

## **Programmes Offered**

### **School of Engineering & Technology**

1. B.Tech Electrical Engineering
2. B.Tech Mechanical Engineering
3. B.Tech Civil Engineering
4. B.Tech Mining Engineering
5. B.Tech Computer Science Engineering
6. Bachelor of Computer Application [BCA]
7. M.Tech Mechanical Engg(Production)
8. M.Tech Electrical Engg.(Power System & power Electronics)
9. M.Tech in Remote Sensing
10. M.Tech in Civil (Structural Engineering)
11. M.Tech in Computer Science &Engg.
12. Master of Computer Application

### **School of Basic & Applied Sciences**

1. Bachelor of Science [B.Sc.]
2. M.Sc in Chemistry
3. M.Sc in Geo Informatics
4. MASTER OF SCIENCE [Physics]
5. MASTER OF SCIENCE [ Mathematics]
6. MASTER OF SCIENCE [ Zoology]
7. MASTER OF SCIENCE [ Botany]

### **School of Management Studies**

1. Bachelor of Business Administration [BBA]
2. Bachelor of Commerce(Hons.) [B.Com]
3. Bachelor of Hotel Management [BHM]
4. Master of Business Administration - General

### **School of Agriculture & Technology**

1. B.Sc. Agriculture (Hons.)
2. Integrated B.Sc. in Agriculture-MBA

### **School of Pharmacy**

- 1 Bachelor of Pharmacy

### **School of Arts & Humanities**

1. Bachelor of Arts
2. Master of Arts in Political Science
3. Bachelor of Library & Information Science
4. Master of Library science [M.Lib.]

### **School of Legal Studies**

1. BA-LLB (INTEGRATED)
2. BBA-LLB(Integrated)
3. Bachelor of Law [LLB]
4. Master of Laws

### **School of Vocational Studies**

- 1. B.VOC [Fashion]**
- 2. B.VOC [Interior]**
- 3. B.VOC [Graphics]**

# **PROGRAM OUTCOMES & PROGRAM SPECIFIC OUTCOMES**

## **School of Engineering & Technology**

### **Bachelor of Technology [B.Tech]**

#### **Program Outcomes (POs)**

##### **1. Engineering Knowledge:**

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

##### **2. Problem Analysis:**

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

##### **3. 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

##### **4. 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.

##### **5. 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.

##### **6. The Engineer and Society:**

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.

#### **7. 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

#### **8. Ethics:**

Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

#### **9. Individual and Team Work:**

Function effectively as an individual and as a member or leader in diverse teams and individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

#### **10. 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.

#### **11. Project Management and Finance:**

Demonstrate knowledge and understanding of the engineering and 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.

#### **12. Life Long Learning**

Recognize the need for, and have the preparation and ability to engage in independent and lifelong learning in the broadest context of technological change.

# **Bachelor of Electrical Engineering**

## **Program Specific Objectives (PSOs)**

1. To apply the fundamental of engineering knowledge for identifying, formulating and find out the optimal solution for the problems of electrical & electronics engineering and thereby implementing it by making projects.
2. Integrate the knowledge of fundamental Electrical and Electronics, Power Electronics, Machines, Communication, and Embedded system for controllability and sustainability of Electrical systems.
3. To integrate software and hardware solutions for real time problems faced in commercial/ industrial areas.
4. To contribute in the development of automation, smart grid and Sustainable energy to meet the increasing demands of society.

# **Bachelor of Mechanical Engineering**

## **Program Specific Objectives (PSOs)**

1. To use knowledge of Mechanism Layout, Force Analysis and design calculations to develop and maintain different Engineering systems.
2. To demonstrate the knowledge and understanding of Project Engineering and Manufacturing Technology and apply them to manage projects and optimize production process.
3. To use the knowledge of Mechanical Engineering to design and develop environmentally sustainable power generation system to fulfill the needs of society.
4. An ability to find out, articulate the local industrial problems and solve with the use of Mechanical Engineering tools for realistic outcomes

# **Bachelor of Civil Engineering**

## **Program Specific Objectives (PSOs)**

- 1:** The Graduates of this program with proficiency in mathematics and physical sciences will excel in the core areas of civil engineering such as structural, environmental and water resources engineering
- 2:** To develop and design sustainable and smart infrastructure considering the global environmental challenges.
- 3:** Understand modern management and construction techniques to complete projects within the stipulated period and funds.
- 4:** Graduates will be able to pursue of lifelong learning and professional development to face the challenging and emerging needs of our society.

# **Bachelor of Mining Engineering**

## **Program Specific Objectives (PSOs)**

1. Graduating students will be able to solve the mining engineering problems by application of knowledge of engineering, geo-technology, economics, environment & management.
2. To develop technical manpower to design mine excavations plan and conduct mining operations under a variety of geo-mining environments.
3. Achieve all round optimization of various unit operations of mining, ranging from exploration to beneficiation.
4. Analyze and evaluate the techno-economic feasibility of mining projects and deep understanding of economic and environmental implications of mine design and operations.

# **Bachelor of Computer Science Engineering**

## **Program Specific Objectives (PSOs)**

**1:** The ability to understand, analyze and develop computer programs in the areas related to algorithms, system software, multimedia, web design, big data analytics, and networking for efficient design of computer-based systems of varying complexity.

**2:** The ability to understand the evolutionary changes in computing, apply standard practices and strategies in software project development using open-ended programming environments to deliver a quality product for business solution, real world problems and meet the challenges of the future.

**3:** The ability to employ modern computer languages, environments, and platforms in creating innovative career paths to be an entrepreneur, lifelong learner with zest for knowledge and to act as a good citizen by inculcating in them moral values & ethics.

**4:** Analyzing the impact of Computer Science and Engineering solutions in the societal and human context.

## **Bachelor of Computer Application [BCA ]**

### **Program Outcomes (POs)**

PO-1. Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and engineering Specialization to the solution of complex engineering problems.

PO-2. Problem analysis: Identify, formulate, research literature, and analyze engineering problems to arrive at substantiated conclusions using the first principles of mathematics, natural, and engineering sciences.

PO-3. Design/development of solutions: Design solutions for complex engineering problems and design system components, processes to meet the specifications with consideration for the public health and safety, and the cultural, societal, and environmental considerations.

PO-4. Conduct investigations of complex problems: Use research-based knowledge including design of experiments, analysis, and interpretation of data, and synthesis of the information to provide valid conclusions.

PO-5. 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.

PO-6. The engineer and society: Apply to reason informed by the contextual knowledge to assess societal, health, safety, legal, and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

PO-7. 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.

PO-8. Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO-9. Individual and teamwork: Function effectively as an individual, and as a member or leader in teams, and in multidisciplinary settings.

PO-10. Communication: Communicate effectively with the engineering community and with society at large. Be able to comprehend and write effective reports documentation. Make effective presentations, and give and receive clear instructions.

PO-11. Project management and finance: Demonstrate knowledge and understanding of engineering and management principles and apply these to one's work, as a member and leader in a team. Manage projects in multidisciplinary environments.

PO-12. 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.



## **Program Specific Objectives**

PSO-1: The ability to understand, analyze, and develop computer programs in the areas of computer science and application for efficient design of computer-based systems of varying complexity.

PSO-2: The ability to understand the evolutionary changes in computing, apply standard practices and strategies in software project development to deliver a quality product for business solutions, real-world problems, and meet the challenges of the future.

PSO-3: The ability to employ modern computer language platforms in creating innovative career paths to be an entrepreneur, lifelong learner with moral values & ethics.

PSO-4: Analyzing the impact of Computer Science and Engineering solutions in the societal and human context.

## **M.Tech. Mechanical Engineering (Production Engineering)**

### **Program outcomes (POs)**

#### 1. Engineering knowledge:

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

#### 2. Problem analysis:

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

#### 3. 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

4. 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.

5. 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.

6. The engineer and society: 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.

7. 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

8. Ethics:

Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

9. Individual and team work:

Function effectively as an individual and as a member or leader in diverse teams and individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

10. 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.

11. Project management and finance:

Demonstrate knowledge and understanding of the engineering and 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.

## 12. Life Long Learning

Recognize the need for, and have the preparation and ability to engage in independent and lifelong learning in the broadest context of technological change.

### **Program Specific Objectives (PSOs)**

1. A commitment to lifelong learning, quality and continuous improvement through the clear ability to assume increasing levels of technical and/or management responsibility.
2. Leadership and participation in teams that act as change agents and innovators in product design and manufacturing related organizations.
3. The ability to drive the design of manufacturable products, design effective and efficient new production processes and improve the performance of existing operations.
4. To develop the effective technical communication.

## **M.Tech. (Power System and Power Electronics)**

### **Program Specific Objectives (PSOs)**

1. To apply the fundamental of engineering knowledge for identifying, formulating and find out the optimal solution for the problems of electrical & electronics engineering and thereby implementing it by making projects.
2. Integrate the knowledge of fundamental Electrical and Electronics, Power Electronics, Machines, Communication, and Embedded system for controllability and sustainability of Electrical systems.
3. To integrate software and hardware solutions for real time problems faced in commercial/ industrial areas.
4. To contribute in the development of automation, smart grid and Sustainable energy to meet the increasing demands of society.

# M.Tech Remote Sensing

## Programme Outcomes

**PO1. Engineering knowledge:** Apply the knowledge of mathematics, science and engineering fundamentals to the formulation and conceptualization of Remote Sensing and Geomatics theory and model.

**PO2. Problem analysis:** Identify, formulate and solve engineering problems.

**PO3. Design/development of solutions:** Design and evaluate solutions for efficient management of natural, socio-economic resources through intervention of Remote Sensing and Geomatics tools.

**PO4. Conduct investigations of complex problems:** Conduct investigations of Remote Sensing and Geomatics engineering problems including literature survey, appropriate methodology, analysis, interpretation of data and synthesis of information to provide valid conclusion.

**PO5. Modern tool usage:** Create, select and apply appropriate techniques and modern engineering tools including analysis, modelling and design software, with due understanding of the limitations.

**PO6. The Engineer and Society:** Conduct themselves to uphold the professional and social obligations.

**PO7. Environment and Sustainability:** Understand the Socio economic impact of Remote Sensing and Geomatics Engineering solutions for sustainable development.

**PO8. Ethics:** Understand and commit to professional ethics and responsibilities of Remote Sensing and Geomatics Engineer and to contribute to the society for sustainable development.

**PO9. Individual and Team Work:** Function effectively as an individual and as a member or leader in diverse teams and in multi- disciplinary settings and demonstrating a capacity for self-management and teamwork, decision-making based on open-mindedness, objectivity and rational analysis.

**PO10. Communication:** Communicate effectively with the engineering community and with society at large, and write reports and make effective presentations.

**PO11. Project Management and Finance:** Demonstrate Knowledge of management and business practices, such as risk and change management and understand their limitations.

**PO12. Life-long learning:** Develop ability to engage in independent and life-long learning to improve competence by critical examination of the outcomes of one's actions and learning from corrective and preventive measures.

## **M.Tech Programme Specific Outcomes**

**PSO 1:** To prepare the students in identifying, analysing and solving geospatial problems.

**PSO 2:** To train the students in developing practical and executable solutions to the challenges of growing field of Remote Sensing and GIS.

**PSO 3:** To impart the students with strong base of knowledge that makes them suitable both for industries as well as for teaching and research.

**PSO 4:** To inculcate the students with the sensitivity towards ethics, public policies and their responsibilities towards the society. **Sangam University**

## **M.Tech Structural Engineering**

### **Programme Outcomes (POs)**

Engineering Post Graduates will be able to:

**PO 1: Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

**PO 2: 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.

**PO 3: 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.

**PO 4: 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.

**PO 5: 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.

**PO 6: The engineer and society:**

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.

**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.

**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 and in multidisciplinary environments.

**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.

### **PROGRAM SPECIFIC OUTCOMES (PSO's)**

**PSO 1:** The Graduates of this program with proficiency in mathematics and physical sciences will excel in the core areas of civil engineering such as structural, environmental and water resources engineering

**PSO 2:** To develop and design sustainable and smart infrastructure considering the global environmental challenges.

**PSO 3:** Understand modern management and construction techniques to complete projects within the stipulated period and funds.

**PSO4:** Graduates will be able to pursue of lifelong learning and professional development to face the challenging and emerging needs of our society.

## **Master of Computer Application**

### **Program Outcomes (POs)**

**PO-1. Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and engineering Specialization to the solution of complex engineering problems.

**PO-2. Problem analysis:** Identify, formulate, research literature, and analyze engineering problems to arrive at substantiated conclusions using first principles of mathematics, natural, and engineering sciences.

**PO-3. Design/development of solutions:** Design solutions for complex engineering problems and design system components, processes to meet the specifications with consideration for the public health and safety, and the cultural, societal, and environmental considerations.

**PO-4. Conduct investigations of complex problems:** Use research-based knowledge including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

**PO-5. 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.

**PO-6. The engineer and society:** 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.

**PO-7. 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.

**PO-8. Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

**PO-9. Individual and team work:** Function effectively as an individual, and as a member or leader in teams, and in multidisciplinary settings.

**PO-10. Communication:** Communicate effectively with the engineering community and with society at large. Be able to comprehend and write effective reports documentation. Make effective presentations, and give and receive clear instructions.

**PO-11. Project management and finance:** Demonstrate knowledge and understanding of engineering and management principles and apply these to one's own work, as a member and leader in a team. Manage projects in multidisciplinary environments.

**PO-12. 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

#### **PROGRAM SPECIFIC OUTCOMES (PSO's)**

**PSO-1:** The ability to understand, analyze and develop computer programs in the areas related to algorithms, system software, multimedia, web design, big data analytics, and networking for efficient design of computer-based systems of varying complexity.

**PSO-2:** The ability to understand the evolutionary changes in computing, apply standard practices and strategies in software project development using open-ended programming environments to deliver a quality product for business solution, real world problems and meet the challenges of the future.

**PSO-3:** The ability to employ modern computer languages, environments, and platforms in creating innovative career paths to be an entrepreneur, lifelong learner with zest for knowledge and to act as a good citizen by inculcating in them moral values & ethics.

**PSO-4:** Analysing the impact of Computer Science and Engineering solutions in the societal and human context.



# School of Basic & Applied Science

## BACHELOR OF SCIENCE [B.SC.]

### PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

**PEO 1** Graduates will pursue higher studies in related fields including management

**PEO 2** Graduates will perform as employers in private/government institutions rising up to top positions

**PEO 3** Graduates will become entrepreneurs

### PROGRAM OUTCOMES [PO'S]

**PO-01. Scientific knowledge:** Apply the knowledge of basic science fundamentals to the solution of complex scientific problems.

**PO-02:Problem analysis:** Identify, formulate, review research literature, and analyze complex scientific problems reaching substantiated conclusions using principles of Physics, Chemistry, Mathematics, Zoology, Botany and Applied Sciences.

**PO-03:Design/development of solutions:** Design solutions for complex scientific 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.

**PO-04.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.

**PO-05. Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern chemical IT tools including prediction and modeling to complex chemical activities with an understanding of the limitations.

**PO-06. Social Interaction:** Elicit views of others, mediate disagreements and help reach conclusions in group settings.

**PO-07. Environment and Sustainability:** Understand the issues of environmental contexts and sustainable development.

**PO-08. Ethics:** Recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them

**PO-09. Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

**PO-10: Effective Communication:** Speak, read, write and listen clearly in person and through electronic media in English and in one Indian language, and make meaning of the world by connecting people, ideas, books, media and technology.

**PO-11. Project management and finance:** Demonstrate scientific knowledge with the understanding of the 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.

**PO-12 Self-directed and Life-long Learning:** Acquire the ability to engage in independent and life-long learning in the broadest context research, scientific and technological change.

## **Program Specific Outcomes**

On the successful completion of the B.Sc. [PCM] Program the students are able to,

### **PSO-1**

Understand the basic principles and theories of the main areas of the organic, inorganic, analytical, physical and biological chemistry and its applications and able to apply chemical knowledge in many applications.

### **PSO-2**

Understand and apply the basic laws of physics in the areas of classical mechanics, Newtonian gravitation, special relativity, electromagnetism, geometrical and physical optics, quantum mechanics, thermodynamics and statistical mechanics.

### **PSO-3**

Understands the concepts of calculus, differential equations,, algebra , analysis and mechanics. Develop power of reasoning, critical thinking, problem solving ability, developing new ideas, drawing logical conclusions and high level of numeracy.

### **PSO-4**

To make accurate use of English and Computers in their respective fields and improve their employability

## **Program Specific Outcomes**

On the successful completion of the B.Sc. [CBZ] Program the students are able to,

**PSO-1** Understand the basic principles and theories of the main areas of the organic, inorganic, analytical, physical and biological chemistry and its applications and able to apply chemical knowledge in many applications.

**PSO-2** Understands the nature of basic concepts of Plant cell biology, Taxonomy ,ecology, interrelationships of different plant groups and their evolutionary tendencies and acquire capability of applying the Knowledge in the areas of like Agriculture, Plant Medicines, Horticulture and Tissue culture.

**PSO-3:** Emphasize the diversity in form and function of animals. Helps to plan, implement, monitor & evaluate ones health activities to prevent themselves from deadly diseases based on Theoretical & Practical Knowledge.

**PSO-4** To make accurate use of English and Computers in their respective fields and improve their employability

## **M.SC. CHEMISTRY**

### **Program Educational Objectives (PEOs):**

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**PEO-01:** To have advance knowledge of chemistry domain.

**PEO-02:** To provide the professional services to industry, Research organization, institutes.

**PEO-03:** To provide the professional consultancy and research support for the relevant organization in the domain of super specialization.

**PEO-04:** To opt for higher education, disciplinary & multi-disciplinary research and to be a life-long learner.

**PEO-05:** To provide, value based and ethical leadership in the professional and social life.

## **Program Outcomes [PO's]**

- PO-01. Scientific knowledge:** Apply the knowledge of basic science fundamentals to the solution of complex scientific problems.
- PO-02:Critical Thinking:** Take informed actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions (intellectual, organizational, and personal) from different perspectives.
- PO-03:Design/development of solutions:** Design solutions for complex scientific 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.
- PO-04.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.
- PO-05. Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern chemical IT tools including prediction and modeling to complex chemical activities with an understanding of the limitations.
- PO-06. Social Interaction:** Elicit views of others, mediate disagreements and help reach conclusions in group settings.
- PO-07. Environment and Sustainability:** Understand the issues of environmental contexts and sustainable development.
- PO-08. Ethics:** Recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them
- PO-09. Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- PO-10: Effective Communication:** Speak, read, write and listen clearly in person and through electronic media in English and in one Indian language, and make meaning of the world by connecting people, ideas, books, media and technology.
- PO-11. Project management and finance:** Demonstrate scientific knowledge with the understanding of the 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.

**PO-12 Self-directed and Life-long Learning:** Acquire the ability to engage in independent and life-long learning in the broadest context socio-technological changes

### **PROGRAM SPECIFIC OUTCOMES [PSO's]**

**PSO-1.** Develop knowledge, understanding and expertise in their chosen field of chemical science.

**PSO-2.** Develop an understanding of eco-friendly chemical processes and impact of chemistry on health and environment.

**PSO-3.** Understand theoretical concepts of organic analysis, estimation, separation, derivative process, instruments that are commonly used in most chemistry fields as well as interpret and use data generated in instrumental chemical analyses.

**PSO-4.** Provide opportunities to excel in academics, research or Industry.

## **M. Sc. in Geoinformatics**

### **Program Educational Objectives (PEOs)**

**PEO 1:** To prepare the students in identifying, analysing and solving geospatial problems.

**PEO 2:** To train the students in developing practical and executable solutions to the challenges of growing field of Remote Sensing and GIS.

**PEO 3:** To impart the students with strong base of knowledge that makes them suitable both for industries as well as for teaching and research.

**PEO 4:** To inculcate the students with the sensitivity towards ethics, public policies and their responsibility towards the society.

## PROGRAM OUTCOMES [PO'S]

- PO-01. Scientific knowledge:** Apply the knowledge of basic science fundamentals to the solution of complex scientific problems.
- PO-02 :Problem analysis:** Identify, formulate, review research literature, and analyze complex scientific problems reaching substantiated conclusions using principles of Physics, Chemistry, Mathematics, Zoology, Botany, Geo-Informatics, and Applied Sciences.
- PO-03:Design/development of solutions:** Design solutions for complex scientific 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.
- PO-04.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.
- PO-05. Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern chemical IT tools including prediction and modeling to complex chemical activities with an understanding of the limitations.
- PO-06. Social Interaction:** Elicit views of others, mediate disagreements and help reach conclusions in group settings.
- PO-07. Environment and Sustainability:** Understand the issues of environmental contexts and sustainable development.
- PO-08. Ethics:** Recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them
- PO-09. Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- PO-10: Effective Communication:** Speak, read, write and listen clearly in person and through electronic media in English and in one Indian language, and make meaning of the world by connecting people, ideas, books, media and technology.
- PO-11. Project management and finance:** Demonstrate scientific knowledge with the understanding of the 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.
- PO-12 Self-directed and Life-long Learning:** Acquire the ability to engage in independent and life-long learning in the broadest context research, scientific and technological change.

### **Program Specific Outcomes (PSOs)**

On completion of this course, students should be able to:

- PSO1** Explain basic physical principles of remote sensing, Geographical Information System, GNSS and relevant theories.
- PSO2** Understand Geospatial and earth observation technology to generate, integrate, analyse and visualize spatial data as well as principles of databases and data models.
- PSO3** Know the appropriate use of geospatial data for different applications
- PSO4** Apply research skills to formulate and carry out independent research in the general field of geoinformatics

## **Master of Science- Mathematics**

### **Programme Educational Objectives (PEOs) – MSc (Mathematics)**

**PEO 1.** To equip students with knowledge, abilities and insight in mathematics and related fields.

**PEO 2.** To enable them to work as a mathematical professional.

**PEO 3.** To equip students with the ability to translate and synthesize their understanding towards nature, human and development.

**PEO 4.** To develop the ability to utilize the mathematical problem solving methods such as analysis, modeling, and programming and mathematical software applications in addressing the practical and

heuristic issues.

**PEO 5.** To enable students to recognize the need for and the ability to engage in life-long learning

### **Program Specific Outcomes(PSO**

**PSO-1:** Understand the mathematical concepts and applications in the field of algebra, analysis, computational techniques, optimization, differential equations, engineering, finance and actuarial science.

**PSO-2:** Handle the advanced techniques in algebra, analysis, computational techniques, optimization, differential equations, engineering, finance and actuarial science to analyze and design algorithms solving variety of problems related to real life problems.

**PSO-3:** Adopt changing scientific environment in the process of sustainable development by using mathematical tools.

**PSO-4:** Have necessary skills and expertise in the field of research and developments through seminar and dissertation.

### **PROGRAM OUTCOMES [PO'S]**

**PO-01. Scientific knowledge:** Apply the knowledge of basic science fundamentals to the solution of complex scientific problems.

**PO-02:Problem analysis:** Identify, formulate, review research literature, and analyze complex scientific problems reaching substantiated conclusions using principles of Physic, Chemistry, Mathematics, Zoology, Botany, Geo-Informatics, and Applied Sciences.

**PO-03:Design/development of solutions:** Design solutions for complex scientific



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.

**PO-04. 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.

**PO-05. Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern chemical IT tools including prediction and modeling to complex chemical activities with an understanding of the limitations.

**PO-06. Social Interaction:** Elicit views of others, mediate disagreements and help reach conclusions in group settings.

**PO-07. Environment and Sustainability:** Understand the issues of environmental contexts and sustainable development.

**PO-08. Ethics:** Recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them

**PO-09. Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

**PO-10. Effective Communication:** Speak, read, write and listen clearly in person and through electronic media in English and in one Indian language, and make meaning of the world by connecting people, ideas, books, media and technology.

**PO-11. Project management and finance:** Demonstrate scientific knowledge with the understanding of the 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.

**PO-12. Self-directed and Life-long Learning:** Acquire the ability to engage in independent and life-long learning in the broadest context research, scientific and technological change.

# M.SC. PHYSICS

## Program Educational Objectives (PEOs):

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**PEO-1:** Postgraduate will have significant prospects in the various fields like academics, industry, research organization, consultancy, defence and entrepreneurial pursuit at national and international level.

**PEO-2:** Postgraduate will achieve peer recognition as an individual or team member having specialized knowledge and expertise to identify, formulate, investigate, analyze and implement on the problems in physical sciences.

**PEO-3:** Postgraduate will have a solid foundation for academic excellence and quality leadership to meet the challenges in interdisciplinary and multi-disciplinary environment.

**PEO-4:** Postgraduate will have ability to adopt, absorb and develop innovative and new technology in physical sciences and related areas through lifelong learning process.

**PEO-5:** Postgraduate will inculcate value system and work ethically in a multidisciplinary environment, to enhance the advancement in physics in general and contribute significantly through their critical thinking and scientific competence

## **PROGRAM OUTCOMES [PO'S]**

**PO-01. Scientific knowledge:** Apply the knowledge of basic science fundamentals to the solution of complex scientific problems.

**PO-02:Problem analysis:** Identify, formulate, review research literature, and analyze complex scientific problems reaching substantiated conclusions using principles of Physics, Chemistry, Mathematics, Zoology, Botany, Geo-Informatics, and Applied Sciences.

**PO-03:Design/development of solutions:** Design solutions for complex scientific 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.

**PO-04. 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.

**PO-05. Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern chemical IT tools including prediction and modeling to complex chemical activities with an understanding of the limitations.

**PO-06. Social Interaction:** Elicit views of others, mediate disagreements and help reach conclusions in group settings.

**PO-07. Environment and Sustainability:** Understand the issues of environmental contexts and sustainable development.

**PO-08. Ethics:** Recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them

**PO-09. Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

**PO-10. Effective Communication:** Speak, read, write and listen clearly in person and through electronic media in English and in one Indian language, and make meaning of the world by connecting people, ideas, books, media and technology.

**PO-11. Project management and finance:** Demonstrate scientific knowledge with the understanding of the 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.

**PO-12 Self-directed and Life-long Learning:** Acquire the ability to engage in independent and life-long learning in the broadest context research, scientific and technological change.

### **PROGRAMME SPECIFIC OUTCOMES (PSOs)**

**PSO-1:** Have fundamental and advanced level knowledge in physics particularly classical mechanics, quantum mechanics, statistical mechanics, nuclear and high energy physics, solid state physics, materials science and electronics.

**PSO-2:** Have fundamental and advanced level knowledge in physics so as to handle the computational tools and Scientific software.

**PSO-3:** Be able to apply experimental expertise in basic as well as advanced areas of physics.

**PSO-4:** Have necessary skills and expertise in field of research and development.

## **M.SC. ZOOLOGY**

### **Program Educational Objectives (PEOs):**

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**PEO1:** To have advance knowledge of Zoology domain.

**PEO2:** To provide the professional services to industry, Research organization, institutes.

**PEO3:** To provide the professional consultancy and research support for the relevant organization in the domain of super specialization.

**PEO4:** To opt for higher education, disciplinary & multi-disciplinary research and to be a life-long learner.

**PEO5:** To provide, value based and ethical leadership in the professional and social life.

### **Program Outcomes [PO's]**

**PO-01. Scientific knowledge:** Apply the knowledge of basic science fundamentals to the solution of complex scientific problems.

**PO-02:Critical Thinking:** Take informed actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions (intellectual, organizational, and personal) from different perspectives.

**PO-03:Design/development of solutions:** Design solutions for complex scientific 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.

**PO-04. 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.

**PO-05. Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern chemical IT tools including prediction and modeling to complex chemical activities with an understanding of the limitations.

**PO-06. Social Interaction:** Elicit views of others, mediate disagreements and help reach conclusions in group settings.

**PO-07. Environment and Sustainability:** Understand the issues of environmental contexts and sustainable development.

**PO-08. Ethics:** Recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them

**PO-09. Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

**PO-10. Effective Communication:** Speak, read, write and listen clearly in person and through electronic media in English and in one Indian language, and make meaning of the world by connecting people, ideas, books, media and technology.

**PO-11. Project management and finance:** Demonstrate scientific knowledge with the understanding of the 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.

**PO-12 Self-directed and Life-long Learning:** Acquire the ability to engage in independent and life-long learning in the broadest context socio-technological changes

## **PROGRAM SPECIFIC OUTCOMES [PSO's]**

**PSO-1.** Develop knowledge, understanding and expertise in their chosen field of zoological science.

**PSO-2.** Develop an understanding of eco-friendly zoological processes and impact of zoology on health and environment.

**PSO-3.** Provide opportunities to excel in academics, research or Industry.

## **M. Sc. BOTANY**

### **Program Educational Objectives (PEOs):**

**PEO 1. Critical Thinking:** Apply the knowledge of biology to make scientific queries and enhance the comprehension potential.

**PEO 2. Effective Communication:** Successful transfer of scientific knowledge both orally and in writing.

**PEO 3. Social Interaction:** Function as an individual, as a member or a leader to perform a task in class room situation or during field study.

**PEO 4. Effective Citizenship:** Responsible for learning, develop honesty in work and respect for self and others.

**PEO 5. Ethics:** Convey and practice social, environmental and biological ethics.

**PEO 6. Environment and Sustainability:** Insist the significance of conserving a clean environment for perpetuation and sustainable development.

**PEO 7. Self-directed and Life-long Learning:** study incessantly by self to cope with growing competition for higher studies and employment.

### **PROGRAMME OUTCOMES (POs)**

**PO-1.** . Student can identify and classify all plant groups from algae to angiosperms, also understand the evolutionary relationship and their taxonomic aspects.

**PO-2.** Knows the concept, process, physiology, and molecular basis of plant development. Also knows the methods of cultivation & economic importance of various species, millets, leguminous plants, fruits, essential oils, vegetables etc.

**PO-3.** Students know about economically important algae, their cultivation and applications.

and also methods of preparation and application of algal products.

**PO-4.** Understand the application of Biopesticides; know about sources, methods and production of biofuel.

**PO-5.** Acquired knowledge of fermentation technology and production of fermented products

**PO-6.** In seed technology student gain knowledge about seed structure development, chemical composition, seed production, processing, seed testing, quality control, seed certification and new hybrid variety.

**PO-7.** Students learn the basic biostatistics, experimental statistics and bioinformatics.

**PO-8.** Students understand plant organism interaction,

**PO-9.** To inculcate the scientific temperament in the students and outside the scientific community.

**PO-10.** Student can speak, read, write and listen clearly in person and through electronic media in English and in one Indian language, and make meaning of the world by connecting people, ideas, books, media and technology.

**PO-11.** To demonstrate scientific knowledge with the understanding of the 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.

**PO-12.** To Acquire the ability to engage in independent and life-long learning in the broadest context socio-technological changes

### **Programme Specific Outcomes (PSO)**

**PSO-1.** Students acquired knowledge through practical work in fields as well as in laboratory.

**PSO-2.** Students are exposed to various industrial processes by industrial training.

**PSO-3.** Project helps for creating research attitude among the post graduate students

# School of Management Studies

## Bachelor of Business Administration [BBA]

### Programme Outcome

**PO-1: Business knowledge:** Gain familiarity and apply the knowledge of functional areas of management to the complex business problems.

**PO-2: Problem analysis:** Recognize and unearth pertaining business problems through analysis.

**PO-3: Design/development of solutions:** Plan and formulate solutions to the business problems by considering the constraints and analysing the micro and macro environment.

**PO-4: Conduct investigations of complex problems:** Apply the concepts of research methodology and fundamental knowledge of domain areas for designing appropriate research framework required for scientific enquiry.

**PO-5: Modern tool usage:** Develop proficiency in understanding the different software for managerial decision making and apply them for arriving at the right solution.

**PO-6: The manager and society:** Evolve as effective managers equipped with reasoned action based on prudence and sense of ethical judgment for acting ethically and professionally with people of diverse cultural, gender backgrounds.

**PO-7: Environment and sustainability:** Develop cognizance in understand the impact of the business decision making on environment, society and economy.

**PO-8: Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the organizational practice.

**PO-9: Individual and team work:** Value interpersonal relations and function effectively as an individual or leader in diverse business settings.

**PO-10: Communication:** Communicate effectively in different business contexts and situations



so as to be able to receive and give clear instructions, comprehend, write reports, prepare documentation and make effective presentations

**PO-11: Project management and finance: Analyze the different sources of finance, implications in project completion and managing the project.**

**PO-12: 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 dynamic environment.

### **Programme Specific Outcome**

**PSO-1:**After completion of the programme a student will be able to demonstrate comprehensive understanding of foundational courses in business management

**PSO-2:** The holistic approach of this course will develop among students a sense of ethical consciousness and imbibe value based leadership skills.

**PSO-3:** Choice based specializations and industry oriented curriculum will enable the students to face contemporary challenges of the global world.

## **Bachelor of Commerce [B.COM]**

### **Program Outcome**

**PO-1: Business knowledge:** Gain familiarity and apply the knowledge of functional areas of accounting to the complex business decision making.

**PO-2: Problem analysis:** Recognize and unearth pertaining business decision making through analysis.

**PO-3: Design/development of solutions:** Plan and formulate solutions to the business accounting by considering the constraints and analysing the business environment.

**PO-4: Conduct investigations of complex problems:** Apply the concepts of accounting and

fundamental knowledge of domain areas like tax, insurance for designing appropriate business administration framework required for scientific enquiry.

**PO-5: Modern tool usage:** Develop proficiency in understanding the different software for accounts decision making and apply them for arriving at the right solution.

**PO-6: The manager and society:** Evolve as effective account managers equipped with reasoned action based on prudence and sense of ethical judgment for acting ethically and professionally with people various aspects acquiring skills for Accounting Manager, Bank Manager, over all Administration abilities of the Company.

**PO-7: Environment and sustainability:** Develop cognizance in understand the impact of the Account decision making on environment as a Company Secretary, Stock Agents, Government jobs etc.,

**PO-8: Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the organizational practice.

**PO-9: Individual and team work:** Value interpersonal relations and function effectively as an account expert or leader in diverse business settings.

**PO-10: Communication:** Communicate effectively in different business contexts and situations so as to be able to receive and give clear instructions, comprehend, write reports, prepare documentation and make effective presentations for Framework of Management Accounting and business decision making.

**PO-11: Project management and finance:** Analyse the different sources of Tax, banking finance, accounts implications in project completion and managing the project.

**PO-12: 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 dynamic business accounting.

## **Program Specific Outcome**

**PSO-1:** After completion of the program a student will be able to demonstrate comprehensive understanding of foundational courses in business accounts.

**PSO-2:** The holistic approach of this course will develop among students a sense of ethical consciousness and imbibe value based scientific skills & knowledge about Accounts.

**PSO-3:** Choice based specializations and company oriented curriculum will enable the students to face contemporary challenges of the global world in recent dynamics changes.

## **Bachelors in Hotel Management (BHM)**

### **P.O (Program Outcomes)**

**PO 1: Hotel and Hospitality Knowledge:** Apply the knowledge of hotel, hospitality and tourism, and a core area specialization to the solution of complex hotel management problems.

**PO 2: Problem analysis:** Identify, formulate, research literature, and analyze complex hospitality problems reaching substantiated conclusions using principles of management.

**PO 3: Design/development of solutions:** Design solutions for complex hospitality related 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.

**PO 4: 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.

**PO 5: Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern management and IT tools with an understanding of the limitations.

**PO 6: Hospitality and Society:** 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.

**PO 7: Environment and sustainability:** Understand the impact of the hotel, hospitality and tourism in societal and environmental contexts, and demonstrate the knowledge of need for sustainable development.

**PO 8: Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

**PO 9: Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

**PO 10: Communication:** Communicate effectively on hospitality activities with the professional community and with society at large. Some of them are, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

**PO 11: Project management and finance:** Demonstrate knowledge and understanding of the hospitality 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.

**PO 12: Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and lifelong learning in the broadest context of technological change.

### **P.S.O (Program Specific Outcomes)**

The range of learning outcomes achieved by students in the program will vary according to their Award. As students progress towards their final levels of study, they will be expected to demonstrate an increasingly sophisticated level of understanding, analysis and evidence of the synthesis of theory and practice and are expected to be able to –

**PSO1:** Understand and demonstrate the core technical, analytical, and conceptual skills appropriate for hospitality.

**PSO2:** Comprehend and articulate written and oral communication as appropriate for hospitality environments.

**PSO3:** Understand the concepts and application of managerial, financial, computer and technical skills that are needed to be successful within the hospitality industry.

# Master of Business Administration [MBA]

## Programme Outcome

PO Number	Description
PO1: Core Business Knowledge	Cope with the knowledge, information and proficiency acquired in the program to strengthen the organization.
PO2: Career Planning and Decision Making	Able to encounter the changing business environment by performing well in chosen career fields through decision making.
PO3: Critical Thinking and Leadership	Critically analyze problem areas in business and solve the business problems and succeed in the dynamic environment through sound leadership skills.
PO4: Manager & Society	Appreciate the interrelationship of business and society and demonstrate ethical consciousness in doing business.
PO5: Team Building & Business Communication	Effectively communicate and lead teams.
PO6: Business perspective and Sustainability	Gain understanding of human resource, marketing, financial, production & operational activities and social responsibilities.
PO7: Application of Statistical and Analytical tools	Apply different analytical and statistical tools needed for managerial decision making.
PO8: Ethics	The skill to pursue and implement ethical practices in an organization and lifelong learning.
PO9: Individual and Team Work	Demonstrate requisite skills for attaining individual goals and contribution to the team for persistent professional growth.
PO10: Communication	Exhibit the ability to communicate on multifaceted business activities, ideas, issues and solutions effectively.
PO11: Project	The ability to demonstrate and excel in understanding

Management and Finance	management principles and managing various projects in an industry.
PO12: Life-long Learning	Showinquisitiveness to obtain knowledge about latest technological developments and by getting indulged into continuous learning in specific domains.

### **Programme Specific Outcome**

After completion of MBA, students will be able to

<b>PSO1</b>	Inculcate leadership, managerial and entrepreneurial competencies and strengthen their expertise in implementation of strategies and the management of complex situation.
<b>PSO2</b>	Develop professional skills which will prepare them for immediate employment and life-long learning in advanced areas of management and related fields.
<b>PSO3</b>	Develop environmental awareness along with ethical responsibility to have a successful career and to sustain passion for using optimal resources as an Entrepreneur.

# School of Agriculture Science & Technology

## B. Sc. Agriculture (Hons.)

### Program outcomes (PO)

**PO1. Basic Agricultural knowledge:** The students understand the basic principles or fundamentals of all the subjects of agriculture and allied sectors.

**PO2. Status of Agriculture in India:** The student acquaint with status of agricultural in India and Indian farmers including practices followed as well as agricultural production during ancient and present time.

**PO3. Environmental studies& climate changes:** Student obtain basic knowledge of natural resources, ecosystem, bio-diversity & its conservation, effect of social issues and human population on environment as well as disaster and its management and climate change.

**PO4. Production technologies:** The student learns about recommended production technologies for optimum production including agronomic practices, crop protection and post harvest.

**PO5. Livestock and poultry farming:** Student trained in breeding, feeding and management of dairy animals as well as goat, sheep, poultry & pig for optimum and profitable production.

**PO6. Agriculture finance and marketing:** Student knows about fundamentals of agricultural economics, finance, cooperation, marketing, trade and prices.

**PO7. Use of Modern technology:** Create, select and apply appropriate modern recommended techniques and resources for increasing agricultural productivity.

**PO8. Communication skill and Transfer of technology:** Develop communion skill with respect to transfer of new technologies in students using extension teaching methods.

**PO9. Values and Ethics:** Apply ethical principles and commit to professional ethics and responsibilities of agriculture farming.

**PO10. Rural Agricultural Work Experience (RAWEx):** Student understands the rural situations, status of agricultural technologies adopted by the farmers to prioritize the farmer's problems and to develop skills & attitude of working with farm families for overall development in rural area.

**PO11. In Plant Training (IPT):** Enrich the exposure about problem in agricultural industries so as to correlate theory and actual practices in the industries. It is expected that sense of running an industry may be articulated in right way through this type of industrial attachment mode.

**PO12. Skill development and entrepreneurship:** Student trained in at least two agriculture fields under experiential learning programme.

### **Programme Specific Outcomes (PSO)**

**PSO 1.** Develop professional skills among the students.

**PSO 2.** Ability to identify, formulate and solve Agricultural problems and to offer agro-services to the society, ethically and responsibly.

**PSO 3.** Specialized ability in relation to Agriculture.

**PSO 4.** Ability to use knowledge imbibed for solving agricultural problems locally and globally.

## **Integrated B. Sc. Agriculture & MBA**

### **Programme Educational Objectives (PEO)**

PEO 1. Provide quality education in Agriculture.

PEO 2. Undertake basic, applied and adaptive research to address current and future challenges of farming community and to provide management options relevant to the prevailing agroclimatic and socioeconomic situations.

PEO 3. Generate appropriate technologies to support sustainable growth of agricultural



entrepreneurship and agri-business.

PEO 4. Develop innovative extension strategies and formulate effective mechanisms for Transfer of Technology to institutions and farmers for enhanced and sustainable agricultural production leading to improved rural livelihoods.

PEO 5. Locate and protect biodiversity to preserve agro-ecosystem of the state and to document traditional knowledge and technologies.

### **Program outcomes (PO)**

PO1. Basic Agricultural knowledge: The students understand the basic principles or fundamentals of all the subjects of agriculture and allied sectors.

PO2. Status of Agriculture in India: The student acquaint with status of agricultural in India and Indian farmers including practices followed as well as agricultural production during ancient and present time.

PO3. Environmental studies & climate changes: Student obtain basic knowledge of natural resources, ecosystem, bio-diversity & its conservation, effect of social issues and human population on environment as well as disaster and its management and climate change.

PO4. Production technologies: The student learns about recommended production technologies for optimum production including agronomic practices, crop protection and post harvest.

PO5. Livestock and poultry farming: Student trained in breeding, feeding and management of dairy animals as well as goat, sheep, poultry & pig for optimum and profitable production.

PO6. Agriculture finance and marketing: Student know about fundamentals of agricultural economics, finance, cooperation, marketing, trade and prices.

PO7. Use of Modern technology: Create, select and apply appropriate modern recommended techniques and resources for increasing agricultural productivity.

PO8. Communication skill and Transfer of technology: Develop communication skill with respect to transfer of new technologies in students using extension teaching methods.

PO9.Values and Ethics: Apply ethical principles and commit to professional ethics and responsibilities of agriculture farming.

PO10.Rural Agricultural Work Experience (RAWE): Student understands the rural situations, status of agricultural technologies adopted by the farmers to prioritize the farmer's problems and to develop skills & attitude of working with farm families for overall development in rural area.

PO11.In Plant Training (IPT): Enrich the exposure about problem in agricultural industries so as to correlate theory and actual practices in the industries. It is expected that sense of running an industry may be articulated in right way through this type of industrial attachment mode.

PO12.Skill development and entrepreneurship:Student trained in at least two agriculture fields under experiential learning programme.

### **Programme Specific Outcomes (PSO)**

PSO 1.Develop professional skills among the students.

PSO 2.Ability to identify, formulate and solve Agricultural problems and to offer agro-services to the society, ethically and responsibly.

PSO 3.Specialized ability in relation to Agriculture.

PSO 4.Ability to use knowledge imbibed for solving agricultural problems locally and globally

# School of Pharmacy

## B.PHARMACY

### Program Outcomes (POs)

#### PROGRAM OUTCOMES (PO's)

- PO1 Understanding of basic principles of Pharmaceutical Chemistry, Pharmaceutics, Pharmacology and Pharmacognosy for drug discovery and formulation development.
- PO2 Understanding of the formulation parameters in manufacturing of a dosage form, storage, packaging and dispensing of dosage forms.
- PO3 Understanding of basics principles for drug analysis through conventional methods and modern sophisticated instruments.
- PO4 Understanding of drug chemistry and its structure for synthesis of drug and drug designing using modern software.
- PO5 Understanding of crude drug, its identification, extraction and purification for its medicinal value.
- PO6 Understanding of pharmacological action of drugs and their evaluation for their therapeutic effectiveness.
- PO7 Understanding of documentation, quality control and quality assurance of all the processes and pharmaceutical formulations.
- PO8 Understanding of biostatistics, novel drug delivery systems, molecular modeling, Pharmacovigilance, Pharma management etc as per the need of industry and future prospects.

PO9 Perform research on various medical aspects and implement the Pharmaceutical knowledge in formulating the best suitable dosage form to provide high quality medicines to the society.

PO10 Render the services to the public by providing patient centric effective treatments to curb the therapeutic issues with the required medicines and explain the effects of the drugs by analyzing the scientific literature for improving their health and well-being

PO11 Develop an understanding for the need of pharmaceutical sciences and technology towards giving quality life to people in society and also demonstrate knowledge of Research & Development in different disciplines of Pharmaceutical Science and Technology

PO12 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. Self- access and use feedback effectively from others to identify learning needs and to satisfy these needs on an ongoing basis.

### **PROGRAM SPECIFIC OUTCOMES (PSOs) :**

1. **PSO1.** Students will be able to acquire knowledge on basic principles of Pharmaceutics, Pharmaceutical Chemistry, Pharmacology, Pharmacognosy, Analytical Chemistry, Biochemistry Microbiology and Biotechnology in addition to Jurisprudence and Business management.
2. **PSO2.** Students will be able to independently perform all experiments related to Synthesis, Formulation and Evaluation of Pharmaceutical products, Analysis of Chemical substances and substances of natural origin, Animal Studies and Microbiological studies.
3. **PSO3.** Students will be able to analyze, interpret data generated in experiments and arrive at conclusions independently.
4. **PSO4.** Students will be proficient in IT and Numerical skills with regards to making and delivering Presentations, Seminars, Group discussions, and socially conscious citizens by displaying team work in community service

# School of Arts & Humanities

## Bachelor of Arts [BA]

### Program Outcome

**PO1· Critical Thinking:** Assess the existing knowledge, concepts, techniques, and methodology appropriate to the graduate's chosen discipline.

**PO2- Social Interaction:** Interpret and Analyze social problems and work towards finding solutions to the problems by application of the subjects.

**PO3 - Environment and Sustainability:** Understand the impact of the professional scenario, solutions in societal and environmental contexts and demonstrate the knowledge of and need for sustainable development.

**PO4 - Ethics:** An ability in the understanding of professional, ethical and social issues and responsibilities.

**PO5 - Problem Solving Strategy:** Graduates would be in a position to comprehend the concepts, analyze and asses information. They would be able to handle the moderate issues, reflecting their problem-solving capacity.

**PO6 - Individual and team work:** Function effectively as an individual and as a member or leader in diverse teams and individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

**PO7 - Effective Communication:** Communicate effectively in every situation 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.

**PO8 - Lifelong Learning:** An ability to engage in Lifelong learning and continuing professional development.

## **Program Specific Outcome**

**PSO-1:** Understand and appreciate literary writing available in five recognized forms i.e. Poetry, Short story, Novel, Drama and Autobiography.

**PSO-2:** Demonstrate the significance of historical topics with reference to broader historical context, historiographical trends and contemporary relevance.

**PSO-3:** Demonstrate the opportunity to explore different angles including political, economic, social and cultural history and to explore the interaction between history and other discipline such as politics, anthropology, archeology and literature.

**PSO-4:** Survey, map and plan layouts for different geographical area.

**PSO-5:** Acquire a thorough knowledge of Constitutional Government and Democracy in India.

## **Programme Educational Objectives**

**PEO-1:** To nurture with abilities, requisite knowledge and right skill set necessary to be effective in professional environment.

**PEO-2:** To make the students apply knowledge gained from all the subjects for problem-solving skills for facilitating decision making.

**PEO-3:** To encourage lifelong learning skills, communication abilities, ethical values for a successful professional career.

## **M.A. POLITICAL SCIENCE**

### **PROGRAMME OUTCOMES (POs)**

**PO-1: Critical Analysis-** Produce original insights about literature in a variety of forms, styles, structures and modes in scholarly practices with compelling explanatory power.

**PO-2: Logical Reasoning-** Apply a number of strategies for analyzing individual examples of real life for thinking synthetically about works that share a formal, generic, topical or historical impulse.

**PO-3: Research Oriented-** Become adept at independent research, and locate, evaluate, organize, and incorporate information effectively.

PO-4: Continuous Learning- Demonstrate mastery of the discipline by characterizing, instantiating, and critiquing the dominant critical theories, methodologies, and practices in the field of Social Sciences.

PO-5: Understand Conceptualization- Understanding major conceptual issues, vast knowledge of theoretical and practical implications, assimilation of research and empirical findings in humanities.

PO-6: Expedient Approach- Beneficial at personal, social and community level and bring association between various organizations to resolve issues with persistent efforts.

PO-7: Elucidate Learning- Bring vigorous research approach towards current issues and apply systematic way to develop research designs, make analysis as well as interpretation of disorders in clinical settings.

PO-8: Community and Life Style Analysis- Assess information related to community issues and analyze life style diseases and focus on welfare of society.

PO-9: Conduct Research and Dissertation- Conduct research that leads to a substantial original thesis, written over the course of the second year, in a subfield of the student's choice.

### **Program Specific Objectives (PSO's)**

1. Ability to enhance of theoretical understanding and knowledge base in political sphere.

2. Ability to enhance employability and innovative approach of the student towards professions in political sphere.

Ability to design and manage political institutions for societal development.

# **Bachelor of Library Science**

## **Program Educational Outcome (PEO'S)**

PEO 1: To cope with the increasing demand for higher education and trained human resources in the field of Library & Information Science.

PEO 2: To provide quality education at reasonable fee structure.

PEO 3: Exercise and enact the values and principles of the field and its specialisations with an awareness of overarching social responsibility associated with progressive public service for the public good.

PEO 4: To provide students with opportunities to develop cutting-edge technological skills and competences used across the information professions.

## **Program Outcome (PO'S)**

Bachelor of Library and Information Science (B.Lib.Sc.) is one year duration undergraduate programme in Library Science, typically divided into two semester. B.Lib.Sc. is designed to give students an understanding about philosophy of library science, principles, fundamentals laws and social impact.

Upon successful completion of the programme the graduate would be able to:

PO 1: Understand about libraries and librarianship.

PO 2: Get acquainted with various standards and tools being used in processing, managing and retrieving information resources.

PO 3: Manage information traditionally as well as in modern ways.

PO 4: Apply skills in carrying out professional activities such as (i) acquisition, accessioning, classification, cataloguing, and physical processing of documents; (ii) housekeeping operations using library management software and Information and Communication Technologies;(iii) maintaining library collection and; (iv) educating users.

PO 5: To develop a strong foundation and inspiration for higher-level courses in library and information science.

PO 6: They will have competencies to perform day to day housekeeping operations and provide library services such as circulation.

PO 7: the student will be in a position to work at lower and middle managerial positions in all types of libraries, viz. academic, public or special.



PO 8: To develop a strong foundation and inspiration for higher-level courses in library and information science.

### **Program Specific Objectives (PSO'S)**

**PSO 1: Professional Skills** – Graduate will be able to develop efficient and effective professional skills using modern Electrical & Electronics engineering techniques.

**PSO 2: Disciplinary knowledge:** Capable of demonstrating comprehensive knowledge and understanding of major concepts, principles, theories and laws of various subjects in Library and Information Science and other related fields of study, including broader interdisciplinary subfields such as management, economics, information and communication technologies, etc.

**PSO 3: Digitally literate:** Capable of using digital technology for communication purpose, for library housekeeping operations, and for searching information from OPAC, Internet and online databases.

**PSO 4: Librarianship as a profession**– Ability to serve the information for advancement of society and self.

## **Master of Library Science**

### **Program Educational Outcome (PEO'S)**

The Faculty of Library and Information Science postgraduate understand about both theory and practice of Library and Information Science; studied foundation and principles ideas of the disciplines and they have to introduce to the values and expectations of the profession. We foster critical thinking about the literature of LIS and related fields, and we encourage high standards of professionalism and service.

**PEO 1:** Discriminate among current and emerging information and communication technologies to judge effective management and use in constantly changing information workplaces.

**PEO 2:** Value and support critical engagement with issues and practices in LIS and related fields through diverse approaches to independent ongoing learning.

**PEO 3:** Exercise and enact the values and principles of the field and its specialisations with an awareness of overarching social responsibility associated with progressive public service for the public good.

**PEO 4:** Relate the practices and roles of individual librarians and information professionals to broader organizational, professional, political, economic, social and technological contexts.

### **Program Outcome (PO'S)**

Master of Library and Information Science (M.Lib.Sc.) is one year duration postgraduate programme in Library Science, typically divided into two semester. MLIS program offers a multifaceted, wide-ranging selection of courses that allows students to follow a variety of career pathways or to pursue a more generalized program

**PO 1:** Acquire the required skills with quality and creativity and excel themselves in the Library and Information Science field..

**PO 2:** Develop as Library and Information Professional who can manage Library and Information Centers, Knowledge Resource Centers of different categories in India and abroad.

**PO 3:** Apply foundational concepts, theories, and principles to problems of information organization and access.

**PO 4 :** Compare and critique contemporary information practices, structures, and standards in relation to historical and global alternatives.

**PO 5:** Apply core ethical principles to professional practice.

**PO 6:** Compare and critique contemporary information practices, structures, and standards in relation to historical and global alternatives.

**PO 7 :** This programme is meant to impart high skill and training necessary for human resources for effective organization and management of libraries and providing varieties of library and information services with the help of IT wherever possible

**PO 8 :** Design, query, and evaluate information retrieval systems.

### **Program Specific Objectives (PSO'S)**

**PSO 1: Core Knowledge:** demonstrate advanced knowledge of LIS theories, principles, and practices.

**PSO 2: Intellectual Skill:** demonstrate an ability to evaluate, critically analyze, and synthesize information from multiple sources

**PSO 3: Technology Skills:** able to employ technology to analyze, design, and provide solutions to information problems

**PSO 4:** Sustain, organize, synthesize and transform information to make it accessible to individuals and communities

## **School of Legal Studies**

### **BBA. LL.B [Integrated]**

#### **PROGRAM SPECIFIC OUTCOMES (PSOs):**

PSO 1: Be advocate to practice in different Courts and Tribunals in India.

PSO 2: Be part of Indian Judicial System like magistrate, Civil Judge, presiding officers in different judicial Forums.

PSO 3: To act as legal advisor in public, private and government organizations.

PSO 4: Pursue higher degrees to work in college and Universities.

PSO 5: Be independent legal consultant.

PSO 6: Graduates will able to act creatively, innovative and potentially with management and legal skills.

PSO 7: Should be able to associate the learning from the courses related to law and Management.

#### **PROGRAM OUTCOMES (POs):**

PO 1: Be proficient to use the fundamentals and vital principles in law.

PO 2: Identify and solve the social, economic and cultural issues in law.

PO 3: Ability to synthesis academic knowledge to legal problems and find solutions.

PO 4: Recognize the ethical and professional responsibilities and the norms of advocacy.

PO 5: Ability to research, reviews, comprehend and utilize such knowledge to law reform.

PO 6: Ability to understand the real life situation in legal profession and practice.

PO 7: Develop the skill of drafting legal documents, law reports and legal documents.

PO 8: Develop a global perspective towards various legal issues.

PO 9: To develop leadership qualities amongst students.

PO 10: To provide a platform of self-employability by developing professional skills in legal industry.

## **BA. LL.B [Integrated]**

### **PROGRAM SPECIFIC OUTCOMES (PSOs):**

PSO 1: Be advocate to practice in different Courts and Tribunals in India.

PSO 2: Be part of Indian Judicial System like magistrate, Civil Judge, presiding officers in different judicial Forums.

PSO 3: To act as legal advisor in public, private and government organizations.

PSO 4: Pursue higher degrees to work in college and Universities.

PSO 5: Be independent legal consultant.

### **PROGRAM OUTCOMES (POs): BA-LL.B (INTEGRATED) PROGRAM**

PO 1: Be proficient to use the fundamentals and vital principles in law.

PO 2: Identify and solve the social, economic and cultural issues in law.

PO 3: Ability to synthesis academic knowledge to legal problems and find solutions.

PO 4: Recognize the ethical and professional responsibilities and the norms of advocacy.

PO 5: Ability to research, reviews, comprehend and utilize such knowledge to law reform.

PO 6: Converse effectively and work in inter disciplinary groups and legal institutions.

PO 7: Ability to understand the real life situation in legal profession and practice.

PO 8: Develop the skill of drafting legal documents, law reports and legal documents.

PO 9: Conduct legal research using analytical and critical thinking.

PO 10: Develop a global perspective towards various legal issues.

## **LL.B**

### **PROGRAM SPECIFIC OUTCOMES (PSOs)**

PSO-1: LL.B. graduates will be prepared to contribute effectively in the areas of constitutional law, civil law, criminal law, international law, corporate law, labour law and environmental law.

PSO-2: LL.B. graduates will be inculcated traits of analytical thinking, lifelong learning, human values and professional ethics.

### **PROGRAM OUTCOMES (POs):**

PO-1: Grasp and apply theoretical and practical legal knowledge in the profession.

PO-2: Conduct research on legal topics and questions using legal resources, like statutes, case laws, journal articles, etc.

PO-3: Demonstrate thorough knowledge of crime scene investigation, FIR, enforcement agencies used in criminal investigation, and thorough knowledge of procedures of civil suits and limitation for filing various suits.

PO-4: Apply the understanding of Public International Law in analysing the geopolitico-environmental issues.

PO-5: Demonstrate knowledge of specific aspects of Intellectual Property Law that is relevant to the modern corporate jurisprudence.

PO-6: Understand the impact of legal actions in the societal and environmental contexts, and demonstrate the knowledge of, and the need for, sustainable developments.

PO-7: Develop a sense of social responsibility and commitment, and work on various socio-legal issues.

PO-8: Apply the diverse knowledge of law to prepare for higher research degree with clarity of purpose.

PO-9: Demonstrate ethical principles and commit to professional ethics and responsibilities and contribute towards setting the higher norms of legal practice.

PO-10: Develop and demonstrate legal reasoning skills and apply them during the programme & in legal practice.

## **LL.M**

## **SPECIALIZATION: CONSTITUTIONAL LW**

### **Program Specific Outcomes (PSOs):**

PSO-1: LL.M. post-graduates will be prepared to offer specialised expertise in the field of Constitutional Law; benefitting the corporations at large and contributing to the growth of business sector as a whole.

PSO-2: LL.M. post-graduates will be able to appreciate the significance of traditional legal areas, like Constitutional Law and Criminal Law, in the society, and demonstrate their research capabilities in contributing towards the growth of these broader disciplines of law.

PSO-3: LL.M. post-graduates will be inculcated traits of critical thinking required for an expert in law, and to use their analytical skills while undertaking any research in the legal field.

### **Program Outcomes (POs):**

PO-1: Conduct independent research on diverse legal topics and questions using knowledge of primary as well as secondary data.

PO-2: Develop and demonstrate analytical skills to interpret various judgments of domestic and international courts of law and different provisions of law; and re-interpret the opinions and submissions of learned jurists and academicians.

PO-3: Demonstrate an understanding of substantive and/or procedural aspects of their chosen area of specialisation, and offer solutions based on such understanding.

PO-4: Independently write research articles and undertake research studies on different topics.

PO-5: Develop a sense of social responsibility and commitment, and work on various sociolegal issues.

PO-6: Establish as a competent professional in a highly competitive world with cutting-edge legal education tools.

PO-7: Apply the diverse knowledge to prepare for higher research degree with clarity of purpose

PO-8: Ability to translate ideas into words, and words into practical solutions, which is reflective of their critical thinking

PO-9: Apply ethical principles and commit to professional ethics and responsibilities and norms of legal practice

PO-10: Communicate effectively on complex legal activities with the legal community and

with the society at large; thus, giving and imparting clear instruction.

## **School of Vocational Studies**

### **B. VOC FASHION**

#### **Program outcomes (POs)**

##### **PO1. Vocational Knowledge:**

Vocational courses are aimed to make an individual skilled in various minor career oriented domains, which are in demand according to latest upcoming trends. B.Voc degrees are given in specific vocations (professions) like Interior design, Fashion Design, Graphic Design, Animation, CAD, Event Management etc. The vocational courses prepare you for the vocation through a logical mix of theory and practical knowledge.

##### **PO2. Objective**

To provide judicious mix of skills relating to a profession and appropriate content of general education. The motto is to provide vertical mobility to students coming out of 10+2 with vocational subjects and Community Colleges.

##### **PO3. Problem analysis:**

Identify, formulate, review the situation and analyze the Design problems reaching to the conclusions using Design process. Vocational courses aim at practical career opportunities in the designing domains.

##### **PO4. Development of solutions:**

Design solutions for complex Design problems and design system components or processes that meet the specified needs of graphics and designing with appropriate consideration for the latest trends and technologies and the cultural, societal, and environmental considerations.

##### **PO5. Investigating the designing forecast:**

Used research base knowledge and research methods by analyzing the design strategies, gather data related to future forecast and then execute the solutions to convey the effective outputs.

**PO6. Software's and Technologies:**

This helps in selecting and creating the appropriate latest techniques, software's and design tools with the latest upcoming trends and technologies.

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

**PO8. Ethics:**

Apply ethical principles and commit to professional ethics and responsibilities and norms of the vocational practice. This is taught as the Ethical values and Professional responsibilities.

**PO9. Individual and team work:**

This effectively helps in increasing the leadership quality as an individual, as a member of a diverse team. Also inculcates and builds capacity to work in a team more effectively.

**PO10. Communication:**

Communicate effectively on client's requirement analysis with the designing perspective and with society at large, such as, being able to comprehend and write effective reports, plan and design documentation, make effective presentations, and give and receive clear instructions. This skill is developed to convey the ideas to the Employee, or team members, or with clients, or on any public platform.

**PO11. Project management and Time Management:**

Demonstrate knowledge and understanding of the vocational and knowledge and understanding of the vocational 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. This effectively enhances the Project management skill which help individual in managing the multiple project at a time and complete well before deadlines.

**PO12. Life:**

Recognize the need for, and have the preparation and ability to engage in independent and lifelong learning in the broadest context of technological change. It helps in recognizing the need and helps in start your own start up and promote individual from Employee to Entrepreneur. Function effectively as an individual and as a member or leader in diverse teams and individual, and as a member or leader in diverse teams, and in multidisciplinary settings.



### **Program Specific Objectives (PSOs)**

**PSO1:-** To provide professional education covering the whole spectrum of activities in fashion and textiles, and develop “all-round” graduates with vision and a global outlook.

**PSO2:-** To continue the review of academic programmers in fashion and textiles.

**PSO3:-** To further enhance learning and teaching in both teaching methodology and practice, the implementation of outcome-based learning, maintain and upgrade an environment that facilitates learning.

**PSO4:-** To become an area of excellence in fashion and textile education and research, regionally and internationally and enhance the development of the fashion and textile industry.

## **B. VOC GRAPHICS**

### **Program outcomes (POs)**

#### **PO1. Vocational Knowledge:**

Vocational courses are aimed to make an individual skilled in various minor career oriented domains, which are in demand according to latest upcoming trends. B.Voc. degrees are given in specific vocations (professions) like Interior design, Fashion Design, Graphic Design, Animation, CAD, Event Management etc. The vocational courses prepare you for the vocation through a logical mix of theory and practical knowledge.

#### **PO2. Objective**

To provide judicious mix of skills relating to a profession and appropriate content of general education. The motto is to provide vertical mobility to students coming out of 10+2 with vocational subjects and Community Colleges.

#### **PO3. Problem analysis:**

Identify, formulate, review the situation and analyze the Design problems reaching to the conclusions using Design process. Vocational courses aim at practical career opportunities in the designing domains.

#### **PO4. Development of solutions:**

Design solutions for complex Design problems and design system components or processes that meet the specified needs of graphics and designing with appropriate consideration for the latest trends and technologies and the cultural, societal, and environmental considerations.

**PO5. Investigating the designing forecast:**

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**PO6. Software's and Technologies:**

This helps in selecting and creating the appropriate latest techniques, software's and design tools with the latest upcoming trends and technologies.

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

**PO8. Ethics:**

Apply ethical principles and commit to professional ethics and responsibilities and norms of the vocational practice. This is taught as the Ethical values and Professional responsibilities.

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**PO12. Life:**

Recognize the need for, and have the preparation and ability to engage in independent and lifelong learning in the broadest context of technological change. It helps in recognizing the need and helps in start your own start up and promote individual from Employee to Entrepreneur. Function effectively as an individual and as a member or leader in diverse teams and individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

### **Program Specific Objectives (PSOs)**

**PSO1:** Develop written and verbal competencies to describe and analyze visual art and graphic design through writing, conceptual development, research, study of theory and critique of the intent of their own work.

**PSO2:** Develop an original, innovative and articulate body of graphic design work for a professional portfolio and create graphic designs that meet the specifications and requirements of communication problems.

**PSO3:** Develop necessary techniques and execution of form and content relevant to the field in both digital and print medium.

**PSO4:** Demonstrate competency with industry standards through a professional design outcome.

**PSO5:** Ability to present a range of promotional material/ Company Portfolio like Brochure, Logo, Visiting Card etc. using branding guidelines, in support of a given brand

## **B. VOC INTERIOR**

### **Program outcomes (POs)**

#### **PO1. Vocational Knowledge:**

Vocational courses are aimed to make an individual skilled in various minor career oriented domains, which are in demand according to latest upcoming trends. B.Voc degrees are given in specific vocations (professions) like Interior design, Fashion Design, Graphic Design, Animation, CAD, Event Management etc. The vocational courses prepare you for the vocation through a logical mix of theory and practical knowledge.

#### **PO2. Objective**

To provide judicious mix of skills relating to a profession and appropriate content of general education. The motto is to provide vertical mobility to students coming out of 10+2 with vocational subjects and Community Colleges.

**PO3. Problem analysis:**

Identify, formulate, review the situation and analyze the Design problems reaching to the conclusions using Design process. Vocational courses aim at practical career opportunities in the designing domains.

**PO4. Development of solutions:**

Design solutions for complex Design problems and design system components or processes that meet the specified needs of graphics and designing with appropriate consideration for the latest trends and technologies and the cultural, societal, and environmental considerations.

**PO5. Investigating the designing forecast:**

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**PO6. Software's and Technologies:**

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**PO9. Individual and team work:**

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**PO10. Communication:**

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Recognize the need for, and have the preparation and ability to engage in independent and lifelong learning in the broadest context of technological change. It helps in recognizing the need and helps in start your own start up and promote individual from Employee to Entrepreneur. Function effectively as an individual and as a member or leader in diverse teams and individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

**Program Specific Objectives**

**PSO1:** Demonstrated ability to prepare documents including measured drawings of site and site related information to undertake design of interiors and small buildings.

**PSO2:** Ability to prepare and provide presentations including drawings and perspectives for clients and customers.

**PSO3:** Demonstrates ability to prepare working drawings and coordinated services' drawings for site execution

**PSO4:** Ability to understand all segments of interior design project execution including all relevant aspects of interior design practice.

**PSO5:** Ability to independently build and assert own identity or associate them with design practice and preparation of bill of quantities and costing of products in Interior industry

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