

**Programme Educational Objectives and Programme Outcomes of  
Production Engineering Department**

| Sl. No. | Programme Educational Objectives (PEOs)  | Programme Outcomes (POs)                                  |   |
|---------|--|---|---|
|         |  | On Completion of the programme Graduands will be able to: |   |
| 1       | To provide students with the required basic knowledge, methodologies and use of latest technologies                    | a<br>b  | <b>Engineering Knowledge:</b><br>To apply the knowledge of calculations, understand basic science and applying engineering techniques to resolve problems related to production engineering.                            |
| 2       | 1 To provide students with information helping them to attain long term goals.<br>2                                    |   | <b>Problem analysis:</b> To understand and articulate the various fields associated with production engineering and using various principles of mathematics and science to solve problems related to engineering.       |
| 3       | To cultivate teamwork, technical writing and oral communication skills.  |   | <b>Design/development of solutions:</b> Formulating solutions for tough engineering problems and creating a format to understand the various components of engineering.   |
| 4       | To provide students with an insight about the profession of engineering thus, helping them to be better professionals. | d   | <b>Conduct investigations of complex problems:</b><br>Use research knowledge and methodology to investigate data and synthesize information to provide the required conclusions.  |
| 5       |  | e   | <b>Modern tool usage:</b> To formulate and apply the different applications and tools of mechanism so as to understand the various outcomes and short comings of different methods used in the field of engineering.    |
| 6       |  |   | <b>The engineer and society:</b> Play a role of an engineer in all spheres of life including health, communication, science, legal system and cultural issues. Exhibit his professionalism for being a better engineer. |

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|         |   | On Completion of the programme Graduands will be able to:  |
| 7       | f                                       | <b>Environment and sustainability:</b> Understand the role of professional engineering in society and implementing the same to maintain environmental ethics, and apply the knowledge for sustainability.  |
| 8       | g<br>h                                  | <b>Ethics:</b> Apply work ethics and follow the principles of engineering for performing their responsibilities efficiently.   |
| 9       | i<br>j                                  | <b>Individual and team work:</b> Perform effectively as an individual as well as lead a team in time of necessity. Exhibit qualities of cooperation and leadership so as to lead as a team.  |
| 10      | k                                       | <b>Communication:</b> As an engineer communicate effectively so as to share their ideas and knowledge as well as perform the activities efficiently. Also helps in creating better outcomes in terms of report making, documentation, and present effective presentations.                   |
| 11      | l                                       | <b>Project management and finance:</b> Manifesting required knowledge and understanding the principles of Management so as to deliver better performance while working in a group. Helps to exhibit better group dynamics while working on a project as well as imbibes a collective effort. |
| 12      |   | <b>Life-long learning:</b> Acknowledge the different needs of the profession and updating oneself to cope with the demands of engineering.   |

**PROGRAM SPECIFIC OUTCOMES OF PRODUCTION ENGINEERING  
DEPARTMENT**

| <b>Sl.No.</b> | <b>Programme Specific Outcomes</b>   |
|---------------|--|
| <b>1</b>      | Apply their knowledge in the field of production engineering, thermal and fluid sciences to solve engineering problems utilizing latest technology.          |
| <b>2</b>      | Successfully apply the principles of design, analysis and implementation of mechanical systems/processes which have been gained as a part of the curriculum. |
| <b>3</b>      | Develop and implement new ideas on designing a product and developing with the help of modern CAD/CAM tools, while ensuring best manufacturing methods.      |