LORDS INSTITUTE OF ENGINEERING & TECHNOLOGY

(Autonomous Institution)

Approved by AICTE | Affiliated to Osmania University | Accredited 'A' grade by NAAC |

NBA Accredited UG Programmes: ME, ECE, CSE

ELECTRICAL AND ELECTRONICS ENGINEERING

A.Y:2024-25
ODD SEMESTER
COURSE OUTCOMES

Semester: VII Semester(Autonomous)

Course Outcomes:C71 : Entrepreneurship & Small Business Development
Student will able to

CO. No.	Description
C71.1	Discern the cues and motives behind entrepreneurship.
C71.2	Describe the knowledge about different types of enterprises and their growth patterns.
C71.3	Implement entrepreneurial mindset through entrepreneurship education.
C71.4	Analze the problems and perspectives associated with entrepreneurship.
C71.5	Describe and Identify different types of small businesses.

Course Outcomes:C72 :Digital Signal Processing & Embedded Systems
Student will able to

CO. No.	Description
C72.1	Analyze and transform the signal in time domain and frequency domain
C72.2	Design and implement digital FIR filters using windowing technique.
C72.3	Design and implement digital IIR filters using different techniques
C72.4	Explain the concepts of embedded systems.
C72.5	Demonstrate the architecture of ARM processor

Course Outcomes:C73: Basics of 3-D Printing
Student will able to

CO. No.	Description
C73.1	Utilize the fundamental concepts of 3D Printing, its advantages and limitations.
C73.2	Explain the working principle and process parameters of 3D printing processes
C73.3	Describe the methodology to manufacture the products using LOM and FDM technologies and study their applications , advantages and case studies
C73.4	Explain working principle, advantages, disadvantages and applications of liquid, solid and Powder based 3D Printing Technologies.
C73.5	Interpet diversified applications of 3D Printing Technologies and explore the applications of 3D Printing processes in various fields

Course Outcomes:C74: Internet of Things

Student will able to

CO. No.	Description
C74.1	Outline the fundamental of IOT and it's characteristics
C74.2	Interpret the different sensors used in IOT and its applications
C74.3	Comprehend the different platforms in IOT
C74.4	Implement the different interfacing techniques to IOT
C74.5	Analyze the domain specific IOTs and its Case studies.

Course Outcomes:C75 : Electrical and Hybrid Vehicles

Student will able to

CO. No.	Description
C75.1	Analyze vehicle dynamics, including resistances, torque-speed characteristics, and the environmental impact of hybrid and electric vehicles.
C75.2	Explain the classifications of HEV and EV drive train configurations, and identify barriers to EV adoption
C75.3	Apply knowledge of motor requirements to configure and control various EV and HEV motor drives, including DC, induction, permanent magnet, and switched reluctance motors
C75.4	Analyze energy storage systems and hybridization strategies for EVs and HEVs
C75.5	Apply and evaluate battery management systems, energy management strategies, and charging topologies for EVs and HEVs

Course Outcomes:C76 : Power Quality and FACTS

Student will able to

CO. No.	Description
C76.1	Identify the Power quality problems in distribution system
C76.2	Determine voltage sag for different network configurations.
C76.3	Describe the application of FACTS devices in Power Transmission system.
C76.4	Illustrate the operation of different FACTS Devices
C76.5	Describe the concepts of series-shunt and series-series compensators.

Course Outcomes:C77: Digital Signal Processing & Embedded Systems Lab

Student will able to

CO. No.	Description
C77.1	Generate basic discrete time signals.
C77.2	Compute linear and circular convolution
C77.3	Design the FIR and IIR filters
C77.4	Apply the IDE tools and programming
C77.5	Implement various on-chip peripherals like LCD, Temperature sensor, Buzzer using LC2148