

*Curriculum Design and Development***Additional Information to Section 1.1.1 of SSR**

The Vision/Mission statements for institute/department and POs and PEOs for various programs are as follows.

THE VISION OF THE INSTITUTE:

Providing nurturing ground for an individual's development to make effective contribution to the society in dynamic environment through academic excellence for professional competency.

THE MISSION OF THE INSTITUTE:

- To provide the state of the art educational facilities for training students for the career in engineering and technology.
- To organize quality improvement programs on advances in current technology for the benefit of core stakeholders of community.
- To provide leadership in curriculum design and development to strengthen industry-institute commune.

DEPARTMENT OF MECHANICAL ENGINEERING

VISION:

The Department of Mechanical Engineering is committed to trend setting in technical education & research. To provide highly competent, efficient manpower to meet the ever-changing needs of the country, industry and society.

MISSION:

- To be an ideal department providing quality technical education for students in tune with the evolving challenges and social needs through a flexible and innovative learning process.
- Develop mechanical engineering students for excellence in their profession and career with high degree of integrity with ethical standards.

UG - PROGRAM OUTCOMES (PO):

Engineering Graduates will be able to:

- 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 research 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 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 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 life-long learning in the broadest context of technological change.

UG - PROGRAMME EDUCATIONAL OBJECTIVES (PEO):

PEO 1: Stand out in professional career &/or higher education by acquiring knowledge in mathematical, computing and mechanical engineering principles.

PEO 2: Be able to develop the communication skills, professional personality and ethical values that will mould them into a good human beings, responsible citizens and competent professional.

PEO 3: Demonstrate good scientific and engineering breadth in the design and development of novel and cost-effective products to cater the needs of the society.

DEPARTMENT OF COMPUTER ENGINEERING**VISION:**

To serve the society, industry and all the stake holders through value added Quality Education.

MISSION:

To serve the need of society at large by establishing and Research Institute and impart attitude, knowledge and skills through Quality Education to develop individual and teams with ability to think and analyze right values and self-reliance.

UG-PROGRAMME OUTCOMES (PO):

Engineering Graduates will be able to:

- 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 research 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.
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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.

UG-PROGRAMME EDUCATIONAL OBJECTIVES (PEO):

PEO 1: To prepare globally competent graduates having strong fundamentals, domain knowledge, updated with modern technology to provide the effective solutions for engineering problems.

PEO 2: To prepare the graduates to work as a committed professional with strong professional ethics and values, sense of responsibilities, understanding of legal, safety, health, societal, cultural and environmental issues.

PEO 3: To prepare committed and motivated graduates with research attitude, lifelong learning, investigative approach, and multidisciplinary thinking.

PEO 4: To prepare the graduates with strong managerial and communication skills to work effectively as individual as well as in teams.

DEPARTMENT OF INFORMATION TECHNOLOGY

VISION:

Outstanding and energetic faculty who strengthen our students, to prepare and develop the finest leaders of tomorrow. Continue to improve in effective teaching and participation in professional organizations relevant to our interest.

MISSION:

- The information technology department is committed to providing the highest quality teaching and support, thereby enhancing the educational capabilities within college.
- Take an active role in curriculum and program development.
- To apply our knowledge and expertise to the development of students.
- To provide leadership in curriculum design and development to strengthen industry- institute commune.

UG-PROGRAMME OUTCOMES (PO):

Engineering Graduates will be able to:

- 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 research 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.
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- 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 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 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 life-long learning in the broadest context of technological change.

UG-PROGRAMME SPECIFIC OUTCOMES (PEO):

A graduate of the Information Technology Program will demonstrate

PEO 1: Possess strong fundamental concepts in mathematics, science, engineering and Technology to address technological challenges.

PEO2: Possess knowledge and skills in the field of Computer Science and Information Technology for analyzing, designing and implementing complex engineering problems of any domain with innovative approaches.

PEO3: Possess an attitude and aptitude for research, entrepreneurship and higher studies in the field of Computer Science and Information Technology.

PEO4: Have commitment ethical practices, societal contributions through communities and life-long learning.

PEO5: Possess better communication, presentation, time management and team work skills leading to responsible & competent professional sand will be able to address challenges in the field of IT at global level.

DEPARTMENT OF ELECTRONICS & TELE-COMMUNICATION ENGINEERING**VISION:**

To provide nurturing ground for an individual's development to make an effective contribution to the society by our Electronics & Tele-communication engineers with professional competency.

MISSION:

- To provide the state of art educational facilities for training students for the career in Electronics & Tele-communication Engineering.
- To organize quality improvement programs on advances in current technology of Electronics & Tele-communication for enhance student's competence.
- To strengthen industry department interaction for the benefit of stakeholders.

UG - PROGRAM OUTCOMES (PO):

Engineering Graduates will be able to:

- 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 research 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.
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11. 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.

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.

UG - PROGRAMME EDUCATIONAL OBJECTIVES (PEO):

PEO 1: Students will be able to attend a solid foundation in Electronics & Tele-communication engineering fundamentals with an attitude to pursue continuing education.

PEO 2: Students will be able to function professionally in an increasingly international and rapidly changing world due to the advances in technologies and concepts and contribute to the needs of the society.

PEO 3: Students will be to acquire and exercise excellent leadership qualities, at various levels appreciate to their experience which addresses issues in a responsive , ethical and innovative manner.

PEO 4: Students will be able to excel in their careers by being a part of success and growth of an organization with which they are associated.

DEPARTMENT OF INSTRUMENTATION & CONTROL ENGINEERING:**VISION:**

To impart the technical education to the students and making them self-oriented for innovations, along with good leadership qualities.

MISSION:

Specialization focused on the principle and operation of measuring instruments that are used in design and configuration of automated system.

UG - PROGRAM OUTCOMES (PO):

Engineering Graduates will be able to:

- 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 research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
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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.

UG - PROGRAMME EDUCATIONAL OBJECTIVES (PEO):

PEO 1: To develop technically engineers for successful career in industry that meets the local and global needs.

PEO 2: To provide fundamental knowledge of instrumentation and control and to strengthen applied mathematical base and analytical ability of students.

PEO 3: To provide experience in instrumentation engineering in the three areas viz. instrument design, process instrumentation and process control.

PEO 4: To develop instrumentation strategies for various walks of life viz. Environmental, Biomedical and automobile.

PEO 5: To expose the students with state of art technology so that the students will be ready to step in the industry with confidence and with reduced training period.

PEO 6: To develop communication skills, teamwork skills, entrepreneurship qualities and managerial skills.

DEPARTMENT OF FIRST YEAR OF ENGINEERING**VISION:**

Providing nurturing ground for development of an individual to make effective contribution to the society in dynamic environment through academic excellence for professional competency

MISSION:

To provide the state of the art educational facilities for training the students for the career in Engineering and Technology

UG-PROGRAMME OUTCOMES (PO):

Engineering Graduates will be able to:

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 research 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.
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11. **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.
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.

UG-PROGRAM SPECIFIC OUTCOMES (PEO):

PEO 1: Develop the ability to understand, demonstrate, identify, analyze and apply skills and knowledge gained from fundamental course of applied science and engineering, and relates these fundamentals with core subjects in the relevant field.

PEO 2: Understand basic skills and principles of engineering by developing and engaging them in life-long learning with effective skills including quality of reasoning, logic, analysis and communication..

DEPARTMENT OF MASTER OF BUSINESS ADMINISTRATION (MBA)**VISION:**

"We aim to consolidate and improve our position as a leading business school in Maharashtra and be present as such within the P.D.E.A.'s College of Engineering and Management campus. Leveraging our own strengths as well as the expertise of our staff, we aim to achieve excellence in everything we do, so that this excellence will make us a preferred school for students of business administration, and a sought-after co-operation partner for other Academic Institutions and Industry".

MISSION:

- We exist to be recognized by our key stakeholders for excellence in teaching and research in all areas of Business Administration.
- We strive for both academic rigor and practical relevance. We aim to inspire future leaders.
- We develop and disseminate knowledge and provide the skills that enable the decision makers of today and tomorrow to exercise leadership in a globalised world in ways that are professional and responsible to their stakeholders and to the society at large.
- We see ourselves as academic entrepreneurs who seek and address new challenges relating to the multiple constituencies which we serve: Students and their future employers, the academic community, individual managers, public and private sector organizations, and other interest groups.

PG-PROGRAMME OUTCOMES (PO):

Engineering Graduates will be able to:

- 1. Generic and Domain Knowledge:** Ability to articulate, illustrate, analyze, synthesize and apply the knowledge of principles and frameworks of management and allied domains to the solutions of real-world complex business issues.
- 2. Problem Solving & Innovation:** Ability to Identify, formulate and provide innovative solution frameworks to real world complex business and social problems by systematically applying modern quantitative and qualitative problem solving tools and techniques.
- 3. Critical Thinking:** Ability to conduct investigation of multidimensional business problems using research based knowledge and research methods to arrive at data driven decisions.
- 4. Effective Communication:** Ability to effectively communicate in cross-cultural settings, in technology mediated environments, especially in the business context and with society at large.
- 5. Leadership and Team Work:** Ability to collaborate in an organizational context and across organizational boundaries and lead themselves and others in the achievement of organizational goals and optimize outcomes for all stakeholders.
- 6. Global Orientation and Cross-Cultural Appreciation:** Ability to approach any relevant business issues from a global perspective and exhibit an appreciation of Cross Cultural aspects of business and management.

7. Entrepreneurship: Ability to identify entrepreneurial opportunities and leverage managerial & leadership skills for founding, leading & managing startups as well as professionalizing and growing family businesses.

8. Environment and Sustainability: Ability to demonstrate knowledge of and need for sustainable development and assess the impact of managerial decisions and business priorities on the societal, economic and environmental aspects.

9. Social Responsiveness and Ethics: Ability to exhibit a broad appreciation of the ethical and value underpinning's of managerial choices in a political, cross-cultural, globalized, digitized, socio-economic environment and distinguish between ethical and unethical behaviors & act with integrity.

10. Life Long Learning: Ability to operate independently in new environment, acquire new knowledge and skills and assimilate them into the internalized knowledge and skills.

PG-PROGRAMME EDUCATIONAL OBJECTIVES (PEO):

PEO 1: Graduates of the MBA program will successfully integrate core, cross-functional and interdisciplinary aspects of management theories, models and frameworks with the real world practices and the sector specific nuances to provide solutions to real world business, policy and social issues in a dynamic and complex world.

PEO 2: Graduates of the MBA program will possess excellent communication skills, excel in cross-functional, multi-disciplinary, multi-cultural teams, and have an appreciation for local, domestic and global contexts so as to manage continuity, change, risk, ambiguity and complexity.

PEO 3: Graduates of the MBA program will be appreciative of the significance of Indian ethos and values in managerial decision making and exhibit value centered leadership.

PEO 4: Graduates of the MBA program will be ready to engage in successful career pursuits covering a broad spectrum of areas in corporate, non-profit organizations, public policy, entrepreneurial ventures and engage in life-long learning.

PEO 5: Graduates of the MBA program will be recognized in their chosen fields for their managerial competence, creativity & innovation, integrity & sensitivity to local and global issues of social relevance and earn the trust & respect of others as inspiring, effective and ethical leaders, managers, entrepreneurs, entrepreneurs and change agents.

A. Curriculum Design

The adoption of creative learning methods by keeping Blooms taxonomy in mind and giving experience of “learning by doing” helps students to understand the concepts in both breadth and depth. The curriculum is designed to offer sufficient flexibility allowing the students.

Organizing various co-curricular and extra- curricular activities centrally by the institute or through various student clubs help the students to develop leadership qualities, teamwork spirit, professional and soft skills which help them to succeed in their life. Values are inculcated in the students through the reflection of the virtues of the all concerned stake holders and the culture of the institute. The values related with good citizenship and civic sense is addressed through courses on Environment Studies, Economics, Industrial Management and Business Ethics etc. Thus the academic programs of the institute enable the students to acquire existing knowledge, enhance their analytical and design abilities to provide engineering solutions to real world problems through research and help them to become leaders in their respective field.

B. Enhancement of Employability, Innovation and Research

Employability:

- PDEA's College of Engineering, Manjari, bk, Pune is affiliated with Savitribai Phule Pune University, Pune, and follows the curriculum prescribed by the University to meet their general and specific requirements.
- Most of the courses enable the students to enhance their technical and logical skills.
- Theory courses are augmented by corresponding practical courses which develop in students the skills related with design & development.
- Mini-projects and project based learning are a part of curriculum for both the first and second year of the program. Internship is carried out in the third year of the program. Main project is carried out by the UG students in the fourth year of the program either in the department or in the industry.
- The presentation of mini-projects, project based learning and projects through seminars for UG program helps to develop communication and professional skills and team skills in the students.
- Need based training programs are provided to the students in the form of workshops and Experts from industry, professors from reputed institutes or in-house faculty.
- Special Soft-Skill development programs, Aptitude and Attitude development programs delivered by industry professionals are arranged by Training and placement officer on regular basis.
- Industrial visits are arranged by various departments to give exposure to current trends and requirements of industries.
- Efforts are taken to introduce open electives so that students acquire knowledge from cross domain platforms and apply skills to develop integrated systems.

Innovation:

- To enhance the innovative skills the institute offers various opportunities to the students by allowing them to participate in National/International level events like ROBO Competitions, etc. As a result, Institute received the rewards at national /International level.
- Students also participate in Technical Events like National level TANTRA organized at institute which offers them an opportunity to exhibit & demonstrate their innovative & technical skills.
- Each department student association organizes competitions and on regular interval club services on various technical skills throughout the year. CESA – Computer Engineering department students association, MESA- Mechanical Engineering department students association, ITSA- Information Technology department students association organize the technical events in their areas to motivate the students to explore and innovate.
- Apart from various students associations, there are other clubs with cross domain department memberships are in existence such as ROBO Club and NSS Club. There programs are innovative, triggering social awareness and responsibility towards society.
- Students are encouraged to present the papers on their dissertation and project work in the conferences held anywhere in India.
- The state of the art Laboratories are getting established in the institutes in the various areas in the departments.

C. Academic Flexibility

The institute offers Choice based Credit system as per SPPU curriculum. Students have the freedom to select the open electives offered by departments. The curriculum offers enough flexibility to students to choose courses of their interest while maintaining prescribed level of core knowledge essential for obtaining degree in each program.

Industrial Trainings

Depending on the skills needed for employability and successful professional career, internship is offered to the students under the guidance of faculty in the industry. These industrial trainings help the students to acquire technical skills, personality development and knowledge of latest software available in the branch.