



NADAR SARASWATHI COLLEGE OF ENGINEERING & TECHNOLOGY



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Vadapudupatti, Annanji (po), Theni - 625 531,
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DEPARTMENT OF EEE COS

S.NO	YEAR/SEM	COURSE NAME	COURSE CODE	COURSE OUTCOME
1		HS8151 COMMUNICATIVE ENGLISH	C101.1	Read articles of a general kind in magazines and newspapers.
			C101.2	Participate effectively in informal conversations; introduce themselves and their friends and express opinions in English.
			C101.3	Comprehend conversations and short talks delivered in English
			C101.4	Write short essays of a general kind and personal letters and emails in English.
2	I/I	MA8151 ENGINEERING MATHEMATICS - I	C102.1	Use both the limit definition and rules of differentiation to differentiate functions.
			C102.2	Apply differentiation to solve maxima and minima problems.
			C102.3	Evaluate integrals both by using Riemann sums and by using the Fundamental Theorem of Calculus.
			C102.4	Apply integration to compute multiple integrals, area, volume, integrals in polar coordinates, in addition to change of order and change of variables.
			C102.5	Evaluate integrals using techniques of integration, such as substitution, partial fractions and integration by parts.
			C102.6	Evaluate integrals using techniques of integration, such as substitution,



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				partial fractions and integration by parts.
			C102.7	Apply various techniques in solving differential equations.
3	I/I	PH8151 ENGINEERING PHYSICS	C103.1	The students will gain knowledge on the basics of properties of matter and its applications
			C103.2	The students will acquire knowledge on the concepts of waves and optical devices and their applications in fibre optics
			C103.3	The students will have adequate knowledge on the concepts of thermal properties of materials and their applications in expansion joints and heat exchangers
			C103.4	The students will get knowledge on advanced physics concepts of quantum theory and its applications in tunneling microscopes
			C103.5	The students will understand the basics of crystals, their structures and different crystal growth techniques.
4		CY8151 ENGINEERING CHEMISTRY	C104.1	The knowledge gained on engineering materials, fuels, energy sources and water treatment techniques will facilitate better understanding of engineering processes and applications for further learning.
		GE8151 PROBLEM SOLVING AND	C105.1	Develop algorithmic solutions to simple computational problems
			C105.2	Read, write, execute by hand simple Python programs.



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5		PYTHON PROGRAMMING	C105.3	Structure simple Python programs for solving problems.
			C105.4	Decompose a Python program into functions.
			C105.5	Represent compound data using Python lists, tuples, dictionaries.
			C105.6	Read and write data from/to files in Python Programs.
6	I/I	GE8152 ENGINEERING GRAPHICS	C106.1	Familiarize with the fundamentals and standards of Engineering graphics
			C106.2	Perform freehand sketching of basic geometrical constructions and multiple views of objects.
			C106.3	Project orthographic projections of lines and plane surfaces.
			C106.4	Draw projections and solids and development of surfaces.
			C106.5	Visualize and to project isometric and perspective sections of simple solids.
7		GE8161 PROBLEM SOLVING AND PYTHON PROGRAMMING LABORATORY	C107.1	Write, test, and debug simple Python programs.
			C107.2	Implement Python programs with conditionals and loops.
			C107.3	Develop Python programs step-wise by defining functions and calling them.
			C107.4	Use Python lists, tuples, dictionaries for representing compound data.
			C107.5	Read and write data from/to files in Python.
			C108.1	Apply principles of elasticity, optics and



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8	I/I	BS8161 PHYSICS AND CHEMISTRY LABORATORY		thermal properties for engineering applications.
			C108.2	The students will be outfitted with hands-on knowledge in the quantitative chemical analysis of water quality related parameters.
9	I/II	HS8251 TECHNICAL ENGLISH	C201.1	Read technical texts and write area- specific texts effortlessly.
			C201.2	Listen and comprehend lectures and talks in their area of specialisation successfully.
			C201.3	Speak appropriately and effectively in varied formal and informal contexts.
			C201.4	Write reports and winning job applications.
10	I/II	MA8251 ENGINEERING MATHEMATICS - II	C202.1	Eigenvalues and eigenvectors, diagonalization of a matrix, Symmetric matrices, Positive definite matrices and similar matrices.
			C202.2	Gradient, divergence and curl of a vector point function and related identities.
			C202.3	Evaluation of line, surface and volume integrals using Gauss, Stokes and Green's theorems and their verification.
			C202.4	Analytic functions, conformal mapping and complex integration.
			C202.5	Analytic functions, conformal mapping and complex integration.
			C203.1	Gain knowledge on classical and quantum electron theories, and energy band structures,



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11	I/II	PH8253 PHYSICS FOR ELECTRONICS ENGINEERING	C203.2	Acquire knowledge on basics of semiconductor physics and its applications in various devices,
			C203.3	Get knowledge on magnetic and dielectric properties of materials,
			C203.4	Have the necessary understanding on the functioning of optical materials for optoelectronics,
			C203.5	Understand the basics of quantum structures and their applications in spintronics and carbon electronics..
12		BE8252 BASIC CIVIL AND MECHANICAL ENGINEERING	C204.1	appreciate the Civil and Mechanical Engineering components of Projects.
			C204.2	explain the usage of construction material and proper selection of construction materials.
			C204.3	measure distances and area by surveying
			C204.4	identify the components used in power plant cycle.
			C204.5	demonstrate working principles of petrol and diesel engine.
			C204.6	elaborate the components of refrigeration and Air conditioning cycle.
13		EC8251 CIRCUIT THEORY	C205.1	Ability to analyse electrical circuits
			C205.2	Ability to apply circuit theorems
			C205.3	Ability to analyse transients
14		GE8291 ENVIRONMENTAL	C206.1	Environmental Pollution or problems cannot be solved by mere laws. Public participation is an important aspect which serves the environmental



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	I/II	SCIENCE AND ENGINEERING		Protection. One will obtain knowledge on the following after completing the course.
			C206.2	Public awareness of environmental is at infant stage.
			C206.3	Ignorance and incomplete knowledge has lead to misconceptions
			C206.4	Development and improvement in std. of living has lead to serious environmental disasters
15	I/II	GE8261 ENGINEERING PRACTICES LABORATORY	C207.1	fabricate carpentry components and pipe connections including plumbing works.
			C207.2	use welding equipments to join the structures.
			C207.3	Carry out the basic machining operations
			C207.4	Make the models using sheet metal works
			C207.5	Illustrate on centrifugal pump, Air conditioner, operations of smithy, foundary and fittings
			C207.6	Carry out basic home electrical works and appliances
			C207.7	Measure the electrical quantities
			C207.8	Elaborate on the components, gates, soldering practices.
16	I/II	EE8261 ELECTRIC CIRCUITS LABORATORY	C208.1	Understand and apply circuit theorems and concepts in engineering applications.
			C208.2	Simulate electric circuits.
			C301.1	Understand how to solve the given standard partial differential equations.
			C301.2	Solve differential equations using Fourier series analysis which



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17	II/III	MA8353 TRANSFORMS AND PARTIAL DIFFERENTIAL EQUATIONS		plays a vital role in engineering applications.
			C301.3	Appreciate the physical significance of Fourier series techniques in solving one and two dimensional heat flow problems and one dimensional wave equations.
			C301.4	Understand the mathematical principles on transforms and partial differential equations would provide them the ability to formulate and solve some of the physical problems of engineering.
18		EE8351 DIGITAL LOGIC CIRCUITS	C301.5	Use the effective mathematical tools for the solutions of partial differential equations by using Z transform techniques for discrete time systems.
			C302.1	Ability to design combinational and sequential Circuits.
			C302.2	Ability to simulate using software package.
			C302.3	Ability to study various number systems and simplify the logical expressions using Boolean functions
			C302.4	Ability to design various synchronous and asynchronous circuits.
			C302.5	Ability to introduce asynchronous sequential circuits and PLDs
C302.6	Ability to introduce digital simulation for development of application oriented logic circuits			



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19	II/III	EE8391 ELECTROMAGNETIC THEORY	C303.1	Ability to understand the basic mathematical concepts related to electromagnetic vector fields.
			C303.2	Ability to understand the basic concepts about electrostatic fields, electrical potential, energy density and their applications.
			C303.3	Ability to acquire the knowledge in magneto static fields, magnetic flux density, vector potential and its applications.
			C303.4	Ability to understand the different methods of emf generation and Maxwell's equations
			C303.5	Ability to understand the basic concepts electromagnetic waves and characterizing parameters
			C303.6	Ability to understand and compute Electromagnetic fields and apply them for design and analysis of electrical equipment and systems
20		EE8301 ELECTRICAL MACHINES - I	C304.1	Ability to analyze the magnetic-circuits.
			C304.2	Ability to acquire the knowledge in constructional details of transformers.
			C304.3	Ability to understand the concepts of electromechanical energy conversion.
			C304.4	Ability to acquire the knowledge in working principles of DC Generator.



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	II/III		C304.5	Ability to acquire the knowledge in working principles of DC Motor
			C304.6	Ability to acquire the knowledge in various losses taking place in D.C. Machines
21		EC8353 ELECTRON DEVICES AND CIRCUITS	C305.1	Explain the structure and working operation of basic electronic devices.
			C305.2	Able to identify and differentiate both active and passive elements
			C305.3	Analyze the characteristics of different electronic devices such as diodes and transistors
			C305.4	Choose and adapt the required components to construct an amplifier circuit.
			C305.5	Employ the acquired knowledge in design and analysis of oscillators
22	II/III	ME8792 POWER PLANT ENGINEERING	C306.1	Explain the layout, construction and working of the components inside a thermal power plant.
			C306.2	Explain the layout, construction and working of the components inside a Diesel, Gas and Combined cycle power plants.
			C306.3	Explain the layout, construction and working of the components inside nuclear power plants.
			C306.4	Explain the layout, construction and working of the components inside Renewable energy power plants.
			C306.5	Explain the applications of power plants while extend their knowledge to power plant economics



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				and environmental hazards and estimate the costs of electrical energy production.
23		EC8311 ELECTRONICS LABORATORY	C307.1	Ability to understand and analyse electronic circuits.
24		EE8311 ELECTRICAL MACHINES LABORATORY - I	C308.1	Ability to understand and analyze DC Generator
			C308.2	Ability to understand and analyze DC Motor
			C308.3	Ability to understand and analyse Transformers.
25	II/IV	MA8491 NUMERICAL METHODS	C401.1	Understand the basic concepts and techniques of solving algebraic and transcendental equations.
			C401.2	Appreciate the numerical techniques of interpolation and error approximations in various intervals in real life situations.
			C401.3	Apply the numerical techniques of differentiation and integration for engineering problems.
			C401.4	Understand the knowledge of various techniques and methods for solving first and second order ordinary differential equations.
			C401.5	Solve the partial and ordinary differential equations with initial and boundary conditions by using certain techniques with engineering applications.
		EE8401	C402.1	Ability to understand the construction and working principle of Synchronous Generator
			C402.2	Ability to understand MMF curves and armature windings.



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26	II/IV	ELECTRICAL MACHINES - II	C402.3	Ability to acquire knowledge on Synchronous motor.
			C402.4	Ability to understand the construction and working principle of Three phase Induction Motor
			C402.5	Ability to understand the construction and working principle of Special Machines
			C402.6	Ability to predetermine the performance characteristics of Synchronous Machines.
27	II/IV	EE8402 TRANSMISSION AND DISTRIBUTION	C403.1	To understand the importance and the functioning of transmission line parameters.
			C403.2	To understand the concepts of Lines and Insulators.
			C403.3	To acquire knowledge on the performance of Transmission lines.
			C403.4	To understand the importance of distribution of the electric power in power system.
			C403.5	To acquire knowledge on Underground Cables
			C403.6	To become familiar with the function of different components used in Transmission and Distribution levels of power system and modelling of these components.
	II/IV		C404.1	To acquire knowledge on Basic functional elements of instrumentation
			C404.2	To understand the concepts of Fundamentals of electrical and electronic instruments



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28		EE8403 MEASUREMENTS AND INSTRUMENTATION	C404.3	Ability to compare between various measurement techniques
			C404.4	To acquire knowledge on Various storage and display devices
			C404.5	To understand the concepts Various transducers and the data acquisition systems
			C404.6	Ability to model and analyze electrical and electronic Instruments and understand the operational features of display Devices and Data Acquisition System.
29		EE8451 LINEAR INTEGRATED CIRCUITS AND APPLICATIONS	C405.1	Ability to acquire knowledge in IC fabrication procedure
			C405.2	Ability to analyze the characteristics of Op-Amp
			C405.3	To understand the importance of Signal analysis using Op-amp based circuits.
			C405.4	Functional blocks and the applications of special ICs like Timers, PLL circuits, regulator Circuits.
			C405.5	To understand and acquire knowledge on the Applications of Op-amp
			C405.6	Ability to understand and analyse, linear integrated circuits their Fabrication and Application.
30	II/IV	IC8451 CONTROL SYSTEMS	C406.1	Ability to develop various representations of system based on the knowledge of Mathematics, Science and Engineering fundamentals.
			C406.2	Ability to do time domain and frequency



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				domain analysis of various models of linear system.
			C406.3	Ability to interpret characteristics of the system to develop mathematical model.
			C406.4	Ability to design appropriate compensator for the given specifications.
			C406.5	Ability to come out with solution for complex control problem.
			C406.6	Ability to understand use of PID controller in closed loop system.
31		EE8411 ELECTRICAL MACHINES LABORATORY - II	C407.1	Ability to understand and analyze EMF and MMF methods
			C407.2	Ability to analyze the characteristics of V and Inverted V curves
			C407.3	Ability to understand the importance of Synchronous machines
			C407.4	Ability to understand the importance of Induction Machines
			C407.5	Ability to acquire knowledge on separation of losses
32		EE8461 LINEAR AND DIGITAL INTEGRATED CIRCUITS LABORATORY	C408.1	Ability to understand and implement Boolean Functions.
			C408.2	Ability to understand the importance of code conversion
			C408.3	Ability to Design and implement 4-bit shift registers
			C408.4	Ability to acquire knowledge on Application of Op-Amp
			C408.5	Ability to Design and implement counters using specific counter IC.



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33		EE8412 TECHNICAL SEMINAR	C409.1	Ability to review, prepare and present technological developments
			C409.2	Ability to face the placement interviews
34	III/V	EE8501 POWER SYSTEM ANALYSIS	C501.1	Ability to model the power system under steady state operating condition
			C501.2	Ability to understand and apply iterative techniques for power flow analysis
			C501.3	Ability to model and carry out short circuit studies on power system
			C501.4	Ability to model and analyze stability problems in power system
			C501.5	Ability to acquire knowledge on Fault analysis.
			C501.6	Ability to model and understand various power system components and carry out power flow, short circuit and stability studies.
35		EE8551 MICROPROCESSORS AND MICROCONTROLLERS	C502.1	Ability to acquire knowledge in Addressing modes & instruction set of 8085 & 8051.
			C502.2	Ability to need & use of Interrupt structure 8085 & 8051.
			C502.3	Ability to understand the importance of Interfacing
			C502.4	Ability to explain the architecture of Microprocessor and Microcontroller.
			C502.5	Ability to write the assembly language programme.
			C502.6	Ability to develop the Microprocessor and Microcontroller based applications.



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36	III/V	EE8552 POWER ELECTRONICS	C503.1	Ability to analyse AC-AC and DC-DC and DC-AC converters.
			C503.2	Ability to choose the converters for real time applications.
37	III/V	EE8591 DIGITAL SIGNAL PROCESSING	C504.1	Ability to understand the importance of Fourier transform, digital filters and DS Processors.
			C504.2	Ability to acquire knowledge on Signals and systems & their mathematical representation.
			C504.3	Ability to understand and analyze the discrete time systems.
			C504.4	Ability to analyze the transformation techniques & their computation.
			C504.5	Ability to understand the types of filters and their design for digital implementation.
			C504.6	Ability to acquire knowledge on programmability digital signal processor & quantization effects.
38	III/V	CS8392 OBJECT ORIENTED PROGRAMMING	C505.1	Develop Java programs using OOP principles
			C505.2	Develop Java programs with the concepts inheritance and interfaces
			C505.3	Build Java applications using exceptions and I/O streams
			C505.4	Develop Java applications with threads and generics classes
			C505.5	Develop interactive Java programs using swings
	III/V		C506.1	To Learn the different bio potential and its propagation.



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39		OMD551 BASICS OF BIOMEDICAL INSTRUMENTATION	C506.2	To get Familiarize the different electrode placement for various physiological recording
			C506.3	Students will be able design bio amplifier for various physiological recording
			C506.4	Students will understand various technique non electrical physiological measurements
			C506.5	Understand the different biochemical measurements
40		EE8511 CONTROL AND INSTRUMENTATION LABORATORY	C507.1	Ability to understand control theory and apply them to electrical engineering problems.
			C507.2	Ability to analyze the various types of converters.
			C507.3	Ability to design compensators
			C507.4	Ability to understand the basic concepts of bridge networks.
			C507.5	Ability to the basics of signal conditioning circuits.
			C507.6	Ability to study the simulation packages.
41		HS8581 PROFESSIONAL COMMUNICATION	C508.1	Make effective presentations
			C508.2	Participate confidently in Group Discussions.
			C508.3	Attend job interviews and be successful in them.
			C508.4	Develop adequate Soft Skills required for the workplace
42	III/V	CS8383 OBJECT ORIENTED PROGRAMMING LABORATORY	C509.1	Develop and implement Java programs for simple applications that make use of classes, packages and interfaces.
			C509.2	Develop and implement Java programs with



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				arraylist, exception handling and multithreading .
			C509.3	Design applications using file processing, generic programming and event handling.
43	III/VI	EE8601 SOLID STATE DRIVES	C601.1	Ability to understand and suggest a converter for solid state drive.
			C601.2	Ability to select suitability drive for the given application
			C601.3	Ability to study about the steady state operation and transient dynamics of a motor load system.
			C601.4	Ability to analyze the operation of the converter/chopper fed dc drive.
			C601.5	Ability to analyze the operation and performance of AC motor drives.
			C601.6	Ability to analyze and design the current and speed controllers for a closed loop solid state DC motor drive.
44		EE8602 PROTECTION AND SWITCHGEAR	C602.1	Ability to understand and analyze Electromagnetic and Static Relays.
			C602.2	Ability to suggest suitability circuit breaker.
			C602.3	Ability to find the causes of abnormal operating conditions of the apparatus and system.
			C602.4	Ability to analyze the characteristics and functions of relays and protection schemes.
			C602.5	Ability to study about the apparatus protection, static and numerical relays.



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			C602.6	Ability to acquire knowledge on functioning of circuit breaker.
45	III/VI	EE8691 EMBEDDED SYSTEMS	C603.1	Ability to understand and analyze Embedded systems.
			C603.2	Ability to suggest an embedded system for a given application.
			C603.3	Ability to operate various Embedded Development Strategies
			C603.4	Ability to study about the bus Communication in processors.
			C603.5	Ability to acquire knowledge on various processor scheduling algorithms.
			C603.6	Ability to understand basics of Real time operating system.
			46	III/VI
C604.2	Ability to design of field system for its application.			
C604.3	Ability to design sing and three phase transformer.			
C604.4	Ability to design armature and field of DC machines.			
C604.5	Ability to design stator and rotor of induction motor.			
C604.6	Ability to design and analyze synchronous machines.			
		EE8661	C605.1	Ability to practice and understand converter and inverter circuits and apply software for engineering problems.
			C605.2	Ability to experiment about switching



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47		POWER ELECTRONICS AND DRIVES LABORATORY		characteristics various switches.
			C605.3	Ability to analyze about AC to DC converter circuits.
			C605.4	Ability to analyze about DC to AC circuits.
			C605.5	Ability to acquire knowledge on AC to AC converters
			C605.6	Ability to acquire knowledge on simulation software
48		EE8681 MICROPROCESSORS AND MICROCONTROLLERS LABORATORY	C606.1	Ability to understand and apply computing platform and software for engineering problems.
			C606.2	Ability to programming logics for code conversion.
			C606.3	Ability to acquire knowledge on A/D and D/A.
			C606.4	Ability to understand basics of serial communication.
			C606.5	Ability to understand and impart knowledge in DC and AC motor interfacing.
			C606.6	Ability to understand basics of software simulators.
50	III/VI	EE8611 MINI PROJECT	C607.1	On Completion of the mini project work students will be in a position to take up their final year project work and find solution by formulating proper methodology.
51		EE8701 HIGH VOLTAGE ENGINEERING	C701.1	Ability to understand Transients in power system.
			C701.2	Ability to understand Generation and measurement of high voltage.



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			C701.3	Ability to understand High voltage testing.
			C701.4	Ability to understand various types of over voltages in power system.
			C701.5	Ability to measure over voltages.
			C701.6	Ability to test power apparatus and insulation coordination
52	IV/VII	EE8702 POWER SYSTEM OPERATION AND CONTROL	C702.1	Ability to understand the day-to-day operation of electric power system.
			C702.2	Ability to analyze the control actions to be implemented on the system to meet the minute-to-minute variation of system demand.
			C702.3	Ability to understand the significance of power system operation and control.
			C702.4	Ability to acquire knowledge on real power-frequency interaction.
			C702.5	Ability to understand the reactive power-voltage interaction
			C702.6	Ability to design SCADA and its application for real time operation.
53		EE8703 RENEWABLE ENERGY SYSTEMS	C703.1	Ability to create awareness about renewable Energy Sources and technologies.
			C703.2	Ability to get adequate inputs on a variety of issues in harnessing renewable Energy.
			C703.3	Ability to recognize current and possible future role of renewable energy sources.



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	IV/VII		C703.4	Ability to explain the various renewable energy resources and technologies and their applications.
			C703.5	Ability to understand basics about biomass energy.
			C703.6	Ability to acquire knowledge about solar energy.
54		OML751 TESTING OF MATERIALS	C704.1	Identify suitable testing technique to inspect industrial component
			C704.2	Ability to use the different technique and know its applications and limitations
55		EI8075 FIBRE OPTICS AND LASER INSTRUMENTS	C705.1	Understand the principle, transmission, dispersion and attenuation characteristics of optical fibers
			C705.2	Apply the gained knowledge on optical fibers for its use as communication medium and as sensor as well which have important applications in production, manufacturing industrial and biomedical applications.
			C705.3	Understand laser theory and laser generation system.
			C705.4	Students will gain ability to apply laser theory for the selection of lasers for a specific Industrial and medical application.
	IV/VII		C706.1	Ability to understand and analyze switching and lightning transients.
			C706.2	Ability to acquire knowledge on generation



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56		EE8010 POWER SYSTEMS TRANSIENTS		of switching transients and their control.
			C706.3	Ability to analyze the mechanism of lightning strokes.
			C706.4	Ability to understand the importance of propagation, reflection and refraction of travelling waves.
			C706.5	Ability to find the voltage transients caused by faults.
			C706.6	Ability to understand the concept of circuit breaker action, load rejection on integrated power system.
57		EE8711 POWER SYSTEM SIMULATION LABORATORY	C707.1	Ability to understand power system planning and operational studies.
			C707.2	Ability to acquire knowledge on Formation of Bus Admittance and Impedance Matrices and Solution of Networks.
			C707.3	Ability to analyze the power flow using GS and NR method
			C707.4	Ability to find Symmetric and Unsymmetrical fault
			C707.5	Ability to understand the economic dispatch.
			C707.6	Ability to analyze the electromagnetic transients.
58	IV/VII	EE8712 RENEWABLE ENERGY SYSTEMS LABORATORY	C708.1	Ability to understand and analyze Renewable energy systems.
			C708.2	Ability to train the students in Renewable Energy Sources and technologies.
			C708.3	Ability to provide adequate inputs on a variety of issues in harnessing Renewable Energy.



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			C708.4	Ability to simulate the various Renewable energy sources.
			C708.5	Ability to recognize current and possible future role of Renewable energy sources.
			C708.6	Ability to understand basics of Intelligent Controllers.
59	IV/VIII	EE8015 ELECTRIC ENERGY GENERATION, UTILIZATION AND CONSERVATION	C709.1	To understand the main aspects of generation, utilization and conservation.
			C709.2	To identify an appropriate method of heating for any particular industrial application.
			C709.3	To evaluate domestic wiring connection and debug any faults occurred.
			C709.4	To construct an electric connection for any domestic appliance like refrigerator as well as to design a battery charging circuit for a specific household application.
			C709.5	To realize the appropriate type of electric supply system as well as to evaluate the performance of a traction unit
			C709.6	To understand the main aspects of Traction.
60	IV/VIII	EE8017 HIGH VOLTAGE DIRECT CURRENT TRANSMISSION	C710.1	Ability to understand the principles and types of HVDC system
			C710.2	Ability to analyze and understand the concepts of HVDC converters.
			C710.3	Ability to acquire knowledge on DC link control.
			C710.4	Ability to understand the concepts of reactive power management,

THENI MELAPETTAI HINDU NADARGAL URAVINMURAI



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				harmonics and power flow analysis.
			C710.5	Ability to get knowledge about Planning of DC power transmission and comparison with AC power transmission.
			C710.6	Ability to understand the importance of power flow in HVDC system under steady state.
61		EE8811 PROJECT WORK	C803.1	On Completion of the project work students will be in a position to take