

# **SREE VIDYANIKETHAN ENGINEERING COLLEGE**

**(AUTONOMOUS)**

Sree Sainath Nagar, Tirupati – 517 102

Department of Electronics and Communication Engineering

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## **SVEC-14**

### **M. Tech. (VLSI)**

#### **Program Educational Objectives:**

- PEO1:** To impart advanced knowledge in the domains of Very Large Scale Analog, Digital and Mixed Signal Integrated Circuits.
- PEO2:** To develop analytical, problem solving, design and development skills in Very Large Scale Integration.
- PEO3:** To apply the knowledge and skills of Very Large Scale Integration for the solutions to the real world engineering problems.
- PEO4:** To provide opportunity to work with a strong sense of professionalism and code of engineering practice.

#### **Program Outcomes:**

On completion of the Programme, the students will be able to

- PO1:** Acquire in-depth knowledge in the specialized domain of Very Large Scale Analog, Digital and Mixed Signal Integrated Circuits.
- PO2:** Analyze complex engineering problems critically for conducting research in very large and ultra large scale integration technology.
- PO3:** Solve engineering problems to arrive at feasible and optimal solutions in the core areas of Very Large Scale Integration with consideration to societal and environmental factors.
- PO4:** Apply appropriate research methodologies and techniques to contribute for development of scientific and technological knowledge in Very Large Scale Integration and allied areas.
- PO5:** Use appropriate techniques, resources and modern tools to complex engineering activities in the field of Very Large Scale Integration.
- PO6:** Contribute to collaborative-multidisciplinary scientific research, demonstrate capacity for self-management, teamwork and decision making.
- PO7:** Manage projects as a member in a team and leader with the understanding of engineering and management principles with consideration to economic and financial factors.
- PO8:** Communicate effectively in professional and personal domains through verbal and written forms.
- PO9:** Engage in life-long learning to improve knowledge and competence in the world of rapid technological changes.
- PO10:** Follow ethical code of conduct in professional activities for sustainable development of society.
- PO11:** Adapt to reflective self learning for enhanced personal development.