# RVS COLLEGE OF ENGINEERING AND TECHNOLOGY

COIMBATORE – 641 402

B.E. ELECTRICAL AND ELECTRONICS ENGINEERING

REGULATION – 2017

| PROGRAMME EDUCATIONAL OBJECTIVES (PEOs) | |
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| **PEO1** | To Have successful technical and professional careers in their chosen fields such as circuit theory, Field theory, control theory and computational platforms. |
| **PEO2** | To Engross in life long process of learning to keep themselves abreast of new developments in the field of Electronics and their applications in power engineering. |

| PROGRAM SPECIFIC OUTCOME (PSOs) | |
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| **PSO1** | Design solutions for complex engineering problems and design system components or processes that meet specified needs with appropriate consideration for public health and safety, cultural, societal and environmental considerations. |
| **PSO2** | Identify, formulate, research literature and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences and engineering sciences. |
| **PSO3** | Apply knowledge of mathematics, science, engineering fundamentals and engineering specialization to the solution of complex engineering problems. |

| PROGRAMME OUTCOMES (POs) | |
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| On successful completion of the programme, | |
| PO1 | Apply the Mathematical knowledge and the basics of Science and Engineering to solve the problems pertaining to Electronics and Instrumentation Engineering. |
| PO2 | Identify and formulate Electrical and Electronics Engineering problems from research literature and be ability to analyze the problem using first principles of Mathematics and Engineering Sciences |
| PO3 | Come out with solutions for the complex problems and to design system components or process that fulfill the particular needs taking into account public health and safety and the social, cultural and environmental issues. |

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| PO4 | Draw well-founded conclusions applying the knowledge acquired from research and research methods including design of experiments, analysis and interpretation of data and synthesis of information and to arrive at significant conclusion. |
| PO5 | Form, select and apply relevant techniques, resources and Engineering and IT tools for Engineering activities like electronic prototyping, modeling and control of systems and also being conscious of the limitations. |
| PO6 | Understand the role and responsibility of the Professional Electrical and Electronics Engineer and to assess societal, health, safety issues based on the reasoning received from the contextual knowledge. |
| PO7 | Be aware of the impact of professional Engineering solutions in societal and environmental contexts and exhibit the knowledge and the need for Sustainable Development. |
| PO8 | Apply the principles of Professional Ethics to adhere to the norms of the engineering practice and to discharge ethical responsibilities. |
| PO9 | Function actively and efficiently as an individual or a member/leader of different teams and multidisciplinary projects. |
| PO10 | Communicate efficiently the engineering facts with a wide range of engineering community and others, to understand and prepare reports and design documents; to make effective presentations and to frame and follow instructions. |
| PO11 | Demonstrate the acquisition of the body of engineering knowledge and insight and Management Principles and to apply them as member / leader in teams and multidisciplinary environments. |
| PO12 | Recognize the need for self and life-long learning, keeping pace with technological challenges in the broadest sense. |

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