



SAPTHAGIRI COLLEGE OF ENGINEERING

(Affiliated to VTU , Belagavi & Approved by AICTE, New Delhi)

#14/5, Chikkasandra, Hesaraghatta main road, Bangalore - 560057

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACTION PLAN FOR PROGRAM OUTCOMES & PROGRAM SPECIFIC OUTCOMES (2015 SCHEME)

Sl. No	PO/PSO	Description of PO/PSO	Target %	Attainment %	Attainment YES/NO	Action plan to reach target/Improvement
1	PO1	Engineering Knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.	75	76	YES	Maintain teaching and assessment methods and set the Higher target of 80%
2	PO2	Problems Analysis: Identify, formulate, review research literature, and analyze complex, engineering problems reaching sustained conclusions using first principles of mathematics, natural science and engineering science.	70	72	YES	Maintain teaching and assessment methods and set the Higher target of 80%
3	PO3	Design/development of solutions: Design solutions for complex engineering problems and design system components of process that meet the specified needs with appropriate consideration for the public health and safety, and cultural, societal, and environmental consideration.	60	63	YES	Maintain teaching and assessment methods and set the Higher target of 70%
4	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 information to provide valid conclusions.	60	61	YES	Maintain teaching and assessment methods and set the Higher target of 70%
5	PO5	Modern tool usage: create, select, and apply appropriate techniques, resource and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.	60	62	YES	1.special programs will be arranged on modern software technique. 2.talk on modern tool for the courses required and special hands on session

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6	PO6	The engineer and society: Apply the reasoning informed by the contextual knowledge to access societal, health, safety, legal and cultural issue and the consequent responsibility relevant to the professional engineering practice.	55	58	YES	Maintain teaching and assessment methods and set the Higher target of 65%
7	PO7	Environment and sustainability: Understanding the impact of the professional engineering solution in the social and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.	60	56	NO	1. Special workshops will be conducted on health and safety measurements. 2. Talk on environmental impacts. 3. Club events and activities will be Conducted in the department.
8	PO8	Ethics: Apply ethics principle and commit to professional ethic and responsibility and norms of the engineering practice.	60	70	YES	Maintain teaching and assessment methods and set the Higher target of 70%
9	PO9	Individual and team work: Function effectively as an individual, and as member or leader in diverse team, and in multidisciplinary setting.	55	60	YES	Maintain teaching and assessment methods and set the Higher target of 65%
10	PO10	Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.	60	60	YES	Maintain teaching and assessment methods and set the Higher target of 70%
11	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 team, to manage projects and in multidisciplinary environments.	55	59	YES	Maintain teaching and assessment methods and set the Higher target of 65%
12	PO12	Life-long learning: Recognizing the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.	60	70	YES	Maintain teaching and assessment methods and set the Higher target of 65%

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13	PSO1	The application of fundamental knowledge to identify, formulate and investigate various real time problems of Electrical Machines, Power Electronics, Control System, High Voltage Engineering, Power System and Micro controller.	65	68	YES	Maintain teaching and assessment methods and set the Higher target of 75%
14	PSO2	The application of recent techniques along with modern software tools (like MATLAB, AUTOCAD-Electrical, MI Power, etc.) for designing, simulating and analyzing electrical systems as well as electronic system to engage in lifelong learning.	65	70	YES	Maintain teaching and assessment methods and set the Higher target of 70%
15	PSO3	The utilization of knowledge regarding project management techniques and sustainable technologies for developing projects in various applications like Renewable energy, Power systems, and High voltage Engineering, Industrial Drives and Micro controller.	60	63	YES	Maintain teaching and assessment methods and set the Higher target of 70%

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