

Mechanical Department

Vision, Mission, PEO's, PO's and PSO's

<u>Vision</u>:

The Mechanical Engineering department strives to produce quality engineers to enable them pursue diverse careers with professional standards and ethical values.

<u>Mission</u>:

- **M1**: To provide relevant and quality education to meet needs of industry and society.
- **M2**: To equip with requisite set of skills and knowledge to succeed and thrive as engineers and leaders.
- **M3**: To provide a continuous learning environment for promoting research activities.
- **M4**: To provide a competitive atmosphere to encourage innovative and original thinking.

Program Educational Objectives (PEO's)

PEO1: To prepare students to work in any organization or become an entrepreneur.

PEO2: To involve in academic and research oriented projects and build team spirit.

PEO3: To associate with professional bodies to improve knowledge and communication skills.

PEO4: To create awareness of life-long learning and ethical practices.

PEO5: To provide the suitable environment to bring out creativity and innovativeness.

Program Outcomes (PO's)

Upon completion of the program, the student will be able

PO1 Engineering knowledge: To understand and apply the knowledge of mathematics, science and engineering fundamentals to solve the engineering problems.

PO2 Problem analysis: To identify, formulate and analyze the complex problems in mechanical and interdisciplinary streams.

PO3 Design/development of solutions: To design and develop the components/system or a process for deriving the solutions to meet the specific needs.

PO4 Conduct investigations of complex problems: To investigate and obtain solutions to complex problems by adapting experimental and computational techniques.

PO5 Modern tool usage: To familiarize with usage of modern methods like simulation, statistical and IT tools for modeling of engineering problems.

PO6 The engineer and society: To assess the health, safety, legal and cultural issues and be an important and responsible contributor to the society.

PO7 Environment and sustainability: To recognize the long term effects of solutions on environment and sustainability of mankind.

PO8 Ethics: To understand and apply the principles of professional and business ethics in their day to day life.

PO9 Individual and team work: To execute the work as an individual or member of the team or lead the team effectively to achieve the set objectives/goals.

PO10 Communication: To effectively prepare, communicate and present the reports on engineering activities to his peers, subordinates and superiors.

PO11 Project management and finance: To apply the Engineering, Finance and Management principles for design and execution of engineering projects.

PO12 Life-long learning: To recognize the need and be part of continuous learning to meet the challenges of upcoming technologies.

Program Specific Outcomes (PSO's)

PSO1: To become an entrepreneur/ pursue a profession in Mechanical Engineering.**PSO**2: To take up multi disciplinary and cost effective research oriented projects.

Prepared byNBA coordinatorPrincipal/HOD (Mech)Date: 04.04.2018