CHALAPATHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

Chalapathi Nagar, Lam, Guntur – 32

Andhra Pradesh

**INSTITUTION**

**Vision**

To emerge as an Institute of Excellence for Engineering and Technology and provide world-class education and research opportunities to the students catering the needs of society.

**Mission**

Establishing a state-of-the-art Engineering Institute with continuously improving infrastructure and produce students with innovative skills and global outlook.

**ELECTRONICS COMMUNICATION ENGINEERING DEPARTMENT**

**VISION & MISSION**

**Vision**

Emphasize best practices of technical knowledge, analytical and practical skills necessary to meet the demands of Electronics and Communication industry.

**Mission**

DM1: Provide Quality education with qualified and dedicated faculty.

DM2: Collaborations with industries/ organizations and provide trainings/Internships to meet the demands of industry.

DM3: Create a research environment of excellence.

|  |  |
| --- | --- |
| **C:\Users\CIET EEE\Desktop\logo.jpg** | **CHALAPATHI INSTITUTE OF ENGINEERING AND TECHNOLOGY**  **Chalapathi Nagar, Lam, Guntur-34** |

**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

**Subject: – LINEAR CONTROL SYSTEMS**

|  |  |  |
| --- | --- | --- |
| Faculty Name: K.MURALI KRISHNA RAJU | Year / Sem: B.Tech in ECE 3/1 | Academic Year: 2019-20 |

|  |  |
| --- | --- |
| **PROGRAM OUTCOMES (PO's)** | |
| A graduate of the Electrical and Electronics Engineering Program will demonstrate: | |
| **PO1:** | **Engineering knowledge**: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems. |
| **PO2:** | **Problem analysis**: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences |
| **PO3:** | **Design/development of solutions**: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations. |
| **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 the information to provide valid conclusions. |
| **PO5:** | **Modern tool usage**: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations. |
| **PO6:** | **The engineer and society**: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice. |
| **PO7:** | **Environment and sustainability**: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development. |
| **PO8:** | **Ethics**: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice. |
| **PO9:** | **Individual and team work**: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings. |
| **PO10:** | **Communication**: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions. |
| **PO11:** | **Life-long learning**: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change. |
| **PO12:** | **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 a team, to manage projects and in multidisciplinary environments. |

|  |
| --- |
| **B. Tech (ECE) - PROGRAM EDUCATIONAL OBJECTIVES (PEO's)** |
| A graduate of the Electrical and Electronics Engineering Program should: |
| ***Program* Educational *Objective - I*** Graduates shall excel in industry / technical profession through quality rigorous education. |
| ***Program* Educational *Objective - II*** Graduates shall have solid foundation to solve engineering issues, research and for higher studies. |
| ***Program* Educational *Objective - III*** Graduates shall have good scientific and engineering breadth to create solutions for real life problems through novel products. |
| ***Program* Educational *Objective - IV*** Graduates shall inculcate professional and ethical attitude, effective communication skills, teamwork skills, and leadership skills. |
| ***Program* Educational *Objective – IV***  Graduates shall have awareness of excellence with moral values, and the life-long learning for a successful professional career. |

|  |  |
| --- | --- |
| **B. Tech (EEE) - PROGRAM SPECIFIC OUTCOMES (PSO's)** | |
| A graduate of the electronics communication engineering department Program will demonstrate: | |
| **PSO1:** | Professional Skills: Should be able to excel in communication/networking, VLSI, signal processing, embedded systems and semiconductor technology etc., and their applications. |
| **PSO2:** | Problem-Solving Skills: An ability to solve complex Electronics and Communication Engineering problems, using latest hardware and software tools, along with analytical skills to achieve cost effective and appropriate solutions. |
| **PSO3:** | Successful Career and Entrepreneurship: Able to have social and environmental-wisdom along with ethical responsibility, to sustain zeal and passion for real-world applications as an entrepreneur. |