M.Tech - Thermal and Propulsion

Program Educational Objectives (PEO)

1. To lay firm foundations of fundamental knowledge, analytical and experiment skills in thermal sciences and propulsion engineering.
2. To inculcate independent academic research activities and practical system designs with innovation.
3. To promote academic research based on the current technological need of industry and research establishments
4. Graduates shall express ideas/ solutions with crisp and straightforward communication and work as a team for the upliftment of society.

Program Outcomes (PO)

1. To impart core competency in the field of thermal sciences and Aerospace propulsion engineering
2. A capability to research independently to analyze and resolve real-life problems in thermal sciences and Aerospace propulsion engineering
3. An ability to comprehend and critically evaluate research articles, compile the technological gap, and provide an alternative solution in thermal sciences and Aerospace propulsion engineering.
4. Potential to judge the need for a system-level or multidimensional approach in resolving Thermal sciences and Aerospace propulsion engineering challenges
5. A capability to perform experiments, numerical simulation, and theoretical analysis; and paraphrase the outcome through mutual comparison.
6. A capacity to analyze their own academic/ research outcomes with logical interpretation, and to present/ publish a well written article
7. A capability to innovate, design and optimize thermal or propulsion engineering equipment
8. An ability to progressively update academic and professional knowledge to cope with the future technological challenges
9. Guidance to upkeep professional ethics in all scientific and engineering practices.