

(Approved by AICTE, Affiliated to Anna University, Chennai, India)

Kaikkurichi, Pudukkottai – 622 303

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

## **REGULATION 2021**

### COURSE OUTCOMES (CO)

#### I SEMESTER

#### HS3152- PROFESSIONAL ENGLISH I

#### Students will be able to

<b>CO1</b>	Use appropriate words in a professional context		
CO2	Explain the basic grammatic structures and use them in right context		
<b>CO3</b>	Describe the denotative and connotative meanings of technical texts		
CO4	Summarize about the definitions, descriptions, narrations and essays on various		
	topics		
CO5	Apply language effectively in professional contexts		
CO6	Discuss the importance of read and write complex texts, summaries, articles, blogs,		
	definitions, essays and user manuals		

#### MA3151- MATRICES AND CALCULUS

Students will be able to		
CO1	Use the matrix algebra methods for solving practical problems.	
CO2	Apply differential calculus tools in solving various application problems.	
CO3	Describe the partial differential equations with initial and Lagrange's method by using	
	certain techniques with engineering applications.	
CO4	Carry out the differentiation to solve maxima and minima problems.	
CO5	Explain different methods of integration in solving practical problems	
<b>CO6</b>	Determine multiple integral ideas in solving areas, volumes and other practical problems	

#### **PH3151-ENGINEERING PHYSICS**

Students will be able to		
CO1	Acknowledge the importance of mechanics	
CO2	Express their knowledge in electromagnetic waves.	
<b>CO3</b>	Demonstrate a strong foundational knowledge in oscillations.	
<b>CO4</b>	Establish the knowledge on optics and lasers	
CO5	Comprehend the importance of quantum physics	
CO6	Comprehend and apply quantum mechanical principles towards the formation of energy	
	bands.	



#### **CY3151-ENGINEERING CHEMISTRY**

#### Students will be able to

CO1	Describe the quality of water from quality parameter data and propose suitable
	treatment methodologies to treat water.
CO2	Apply basic concepts of nanoscience and nanotechnology in designing the synthesis of
	nanomaterials for engineering and technology applications.
CO3	Use the knowledge of phase rule and composites for material selection requirements.
CO4	Explain the suitable fuels for engineering processes and applications.
CO5	Discuss different forms of energy resources and apply them for suitable applications in
	energy sectors
CO6	Determine the importance of engineering materials, fuels, energy sources and water
	treatment techniques will facilitate better understanding of engineering processes and
	applications for further learning.

#### **GE3151- PROBLEM SOLVING AND PYTHON PROGRAMMING**

#### Students will be able to

<b>CO1</b>	Develop algorithmic solutions to simple computational problems
CO2	Develop and execute simple Python programs.
CO3	Write simple Python p <mark>rograms using condit</mark> ionals and loops for solving problems.
CO4	Describe a Python program into functions.
CO5	Describe compound data using Python lists, tuples, dictionaries etc.
CO6	Explain the importance of Read and write data from/to files in Python programs.

#### **GE3152- HERITAGE OF TAMIL**

Students will be able to		
CO1	Discuss the Tamil language and literature.	
CO2	Explain about the modern-art sculpture.	
CO3	Illustrate the folk and martial arts.	
CO4	Describe the Thinai concepts of Tamil.	
CO5	Summarize the contribution of Tamil in Indianculture.	
<b>CO6</b>	Define the role of siddha medicine.	

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# DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING REGULATION 2021

# COURSE OUTCOMES (CO)

#### GE3171-PROBLEM SOLVING AND PYTHON PROGRAMMING LABORATORY

#### Students will be able to

**CO1** Develop algorithmic solutions to simple computational problems

**CO2** Develop and execute simple Python programs.

**CO3** Implement programs in Python using conditionals and loops for solving problems.

**CO4** Describe functions to decompose a Python program.

**CO5** Explain compound data using Python data structures.

**CO6** Utilize Python packages in developing software applications.

#### BS3171-PHYSICS AND CHEMISTRY LABORATORY

#### Students will be able to

<b>CO1</b>	Explain the functioning of various physics laboratory equipment	
CO2	Use graphical models to analyze laboratory data	
CO3	Apply mathematical models as a medium for quantitative reasoning and	
	describing physicalreality	
CO4	Describe products and processes and explain their uses and purposes clearly and	
	accurately C Access, process and analyze scientific information.	
CO5	Solve problems individually and collaboratively	
CO6	Determine the amount of metal ions through volumetric and spectroscopic	
	techniques.	

#### GE3172- ENGLISH LABORATORY

Students will be able to		
CO1	Describe and Comprehend general as well as complex academic information.	
CO2	Explain different points of view in a discussion	
CO3	Explain formal and informal communicative contexts	
CO4	Describe products and processes and explain their uses and purposes clearly and accurately	
CO5	Express their opinions effectively in both formal and informal discussions	
<b>CO6</b>	Use language efficiently in expressing their opinions via various media	



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

# REGULATION 2021

COURSE OUTCOMES (CO)

**II SEMESTER** 

#### HS3252-PROFESSIONAL ENGLISH-II

Student	s will	be able	to
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CO1	Compare and contrast products and ideas in technical texts.
CO2	Identify and report cause and effects in events, industrial processes through technical texts
CO3	<b>A</b> nalyze problems in order to arrive at feasible solutions and communicate them in thewritten format.
<b>CO4</b>	Explain the importance of present their ideas and opinions in a planned and logical manner
CO5	Design effective resumes in the context of job search.
CO6	Demonstrate an understanding of job applications and interviews for internship and placements.

	MA3251- STATISTICS AND NUMERICAL METHODS		
Studen	Students will be able to		
CO1	Apply the concept of testing of hypothesis for small and large samples in real life problems.		
CO2	Apply the basic concepts of classifications of design of experiments in the field of agriculture.		
CO3	Describe the numerical techniques of interpolation in various intervals		
CO4	Apply the numerical techniques of differentiation and integration for engineering problems		
CO5	Explain the knowledge of various techniques and methods for solving first and second order ordinary differential equations.		
CO6	Describe the partial and ordinary differential equations with initial and boundary conditions by using certain techniques with engineering applications.		



#### **PH3254- PHYSICS FOR ELECTRONICS ENGINEERING**

Students will be able to		
CO1	Know basics of crystallography and its importance for varied materials properties	
CO2	Gain knowledge on the electrical and magnetic properties of materials and their applications	
CO3	Grasp knowledge on magnetic properties and applications	
<b>CO4</b>	Explain clearly of semiconductor physics and functioning of semiconductor devices	
CO5	Describe the optical properties of materials and working principles of various optical devices	
CO6	Appreciate the importance of nanotechnology and nano devices.	

	<b>BE3254- ELECTRICAL AND INSTRUMENTATION ENGINEERING</b>
Students will be able to	
CO1	Explain the operation of three phas <mark>e power</mark> supply systems and power system
CO2	Analyze the working of transformer and to build its mathematical model
<b>CO3</b>	Explain the principles of DC electrical machines
CO4	Explain the operation of AC electrical machines
CO5	Explain the characteristics of the measuring instruments and its errors.
<b>CO6</b>	Explain the working of different types of transducers, storage and display devices

	<b>GE3251- ENGINEERING GRAPHICS</b>
Students will be able to	
CO1	Use BIS conventional and specifications for engineering drawing
CO2	Construct the conic curves , involutes and cycloid
CO3	Solve practical problems involving projection of lines
<b>CO4</b>	Draw the orthographic, isometric and perspective projections of simple solids
CO5	Draw the development of simple solid
<b>CO6</b>	Draw engineering curves



#### **EC3251- CIRCUIT ANALYSIS**

Studen	Students will be able to	
CO1	Apply the basic concepts of circuit analysis such as Kirchoff's laws, mesh current and node voltage method for analysis of DC and AC circuits.	
CO2	Apply suitable network theorems and analyze AC and DC circuits	
CO3	Analyze steady state response of any R, L and C circuits	
CO4	Analyze the transient response for any RC, RL and RLC circuits and frequency response of parallel and series resonance circuits.	
CO5	Analyze frequency response of parallel and series resonance circuits	
<b>CO6</b>	Analyze the coupled circuits and network topologies	

	<b>GE3252- TAMIL AND TECHNOLOGIES</b>
Students will be able to	
CO1	Explain about the weaving and pottery technology inTamil Nadu
CO2	Describe about the design and construction technologyin Tamil Nadu
CO3	Discuss about the manufacturing te <mark>chnology</mark> in Tamil Nadu
<b>CO4</b>	Illustrate the agriculture and irrigation technology inTamil Nadu
CO5	Define the growth of science in Tamil.
CO6	Learn the contribution of the Tamils to Indian culture

	<b>GE3271- ENGINEERING PRACTICES LABORATORY</b>
Studen	ts will be able to
CO1	Draw pipe line plan; lay and connect various pipe fittings used in common household plumbingwork
CO2	Explain various joints in wood materials used in commonhousehold wood work
CO3	Design various wire electrical joints in common householdelectrical wire work
CO4	Weld various joints in steel plates using arc welding work; Machine various simple processes like turning, drilling, tapping in parts; Assemble simple mechanical assembly of common household equipment
CO5	Solder and test simple electronic circuits; Assemble and test simple electronic components on PCB
CO6	Design a tray out of metal sheet using sheet metal work

#### EC3271- CIRCUITS ANALYSIS LABORATORY

Studen	Students will be able to	
CO1	Identify the basic devices and its configurations	
<b>CO2</b>	Analyze the resistive circuits with different sources	
CO3	Design RL and RC circuits	
<b>CO4</b>	Verify Thevinin & Norton theorem KVL & KCL, and Super Position Theorems	
CO5	Explain the response of RLC circuit with different inputs	
CO6	Obtain the resonance for different configurations of RLC	

#### **GE3272-COMMUNICATION LABORATORY**

Studen	ts will be able to
CO1	Speak effectively in group discussions held informal/semi formal contexts
CO2	Discuss, analyse and present concepts and problems from various perspectives to arrive at suitable solutions
CO3	Write emails, letters and effective job applications
<b>CO4</b>	Write critical reports to convey data and information with clarity and precision
CO5	Give appropriate instructions and recommendations for safe execution of tasks
CO6	Respond intelligently and seek clarification and understand completely
	HOPE

#### **III SEMESTER**

#### MA3355- RANDOM PROCESSES AND LINEAR ALGEBRA

Students will be able to

CO1	Explain the basic concepts of one dimensional random variables
CO2	Explain the fundamental concepts of probability with thorough knowledge of standard distributions that can describe certain real-life phenomenon
CO3	Apply basic concepts of two dimensional random variables and apply them to modeling engineering problems
<b>CO4</b>	Apply the Concept of random process in engineering disciplines
CO5	Explain the fundamental concepts of advanced algebra and their role in modern mathematics and applied contexts.

**CO6** Demonstrate accurate and efficient use of advanced algebraic techniques

#### **CS3353- C PROGRAMMING AND DATA STRUCTURES** Students will be able to **CO1** Develop C programs for any real world/technical application CO<sub>2</sub> Apply advanced features of C in solving problems **CO3** Write functions to implement linear and non–linear data structure operations Suggest and use appropriate linear/non-linear data structure operations for solving given **CO4** problem **CO5** Appropriately use sort and search algorithms for a given application Apply appropriate hash functions that result in a collision free scenario for data storage and **CO6** retrieval.

#### EC3354- SIGNALS AND SYSTEMS

Studen	Students will be able to	
CO1	Determine if a given system is linear/causal/stable	
CO2	Determine the frequency components present in a continuous time signal .	
CO3	Characterize continuous LTI systems in the time domain and frequency domain	
<b>CO4</b>	Characterize discrete LTI systems in the time domain and frequency domain	
CO5	Analyze discrete time signals and system in the Fourier and Z transform domain	
<b>CO6</b>	Compute the output of an LT I system in the time and frequency domains	

# EC3353- ELECTRONIC DEVICES AND CIRCUITSStudents will be able toCO1Explain the Structure and working operation of basic electronic devicesCO2Design and analyze amplifiers.CO3Analyze frequency response of BJT and MOSFET amplifiersCO4Design and analyze feedback amplifiers and oscillator principles.CO5Design power amplifiers and supply circuitsCO6Analyze power amplifiers and supply circuits

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#### Kaikkurichi, Pudukkottai – 622 303 DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING REGULATION 2021 COURSE OUTCOMES (CO)

#### **EC3351- CONTROLSYSTEMS**

Studen	Students will be able to	
CO1	Compute the transfer function of different physical systems.	
CO2	Analyse the time domain specification and calculate the steady state error	
CO3	Illustrate the frequency response characteristics of open loop and closed loop system response	
<b>CO4</b>	Analyse the stability using Routh and root locus techniques	
CO5	Illustrate the state space model of a physical system	
<b>CO6</b>	Discuss the concepts of sampled data control system	

#### EC3352- DIGITAL SYSTEMS DESIGN

Studen	Students will be able to	
CO1	Explain the Boolean algebra and simplification procedures relevant to digital logic	
CO2	Design various combinational digital circuits using logic gates	
CO3	Analyze and design synchronous sequential circuits	
<b>CO4</b>	Analyze asynchronous sequential circuits	
CO5	Design asynchronous sequential circuits	
<b>CO6</b>	Build logic gates and use programmable devices	

#### EC3361- ELECTRONIC DEVICES AND CIRCUITS LABORATORY

Students will be able to	
CO1	Characteristics of PN Junction Diode and Zener diode
CO2	Design an Testing of BJT and MOSFET amplifiers.
<b>CO3</b>	Verify the operation of power amplifiers.
<b>CO4</b>	Design of Zener diode Regulator
CO5	Determine Frequency response of CE and CS amplifiers
CO6	Design and Testing of BJT and MOSFET amplifiers.

#### CS3362- C PROGRAMMING AND DATA STRUCTURES LABORATORY

Students will be able to

**CO1** Use different constructs of C and develop applications

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<b>CO2</b>	Write functions to implement linear and non-linear data structure operations
CO3	Suggest and use the appropriate linear / non-linear data structure operations for a given problem
<b>CO4</b>	Apply appropriate hash functions that result in a collision free scenario for data storage and Retrieval
CO5	Implement Sorting and searching algorithms for a given application
CO6	Implement searching algorithms for a given application

	GE3361- PROFESSIONAL DEVELOPMENT	
Studen	Students will be able to	
CO1	Use MS Word to create quality documents, by structuring and organizing content for their day to day technical requirements	
CO2	Use MS Word to create quality documents, by structuring and organizing content for their day to day academic requirements	
CO3	Use MS EXCEL to perform and visualize data for ease of understanding	
CO4	Use MS EXCEL to perform data operations and analytics, record, retrieve data as per requirements	
CO5	Use MS PowerPoint to create high quality academic presentations by including commontables, charts, graphs.	
CO6	Use MS PowerPoint to create high quality academic presentations by interlinking other elements, and using media objects	
	C4/KGAUROCHI A	

IV SEMESTER		
	EC3452- ELECTROMAGNETIC FIELDS	
Students will be able to		
CO1	Relate the fundamentals of vector, coordinate system to electromagnetic concepts	
<b>CO2</b>	Analyze the characteristics of Electrostatic field	
CO3	Interpret the concepts of Electric field in material space and solve the boundary conditions	
<b>CO4</b>	Explain the concepts and characteristics of Magneto Static field in material space and solve boundary conditions	
CO5	Determine the significance of time varying fields	
CO6	Determine the characteristics impedance ,wavelength, intrinsic impedence, group velocity and phase velocity of plane waves.	



	EC3401- NETWORKS AND SECURITY
Students will be able to	
CO1	Explain the Network Models, layers and functions
CO2	Categorize and classify the routing protocols
CO3	List the functions of the transport and application layer
<b>CO4</b>	Evaluate and choose the network security mechanisms
CO5	Discuss the hardware security attacks and countermeasures
CO6	Discuss the Protocols and email Security

LUSTJI- LINLAN IN ILUNAILD CINCUIT	EC3451-	LINEAR	<b>INTEGRATED</b>	CIRCUITS
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Students will be able to	
CO1	Describe the characteristics of operational amplifiers
CO2	Design linear and nonlinear applications of OP – AMPS
CO3	Design applications using analog multiplier and PLL
<b>CO4</b>	Design ADC and DAC using OP – AMPS
CO5	Generate waveforms using OP – AMP Circuits.
<b>CO6</b>	Explain the applications of special function ICs
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	EC3492- DIGITAL SIGNAL PROCESSING	
Students will be able to		
CO1	Apply DFT for the analysis of digital signals and systems	
CO2	Design IIR filters	
CO3	Design FIR filters	
CO4	Characterize the effects of finite precision representation on digital filters	
CO5	Explain the architecture of DSP Processors	
CO6	Design multirate filters and apply adaptive filters appropriately in communication systems	



	EC3491- COMMUNICATION SYSTEMS
Students will be able to	
CO1	Gain knowledge in amplitude modulation techniques.
CO2	Explain the concepts of Random Process to the design of communication systems
CO3	Gain knowledge in digital techniques
<b>CO4</b>	Gain knowledge in sampling and quantization
CO5	Explain the importance of demodulation techniques
<b>CO6</b>	Implement the control coding schemes in communication systems

#### **GE3451-ENVIRONMENTAL SCIENCES AND SUSTAINABILITY**

Studen	ts will be able to
CO1	Explain the functions of environment, ecosystems and biodiversity and their
	conservation
CO2	Identify the causes, effects of environmentalpollution and natural
	disasters and contribute to the preventive measures in the society
CO3	Identify and apply the <mark>understanding of ren</mark> ewable an <mark>d</mark> non-renewable resources and
COS	contribute to the sustainable measures to preserve them for future generations
COA	Explain the different goals of sustainabledevelopment and apply them for suitable
CO4	technological advancement and societal development 🦯 /
CO5	<b>D</b> emonstrate the knowledge of sustainability pates and identify green materials
	and energy cycles.
CO6	Demonstrate the knowledge of sustainability practices and identify green materials
	operative los and the role of sustainable urbanization
	chergycycles and the role of sustainable urbanization

	EC3461- COMMUNICATION SYSTEMS LABORATORY
Students will be able to	
CO1	Design AM, FM & Digital Modulators for specific applications.
CO2	Compute the sampling frequency for digital modulation
<b>CO3</b>	Simulate & validate the various functional modules of Communication system.
CO4	Demonstrate their knowledge in base band signaling schemes through implementation of digital modulation schemes
CO5	Apply various channel coding schemes in Communication system.
CO6	Demonstrate their capabilities towards theimprovement of the noise performance of Communication system

	EC3462- LINEAR INTEGRATED CIRCUITS LABORATORY	
Students will be able to		
CO1	Analyze various types of feedback amplifiers	
CO2	Design oscillators, tuned amplifiers, wave-shaping circuits and multivibrators	
CO3	Design and simulate feedback amplifiers, oscillators, tuned amplifiers, wave- shaping circuits and multivibrators, filters using SPICE Tool	
CO4	Design amplifiers, oscillators, D-A converters using operational amplifiers	
CO5	Design filters using operational amplifiers	
CO6	To perform an experiment on frequency response of amplifiers	

	V SEMESTER
	EC3501- WIRELESS COMMUNICATION
Students will be able to	
CO1	Explain the Concept And Design Of a Cellular System
CO2	Describe the Mobile Radio Propagation.
CO3	Discuss the various Digital Modulation Techniques
CO4	Explain the Concepts Of Multiple Access Techniques And Wireless Networks
CO5	Characterize a wireless channel and evolve the system design specifications
<b>CO6</b>	Design a cellular system based on resource availability and traffic demands

# EC3552-VLSI AND CHIP DESIGN

Students will be able to	
<b>CO1</b>	Discuss in depth knowledge of MOS technology
CO2	Design the Combinational Logic Circuits and design principles
CO3	Design Sequential Logic Circuits and Clocking strategies
<b>CO4</b>	Explain Memory architecture and building blocks
<b>CO5</b>	To implement the function of FPGA
<b>CO6</b>	Discuss the ASIC Design Process and Testing.



#### **EC3551-TRANSMISSION LINES AND RF SYSTEMS**

#### Students will be able to

CO1	Explain the characteristics of transmission lines and its losses
CO2	Calculate the standing wave ratio and input impedance in high frequency transmission lines
CO3	Analyze high frequency line, power and impedance measurements
<b>CO4</b>	Analyze impedance matching by stubs using Smith Charts
CO5	Analyze the characteristics of TE and TM waves
<b>CO6</b>	Design a RF transceiver system for wireless communication

CEC352 SATELLITE COMMUNICATION	
Students will be able to	
CO1	Analyze the different types of satellites
CO2	Describe the orbital determination and launching methods.
CO3	Analyze the satellite subsystems.
<b>CO4</b>	Evaluate the Satellite link Power budget calculations
CO5	Identify access technology foe satellite
CO6	Design various satellite applications

#### **CEC345-OPTICAL COMMUNICATION & NETWORKS**

Students will be able to	
CO1	Discuss Basic Elements In Optical Fibers, Different Modes And Configurations.
CO2	Analyze The Transmission Characteristics Associated With Dispersion And Polarization
	Techniques
CO3	Design Optical Sources and Detectors With Their Use In Optical Communication System
<b>CO4</b>	Construct Fiber Optic Receiver Systems, Measurements and Techniques .
CO5	Examine the losses and propagation characteristics of an optical signal.
CO6	Design Optical Communication Systems And Its Networks



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CEC364 -WIRELESS	BROAD	BAND	NETWORKS

Students will be able to	
CO1	Design and implement the various protocols in wireless networks.
CO2	Analyze the architecture of 3G network standards
CO3	Describe the difference of LTE-A network design from 4G standard.
<b>CO4</b>	Design the interconnecting network functionalities by layer level functions.
CO5	Explore the current generation (5G) network architecture.
<b>CO6</b>	Learn the emerging techniques in 5G network.

	MX3081- INTRODUCTION TO WOMEN AND GENDER STUDIES	
Students will be able to		
CO1	Explain the concept of Women's Studies.	
CO2	Demonstrate to imbibe feminist thoughts, Ideals, Movements and Theories.	
CO3	Discuss the women's studies and institutionalization	
CO4	Analyze the life style and challenges of women	
CO5	To create awareness on modernization and impact of technology on women.	
CO6	Discuss Sensitize Women towards the current social issues confronting them	

#### EC3561- VLSI LABORATORY

Students will be able to	
CO1	Assemble HDL code for basic as well as advanced digital integrated circuit
CO2	Execute the logic modules into FPGA Boards
CO3	Synthesize Place and Route the digital ICs
<b>CO4</b>	Design, Simulate and Extract the layouts of Digital & Analog IC Blocks using EDA tools.
CO5	Design ,Simulate basic Common Source, Common Gate and Common Drain Amplifiers
<b>CO6</b>	Test and Verification of IC design

	ET 3491 - EMBEDDED SYSTEM AND IOT	
Students will be able to		
CO1	Explain the architecture and features of 8051	
CO2	Develop a model of an embedded system	
CO3	List the concepts of real time operating systems.	
<b>CO4</b>	Learn the architecture and protocols of IoT.	
<b>CO5</b>	Design an IoT based system for any application.	
<b>CO6</b>	Learn the real – time processing in an Embedded system.	

	CS3491 - ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING
Students will be able to	
CO1	Apply appropriate search algorithms for problem solving
CO2	Illustrate reasoning und <mark>er unc</mark> ertainty
CO3	Design supervised learning models
<b>CO4</b>	Develop unsupervised learning models
CO5	Describe deep learning neural network models
CO6	Design ensembling models

	OEE351 - RENEWABLE ENERGY SYSTEM
Students will be able to	
C01	Attain knowledge about various renewable energy technologies.
CO2	Design of Photovoltaic system.
CO3	Explore the concept of various wind energy system
CO4	Gain knowledge about various possible hybrid energy systems.
<b>CO5</b>	Attain knowledge about various application of renewable energy technologies
<b>CO6</b>	Learn about the solar energy system

	CEC365 - WIRELESS SENSOR NETWORK DESIGN
Students will be able to	
CO1	Design solutions for WSNs applications
CO2	Develop efficient MAC and Routing Protocols
CO3	Design solutions for 6LOWPAN applications
<b>CO4</b>	Develop efficient layered protocols in 6LOWPAN
CO5	Use Tiny OS in WSNs and 6LOWPAN applications
CO6	Use Contiki OS in WSNs and 6LOWPAN applications

CBM341 - BODY AREA NETWORKS		
Students will be able to		
CO1	Design the Architecture of BAN health care Monitoring system.	
CO2	Design a BAN for appr <mark>opriate application in</mark> medicine	
CO3	Describe the efficiency communication and the security parameters	
CO4	Apply the need for medical device regulation	
CO5	Discuss the concepts of BAN for medical applications	
<b>CO6</b>	Learn about the hardware for BAN	

#### MX3085 - WELL-BEING WITH TRADITIONAL PRACTICES-YOGA, AYURVEDA AND SIDDHA

Students will be able to	
CO1	To enjoy life happily with fun filled new style activities that help to maintain health also
CO2	To adapt a few lifestyle changes that will prevent many health disorders
<b>CO3</b>	To be cool and handbill every emotion very smoothly in every walk of life
<b>CO4</b>	To learn to eat cost effective but healthy foods that are rich in essential nutrients
CO5	To explore the essence and significance of yoga
CO6	To develop immunity naturally that will improve resistance against many health disorders