



Gokhale Education Society's

# R. H. SAPAT COLLEGE OF ENGINEERING MANAGEMENT STUDIES & RESEARCH

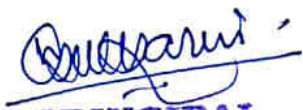


2.6.1 Programme outcomes, Programme specific outcomes for all Programmes

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**PRINCIPAL**  
G.E.S.'s R. H. Sapat College of Engg.  
Mgt. Studies & Research  
Ptn. T. A. Kulkarni Vidya Nagar, Nashik-5.



### Programme Outcomes

- PO1. Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex civil engineering problems.
- PO2. Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- PO3. Design solutions for complex civil engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
- PO4. Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
- PO5. Select and apply civil engineering softwares and soft computing tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
- PO6. 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. Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
- PO8. Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- PO9. Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- PO10. 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. 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. 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.

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## Program Specific Outcomes (PSOs)

### The Program Specific Outcomes of Civil Engineering Department

Graduates in Civil Engineering will be able to

- 1) Function as competent civil engineer for the safety and betterment of the society
- 2) Function as design consultants for the design of civil engineering projects
- 3) Execute civil engineering projects & provide sustainable solutions to the civil engineering problems.

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## **R. H. SAPAT COLLEGE OF ENGINEERING MANAGEMENT STUDIES & RESEARCH**



### **DEPARTMENT OF COMPUTER ENGINEERING Program Specific Outcomes (PSO)**

**A post graduate of the Computer Engineering Program will demonstrate-**

#### **PSO1: Professional Skills**

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

#### **PSO2: Problem-Solving Skills**

The ability to apply standard practices and strategies in software project development using open-ended programming environments to deliver a quality product for business success.

#### **PSO3: Successful Career and Entrepreneurship**

The ability to employ modern computer languages, environments, and platforms in creating innovative career paths to be an entrepreneur, with zest for research.

#### **PSO4: Research Skills**

The ability to study, experiment, interpret, analyze and explore the solutions to the engineering problems which are effective, efficient, optimized and feasible.

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## R. H. SAPAT COLLEGE OF ENGINEERING MANAGEMENT STUDIES & RESEARCH



DEPARTMENT OF COMPUTER ENGINEERING

### Program Specific Outcomes (PSO)

**A graduate of the Computer Engineering Program will demonstrate-**

**PSO1: Professional Skills-**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.

**PSO2: Problem-Solving Skills-** The ability to apply standard practices and strategies in software project development using open-ended programming environments to deliver a quality product for business success.

**PSO3: Successful Career and Entrepreneurship-** The ability to employ modern computer languages, environments, and platforms in creating innovative career paths to be an entrepreneur, and a zest for higher studies

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## Department of Electrical Engineering

### Program Specific Outcomes (PSO)

#### UG

**PSO1:-** Be able to design, develop & take up research with ecofriendly innovative solution to electrical engineering problem.

**PSO2:-** Be able to work in industry & society as a competent engineer to meet the challenges in the field of electrical engineering.

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**DEPARTMENT OF ELECTRICAL ENGINEERING**

**PROGRAM SPECIFIC OUTCOMES (PSO)**

**After successful completion of the program, the PG students in Power Electronics and Drives will be able to:**

**PSO1-**Apply specialized knowledge to solve industry problems related to power electronics and drives using modern tools.

**PSO2-** Apply domain knowledge to analyze and design power electronic components, circuits and systems.

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**Mechanical Engineering Department**

**Programme Specific Outcomes (PSOs)**

**PG**

- Mechanical Engineering Graduates will be able to develop research attitude and multidisciplinary approach through demonstration of good analytical, design and implementation skills.
- Mechanical Engineering Graduates will be able to investigate and provide solution to problems in the field of design, optimization and vibration using relevant research methodology, techniques and tools
- Mechanical Engineering Graduates will be able to apply the knowledge of engineering and management principles to work as a member/leader of multidisciplinary design team.

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### **Mechanical Engineering Department**

#### **Programme Specific Outcomes (PSOs)**

#### **UG**

- Mechanical Engineering Graduates will be able to work in the industries with the thorough knowledge in the field of thermal, design and manufacturing processes.
- Mechanical Engineering Graduates will be able to demonstrate the ability to identify, formulate and solve mechanical engineering problems using research based knowledge and research methods.
- Mechanical Engineering Graduates will be able to apply value embedded technical knowledge to assess social and professional ethical responsibility.

  
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## **R. H. SAPAT COLLEGE OF ENGINEERING MANAGEMENT STUDIES & RESEARCH**



### **DEPARTMENT OF MCA ENGINEERING PROGRAM SPECIFIC OUTCOMES (PSO)**

After successful completion of the program, the PG students in MCA Engineering will develop

**PSO1-Professional Skills-**The ability to understand, analyze and develop computer programs in the areas related to algorithms, system software, multimedia, web design, big data analytic, and networking for efficient design of computer-based systems of varying.

**PSO2-Problem-Solving Skills-** The ability to apply standard practices and strategies in software project development using open-ended programming environments to deliver a quality product for business success.

**PSO3-Successful Career and Entrepreneurship-** The ability to employ modern computer languages, environments, and platforms in creating innovative career paths to be an entrepreneur, and a zest for higher studies.

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