School of Engineering

Department of Electronics & Communication Engineering

(M.Tech- VLSI Design and Embedded Systems)

Department Vision:

To be a center of excellence in Electronics & Communication Engineering by delivering quality education, fostering innovative research, and promoting industry and community engagement to develop competent, ethical, and socially responsible professionals who contribute to regional, national, and global technological advancement.

Department Mission:

Mission 1: To provide a dynamic and inclusive learning environment that imparts strong theoretical knowledge, practical skills, and multidisciplinary competencies in Electronics, Communication, VLSI Design and Embedded Systems through outcome-based education.

Mission 2: To foster innovation, research, entrepreneurship, and lifelong learning by promoting collaborative research, industry interaction, and the development of sustainable technological solutions addressing societal and industrial needs.

Mission 3: To nurture ethical values, leadership qualities, professional responsibility, and effective communication skills, enabling graduates to excel in higher education, research, and global engineering careers while serving society.

Program Educational Objectives (PEOs):

PEO1: Graduates will apply advanced knowledge in Embedded Systems and VLSI to design and develop efficient, reliable, and innovative engineering solutions.

PEO2: Graduates will pursue successful careers in industry, academia, or research, and contribute to technological advancements through innovation and continuous professional development.

PEO3: Graduates will demonstrate ethical practices, effective communication, teamwork, and a commitment to lifelong learning to adapt to evolving technologies.

Program Outcomes (POs):

PO	Statement
PO1:	An ability to independently carry out research /investigation and development work to solve practical problems
PO2:	An ability to write and present a substantial technical report/document
PO3:	Students should be able to demonstrate a degree of mastery over the area as per the specialization of the program. The mastery should be at a level higher than the requirements in the appropriate bachelor program
PO4:	An ability to apply advanced knowledge of VLSI design, embedded systems, semiconductor devices, and digital system design to develop innovative and efficient engineering solutions.
PO5:	An ability to analyze, design, simulate, and implement complex VLSI and embedded systems using modern EDA tools, hardware description languages, microcontrollers, and FPGA platforms.
PO6:	An ability to demonstrate professional, ethical, and lifelong learning skills to address emerging challenges in VLSI and embedded systems and contribute effectively to industry, research, and society.

Head of Department

(Signature & Seal)

Head of the Department
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Chittoor (Dist.) A.P.