SANSKRITHI SCHOOL OF ENGINEERING

Behind SSSS Hospital, Beedupalli knowledge park, Prasanthigram, Puttaparthi - 515134
Affiliated by JNTUA & Approved by All India Council for Technical Education (AICTE), www.sseptp.org

DEPARTMENT OF CIVIL ENGINEERING

Vision:

To empower graduates to excel as competent professionals in the field of Design and Development, focusing on safe, healthy, sustainable, and eco-friendly infrastructure for the holistic development of society.

Mission:

Our mission is to provide quality education through interdisciplinary research and innovative practices, with the aim of contributing to the betterment of human society through effective teaching and learning methodologies. We strive to develop creative solutions to a wide range of challenges in Civil Engineering by adopting modern tools and techniques.

Programme Educational Objectives (PEOs):

The B. Tech (CIVIL) programme aims to achieve the following Programme Educational Objectives:

PEO1: Professional Competence: Graduates will demonstrate professional competence in their chosen careers by effectively utilizing appropriate techniques and modern engineering tools in the successful execution of projects.

PEO2: Problem Solving: Graduates will apply mathematical, scientific, and engineering principles to effectively solve complex problems in Civil Engineering, engaging in lifelong learning to keep abreast of advancements in the field.

PEO3: Multidisciplinary Collaboration: Graduates will actively participate in multidisciplinary projects, assuming professional and ethical responsibilities while working collaboratively with diverse teams.

Programme Outcomes (POs):

PO1: Engineering Knowledge: Apply mathematical, scientific, and engineering fundamentals, along with specialized engineering knowledge, to address intricate engineering problems.

PO2: Problem Analysis: Identify, formulate, and analyze complex engineering problems by conducting research, consulting relevant literature, and applying fundamental principles from mathematics, natural sciences, and engineering.

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PO3: Design/Development of Solutions: Design solutions and system components or processes that meet specific requirements, taking into consideration public health and safety, as well as cultural, societal, and environmental factors.

PO4: Conduct Investigation of Complex Problems: Utilize research-based knowledge and research methodologies, including experimental design, data analysis, interpretation, and synthesis, to draw valid conclusions.

PO5: Modern Tool Usage: Employ appropriate techniques, resources, and modern engineering and IT tools, including predictive modeling, to effectively engage in complex engineering activities while being aware of the limitations associated with these tools.

PO6: Engineer and Society: Utilize contextual knowledge and reasoning to evaluate societal, health, safety, legal, and cultural aspects, recognizing the associated responsibilities pertinent to professional engineering practice.

PO7: Environment and Sustainability: Comprehend the impact of professional engineering solutions within societal and environmental contexts, while demonstrating knowledge of and advocating for sustainable development.

PO8: Ethics: Apply ethical principles, adhering to professional ethics, responsibilities, and norms inherent in engineering practice.

PO9: Individual and Teamwork: Function proficiently both as an individual and as a member or leader in diverse teams and multidisciplinary settings.

PO10: Communication: Effectively communicate complex engineering concepts within the engineering community and to a broader audience, including the ability to comprehend and compose comprehensive reports and design documentation, deliver impactful presentations, and provide and receive clear instructions.

PO11: Project Management and Finance: Display a comprehensive understanding of engineering and management principles, effectively applying them to personal work and team roles, while managing projects and operating in multidisciplinary environments.

PO12: Lifelong Learning: Acknowledge the necessity for continuous and self-directed learning in response to the ever-evolving technological landscape, equipped with the readiness and capability to engage in independent and lifelong learning across diverse domains.

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Programme Specific Outcomes (PSOs):

Engineering graduates will have the ability to:

PSO1: Project Planning and Execution: Plan, analyze, design, and execute cost-effective projects related to Civil Engineering structures, while emphasizing the conservation and protection of natural resources for sustainable growth.

PSO2: Diverse Career Paths: Pursue employment opportunities, establish new start-ups, engage in entrepreneurship, contribute to research and development, and become chartered Engineering professionals, all with a strong commitment to serving society with honesty and integrity.

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Vision:

To establish ourselves as a frontrunner in delivering exceptional education and training in the realm of Electrical and Electronics Engineering, equipping aspiring graduates with the competence to excel in their professional endeavors.

Mission:

To empower graduates with the essential knowledge and skills required for successful employment and continuous growth in the dynamic field of Electrical and Electronics Engineering. We actively engage in applied research, exploring emerging technologies, and offer professional services to contribute to the advancement of the industry.

The Program Educational Objectives (PEOs) of the B. Tech (EEE) program are as follows:

PEO1: Graduates demonstrate professional competence by applying principles from mathematics, science, and engineering to solve complex problems in the field of Electrical and Electronics Engineering and its related disciplines.

PEO2: Graduates maintain relevance in their chosen profession through lifelong learning and exhibit a strong sense of social and ethical responsibility.

PEO3: Graduates exhibit both independent and collaborative abilities by effectively participating in project execution as individuals or as members of a team.

Program Outcomes (POs):

PO1: Engineering Knowledge: Apply mathematical, scientific, and engineering fundamentals, along with specialized engineering knowledge, to address intricate engineering problems.

PO2: Problem Analysis: Identify, formulate, and analyze complex engineering problems by conducting research, consulting relevant literature, and applying fundamental principles from mathematics, natural sciences, and engineering.

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Programme Specific Outcomes (PSOs):

Engineering graduates will have the ability to:

PSO1: Employ modern tools and techniques to model and analyze electrical systems, while incorporating safety standards and continuous improvement methodologies.

PSO2: Conceptualize, design, and develop intelligent systems within the field of Electrical and Electronics Engineering, incorporating innovative approaches and advancements.

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DEPARTMENT OF MECHANICAL ENGINEERING

Vision:

To establish ourselves as a leading institution that equips engineers, researchers, entrepreneurs, and managers in the field of Mechanical Engineering with the skills necessary to thrive on a global scale.

Mission:

Our mission is to provide high-quality education through experiential learning, utilizing ICT tools and engaging in socially relevant projects. We aim to involve both faculty and students in fundamental, heavy engineering, and applied research focused on addressing energy, environmental, and safety concerns. Furthermore, we strive to nurture and prepare our students to excel as successful entrepreneurs and managers.

Programme Educational Objectives (PEOs):

The B. Tech (MECH) programme aims to achieve the following Program Educational Objectives:

PEO1: Graduates will demonstrate adaptability to emerging technological challenges while possessing core competence in the field of mechanical engineering.

PEO2: Graduates will effectively apply their technical knowledge and skills to secure suitable positions within various technological organizations, as well as to succeed as entrepreneurs.

PEO3: Graduates will pursue advanced studies in key areas of mechanical engineering, enabling them to conduct scientific and industrial research ethically to meet the current demands of their respective sectors.

Programme Outcomes (POs):

PO1: Engineering Knowledge: Apply mathematical, scientific, and engineering fundamentals, along with specialized engineering knowledge, to address intricate engineering problems.

PO2: Problem Analysis: Identify, formulate, and analyze complex engineering problems by conducting research, consulting relevant literature, and applying fundamental principles from mathematics, natural sciences, and engineering.

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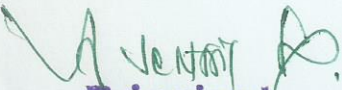
domains.

Programme Specific Outcomes (PSOs):

Engineering graduates will have the ability to:

PSO1: Employ modern tools and technologies for the design, analysis, and manufacturing of mechanical components and systems.

PSO2: Effectively address and solve complex, multidisciplinary problems encountered in manufacturing and related industries.

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Vision:

To establish ourselves as a renowned institution in the field of Electronics and Communication Engineering, recognized for our excellence in education and research.

Mission:

Our mission is to nurture and develop professionals and technology leaders who uphold the highest standards of professional ethics within the domains of Electronics and Communication Engineering. We strive to address societal needs while pushing the boundaries of disciplinary and multidisciplinary research, fostering universal moral values.

Programme Educational Objectives (PEOs):

The B. Tech (ECE) programme aims to achieve the following Programme Educational Objectives:

PEO1: Career Growth: Graduates will experience successful technical or professional career growth as they embark on their professional journey.
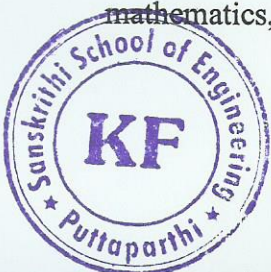
PEO2: Knowledge and Skills: Graduates will possess the ability to apply scientific, mathematical, and engineering fundamentals to provide innovative solutions to complex problems in Electronics and Communication Engineering and related fields.
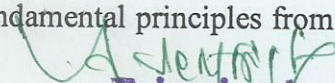
PEO3: Ethics and Lifelong Learning: Graduates will demonstrate a strong commitment to professional and ethical conduct, while actively engaging in continuous lifelong learning to stay abreast of evolving technologies and advancements.

Programme Outcomes (POs):

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PO2: Problem Analysis: Identify, formulate, and analyze complex engineering problems by conducting research, consulting relevant literature, and applying fundamental principles from mathematics, natural sciences, and engineering.

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Programme Specific Outcomes (PSOs):

Engineering graduates will have the ability to:

PSO1: Solutions for Complex Problems: Employ engineering knowledge in the fields of Signal/Image processing and Communication to effectively solve intricate engineering problems.

PSO2: Development of Products: Design system components and develop innovative products that cater to the specific requirements of the industry and society within the realm of Electronics and Communication Engineering.

PSO3: Interpersonal Skills: Cultivate essential interpersonal skills and a positive attitude necessary for ethical leadership and teamwork, including effective listening and communication, proficient presentation abilities, team building skills, and assertiveness.

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Vision:

To cultivate competent software professionals, academicians, and researchers through the provision of quality education.

Mission:

Our mission is to nurture skilled software developers, system designers, and network programmers. We strive to remain updated with the latest advancements and technological transformations in the field of computer science and engineering, leveraging them for the betterment of society.

Programme Educational Objectives (PEOs):

The B. Tech (CSE) programme aims to achieve the following Programme Educational Objectives:

PEO1: Effective Solutions for Industries: Graduates will apply the principles of basic science and engineering fundamentals to provide effective solutions for the software and hardware industries.

PEO2: Professional Competence and Lifelong Learning: Graduates will attain professional competence and achieve success in their careers through continuous lifelong learning.

PEO3: Project Handling and Social Responsibility: Graduates will contribute both individually and as part of a team in managing projects, while demonstrating social responsibility and upholding professional ethics.
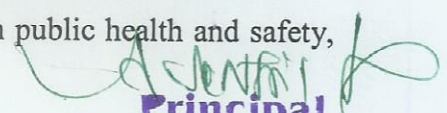
Programme Outcomes (POs):

PO1: Engineering Knowledge: Apply mathematical, scientific, and engineering fundamentals, along with specialized engineering knowledge, to address intricate engineering problems.

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Programme Specific Outcomes (PSOs):

Engineering graduates will have the ability to:

PSO1: Software Project Management: Apply standard software engineering practices and strategies, utilizing open-source programming environments, to effectively develop software projects and deliver high-quality products for successful business outcomes.

PSO2: Data Analytics: Analyze and interpret data using advanced data analytics models, enabling informed decision-making for complex problems and facilitating interdisciplinary research.

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