



# AISSMS

COLLEGE OF ENGINEERING

ज्ञानम् सकलजनहिताय

(Accredited by NAAC with grade A+)



Department of Electronics and Telecommunication Engineering

## COURSE OUTCOME 2019 PATTERN

### ***VISION of Department***

Society Growth and Welfare through Competent Electronics and Telecommunication Engineering Graduates

### ***MISSION of Department***

- To facilitate E & TC graduates with sight of innovation.
- To provide a stimulating learning environment with modern tools & technologies.
- To produce dynamic graduates with ethics and moral values.
- To impart quality education in the field of E & TC engineering to solve societal and industrial problems

### **CLASS: BE SEMESTER-I**

#### **COURSE: RADIATION & MICROWAVE THEORY**

<b>Course Outcome</b>	<b>Statement</b>
CO404181.1	Apply the fundamentals of electromagnetic to learn performance parameters of antenna.
CO404181.2	Compare coaxial line, rectangular waveguides & strip lines
CO404181.3	Explain construction and working of principles passive microwave devices/ components.
CO404181.4	Explain construction and working of principles active microwave devices/ components.
CO404181.5	Analyze the structure, characteristics, operation and applications of various microwave solid state active devices.
CO404181.6	Describe various Microwave systems and measurement techniques.

#### **COURSE: VLSI DESIGN AND TECHNOLOGY**

<b>Course Outcome</b>	<b>Statement</b>
CO404182.01	Develop effective HDL codes for digital design
CO404182.02	Demonstrate real time issues in digital design
CO404182.03	Model digital circuit with HDL, simulate, synthesis and proto type in PLDs
CO404182.04	Design CMOS circuits for specified applications
CO404182.05	Analyze various issues and constraints in design of an ASIC
CO404182.06	Apply Built In Self-Test (BIST) circuit for testability in design

**COURSE: CLOUD COMPUTING**

<b>Course Outcome</b>	<b>Statement</b>
CO404183.01	Understand the basic concepts of cloud computing
CO404183.02	Classify the types of Virtualization
CO404183.03	Describe the underlying principles of different Cloud service models
CO404183.04	Examine the cloud Architecture and understand the importance of cloud security
CO404183.05	Develop applications on Cloud Platforms
CO404183.06	Evaluate distributed computing and Internet of Things

**COURSE: JAVA SCRIPT**

<b>Course Outcome</b>	<b>Statement</b>
CO404184.1	Understand basic features of java script.
CO404184.2	Use relevant data types for various application in java script.
CO404184.3	Apply the function and objects as self-contained, with data passing in and out through well-defined interfaces in development of small systems.
CO404184.4	Implement the Text matching and manipulation by regular expression
CO404184.5	Explore use of the various aspects of JavaScript object models that are fundamental to the proper use of the language.
CO404184..6	Develop the application using windows controlling and form handling

**COURSE: MODERNIZED IOT**

<b>Course Outcome</b>	<b>Statement</b>
CO404184.01	Define the concepts of sensors, actuators, IoT and IoE.
CO404184.02	Interpret IoT Architecture Design Aspects
CO404184.03	Expalin the operation of IoT protocols
CO404184.04	Describe various IoT boards, interfacing, and programming for IoT.
CO404184.05	llustrate the technologies, Catalysts, and precursors of IIoT using suitable use case
CO404184.06	Select suitable solution for domain specific applications of IoT.

**COURSE: DEEP LEARNING**

<b>Course Outcome</b>	<b>Statement</b>
CO404185.1	Classify machine learning algorithms and its types
CO404185.2	Implement neural network in Tensorflow or Keras framework
CO 404185.3	Summarize the advanced deep learning architectures
CO 404185.4	Recommend a suitable architecture for machine vision applications.
CO 404185.5	Compare various structures of RNN and advanced RNNs
CO 404185.6	Relate various deep network architectures to machine vision and NLP applications through case studies

**COURSE: ELECTRONIC PRODUCT DEVELOPMENT**

<b>Course Outcome</b>	<b>Statement</b>
CO404185.1	Describe design flow of electronics product design
CO404185.2	Identify various circuit design issues and testing.
CO404185.3	Inferring different software designing aspects and the Importance of product test & test specifications.
CO404185.4	Develop printed circuit boards with different parameters.
CO404185.5	Examine assorted product design aspects.
CO404185.6	Illustrate special design considerations and importance of documentation.

**COURSE: PROJECT STAGE-I**

<b>Course Outcome</b>	<b>Statement</b>
CO404188.1	To analyze and design hardware and software models for identified problem using modern tools.
CO404188.2	To develop and test the designed system
CO404188.3	To write technical report and demonstrate the project with effective communication skill.
CO404188.4	To enhance project management skill for lifelong learning

**CLASS: BE SEMESTER-II****COURSE: FIBER OPTICS COMMUNICATION**

<b>Course Outcome</b>	<b>Statement</b>
CO404190.1	Explain the working of components and measurement equipments in optical fiber networks.
CO404190.2	Estimate the important parameters associated with optical components used in fiber optic telecommunication systems.
CO404190.3	Compare the performance of major components in optical links.
CO404190.4	Evaluate the performance viability of optical links using the power and rise time budget analysis.
CO404190.5	Summarize different Optical Networks used in Fiber Optics Communication
CO404190.6	Describe the measurement equipments/Systems in optical fiber networks.

**COURSE: MOBILE COMPUTING**

<b>Course Outcome</b>	<b>Statement</b>
CO404191.1	Design key components of intelligent agents and expert systems
CO404191.2	Use knowledge representation techniques and strategies for AI applications
CO404191.3	Integrate various artificial intelligence techniques in intelligent system development
CO404191.4	Build rule-based and other knowledge-intensive problem solvers
CO404191.5	Apply various applications of AI techniques in machine learning models
CO404191.6	Describe the fundamentals of Natural language processing and its algorithm

**COURSE: DIGITAL MARKETING**

<b>Course Outcome</b>	<b>Statement</b>
CO404192.1	Design website or blog using free tools like wordpress
CO404192.2	Apply various keywords for a website to perform SEO
CO404192.3	Describe various SEM tools
CO404192.4	Relate use of Facebook, Instagram, and you tube for digital marketing
CO404192.5	Use linkedin platform for marketing
CO404192.6	Examine the importance of recent trends in digital marketing

**COURSE: PROJECT STAGE - II**

<b>Course Outcome</b>	<b>Statement</b>
CO404197.1	Identify the area/field of project as per the society and industry need to work with multidisciplinary teams
CO404197.2	Analyze and interpret the collected data to identify market trends and literature survey.
CO404197.3	Apply knowledge to define the scope of work and provide solution by formulating synopsis with budget and time constraints.
CO404197.4	To exhibit work effectively as a individual and in team with professional and ethical responsibility.