

RECOMMENDATIONS/SUGGESTIONS REPORT

PO/PSO ATTAINMENTS

Batch: 2022-2026

A.Y: 2026-27

POs	Target Level (%)	Attainment Level (%)	Observations
PO1: Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.			
PO1	Target Level (%)	Attainment Level (%)	Attained
	64	65.37	Out of 43 courses, 41 courses are contributing towards PO1. Out of 41 courses, 32 courses are above the PO target level.
	The attainment exceeded the target. Existing teaching-learning practices, problem-solving exercises and concept reinforcement will be continued with additional application-oriented examples.		
PO2: 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.			
PO2	Target Level (%)	Attainment Level (%)	Marginal Attainment
	64	64.86	Out of 43 courses, 40 courses are contributing towards PO2. Out of 40 courses, 32 courses are above the PO target.
	The target was achieved. More analytical and problem-based learning activities will be continued to sustain and further improve problem-analysis skills.		
PO3: 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.			
PO3	Target Level (%)	Attainment Level (%)	Marginal Attainment
	64	64.91	Out of 43 courses, 38 courses are contributing towards PO3. Out of 38 courses, 31 courses are above the PO target.
	The target was achieved. Design-oriented assignments, mini-projects and practical activities will be strengthened to maintain the attainment level.		
PO4: 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.			
PO4	Target Level (%)	Attainment Level (%)	Marginal Attainment
	64	64.90	Out of 43 courses, 39 courses are contributing towards PO4. Out of 39 courses, 32 courses are above the PO target.
	The target was achieved. Students will continue to be encouraged to undertake experiments, simulations and technical investigations to strengthen analytical and investigative abilities.		
PO5: 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.			
PO5	Target Level (%)	Attainment Level (%)	Not Attained
			Out of 43 courses, 08 courses are contributing toward PO5.

	68	66.12	Out of 08 courses, 7 courses are above the PO target
	Additional hands-on training in modern engineering software, simulation tools and laboratory equipment will be provided through workshops, certification programs and practice-based assignments. Action plan: Conduct additional hands-on workshops and certification programs on CAD/CAE, CFD, FEA, simulation and other modern engineering tools.		
PO6: 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.			
	Target Level (%)	Attainment Level (%)	
PO6	63	59.87	Not Attained Out of 43 courses, only 04 courses are contributing toward PO6. Out of 04 courses all are above the PO target.
	More activities related to engineering applications, societal needs, professional responsibility and community-oriented projects will be introduced. Action plan: Increase community-based projects, outreach activities and real-world engineering problem-solving activities.		
PO7: 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.			
PO7	Target Level (%)	Attainment Level (%)	Target not reached
	61	57.82	Out of 43 courses, only 03 course is contributing toward PO7 and all are above the target.
	Sustainability-related case studies, green engineering practices, renewable-energy activities and SDG-oriented student projects will be increased. Action plan: Integrate renewable energy, energy efficiency, green manufacturing and SDG-related case studies and projects.		
PO8: Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.			
PO8	Target Level (%)	Attainment Level (%)	Target not reached
	62	59.28	Out of 43 courses, only 02 courses are contributing toward PO8 and all are above the target.
	Professional ethics, engineering codes of conduct, case studies and discussions on ethical engineering practices will be incorporated into courses and student activities. Action plan: Include engineering ethics, professional responsibility and ethical case studies in classroom and co-curricular activities.		
PO9: Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings			
PO9	Target Level (%)	Attainment Level (%)	Not Attained
	64	63.81	Out of 43 courses, 03 courses are contributing toward PO9 and all are above the target.
	Collaborative assignments, team projects, technical competitions and student chapter activities will be increased to strengthen teamwork, leadership and interpersonal skills. Action plan: Promote team-based projects, hackathons, technical competitions, professional-body activities and collaborative assignments.		

PO10: 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.			
PO10	Target Level (%)	Attainment Level (%)	Not Attained Out of 43 courses, 03 courses are contributing towards PO10 and all are above the target.
	65	61.31	
	More technical presentations, seminars, group discussions, poster presentations, report-writing activities and communication-skill exercises will be conducted. Action plan: Increase student seminars, technical presentations, group discussions, poster presentations and technical report-writing activities.		
PO11: 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.			
PO11	Target Level (%)	Attainment Level (%)	Not Attained Out of 43 courses, 01 courses are contributing toward PO11 and is above the target level.
	69	61.99	
	Greater emphasis will be placed on project planning, budgeting, resource management, entrepreneurship, industry interaction and project-management activities. Action plan: Introduce entrepreneurship awareness, project planning, budgeting, cost estimation, resource management and industry-oriented project activities.		
PO12: 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.			
PO12	Target Level (%)	Attainment Level (%)	Target reached Out of 43 courses, 41 courses are contributing toward PO12. Out of 41 courses, 33 courses are above the PO target.
	62	63.88	
	The target was exceeded. NPTEL courses, certification programs, guest lectures, workshops, internships and self-learning activities will be continued to promote lifelong learning. Action plan: Continue NPTEL, MOOCs, internships, certification programs, guest lectures and professional-development activities.		
PSO1: To apply the knowledge of Aerodynamics, Propulsion, Aircraft structures, and Flight Dynamics in Aerospace vehicle design.			
PSO1	Target Level (%)	Attainment Level (%)	Attained Out of 43 courses, 38 courses are contributing towards PSO1. Out of 38 courses, 30 courses are above the PO target value of 65%.
	64	65.88	
	The target was exceeded. Technical skill development, domain-specific training, laboratory practice and industry-oriented activities will be continued.		
PSO2: To prepare the students to work effectively in Aerospace and Allied Engineering organizations.			
	Target Level (%)	Attainment Level (%)	Attained Out of 43 courses, 33 courses are contributing towards PSO2. Out of 33 course, 26 courses are above the PO target value of 65%.
PSO2	64	65.25	
	The target was exceeded. Application-oriented projects, software training, industrial exposure and interdisciplinary activities will be strengthened to sustain the attainment.		

Coordinator(s)

Head of the Department