **Lifelong learning:** To provides self-directed learning and lifelong learning skills to think independently and develop problem solving skills with respect to food industry globally.

PO9: **Advance learning:** Ability to peruse advanced studies and research in Allied fields of Food science.

PO10: **Intellectual Skills:** Ability to analyze and solve problems, critical evaluation of scientific research and can apply knowledge to solve problems.

Programme Name: Bachelor of Science (Microbiology)

PO1: **Conceptual Knowledge:** The programme has been designed to impart the global knowledge of subjects in such a way that the students have strong theoretical background on various domains of Microbiology.

PO2: **Microbial Technology:** Recognize the role of important microorganisms in agricultural, medical and industries. Demonstrate global knowledge of biomolecules, tools and techniques, enzymes, immunology, cell biology, molecular biology genetic engineering to make the study of microbiology for sustainable development of human society.

PO3: **Practical Application:** Demonstrate the practical applications of microorganisms in pharma, agriculture, dairy, food, beverage and nutraceutical industries.

PO4: **Communication Skills:** Enhanced communication skills cultivated through reading, listening, speaking, etc., which are prerequisite for expressing views clearly and confidently.

PO5: **Problem Analysis & Critical Thinking:** The programme aims to improve the students at problem solving, logical reasoning, rational analysis and critical thinking of the students as required in solving scientific problems at global level.

PO6: **Ethics & Morals:** The programme would help students equip with high ethical, moral and social values in professional and social life leading to a responsible citizen.

PO7: **Sustainable Environment:** Understanding the techniques for cleaner environment utilizing resources in a sustainable manner producing less waste and toxicity in environment. The programme will impart the local knowledge related to role of

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microorganisms in bioremediation and bioprospecting, role of microorganisms in Agriculture.

PO8: Biodiversity: Appreciation of global biological diversity in organisms and microorganisms, their relation with each other and with the surrounding environment.

PO9: Self-learning: Facilitate students to acquire ability to engage in self learning process to overcome the global challenges faced in professional studies and careers.

PO10: Technical ability: Familiarization with the advanced and newer techniques along with the underlying principle for research and analytical applications.

Programme Name: Bachelor of Technology (Biotechnology)

PO1: Understanding Engineering Fundamentals: Apply the knowledge of engineering fundamentals and principles of basic sciences, engineering and biological sciences to address global problems and find solution to the complex issues of biotechnology.

PO2: Knowledge of Molecular Biology and Genetics: Application of knowledge gain in the genetics, molecular biology to address the problems related to disease, health and lifestyles.

PO3: Application of Modern Tools & Techniques: To understand the working principles and operation of instruments use in molecular biology, genetics, biochemistry, immunology, tissue engineering and bioinformatics for the prediction and modeling to complex biological problems.

PO4: Professionalism: To inculcate the students professional and ethical attitude, effective communication, teamwork skills, entrepreneurship skills with multidisciplinary approach and develop an ability to relate engineering issues in biotechnology for the welfare of mankind and global environment.

PO5: Process and Product Development: Demonstrate knowledge and understanding of the biotechnology engineering and management principles and apply these to analyze, design and process biotechnology projects and data handling.

PO6: Environment and sustainability: Understand the impact of the technological solutions developed through biotechnology in contexts of society and the environment, and demonstrate the knowledge need for sustainable development in judicious use of biotechnology tools and technique.

PO7: Professional Ethics: Apply ethical principles and commit to follow professional ethics and norms and guidelines in the practice of biotechnology responsibly.

PO8: Leadership and Work efficiency: Having interest and recognize the need for independent and lifelong learning ability to function effectively as an individual and as a member or leader in diverse teams.

PO9: Adaptive thinking: Ability to formulate project proposal, use research-based knowledge and methods including design of experiments, analysis and interpretation of data, for arriving logical and acceptable solutions for the local problems.

PO10: Social and Environmental Safety: Apply reasoning for the issues, informed by the contextual knowledge of the problems in hand and assess the risk associated with the

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societal, health, safety, legal and cultural issues of the problems and the consequent responsibilities relevant to the professional practice of the discipline.

PO11: Communication skills: Having a good knowledge of communicating in English – communication with engineering community and society. Make effective communication on complex biotechnology issues and solutions drawn from biotechnological activities with the national scientific community and society.

PO12: Life-long learning: To provide better social and academic environment aware of excellence, leadership, intellectual property rights, written ethical guidelines, and the life-long learning needed for a successful professional career.

Programme Name: Masters of Science (Biotechnology)

PO1: Gain Scientific Knowledge: Apply the knowledge of basic and applied scientific fundamentals, leading to a deeper understanding of Biological Sciences.

PO2: Enhancement of Experimental Skills: Global use of research-based knowledge and research methods including design of experiments and strategic solutions.

PO3: Numerical and Data Analysis: Numerical analysis, interpretation of data, and organized representation of the information to provide valid conclusions.

PO4: Science for society: Apply the scientific knowledge globally to assess societal health, safety and the consequent responsibilities relevant to the professional scientific practice.

PO5: Individual and teamwork: Think critically and work independently, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO6: Analytical Interpretation: In depth theoretical and empirical understanding of analytical instrumentation and protocols as well as the application of appropriate techniques and resources.

PO7: Scientific Communication: Communicate scientific content effectively with peers, educators, science community, and with society at large.

PO8: Environment and sustainability: Understand the impact of scientific processes in societal and environmental contexts, and demonstrate the knowledge, and need for sustainable development.

PO9: Life-long learning: Recognize the need for and have the preparation and ability to engage in independent and life-long learning.

PO10: Ethics and Values: Apply ethical principles and commit globally to professional ethics and responsibilities.

Programme Name: Master of Science (Microbiology)

PO1: Domain knowledge: Gain and apply knowledge of basic concepts, principles and applications of the microbiology.

PO2: Resource Utilization: Nurture the ability & skills to acquire the appropriate learning resources including library, e-learning resources, and ICT tools in order to enhance knowledge base and stay well versed with recent developments and advancements.

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PO3: **Analytical & Technical Skills:** Developing the capability and competency to use the appropriate tools, techniques, methods and equipment with the better knowledge and understanding of its Standard Operating Procedures (SOPs) or protocols, safety guidelines and limitations.

PO4: **Critical thinking & problem solving:** To locate and figure out the relevant & significant problems arising in the relevant science discipline and thereafter its critical analysis using appropriate methods, tools & techniques to find the best solutions.

PO5: **Project Management:** Demonstration of scientific know-how and understanding to bring out the pertinent research problem and thereafter providing best solutions through design of experiments, proper analysis, and use of appropriate techniques within the given constraints of time, skills, budget and other resources.

PO6: **Individual and teamwork:** Think critically and work in independent manner, and as a member or leader in diverse groups & teams, and also in multidisciplinary settings to attain the solutions & goals.

PO7: **Effective Communication:** Effective verbal and non-verbal communication (written, social media) with fellows, educators, science community, and with the whole society. Develop the ability to prepare scientific documents like dissertations, reports, and its effective presentation.

PO8: **Environment and society:** Apply reasoning through the contextual knowledge to assess global societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional scientific practice.

PO9: **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of scientific practice.

PO10: **Life-long learning:** Recognize the need for and have the preparation and ability to engage in independent and life-long learning in the broadest context of global and local scientific and technological changes for up-to-date research and teaching methods.

Programme Name: Masters of Science (Food Technology)

PO1: **Scientific and Technical Knowledge:** Acquire in –depth theoretical and practical knowledge of food science and technology.

PO2: **Problem Analysis:** Acquire proficiency in solving technical as well other problems related to food sector/ industry and focus on the importance of safe processed nutritious food.

PO3: **Design/ Development of solution:** Work in food industries, research organizations and academia; develop ability to design or process food products as per needs and specifications.

PO4: **Utilization of contemporary technologies:** Apply fundamental knowledge related to pure science in interdisciplinary manner for applying the use of global modern tools and

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equipments to analyze food born infection, food spoilage, post-harvest losses and maintain the quality and standards from farm to fork.

PO5: **Food professionals and society:** Critically analyze data, knowledge of professional and ethical responsibilities, develop understanding of economic importance of food products, global and national food laws and packaging technology and materials.

PO6: **Environment and sustainability:** Recognize the influence of professional engineering solutions in social and environmental contexts, and exhibit understanding of and need for, sustainable development.

PO7: **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO8: **Individual and Team work:** Function effectively as an individual, and as a member or leader in diverse teams and in multidisciplinary setting.

PO9: **Communication:** Communicate well with the global and local engineering community and society at large on complex engineering operations, such as comprehending and writing effective reports and design documentation, making successful presentations and giving and receiving clear directions.

PO10: **Life-long learning:** Gain domain knowledge and know-how for successful career in academia, industry and research. Promoting life-long learning to meet the ever evolving professional and team skills.

Programme Name: Master of Technology (Biotechnology)

PO1: **Engineering knowledge:** To solve global complicated engineering problems, use your understanding of mathematics, science, engineering fundamentals, and an engineering specialism.

PO2: **Problem analysis:** Identify, formulate, study research material, and analyse difficult local and national engineering problems using first principles of mathematics, natural sciences, and engineering sciences to achieve justified findings.

PO3: **Design/development of solutions:** Design solutions for global complex technical challenges and system components or processes that meet the given requirements while taking into account public health and safety, as well as cultural, socioeconomic, and environmental factors.

PO4: **Conduct investigations of complex problems:** To give global valid results, use research-based knowledge and research methodologies such as experiment design, data analysis and interpretation, and information synthesis.

PO5: **Modern tool usage:** Create, choose, and apply relevant methodologies, resources, and current engineering and IT technologies to complex engineering processes, including prediction and modelling, while keeping in mind the local restrictions.

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PO6: **The engineer and society:** Assess local and national societal, health, safety, legal, and cultural issues, as well as the duties associated with professional engineering activity, using reasoning informed by contextual knowledge.

PO7: **Environment and sustainability:** Understand the local and national societal and environmental implications of professional engineering solutions, and demonstrate understanding of and need for sustainable development.

PO8: **Ethics:** Apply global ethical concepts and adhere to engineering practice's professional ethics, duties, and conventions.

PO9: **Individual and team work:** Individually and as a member or leader in different teams and global transdisciplinary situations, perform well.

PO10: **Communication:** Communicate effectively with the local and national engineering community and society at large on complicated engineering operations, such as being able to read and create good reports and design documentation, give and receive clear directions.

PO11: **Project management and finance:** Demonstrate knowledge and comprehension of engineering and global management principles and how to apply them to one's own work, as a team member and leader, to manage projects, and in interdisciplinary settings.

PO12: **Life-long learning:** Recognize the necessity for autonomous and life-long learning in the global broader context of technological change, and have the preparation and ability to do so.

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SCHOOL OF SCIENCES

Programme Name: Master of Science (Chemistry)

PO1: **Domain knowledge:** Demonstrate knowledge of basic concepts, principles and applications of the specific science discipline.

PO2: **Resource Utilisation:** Cultivate the skills to acquire and use appropriate learning resources including local library, e- learning resources, ICT tools to enhance knowledge base and stay abreast of recent developments.

PO3: **Analytical and Technical Skills:** Ability to handle/use appropriate tools/techniques/equipment with an understanding of the standard operating procedures, safety aspects/limitations.

PO4: **Critical thinking and Problem solving:** Identify and critically analyse pertinent global and national problems in the relevant discipline using appropriate tools and techniques as well as approaches to arrive at viable conclusions/solutions.

PO5: **Project Management:** Demonstrate knowledge and scientific understanding to identify global research problems, design experiments, use appropriate methodologies, analyse and interpret data and provide solutions. Exhibit organisational skills and the ability to manage time and resources for employability in industries.

PO6: **Individual and team work:** Exhibit the potential to effectively accomplish tasks independently and as a member or leader in diverse teams, and in multidisciplinary settings.

PO7: **Effective Communication:** Communicate effectively in spoken and written form as well as through electronic media with the global scientific community as well as with society at large. Demonstrate the ability to write dissertations, reports, make effective presentations and documentation.

PO8: **Environment and Society:** Analyse the impact of scientific and technological advances on the environment and society and the need for sustainable development.

PO9: **Ethical Learning:** Ethical commitment to professional ethics and responsibilities in industry.

PO10: **Life-long learning:** Ability to engage in life-long learning in the context of the rapid global developments in the discipline.

PO11: **Practical Aspects:** Students will become familiar with the different aspects of science. They will also learn to apply appropriate techniques for the qualitative and quantitative analysis of a substance in laboratories and in industries.

PO12: **Industrial Aspects:** The student will acquire knowledge of various streams and skills for employability in industries.

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Programme Name: Master of Science (Physics)

PO1: Apply the knowledge of different areas in physics, mathematics with advanced knowledge in some specialized areas of physics for the solution of complex problems.

PO2: Identify problems starting from basic principles, evaluate and validate experimental results, and draw logical conclusions thereof.

PO3: Design scientific problems and carry out investigations without being biased in diverse local/global areas of theoretical and experimental physics.

PO4: Use skills, knowledge for contemporary research within various local/global fields of physics and thereby model, analyse and solve advanced problems in physics.

PO5: Create theoretical and/or experimental methods, by using numerical techniques, technology and simulations.

PO6: Apply problem solving ability to assess relevant social issues and real life problems and deliver better for the society within the scope.

PO7: Understand the impact of the practical solutions in local/global environmental contexts, and demonstrate the need for sustainable development.

PO8: Understand and maintain the highest standard on academic and social ethical issues in the professional life.

PO9: Function effectively as an individual, and as a member or leader in multidisciplinary settings.

PO10: Imbibe efficient scientific and/or technical communication abilities via effective communication with science, engineering community and society.

PO11: Demonstrate knowledge and understanding of the theoretical and experimental physics principles and apply these to one's individual work and as a member or leader in a team, to manage multidisciplinary projects.

PO12: Pursue research related to physics and acquire knowledge, skills throughout for the professional career.

Programme Name: Master of Science (Mathematics)

PO1: Equip them with skills to analyze problems, formulate a hypothesis, evaluate, and validate results, and draw reasonable conclusions thereof.

PO2: Prepare them for pursuing research or careers in industry and also in mathematical sciences and allied fields.

PO3: Understand the fundamental axioms in mathematics and the capability of developing ideas based on them to enhance their skills at national and global level.

PO4: Provide advanced knowledge on topics in pure mathematics, empowering the students to pursue for the higher degrees at reputed academic institutions.

PO5: Create awareness to become an enlightened citizen, with commitment to deliver one's responsibilities, within the scope of bestowed rights and privileges for employability.

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PO6: Nurture problem solving skills, thinking, creativity through assignments and project work.

PO7: Have a good understanding of number theory which can be used in modern online cryptographic technologies in the context of the rapid global developments in the discipline.

PO8: Assist students in preparing (personal guidance, books) for competitive exams e.g. NET, GATE, etc.

Programme Name: Master of Science (Zoology)

PO1: To provide a broad foundation in science that stresses scientific reasoning and analytical problem solving with a molecular and biological perspective.

PO2: To provide students with the skills required to succeed at industrial as well as professional level.

PO3: To expose the students to learn the experimental techniques using modern instrumentation and practical approach.

PO4: The student will understand the importance of the advanced knowledge of Zoology, and its role in resolving various issues at global level for the welfare of the society.

PO5: The student will understand the interdisciplinary nature of science and will be able to apply knowledge of Zoology and other disciplines of life sciences to a wide variety of chemical, environmental and other problems.

PO6: The students will learn the different processes to enhance their skills needed to design the novel ideas for better sustainability at local level.

PO7: Students will build a scientific temper and will be able to learn the necessary skills to succeed in research or industrial field.

PO8: The student will develop the ability to effectively communicate scientific information and research inferences at national level.

PO9: The student will learn professionalism, including the ability to work in teams and apply basic ethical principles.

PO10: The School of Sciences is committed to prepare competitive and professional post graduates and researchers, having good knowledge of basics and emerging techniques for the betterment of society.

PO11: Students will imbibe ethical, moral and social values, positive attitude and other necessary qualities leading towards a successful life at local level.

PO12: Students will develop various communication skills such as reading, listening, speaking, etc., which will helps them in expressing ideas and views clearly and effectively.

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Programme Name: Master of Science (Botany)

PO1: Understand the scope and significance of the programme.

PO2: Develop the scientific temperament at global level for skill development.

PO3: Develop the skills to identify different types of plants at local level.

PO4: Enhance the skill to do laboratory work from different equipments.

PO5: Enhance the skill related to scientific research in the area of Botany and allied Sciences at global level.

PO6: Transform the society and can explain the importance of different plants to human beings.

PO7: Identify credible scientific sources to interpret and evaluate the evidences.

PO8: Understand the relationship between science and society by recognizing and discussing logical, scientific and ethical issue in Botany subject at national level for skill development.

PO9: Understand the issues of environmental contexts and sustainable development with respect to assessment, conservation and utilization of floral diversity.

PO10: Develop Entrepreneurship skill

PO11: Address socio-economic challenges related to plant sciences at local level.

PO12: Perform functions that demands higher competence in National/International organization with sporty and helping spirit. Prepare students for many competitive exams like NET, GATE.

Programme Name: Master of Science (Home Science)

PO1: Understand the role of food and nutrition for the welfare of the community for global skill development.

PO2: Develop analytical skills in food industry for global skill development

PO3: Apply knowledge in the field of community nutrition for global skill development

PO4: Develop competency to make their careers in academics, health care and government and NGOs for global skill development

PO5: Acquire skills to establish a food service unit to provide national employability

PO6: Analyze nutrients, food quality and manage diseases using diet therapy.

PO7: Enable to pursue higher education and research to provide national employability

PO8: Gain knowledge to develop local entrepreneurial skills.

PO9: As foods and nutrition are the basic requirement of human life students learn Wright from food groups to sources requirements, physiological functions biochemical as well as metabolic functions for global skill development.

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PO10: Comprehending and updating knowledge in the core specialized and elective subjects with appropriate practical inputs to provide national employability

PO11: Gain inter and multidisciplinary and professional competence as value and ethical additions for global skill development

PO12: Established ethical entrepreneur through projects field trip industrial visit and other programmes for global skill development.

Programme Name: Bachelor of Science (Hons) Chemistry

PO1: Systematic and coherent understanding of the global fundamental concepts in Physical chemistry, Organic Chemistry, Inorganic Chemistry, Analytical Chemistry and all other related allied chemistry subjects.

PO2: Students will be able to use the evidence based comparative chemistry approach to explain the chemical synthesis and analysis for skill development and employability.

PO3: Students will be able to understand the basic principle of equipments, instruments used in the chemistry laboratory at national and global level.

PO4: The student will understand good laboratory practices and safety.

PO5: Students will be able to demonstrate the experimental techniques and methods in different areas of Chemistry.

PO6: The chemistry graduates are expected to know global fundamental concepts of chemistry and applied chemistry and its new emerging branches.

PO7: These fundamental concepts would reflect the latest understanding of the field at global level, and therefore, are dynamic in nature and require frequent and time-bound revisions.

PO8: Applying subject knowledge for solving local and national societal problems related to application of chemistry in day to day life.

PO9: Identifying chemistry related problems, analysis and application of data using appropriate methodologies.

PO10: Finding opportunity to apply subject-related skill for employability and entrepreneurship.

PO11: Motivate and inspire team members to engage with the team objectives by using management skills.

PO12: Enhance employability scopes for jobs in different sectors.

Programme Name: Bachelor of Science (Hons) Physics

PO1: Understand different analytical methods required to interpret and analyze results after drawing the conclusions as supported by the obtained data.

PO2: Able to employ critical thinking, for the understanding of the concepts in different local/global areas of physics, chemistry and mathematics.

PO3: Capable of demonstrating comprehensive knowledge of the B. Sc. Programme.

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PO4: Capable of solving physical problems by the use of theoretical and practical based knowledge.

PO5: Able to do work independently and perform in-depth study for the various notions of courses.

PO6: Able to communicate various concepts of B.Sc. Programme effectively using examples and their physical visualizations.

PO7: Able to think, acquire knowledge and skills through logical reasoning and to inculcate the habit of self-learning.

PO8: Possess knowledge of the values and beliefs of multiple cultures in the local/global perspective; and being capable to effectively engage in a multicultural society and interact respectfully with diverse groups.

PO9: Develop a sense of research to predict cause-and-effect relationship.

PO10: Skilled enough technically and analytically to pursue further studies.

PO11: Motivate and inspire team members to engage with the team objectives by using management skills.

PO12: Enhance local/global employability scopes for jobs in different sectors.

Programme Name: Bachelor of Science (Hons) Mathematics

PO1: Create a hypothesis and appreciate how it relates to broader theories.

PO2: Evaluate hypotheses, theories, methods and evidence within their proper contexts at national and global level.

PO3: Solve complex problems by critical understanding, analysis and synthesis.

PO4: Demonstrate engagement with current research and developments in the subject.

PO5: Critically interpret data, write reports and apply the basics of rules of evidence.

PO6: Select, interpret and critically evaluate information from a range of sources that include books, scientific reports, journals, case studies and the internet.

PO7: Develop proficiency in the analysis of complex physical problems and the use of mathematical or other appropriate techniques to solve them.

PO8: Provide a systematic understanding of the concepts and theories of mathematics and there application in the real world – to an advanced level, and enhance career prospects in a huge array of fields.

PO9: Communicate effectively by oral, written, computing and graphical means subject-related skill for employability and entrepreneurship.

PO10: Recognize the need to engage in lifelong learning through continuing education and research at national and global level.

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Programme Name: Bachelor of Science (Hons) Zoology

PO1: Understand different field of Zoology and its different subfields (cytology, animal diversity, principles of ecology, comparative anatomy and developmental biology of vertebrates, physiology and biochemistry, genetics and evolutionary biology, animal biotechnology, applied Zoology, aquatic biology, immunology, reproductive biology, and insect, vectors and diseases, apiculture, aquarium fish keeping, medical diagnostics, and sericulture) at national level.

PO2: Understand fundamental aspects of animal science relating to management of animals.

PO3: Procedural knowledge that creates different types of professionals in the field of Zoology and related fields such as, apiculture, aquarium fish keeping, medical diagnostics, and sericulture, etc.

PO4: Enhance the understanding about the diversity of animals, their classification, structure and growth at local level

PO5: Identify various life forms of animals, their interaction with the environment and vice-versa.

PO6: Understand the economic importance of animals and animal products.

PO7: Think logically and organize tasks into a structured form.

PO8: Analyze data using appropriate statistical methods. Prepare themselves for higher studies in the field of Zoology.

PO9: Understands the compex evolutionary processes and behavior of animals.

PO10: Understands about various concepts of genetics and its importance in human health at global level.

PO11: Apply the knowledge and understanding of Zoology to one's own life and work.

PO12: Develops empathy and love towards the animals.

Programme Name: Bachelor of Science (Hons) Botany

PO1: To understand different field of Botany such as lower and higher plants, systematics of flowering plants, plant ecology, plant physiology, biochemistry, anatomy, reproduction in plants, genetics, cell and molecular biology of various forms of plants for skill development.

PO2: Enhance the understanding about the diversity of micro-organisms, their classification, structure and growth for employability and skill development at national level.

PO3: Identify various life forms of plants, their interaction with the environment and vice-versa at local level for skil development.

PO4: Capable of demonstrating comprehensive knowledge of B.Sc. Programmes.

PO5: Able to communicate various concepts of B.Sc. Programme effectively using examples and their physical visualization.

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PO6: Understand the economic and other social importance of plants and plant products at local level.

PO7: Know how to develop the plant species by using various techniques of plant breeding.

PO8: Think logically and organize tasks into a structured form.

PO9: Analyze data using appropriate statistical methods for employability and skill development

PO10: Prepare themselves for higher studies in the field of Botany at national and global level.

PO11: Lifelong learning be achieved by drawing attention to the vast world of knowledge of plants and their domestication

PO12: Enhance employability scopes for jobs in different fields at local, national and global level.

Programme Name: Bachelor of Science (PCM)

PO1: Understand different analytical methods required to interpret and analyze results after drawing the conclusions as supported by the obtained data.

PO2: Able to employ critical thinking, for the understanding of the global concepts in different areas of science and related disciplines for skill development and employability.

PO3: Capable of demonstrating comprehensive knowledge of the B. Sc. programme.

PO4: Capable of solving global physical problems by the use of theoretical and practical based knowledge.

PO5: Able to do work independently for entrepreneurship and perform in-depth study for the various notions of courses.

PO6: Able to communicate various concepts of B.Sc. programme effectively using examples and their physical visualizations at local, national or global level.

PO7: Able to think, acquire global knowledge and skills through logical reasoning and to inculcate the habit of self-learning.

PO8: Possess knowledge of the values and beliefs of multiple cultures in the global perspective; and being capable to effectively engage in a multicultural society and interact respectfully with diverse local and national groups.

PO9: Develop a sense of research to predict cause-and-effect relationship.

PO10: Skilled enough technically and analytically to pursue further studies at global level.

PO11: Motivate and inspire team members to engage with the team objectives by using global management skills.

PO12: Enhance employability scopes for jobs in different sectors.

Programme Name: Bachelor of Science (ZBC)

PO1: Understand different analytical methods required to interpret and analyze results after drawing the conclusions as supported by the obtained data.

PO2: Able to employ critical thinking, for the understanding of the global concepts in different areas of science and related disciplines for skill development and employability.

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PO3: Capable of demonstrating comprehensive knowledge of the B. Sc. programme.

PO4: Capable of solving global physical problems by the use of theoretical and practical based knowledge.

PO5: Able to do work independently for entrepreneurship and perform in-depth study for the various notions of courses.

PO6: Able to communicate various concepts of B.Sc. programme effectively using examples and their physical visualizations at local, national or global level.

PO7: Able to think, acquire global knowledge and skills through logical reasoning and to inculcate the habit of self-learning.

PO8: Possess knowledge of the values and beliefs of multiple cultures in the global perspective; and being capable to effectively engage in a multicultural society and interact respectfully with diverse local and national groups.

PO9: Develop a sense of research to predict cause-and-effect relationship.

PO10: Skilled enough technically and analytically to pursue further studies at global level.

PO11: Motivate and inspire team members to engage with the team objectives by using global management skills.

PO12: Enhance employability scopes for jobs in different sectors.

Programme Name: Bachelor of Science Home Science

PO1: Understand and appreciate the role of interdisciplinary sciences in the development and well-being of individuals, families and communities for global skill development .

PO2: Understand the sciences and technologies that enhance the quality of life of people for global skill development.

PO3: Acquire professional and entrepreneurial skills for economic empowerment of self in particular, and community in general local entrepreneurial skills.

PO4: Develop professional skills in food, nutrition, textiles, housing, product making, communication technologies and human development to provide national employability.

PO5: To take science from the laboratory to the people to provide national employability.

PO6: To Familiarize learners with the basic knowledge specific to five domains namely, Foods and Nutrition, Human Development and Family Studies, Fabric and Apparel, Resource Management and Communication and Extension for global skill development.

PO7: Inculcate healthy food habits and lifestyle to enable prevention and management of diseases for global skill development.

PO8: Become alert and aware consumer.

PO9: Appreciate the potential of entrepreneurship and other varied professional opportunities to make informed career choices to provide national employability

PO10: Apply the basics of human development with specific reference to self, family and community for global skill development.

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PO11: Utilize the skills of sensible management of various resources to provide national employability.

PO12: Be sensitized to fabric and apparel, their selection and care for global skill development to provide national employability.

SCHOOL OF SOCIAL SCIENCES

Programme Name: Bachelor of Arts General

PO1: Acquire knowledge with facts and figures concerned with subjects such as Literature and Languages, Geography, Education, History, Economics, Political Science and Psychology etc for fulfilling global needs.

PO2: Identify the basic concepts, fundamental principles and various theories in the subjects of faculty and grasp the importance of literature in creating aesthetic, mental, moral, intellectual development of an individual and increasing a healthy society at local and national level.

PO3: Understand how issues in social science influence literature globally and how literature can provide solutions to the social issues.

PO4: Gain the analytical ability to analyse critically the literature and social issues, appreciate the strength and suggest the improvements for better results.

PO5: Appreciate that social issues are no longer permanent and largely depend on political, economic changes at local and national level and also on the developments in science and technology.

PO6: Appear as a multifaceted personality who is self-dependent and creating opportunities to do so.

PO7: Develop various communication skills such as reading, listening, writing, speaking etc, which will help in expressing ideas, views clearly and effectively at local, national and global level.

PO8: Multiple communication skills that will complement to personality development nationally and globally.

Programme Name: Master of Arts Economics

PO1: Apply knowledge of economic theories and practices to solve economic problems. Understand, analyse and communicate global, legal and ethical aspects of economic environment.

PO2: Analytical and critical thinking abilities for data based decision making of economic activities at local and national level. Develop the ability to explain the core economic terms, concepts and theories globally.

PO3: Identify key microeconomics and macroeconomics indicators and measures of economics change, growth and development at local and national level.

PO4: Develop the ability to analyse the function of market and prices as locative mechanisms for fulfilling local needs.

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PO5: Acquaint with some basic concept of environmental economics along with the solution of the environmental problems at global level.

PO6: Learn the basic concept of monetary analysis and financial marketing in Indian financial markets at national level. Learn the real and monetary sides of International economics globally.

PO7: Delineate the fiscal policies designed globally for developed and developing economics.

PO8: Acquaint with some basic statistical and mathematical methods to be applied in economics.

PO9: Acquaint with some basic theoretical concept of public finance.

PO10: Familiarize and acquaint with the characteristics of the economy of India at national level.

Programme Name: Master of Arts Education

PO1: Demonstrate competence on academic ingredients from philosophical, psychological, social and scientific perspective.

PO2: Reflect critical and collaborative/cooperative abilities to not only understand but also provide guidance for coming generations.

PO3: Not just cover the curriculum but discover the curriculum to enrich their knowledge.

PO4: Interlink existing knowledge with the new generated knowledge with the help of research and collaborative efforts.

PO5: Demonstrate the skills to serve the society from the knowledge generated in higher education institutes.

PO6: Develop their personality to make themselves valuable at national as well as international level and thus satisfying national and global needs.

PO7: Establish linkages between rooted to culture and committed to progress academic environment.

PO8: Develop research capabilities to create new knowledge for better understanding and fulfill local needs of the society.

PO9: Explore the basis of Education to develop Education subject as an enriched body of knowledge.

PO10: Infer the real meaning of Education and its catalyst power to enrich the strength of the stake holders and thus satisfying local, national and global needs.

Programme Name: Master of Education (M.Ed.)

PO1: Prepare Professional personnel required for Staff College of education at the pre-primary and secondary levels.

PO2: Prepare professionals, administrators and supervisors for the various positions of responsibility in Educational Institutions, Department of Education and Educational Planning and Supervisory Educational Services.

PO3: Use learner centered teaching methods as such and with modification in future.

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PO4: Develop an understanding of paradigm shift in conceptualizing disciplinary knowledge in school curriculum.

PO5: Identify the challenging and overcoming gender inequalities in school, classroom, curricula, textbook, social institutions etc.

PO6: Enable student-teachers to integrate and apply ICT in facilitating teaching-learning process and in school management to meet national and global needs.

PO7: Systematize experiences and strengthening the professional competencies of student-teachers for satisfying national needs.

PO8: Understand the process of educational research and aptitude for and skill in conducting research in specialized areas of education and thus generate knowledge and critically evaluate knowledge to satisfy local and global needs.

PO9: Understand National and International perspectives about Educational theories and practice to enable the learners to visualize the inter-linkages and dependency among different educational systems.

Programme Name: Bachelor of Education (B.Ed.)

PO1: Teaching competency: Know, select and use of learner-centered teaching methods, understanding of paradigm shift in conceptualizing disciplinary knowledge in school curriculum, necessary competencies for organizing learning experiences, select and use of appropriate assessment strategies for facilitating learning.

PO2: Pedagogical skills: Applying teaching skills and dealing with classroom problems.

PO3: Teaching through Non-conventional Modes: Evolving a system of education which enhances the potential of every learner to acquire, retain and transform knowledge leading to wisdom society and satisfying national and global needs through creative, experiential and joyful modes of learning.

PO4: Integration of Artificial Intelligence in Education: Transform the educational landscape by providing open access to quality, value based and socially relevant education to all by harnessing the disruptive potential of AI.

PO5: Critical Thinking: Analysis of Curriculum, construction of blue print, selecting appropriate teaching strategies according to local needs of students and conducting action research to solve classroom problems.

PO6: Effective Communication: Presenting seminar before peer students and teachers and practicing communication skills through various linguistic activities and applying it for better classroom communication.

PO7: Sensitivity towards Inclusion: Identifying the diversities and dealing it in inclusive classrooms environment, guidance and counselling programmes for disabled students so that their local needs can be satisfied.

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PO8: Content Analysis and Self-directed Learning: Analyse the text-books and syllabus. Preparing scripts for seminars, lesson plans and online content.

PO9: Effective Citizen Ethics: Understand different values, morality, social-service and accept responsibility for the society.

PO10: Social Resilience: Understand about social entities and enable to tolerate absorb, cope up with adverse conditions of life.

PO11: Physical Development: Practice yoga, self-defence, sports and scouting-guiding.

PO12: Team Work: Enable to work as a member or leader in diverse teams and in multi-disciplinary settings by following the principles of collaborative learning, cooperative learning and team teaching.

Programme Name: Integrated Education (B.A.)

PO1: Use learner centred teaching methods as such and with modification in future.

PO2: Develop an understanding of paradigm shift in conceptualizing disciplinary knowledge in school curriculum.

PO3: Identify the challenging and overcoming gender inequalities in school, classroom, curricula, textbook, social institutions etc. so as to satisfy local needs.

PO4: Develop competencies among student-teachers to select and use appropriate assessment strategies for facilitating learning.

PO5: Engage student-teachers with self, child, community and school to establish close connections between different curricular areas.

PO6: Enable student-teachers to integrate and apply ICT in facilitating teaching-learning process and in school managementthus satisfying national and global needs.

PO7: Systematize experiences and strengthening the professional competencies of student-teachers so that local and national needs can be satisfied.

PO8: Provide first-hand experience of all the school activitiesto meet national and global needs.

Programme Name: Integrated Education (B.Sc.B.Ed.)

PO1: Use learner centered teaching methods as such and with modification in future.

PO2: Develop an understanding of paradigm shift in conceptualizing disciplinary knowledge in school curriculum.

PO3: Identify the challenging and overcoming gender inequalities in school, classroom, curriculum, and textbook, social institutions etc.so as to satisfy local needs.

PO4: Develop competencies among student-teachers to select and use appropriate assessment strategies for facilitating learning.

PO5: Engage student-teachers with self, child, community and school to establish close connections between different curricular areas.

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PO6: Enable student-teachers to integrate and apply ICT in facilitating teaching-learning process and in school management so as to meet global needs thus satisfying national and global needs.

PO7: Systematize experiences and strengthening the professional competencies of student-teachers.

PO8: Provide first-hand experience of all the school activities in order to meet national and global needs.

Programme Name: Master of Arts in English

PO1: To have in-depth knowledge of different periods, movements & history of English Literature through texts and authors at national and global level.

PO2: To understand techniques and acquire necessarily required linguistic competence to be mastered in various real life situations anda sense of responsibility to think and act by relating the knowledge of the field to the world, beginning with understanding local, regional, national and global linkages of different forms of knowledge and practice.

PO3: To identify, analyse, interpret and describe the critical ideas, values and themes that appear in literary and cultural texts and to understand the way these ideas, values and themes inform and impact culture and society, both now and in the past.

PO4: To demonstrate a command of written academic English, including the abilities to a) organize and present material in a cogent fashion, b) formulate and defend original arguments, c) employ effectively the language of their discipline, and d) write under time constraints.

PO5: To analyse, interpret and understand the complex interrelationships between authors, texts, and specific social, political and historical contexts, to apply critical and theoretical approaches to the reading and analysis of literary and cultural texts in multiple genres at national and global level and to write well in a variety of formats, including essays, research papers, reflective writing and critical reviews of secondary sources and to cogently convey their own interpretations and perspectives or produce new creative and artistic works themselves.

PO6: To appreciate and admired the master minds of literature and analysed a variety of literary samples to determine the components, organizations and structure of academic text.

PO7: To widen their perspective to face the literary and artistic challenges and incorporate ICT skills to clear competitive examinations like NET, SET, UPSC, TNPSC etc to meet local and national challenges.

PO8: To cultivate four language skills by structures of language through a wide variety of literary works and to write analytically in different formats like essays, reviews, research papers etc.

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Programme Name: Master of Arts in Geography

PO1: This course provides the basic ideas and concepts of Physical & Human Aspect of Geography at local, national and global level.

PO2: This course intends to orient the learner with the Approaches to the broader discipline of Geography at globally.

PO3: It will help in developing analytical and critical thinking based on the themes and issues of geography at globally.

PO4: It eventually prepares the students to understand the development of the subject and delve around issues suited to the needs of the contemporary world at local, national and global level.

PO5: It will help in exhaustive understanding of the basic concepts of Geography and an awareness of the emerging areas of the field at local, national and global level.

PO6: Acquisition of in-depth understanding of the applied aspects of Geography as well as interdisciplinary subjects in everyday life at local, national and global level.

PO7: Improvement of critical thinking and skills facilitating at globally.

PO8: The application of knowledge gained in the field of Geography in the classroom to the practical solving of social problems at local, national and global level.

PO9: The programme orients students with tradition geographical knowledge along with advance contemporary skills like remote sensing and GIS at globally.

Programme Name: Master of Arts in Hindi

PO1: हिन्दी साहित्य के विभिन्न कालों के प्रतिनिधि कवियों की कविताओं के विषय में जानकारी देना तथा हिन्दी काव्य के इतिहास की संक्षिप्त जानकारी देकर विद्यार्थियों को हिन्दी कविता के विकास क्रम से अवगत कराना है।

PO2: विद्यार्थियों को कार्यालय के कार्यों की मूलभूत जानकारी प्रदान करना ताकि वे कार्यालय के समस्त कार्यों को सुगमतापूर्वक कर सकें एवं उन्हें कम्प्यूटर का मूलभूत ज्ञान देकर कम्प्यूटर पर हिन्दी में कार्य करने में सक्षम बनाना ताकि वे समुचित रोजगार प्राप्त कर सकें।

PO3: हिन्दी गद्य की सभी विधाओं का सम्यक ज्ञान देना तथा उन्हें हिन्दी के प्रतिनिधि उपन्यासकारों ,कथाकारों, नाटककारों, एकांकीकारों ,निबन्धकारों एवं अन्य गद्य विधाओं के लेखकों के महत्वपूर्ण प्रदेय से परिचित कराना ताकि विद्यार्थी इन सभी विधाओं से परिचित हो सकें और इस क्षेत्र में विधार्थी को इस हेतु तैयार करना। और राष्ट्रीय स्तर पर एक स्वस्थ समाज के निर्माण में साहित्य के महत्व को समझना है।

PO4: भारतीय संस्कृति और साहित्य के वैश्विक प्रचार प्रसार में सहायक बनाना और विद्यार्थियों को हिन्दी के साथ साथ अंग्रेजी की प्रारंभिक और इस क्षेत्र में करियर बनाने के इच्छुक विधार्थी को इस हेतु तैयार करना है।

PO5: विद्यार्थियों को साहित्यशास्त्र और हिन्दी आलोचना के अर्थ, महत्व और विषय क्षेत्र से परिचित कराना तथा उन्हें हिन्दी आलोचना के रूप में भारतीय एवं पाश्चात्य काव्यशास्त्र के आधुनिक विकास के विविध रूपों और दिशाओं का साक्षात्कार कराना है।

PO6: हिन्दी साहित्य एवं सिनेमा की राष्ट्रीय काव्य चेतना से जुडे कवियों की रचनाओं के माध्यम से भारतीय विद्यार्थियों में राष्ट्र के प्रति अनुराग जाग्रत करना और उन्हें भारतीय संस्कृति की विशिष्टता और महानता के विविध पक्षों

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से अवगत कराना और इस क्षेत्र में करियर बनाने के इच्छुक विधार्थी को इस हेतु तैयार कराना और राष्ट्रीय स्तर पर एक स्वस्थ समाज के निर्माण में साहित्य के महत्व को समझना है।

PO7: विद्यार्थियों को भाषा के अंगों हिन्दी भाषा के उदभव तथा विकास और देवनागरी लिपि के स्वरूप की जानकारी कराना एवं उन्हें हिन्दी की संवैधानिक स्थितिसे परिचित कराना।

PO8: विद्यार्थियों को भारतीय संस्कृति में जनश्रुति से निर्मित साहित्य के महत्वपूर्ण योगदान से विद्यार्थियों को परिचित कराना तथा लोक संस्कृति के विकास क्रम से विद्यार्थियों को अवगत कराना।

PO9: विश्व की सर्वाधिक वैज्ञानिक भाषा अर्थात हिन्दी में रोजगार कौशल प्राप्त होगा और विश्व स्तर पर व्यक्तित्व विकास के पूरक होंगे।

PO10: भाषा को शुद्ध बोलना, पढ़ना और लिखना आदि का विकास होता हैं ।

PO11: हिन्दी भाषा को राष्ट्र भाषा बनाने के लिए व इसकी महत्ता को समझने की क्षमता में वृद्धि होती हैं ।

PO12: साहित्य के मूलभूत स्वरूप यथा विभिन्न विधाओ, हिन्दी के रोजगारपरक स्वरूप आदि की जानकारी प्राप्त होगी। जो राष्ट्रीय और विश्व स्तर पर व्यक्तित्व विकास के पूरक होंगे।

Programme Name: Master of Arts in Journalism & Mass Communication

PO1: Apply knowledge of Journalism & Mass Communication theories and practices to solve the problems of media industries.

PO2: Have analytical and critical thinking abilities for data- based decision making. Develop value based leadership ability.

PO3: Understand, analyze and communicate global, economic, legal, and ethical aspect of media industry.

PO4: Lead themselves and others in achievement of media organizational goals, contributing effectively to a team environment. Determine the media entrepreneurial skill, in addition, this course will develop media-related research abilities among students.

PO5: Choose the best possible investment decisions for the media enterprise.

PO6: Develop an understanding history of Regional, Indian and Global Journalism & Mass Communication. Sensitize students to the cultural, educational, social, and political & women issues of the society.

PO7: Make the students aware of present scenario of media in various countries.

PO8: Identify the devices used in reporting and audio - visual programme production. Develop an understanding of news and news value.

Programme Name: Bachelor of Arts in Journalism

PO1: Apply knowledge of Journalism & Mass Communication theories and practices to solve the problems of media industries.

PO2: Analytical and critical thinking abilities for data- based decision making. Ability to develop value based leadership ability.

PO3: Ability to understand, analyze and communicate global, economic, legal, and ethical aspect of media industry.

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PO4: Ability to lead themselves and others in achievement of media organizational goals, contributing effectively to a team environment.

PO5: Determine the entrepreneurial skill, research design, data collection skill. Choose the best possible investment decisions for the media enterprise.

PO6: Field reporting of local, National & Global areas, and Different types of media writing & Editing for print & electronic media. Professional audio-visual programme production, press photogrpaghy, different types of shots, Photo Editing & printing techniques.

PO7: Know about the different types of effective communication, news reading, anchoring, and Making different types of film & advertisement for different media.

PO8: Know about the use of the computer and different types of software for print and electronic media. To know about importance of press law, regulation and ethics of print electronic and social media.

Programme Name: Master of Arts in Sociology

PO1: Able to develop ethical approach, culture-sensitive, eclectic and evidence-based participatory practice at to fulfill national & Global needs.

PO2: These concepts will enhance the conceptual learning and understanding of the basic concepts used in Sociology at national level.

PO3: Able to know social issues. concerns and challenges and work in the areas such as - local self-governance, rural development, development of scheduled castes and scheduled tribes, welfare of the persons with disabilities (both mental & physical) to fulfill local needs.

PO4: The course is designed to incorporate all the key concepts of sociology which would enable the learner to develop keen insights To distinguish between the commonsense knowledge and Sociological knowledge.

PO5: Students able to understand Modern Sociological Theories, Methods and Techniques Statics of Sociological Research.

PO6: This course provides comprehensive understanding of Indian society. This course provides the knowledge about classical thinkers, pioneers of Indian society, social process, social development, social change & social movement to fulfill national needs.

PO7: Students able to understand basic knowledge of society, Management, Organizational Behavior, rural sociology, urban sociology, political sociology, Industrial Sociology, Social Demography, Science, Technology, Media, Culture and Comparative Sociological Theories.

PO8: Students able to understand Disaster Management, Environmental Science ,Human Rights, Health Gender, crime , Law and Society, Criminology , Penology and Deviance.

PO9: Students able to develop holistic approach towards the knowledge; skilled, empowered and gain insights with excellence in specific areas. And also can get employment both in

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the public and sector in the country and abroad an opportunity to be self-employed and starting own NGOs to fulfill national & Global needs.

Programme Name: Bachelor of Library & Information Science (B. L. & I. SC.)

PO1: Students will gain training in modern library management as they are ready for employment in academic local and national.

PO2: Prepare students for careers in public, school, corporate, museum, special, or research libraries for local and national organizations by teaching them modern library administration.

PO3: Train the students in modern library administration and prepare them for careers Museum and Special or Research Libraries

PO4: Provide educations and training to future library professionals globally.

PO5: Develop human resources for libraries and information centres to provide effective and efficient services, as well as professional values, dedication, and attitude in the worldwide context.

PO6: Provide students with the knowledge and skills needed to carry out various housekeeping operations in libraries and information centres using ICT in the local area.

PO7: By teaching employability skills based on effective communication, critical thinking, and ethical literacy on a national level, LIS instructors may help students become qualified professionals in their industry.

PO8: Enable to become lifelong learners for their personal growth and development.

Programme Name: Master of Library & Information Science (M. L. & I. SC)

PO1: Students receive training in modern library management as they become ready for careers in academic, public, school, corporate, museum, and special or research libraries around the country.

PO2: Impart knowledge and education to cultivate local prospective libraries

PO3: Develop manpower for libraries and information centers for effective and efficient services, professional values, dedication and attitude.

PO4: Offering students the knowledge and abilities they need to utilize ICT globally to carry out various housekeeping tasks at libraries and information centers.

PO5: By emphasizing employability skills based on effective communication, critical thinking, and ethical literacy on a national scale, developed LIS students into competent professionals in the field.

PO6: Enabling lifelong learning for their own development and growth. Increase staffing in libraries and information centers for effective and efficient service, as well as for commitment to and professionalism in local and national communities.

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PO7: Knowledge management education and training. Offer the students the skills they need to use advanced information technology in libraries at a national level.

PO8: Equip the students to carry out researches in different fields of Library and Information

Programme Name: Master of Social Work (MSW)

PO1: Able to understand basic knowledge of subject, education, training and employ-ability in professional social work in order to create qualified personnel and provide manpower in development and allied fields at national level.

PO2: Able to develop ethical approach, culture-sensitive, eclectic and evidence-based participatory practice.

PO3: Able to imbibe the basic and professional knowledge, skills, attitudes, ethics and values appropriate to the practices of social work profession to fulfill local needs.

PO4: Able to develop integration of theory and practice in the various fields of social work profession to fulfill global needs. And also know process of research, Types and collection of data and also statistics.

PO5: Able to develop and improve skills in interdisciplinary collaboration for better understanding of social issues, social problems, issues of social development and needed services at national level.

PO6: Able to know social issues. concerns and challenges and work in the areas such as - local self-governance, rural development, development of scheduled castes and scheduled tribes, welfare of the persons with disabilities (both mental & physical) to fulfill local needs.

PO7: Able to develop care for the aged, sex and child abuse, correctional administration, public health, drug addiction, poverty and unemployment, slum improvement, conflict-resolution, family & marriage counselling, labour welfare, corporate social responsibility, skilled and digital India and the likes to fulfill national needs.. After successful completion of the Master of Social Work programme,

PO8: Students able to develop holistic approach towards the professional knowledge; skilled, empowered and gain insights with excellence in specific areas.

PO9: Students also can get employment both in the public and private sector in the country and abroad an opportunity to be self-employed and starting own NGOs to fulfill national & Global needs.

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FACULTY OF PHARMACY

Programme Name: Bachelor of Pharmacy (B.Pharm.)

PO1: Provide basic knowledge for understanding the principles and their applications in the area of pharmaceutical sciences and technology, biomedical sciences, behavioral, social and administrative pharmacy sciences, and manufacturing practices.

PO2: Develop the ability for in-depth analytical and critical thinking in order to identify, formulate and solve the issues related to Clinical Pharmacy, Pharmaceutical Industry, Regulatory Agencies, and Hospital Pharmacy & Community Pharmacist.

PO3: Apply the analytical approach, development of clearly and critical thought process, while solving the problems and making decisions during daily practice at local, regional and global platform.

PO4: Learn, select and apply appropriate methods and procedures, resources, and modern pharmacy- related computing tools with an understanding of their optimization.

PO5: Develop the leadership and team-building skills for fulfillment of professional responsibilities in health care systems.

PO6: Identify the need to engage in independent and life-long learning with special reference to technology and recent innovations. Capable to undergo self- assessment and utilization of feedback in an effective way to identify the learning needs.

PO7: Follow the code of ethics and commit to professional values, responsibilities and set rules of the pharmacy at national and international level.

Programme Name: Master of Pharmacy (M.Pharm.) (All Specialisations)

PO1: Explain the knowledge of the basics and advanced pharmaceutical sciences and the ability to acquire, manage and use current information with problem solving approach.

PO2: Perform the synthesis, development of analytical techniques for identification, characterization and quantification of drugs, formulation, pharmacological, pharmacognostical, biotechnological and regulatory aspects of drugs and biomolecules.

PO3: Undergo the applied and interdisciplinary research for betterment of society at national and international level.

PO4: Comply and work on rules and regulations involved in the drug discovery & development, manufacture and other allied area of the field.

PO5: Develop problem-based learning approach and analytical thinking in his/her academic and professional life.

PO6: Apply critical thinking skills, including investigation, application, analysis, and creativity, evaluation of information, data and documents related to research at local, regional and global platform.

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PO7: Tackle professional challenges through lifelong learning attitude.

PO8: Demonstrate the ability to plan and implement professional activities.

PO9: Act efficiently as a leader in the diverse areas of the profession including writing research papers and articles of contemporary trends.

PO10: Apply the knowledge and skills to gain recognition in professional circle as well as society.

PO11: Make initiatives to create awareness in society about the effective and safe use of medicines.

PO12: Exercise ethical practices and moral values in personal and professional endeavors.