M.I.E.T. ENGINEERING COLLEGE

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai)
UG - CSE, EEE & MECH Programs Accredited by NBA, New Delhi
Accredited with 'A+' grade by NAAC
An ISO 9001:2015 Certified Institution
Recognized by UGC under section 2(f) & 12(B) of UGC Act, 1956
Trichy – Pudukkottai Road, Tiruchirappalli – 620 007. Phone:0431-2660 303
Website:www.miet.edu, E-mail:principalengg@miet.edu, contact@miet.edu

1. LIST OF COURSE OUTCOMES (2021 REGULATION) - EEE

S.No	Course Outcome
C101-HS3152 /PROFESSIONAL ENGLISH - I	
C101.1	To improve the communicative competence of learners
C101.2	To learn to use basic grammatic structures in suitable contexts
C101.3	To acquire lexical competence and use them appropriately in a sentence and understand their meaning in a text
C101.4	To help learners use language effectively in professional contexts
C101.5	To develop learners' ability to read and write complex texts, summaries, articles, blogs, definitions, essays and user manuals.
C102-MA3151 /MATRICES AND CALCULUS	
C102.1	To develop the use of matrix algebra techniques that is needed by engineers for practical applications.
C102.2	To familiarize the students with differential calculus.
C102.3	To familiarize the student with functions of several variables. This is needed in many branches of engineering.
C102.4	To make the students understand various techniques of integration.
C102.5	To acquaint the student with mathematical tools needed in evaluating multiple integrals and their applications.
C103-PH3151 /ENGINEERING PHYSICS	
C103.1	To make the students effectively to achieve an understanding of mechanics.
C103.2	To enable the students to gain knowledge of electromagnetic waves and its applications.
C103.3	To introduce the basics of oscillations, optics and lasers.
C103.4	Equipping the students to be successfully understand the importance of quantum physics.
C103.5	To motivate the students towards the applications of quantum mechanics.
C104-CY3151/ENGINEERING CHEMISTRY	
C104.1	To inculcate sound understanding of water quality parameters and water treatment techniques.
C104.2	To impart knowledge on the basic principles and preparatory methods of nanomaterials
C104.3	To introduce the basic concepts and applications of phase rule and composites
C104.4	To facilitate the understanding of different types of fuels, their preparation, properties and combustion characteristics
C104.5	To familiarize the students with the operating principles, working processes and applications of energy conversion and storage devices.
C105-GE3151/PROBLEM SOLVING AND PYTHON PROGRAMMING	
C105.1	To understand the basics of algorithmic problem solving.
C105.2	To learn to solve problems using Python conditionals and loops
C105.3	To define Python functions and use function calls to solve problems
C105.4	To use Python data structures - lists, tuples, dictionaries to represent complex data
C105.5	To do input/output with files in Python.

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C106-GE3171/PROBLEM SOLVING AND PYTHON PROGRAMMING LABORATORY	
C106.1	To understand the problem solving approaches.
C106.2	To learn the basic programming constructs in Python.
C106.3	To practice various computing strategies for Python-based solutions to real world problems.
C106.4	To use Python data structures - lists, tuples, dictionaries
C106.5	To do input/output with files in Python.
C107-BS3171/PHYSICS AND CHEMISTRY LABORATORY	
C107.1	To learn the proper use of various kinds of physics laboratory equipment.
C107.2	To learn how data can be collected, presented and interpreted in a clear and concise manner.
C107.3	To learn problem solving skills related to physics principles and interpretation of experimental data.
C107.4	To determine error in experimental measurements and techniques used to minimize such error.
C107.5	To make the student as an active participant in each part of all lab exercises.
C108-GE3172/ENGLISH LABORATORY	
C108.1	To improve the communicative competence of learners
C108.2	To help learners use language effectively in academic /work contexts
C108.3	To develop various listening strategies to comprehend various types of audio materials like lectures, discussions, videos etc.
C108.4	To build on students' English language skills by engaging them in listening, speaking and grammar learning activities that are relevant to authentic contexts.
C108.5	To use language efficiently in expressing their opinions via various media.
C109-HS3252/PROFESSIONAL ENGLISH - II	
C109.1	To engage learners in meaningful language activities to improve their reading and writing skills
C109.2	To learn various reading strategies and apply in comprehending documents in professional context.
C109.3	To help learners understand the purpose, audience, contexts of different types of writing
C109.4	To develop analytical thinking skills for problem solving in communicative contexts
C109.5	To demonstrate an understanding of job applications and interviews for internship and placements
C110-MA3251/STATISTICS AND NUMERICAL METHODS	
C110.1	This course aims at providing the necessary basic concepts of a few statistical and numerical methods and give procedures for solving numerically different kinds of problems occurring in engineering and technology.
C110.2	To acquaint the knowledge of testing of hypothesis for small and large samples which plays an important role in real life problems
C110.3	To introduce the basic concepts of solving algebraic and transcendental equations.
C110.4	To introduce the numerical techniques of interpolation in various intervals and numerical techniques of differentiation and integration which plays an important role in engineering and technology disciplines.

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C110.5	To acquaint the knowledge of various techniques and methods of solving ordinary differential equations.
C111-PH3202 /PHYSICS FOR ELECTRICAL ENGINEERING	
C111.1	To make the students to understand the basics of dielectric materials and insulation.
C111.2	To understand the electrical properties of materials including free electron theory, applications of quantum mechanics and magnetic materials.
C111.3	To instil knowledge on physics of semiconductors, determination of charge carriers and device applications
C111.4	To establish a sound grasp of knowledge on different optical properties of materials, optical displays and applications
C111.5	To inculcate an idea of significance of nano structures, quantum confinement and ensuing nano device applications.
C112-BE3255/BASIC CIVIL AND MECHANICAL ENGINEERING	
C112.1	To provide the students an illustration of the significance of the Civil and Mechanical Engineering Profession in satisfying the societal needs.
C112.2	To help students acquire knowledge in the basics of surveying and the materials used for construction.
C112.3	To provide an insight to the essentials of components of a building and the infrastructure facilities.
C112.4	To explain the component of power plant units and detailed explanation to IC engines their working principles.
C112.5	To explain the Refrigeration & Air-conditioning system.
C113-GE3251/ENGINEERING GRAPHICS	
C113.1	Drawing engineering curves
C113.2	Drawing freehand sketch of simple objects
C113.3	Drawing orthographic projection of solids and section of solids.
C113.4	Drawing development of solids
C113.5	Drawing isometric and perspective projections of simple solids.
C114-EE3251/ELECTRIC CIRCUIT ANALYSIS	
C114.1	To introduce electric circuits and its analysis
C114.2	To provide key concepts to analyze and understand electrical circuits
C114.3	To impart knowledge on solving circuit equations using network theorems
C114.4	To educate on obtaining the transient response of circuits
C114.5	To introduce the phenomenon of resonance in coupled circuits.
C114.6	To introduce Phasor diagrams and analysis of single &three phase circuits
C115-GE3271/ ENGINEERING PRACTICES LABORATORY	
C115.1	Drawing pipe line plan; laying and connecting various pipe fittings used in common household plumbing work; Sawing; planing; making joints in wood materials used in common household wood work.
C115.2	Wiring various electrical joints in common household electrical wire work
C115.3	Welding various joints in steel plates using arc welding work; Machining various simple processes like turning, drilling, tapping in parts; Assembling simple mechanical assembly of common household equipments; Making a tray out of metal sheet using sheet metal work.
C115.4	Soldering and testing simple electronic circuits; Assembling and testing simple electronic components on PCB.
C116-EE3271/ ELECTRIC CIRCUITS LABORATORY	
C116.1	To simulate various electric circuits using Pspice/ Matlab/e-Sim / Scilab
C116.2	To gain practical experience on electric circuits and verification of theorems
C117 / GE3272/ COMMUNICATION LABORATORY	

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C117.1	To identify varied group discussion skills and apply them to take part in effective discussions in a professional context.
C117.2	To analyse concepts and problems and make effective presentations explaining them clearly and precisely
C117.3	To be able to communicate effectively through formal and informal writing.
C117.4	To be able to use appropriate language structures to write emails, reports and essays
C117.5	To give instructions and recommendations that are clear and relevant to the context
C201 / MA3303/ PROBABILITY AND COMPLEX FUNCTIONS	
C201.1	This course aims at providing the required skill to apply the statistical tools in engineering problems.
C201.2	To introduce the basic concepts of probability and random variables
C201.3	To introduce the basic concepts of two dimensional random variables.
C201.4	To develop an understanding of the standard techniques of complex variable theory in particular analytic function and its mapping property.
C201.5	To familiarize the students with complex integration techniques and contour integration techniques which can be used in real integrals.
C201.6	To acquaint the students with Differential Equations which are significantly used in engineering problems.
C202 / EE3301/ ELECTROMAGNETIC FIELDS	
C202.1	To introduce the basic mathematical concepts related to electromagnetic vector fields
C202.2	To impart knowledge on the concepts of Electrostatic fields, electric potential, energy density and their applications.
C202.3	To impart knowledge on the concepts of Magneto static fields, magnetic flux density, vector potential and its applications.
C202.4	To impart knowledge on the concepts of Different methods of emf generation and Maxwell's equations
C202.5	To impart knowledge on the concepts of Electromagnetic waves and characterizing parameters
C203 / EE3302/ DIGITAL LOGIC CIRCUITS	
C203.1	To introduce the fundamentals of combinational and sequential digital circuits.
C203.2	To study various number systems and to simplify the mathematical expressions using Boolean functions word problems
C203.3	To study implementation of combinational circuits using Gates` and MSI Devices
C203.4	To study the design of various synchronous and asynchronous circuits
C203.5	To introduce digital simulation techniques for development of application oriented logic circuit
C204 / EC3301 / ELECTRON DEVICES AND CIRCUITS	

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C204.1	To understand the structure of basic electronic devices.
C204.2	To be exposed to active and passive circuit elements
C204.3	To familiarize the operation and applications of transistor like BJT and FET
C204.4	To explore the characteristics of amplifier gain and frequency response
C204.5	To learn the required functionality of positive and negative feedback systems.
C205 / EE3303/ ELECTRICAL MACHINES - I	
C205.1	To understand the concept of electromechanical energy conversion system.
C205.2	To identify the appropriate machine for a given application based on its characteristics.
C205.3	To identify the appropriate test to determine the performance parameters of a given machine
C205.4	To familiarize with the procedure for parallel operation of generators and transformers.
C205.5	To deliberate the working of auto transformer and three phase transformers
C206 /CS3353 / C PROGRAMMING AND DATA STRUCTURES	
C206.1	To introduce the basics of C programming language.
C206.2	To learn the concepts of advanced features of C.
C206.3	To understand the concepts of ADTs and linear data structures.
C206.4	To know the concepts of non-linear data structure and hashing.
C206.5	To familiarize the concepts of sorting and searching techniques.
C207 / EC3311/ ELECTRONIC DEVICES AND CIRCUITS LABORATORY	
C207.1	To enable the students to understand the behavior of semiconductor device based on experimentation.
C207.2	Be exposed to active and passive circuit elements.
C207.3	Familiarize the operation and characteristics of transistor like BJT and FET
C207.4	Explore the characteristics of amplifier gain and frequency response.
C207.5	Learn the required functionality of positive and negative feedback systems.
C208 / EE3311/ ELECTRICAL MACHINES LABORATORY - I	
C208.1	To expose the students to determine the characteristics of DC machines and transformers by performing experiments on these machines.

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C208.2	To provide hands on experience to evaluate the performance parameters of DC machines and transformer by conducting suitable tests.

C209 -CS3362/C PROGRAMMING AND DATA STRUCTURES LABORATORY

C209.1	To develop applications in C
C209.2	To implement linear and non-linear data structures
C209.3	To understand the different operations of search trees
C209.4	To get familiarized to sorting and searching algorithms

C210/GE3361 / PROFESSIONAL DEVELOPMENT

C210.1	To be proficient in important Microsoft Office tools: MS WORD, EXCEL, POWERPOINT.
C210.2	To be proficient in using MS WORD to create quality technical documents, by using standard templates, widely acceptable styles and formats, variety of features to enhance the presentability and overall utility value of content.
C210.3	To be proficient in using MS EXCEL for all data manipulation tasks including the common statistical, logical, mathematical etc., operations, conversion, analytics, search and explore, visualize, interlink, and utilizing many more critical features offered
C210.4	To be able to create and share quality presentations by using the features of MS PowerPoint, including: organization of content, presentability, aesthetics, using media elements and enhance the overall quality of presentations.

C211- GE3451/ ENVIRONMENTAL SCIENCES AND SUSTAINABILITY

C211.1	To introduce the basic concepts of environment, ecosystems and biodiversity and emphasize on the biodiversity of India and its conservation.
C211.1	To impart knowledge on the causes, effects and control or prevention measures of environmental pollution and natural disasters.
C211.1	To facilitate the understanding of global and Indian scenario of renewable and nonrenewable resources, causes of their degradation and measures to preserve them.
C211.1	To familiarize the concept of sustainable development goals and appreciate the interdependence of economic and social aspects of sustainability, recognize and analyze climate changes, concept of carbon credit and the challenges of environmental management
C211.1	To inculcate and embrace sustainability practices and develop a broader understanding on green materials, energy cycles and analyze the role of sustainable urbanization.

C212- EE3401/ TRANSMISSION AND DISTRIBUTION

C212.1	To impart knowledge about the configuration of the electrical power systems.
C212.2	To study the line parameters and interference with neighboring circuits.
C212.3	To understand the mechanical design and performance analysis of transmission lines.
C212.4	To learn about different insulators and underground cables.
C212.5	To understand and analyze the distribution system.

C213- 3402/ LINEAR INTEGRATED CIRCUITS

C213.1	Signal analysis using Op-amp based circuits
C213.2	Applications of Op-amp.
C213.3	Functional blocks and the applications of special ICs like Timers, PLL circuits, regulator Circuits

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C213.4	IC fabrication procedure.
C214- EE3403/ MEASUREMENTS AND INSTRUMENTATION	
C214.1	To educate the fundamental concepts and characteristics of measurement and errors
C214.2	To impart the knowledge on the functional aspects of measuring instruments
C214.3	To infer the importance of various bridge circuits used with measuring instruments
C214.4	To educate the fundamental working of sensors and transducers and their applications
C214.5	To summarize the overall measurement and instrumentation with the knowledge on digital instrumentation principles.
C215- EE3404/ MICROPROCESSOR AND MICROCONTROLLER	
C215.1	To study the addressing modes & instruction set of 8085 &8051
C215.2	To develop skills in simple program writing in assembly languages
C215.3	To introduce commonly used peripheral/interfacing ICs.
C215.4	To study and understand typical applications of micro-processors.
C216-EE3405/ ELECTRICAL MACHINES - II	
C216.1	Construction and performance of salient and non – salient type synchronous generators
C216.2	Principle of operation and performance of synchronous motor.
C216.3	Construction, principle of operation and performance of induction machines.
C216.4	Starting and speed control of three-phase induction motors.
C216.5	Construction, principle of operation and performance of single phase induction motors and special machines.
C217- EE3411/ ELECTRICAL MACHINES LABORATORY - II	
C217.1	To expose the students to the operation of synchronous machines and induction motors and give them experimental skil
C218- EE3412/LINEAR AND DIGITAL CIRCUITS LABORATORY	
C218.1	To learn design, testing and characterizing of circuit behavior with combinational logic gate ICs
C218.2	To learn design, testing and characterizing of circuit behavior with register/ counter and sequential logic ICs
C218.3	To learn design, testing and characterizing of circuit behavior with OPAMP ICs
C218.4	To learn design, testing and characterizing of circuit behavior with analog Ics like 555 timer VCO and regulators
C218.5	To learn design, testing and characterizing of circuit behavior with digital Ics like decoders, multiplexers.
C219-EE3413/ MICROPROCESSOR AND MICROCONTROLLER LABORATORY	
C219.1	To perform simple arithmetic operations using assembly language program and study the addressing modes & instruction set of 8085 & 8051
C219.2	To develop skills in simple program writing in assembly languages

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C219.3	To write an assembly language program to convert Analog input to Digital output and Digital input to Analog output.
C219.4	To perform interfacing experiments with µP8085
C219.5	To perform interfacing experiments with µC8051.
C301-EE3501/POWER SYSTEM ANALYSIS	
C301.1	Impact knowledge on need for operational studies, and To model the power system under steady state operating condition.
C301.2	To understand and apply iterative techniques for power flow analysis
C301.3	To model of carry out short circuit studies for power system during symmetrical fault
C301.4	To model of carry out short circuit – studies during
C301.5	To study about the various methods for analyzing power system stability
C302-EE3591/POWER ELECTRONICS	
C302.1	To understand the various applications of power electronic devices for conversion, control and conditioning of the electrical power and to get an overview of different types of power semiconductor devices and their dynamic characteristics
C302.2	To understand the operation, characteristics and performance parameters of controlled rectifiers
C302.3	To study the operation, switching techniques and basic topologies of DC-DC switching regulators.
C302.4	To learn the different modulation techniques of pulse width modulated inverters and to understand harmonic reduction methods.
C302.5	To study the operation of AC voltage controller and various configurations of AC voltage controller.
C303-EE3503/ CONTROL SYSTEMS	
C303.1	To make the students to familiarize with various representations of systems.
C303.2	To make the students to analyze the stability of linear systems in the time domain and frequency domain.
C303.3	To make the students to analyze the stability of linear systems in the frequency domain
C303.4	To make the students to design compensator based on the time and frequency domain specifications.
C303.5	To develop linear models: mainly state variable model and Transfer function model
C304-EE3511/POWER ELECTRONICS LABORATORY	
C304.1	To study the VI characteristics of SCR, TRIAC, MOSFET and IGBT
C304.2	To analyze the performance of semi converter, full converter, step up, step down choppers by simulation and experimentation.
C304.3	To study the behavior of voltage waveforms of PWM inverter applying various modulation techniques.
C304.4	To design and analyze the performance of SMPS.
C304.5	To study the performance of AC voltage controller by simulation and Experimentation.
C305-EE3512/CONTROL AND INSTRUMENTATION LABORATORY	
C305.1	To make the students familiarize with various representations of systems.

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C305.2	To make the students analyze the stability of linear systems in the time domain and frequency domain
C305.3	To make the students design compensator based on the time and frequency domain Specifications.
C305.4	To develop linear models mainly state variable model and transfer function model
C305.5	To make the students to design a complete closed loop control system for the physical systems.
C306-EE3601/PROTECTION AND SWITCHGEAR	
C306.1	To understand the significance of protection, protection schemes and role of earthing
C306.2	To study the characteristics, functions and application areas of various relays.
C306.3	To acquire practical knowledge about common faults in power system apparatus and applying suitable protective schemes.
C306.4	To understand the functioning of static relays and Numerical protection concepts.
C306.5	To understand the problems associated with circuit breaking and to discuss about various circuit breakers.
C307-EE3602/POWER SYSTEM OPERATION AND CONTROL	
C307.1	The significance of power system operation and control.
C307.2	Real power– frequency interaction and design of power– frequency controller
C307.3	Reactive power– voltage interaction and the compensators for maintaining the voltage profile.
C307.4	The generation scheduling and economic operation of power system
C307.5	SCADA and its application for real time operation and control of power systems.
C308-EE3611/ POWER SYSTEM LABORATORY	
C307.1	To provide a better understanding of modelling of transmission lines in impedance and admittance forms.
C307.2	To apply iterative techniques for power flow analysis and to carry out short circuit and stability studies on power system
C307.3	To analyze the load – frequency and voltage controls
C307.4	To analyze optimal dispatch of generators and perform state estimation
C307.5	To understand the operation of relays, characteristics, and applications
C401-EE3701/HIGH VOLTAGE ENGINEERING	
C401.1	Various types of over voltages in power system and protection methods.
C401.2	Generation of over voltages in laboratories.
C401.3	Measurement of over voltages.
C401.4	Nature of Breakdown mechanism in solid, liquid and gaseous dielectrics
C401.5	Testing of power apparatus and insulation coordination
C402- GE3791/ HUMAN VALUES AND ETHICS	
C402.1	To create awareness about values and ethics enshrined in the Constitution of India
C402.2	To sensitize students about the democratic values to be upheld in the modern society.

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C402.3	To inculcate respect for all people irrespective of their religion or other affiliations.
C402.4	To instill the scientific temper in the students' minds and develop their critical thinking.
C402.5	To promote sense of responsibility and understanding of the duties of citizen.
C403-/ PROJECT WORK / INTERNSHIP	
C403.1	The student should be made to learn methodology to select a good project and able to work in a team leading to development of hardware/software product.prepare a good technical report. Gain Motivation to present the ideas behind the project with clarity.

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COURSES	PROGRAMME OUTCOMES												PSO	
	1	2	3	4	5	6	7	8	9	10	11	12	1	2
C101-HS3152 /PROFESSIONAL ENGLISH - I														
C101.1	1	1	1	1	1	3	3	3	1	3	-	3	-	-
C101.2	1	1	1	1	1	3	3	3	1	3	-	3	-	-
C101.3	2	3	2	3	2	3	3	3	2	3	3	3	-	-
C101.4	2	3	2	3	2	3	3	3	2	3	3	3	-	-
C101.5	2	3	3	3	-	3	3	3	2	3	-	3	-	-
C102-MA3151 /MATRICES AND CALCULUS														
C102.1	3	3	1	1	0	0	0	0	2	0	2	3	-	-
C102.2	3	3	1	1	0	0	0	0	2	0	2	3	-	-
C102.3	3	3	1	1	0	0	0	0	2	0	2	3	-	-
C102.4	3	3	1	1	0	0	0	0	2	0	2	3	-	-
C102.5	3	3	1	1	0	0	0	0	2	0	2	3	-	-
C103-PH3151 /ENGINEERING PHYSICS														
C103.1	3	3	2	1	1	1	-	-	-	-	-	-	-	-
C103.2	3	3	2	1	2	1	-	-	-	-	-	-	-	-
C103.3	3	3	2	2	2	1	-	-	-	-	-	1	-	-
C103.4	3	3	1	1	2	1	-	-	-	-	-	-	-	-
C103.5	3	3	1	1	2	1	-	-	-	-	-	-	-	-
C104-CY3151/ENGINEERING CHEMISTRY														
C104.1	3	2	2	1	-	1	1	-	-	-	-	3	3	-
C104.2	2	-	-	1	-	2	2	-	-	-	-	2	-	-
C104.3	3	1	-	-	-	-	-	-	-	-	-	3	-	-
C104.4	3	1	1	-	-	1	2	-	-	-	-	3	-	-
C104.5	3	1	2	1	-	2	2	-	-	-	-	3	-	-
C105-GE3151/PROBLEM SOLVING AND PYTHON PROGRAMMING														
C105.1	3	3	3	3	2	-	-	-	-	-	2	2	3	-
C105.2	3	3	3	3	2	-	-	-	-	-	2	2	-	-

C105.3	3	3	3	3	2	-	-	-	-	-	2	-	-	-
C105.4	2	2	-	2	2	-	-	-	-	-	1	-	-	-
C105.5	1	2	-	-	1	-	-	-	-	-	1	-	-	-
C105.6	2	2	-	-	2	-	-	-	-	-	1	-	-	-
C106-GE3171/PROBLEM SOLVING AND PYTHON PROGRAMMING LABORATORY														
C106.1	3	3	3	3	3	-	-	-	-	-	3	2	3	3
C106.2	3	3	3	3	3	-	-	-	-	-	3	2	3	-
C106.3	3	3	3	3	2	-	-	-	-	-	2	-	3	-
C106.4	3	2	-	2	2	-	-	-	-	-	1	-	3	-
C106.5	1	2	-	-	1	-	-	-	-	-	1	-	2	-
C106.6	2	-	-	-	2	-	-	-	-	-	1	-	2	-
C107-BS31711/PHYSICS AND CHEMISTRY LABORATORY														
C107.1	3	2	3	1	1	-	-	-	-	-	-	-	-	-
C107.2	3	3	2	1	1	-	-	-	-	-	-	-	-	-
C107.3	3	2	3	1	1	-	-	-	-	-	-	-	-	-
C107.4	3	3	2	1	1	-	-	-	-	-	-	-	-	-
C107.5	3	2	3	1	1	-	-	-	-	-	-	-	-	-
C107.6	3	2	3	1	1	-	-	-	-	-	-	-	-	-
C108-GE3172/ENGLISH LABORATORY														
C108.1	3	3	3	3	1	3	3	3	3	3	3	3	-	-
C108.2	3	3	3	3	1	3	3	3	3	3	3	3	-	-
C108.3	3	3	3	3	1	3	3	3	3	3	3	3	-	-
C108.4	3	3	3	3	1	3	3	3	3	3	3	3	-	-
C108.5	3	3	3	3	1	3	3	3	3	3	3	3	-	-

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COURSES	PROGRAMME OUTCOMES												PSO	
	1	2	3	4	5	6	7	8	9	10	11	12	1	2
C109-HS3252-PROFESSIONAL ENGLISH - II														
C109.1	3	3	3	3	3	3	3	3	2	3	3	3	-	-
C109.2	3	3	3	3	3	3	3	3	2	3	3	3	-	-
C109.3	3	3	3	3	3	3	3	3	2	3	3	3	-	-
C109.4	3	3	3	3	2	3	3	3	2	3	3	3	-	-
C109.5	-	-	-	-	-	-	-	-	3	3	3	3	-	-
C110-MA3251/STATISTICS AND NUMERICAL METHODS														
C110.1	3	3	1	1	0	0	0	0	2	0	2	3	-	-
C110.2	3	3	1	1	0	0	0	0	2	0	2	3	-	-
C110.3	3	3	1	1	0	0	0	0	2	0	2	3	-	-
C110.4	3	3	1	1	0	0	0	0	2	0	2	3	-	-
C110.5	3	3	1	1	0	0	0	0	2	0	2	3	-	-
C111-PH3202 /PHYSICS FOR ELECTRICAL ENGINEERING														
C111.1	3	2	1	-	-	1	-	-	-	-	-	-	-	-
C111.2	3	2	1	-	-	1	-	-	-	-	-	-	-	-
C111.3	3	2	1	-	-	1	-	-	-	-	-	-	-	-
C111.4	3	2	1	-	-	1	-	-	-	-	-	-	-	-
C111.5	3	2	1	-	-	1	-	-	-	-	-	-	-	-
C112-BE3255/BASIC CIVIL AND MECHANICAL ENGINEERING														
C112.1	2	-	-	1	-	-	1	2	1	2	-	1	-	-
C112.2	2	-	-	-	-	-	1	2	1	2	-	2	-	-
C112.3	2	-	-	-	-	-	1	2	2	2	-	2	-	-
C112.4	2	-	-	-	-	-	1	2	1	2	-	2	-	-
C112.5	2	-	-	-	-	-	1	2	1	2	-	2	-	-
C113-GE3251/ENGINEERING GRAPHICS														
C113.1	3	1	2	-	2	-	-	-	-	3	-	2	2	2
C113.2	3	1	2	-	2	-	-	-	-	3	-	2	2	2

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C113.3	3	1	2	-	2	-	-	-	-	3	-	2	2	2
C113.4	3	1	2	-	2	-	-	-	-	3	-	2	2	2
C113.5	3	1	2	-	2	-	-	-	-	3	-	2	2	2
C114-EE3251/ELECTRIC CIRCUIT ANALYSIS														
C114.1	3	3	3	2	2	-	2	1	-	-	-	3	3	3
C114.2	3	3	3	3	2	-	2	1	-	-	-	3	3	3
C114.3	3	3	3	3	2	-	2	1	-	-	-	3	3	3
C114.4	3	3	3	3	2	-	2	1	-	-	-	3	3	3
C114.5	3	3	3	3	2	-	2	1	-	-	-	3	3	3
C115-GE3271/ENGINEERING PRACTICES LABORATORY														
C115.1	3	2	-	-	1	1	1	-	-	-	-	2	2	1
C115.2	3	2	-	-	1	1	1	-	-	-	-	2	2	1
C115.3	3	2	-	-	1	1	1	-	-	-	-	2	2	1
C116-EE3271/ELECTRIC CIRCUITS LABORATORY														
C116.1	3	3	3	3	3	-	2	1.5	3	-	-	3	3	3
C116.2	3	3	3	3	3	-	2	1.5	3	-	-	3	3	3
C116.3	3	3	3	3	3	-	2	1.5	3	-	-	3	3	3
C116.4	3	3	3	3	3	-	2	1.5	3	-	-	3	3	3
C116.5	3	3	3	3	3	-	2	1.5	3	-	-	3	3	3
C117-GE3272/COMMUNICATION LABORATORY														
C117.1	2	3	3	3	1	3	3	3	3	3	3	3	-	-
C117.2	2	3	3	3	1	3	3	3	3	3	3	3	-	-
C117.3	2	2	3	3	1	3	3	3	3	3	3	3	-	-
C117.4	3	3	3	3	3	3	3	3	3	3	3	3	-	-
C117.5	3	3	3	3	3	3	3	3	3	3	3	3	-	-

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COURSES	PROGRAMME OUTCOMES												PSO	
	1	2	3	4	5	6	7	8	9	10	11	12	1	2
C201 - MA3303/ PROBABILITY AND COMPLEX FUNCTIONS														
C201.1	3	3	0	0	0	0	0	0	2	0	0	2	-	-
C201.2	3	3	0	0	0	0	0	0	2	0	0	2	-	-
C201.3	3	3	0	0	0	0	0	0	2	0	0	2	-	-
C201.4	3	3	0	0	0	0	0	0	2	0	0	2	-	-
C201.5	3	3	0	0	0	0	0	0	2	0	0	2	-	-
C202 / EE3301/ ELECTROMAGNETIC FIELDS														
C202.1	3	2	-	-	-	-	3	1	-	-	-	1	3	2
C202.2	3	2	1	2	-	-	1	1	-	-	-	1	3	2
C202.3	3	2	1	2	-	-	1	1	-	-	-	1	3	2
C202.4	3	2	1	2	-	-	1	1	-	-	-	1	3	2
C202.5	3	2	1	2	-	-	1	1	-	-	-	1	3	2
C203 / EE3302/ DIGITAL LOGIC CIRCUITS														
C203.1	3	3	3	1	3	-	-	1	-	-	-	1	3	-
C203.2	3	3	3	1	3	-	-	1	-	-	-	1	3	-
C203.3	3	3	3	1	3	-	-	1	-	-	-	1	3	-
C203.4	3	3	3	1	3	-	-	1	-	-	-	1	3	-
C203.5	3	3	3	1	3	-	-	1	-	-	-	1	3	-
C204 / EC3301 / ELECTRON DEVICES AND CIRCUITS														
C204.1	2	2	3	2	2	-	-	1	-	-	-	1	3	-
C204.2	2	2	3	2	2	-	-	1	-	-	-	1	3	-
C204.3	2	2	3	2	2	-	-	1	-	-	-	1	3	-
C204.4	2	2	3	2	2	-	-	1	-	-	-	1	3	-
C204.5	2	2	3	2	2	-	-	1	-	-	-	1	3	-
C205 / EE3303/ ELECTRICAL MACHINES - I														

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C205.1	3	3	1	1	1	-	-	1	-	-	-	1	3	2
C205.2	3	3	1	1	1	-	-	1	-	-	-	1	3	1
C205.3	3	3	1	1	1	-	-	1	-	-	-	1	3	1
C205.4	3	3	1	1	1	-	-	1	-	-	-	1	3	3
C205.5	3	3	1	1	1	-	-	1	-	-	-	1	3	3
C206 /CS3353 / C PROGRAMMING AND DATA STRUCTURES														
C206.1	2	3	1	2	2	1	1	-	1	2	1	3	2	1
C206.2	1	2	1	2	2	-	-	-	1	1	1	2	2	2
C206.3	2	3	1	2	3	-	-	-	1	1	1	2	2	1
C206.4	2	1	-	1	-	-	-	-	2	1	1	2	2	3
C206.5	1	2	1	2	2	1	1	-	1	2	1	3	2	2
C207 / EC3311/ ELECTRONIC DEVICES AND CIRCUITS LABORATORY														
C207.1	-	-	-	3	3	-	-	1.5	-	-	3	-	-	3
C207.2	-	-	3	3	3	-	-	1.5	-	-	3	-	-	3
C207.3	-	3	2	3	-	-	-	1.5	-	-	3	-	-	3
C207.4	-	3	3	3	-	-	-	1.5	-	-	3	-	-	3
C207.5	-	-	-	-	3	-	-	1.5	-	-	-	-	-	3
C207.6	-	-	-	-	3	-	-	1.5	-	-	-	-	-	3
C207.7	-	-	-	-	3	-	-	1.5	-	-	3	-	-	3
C207.8	-	-	-	-	3	-	-	1.5	-	-	3	-	-	3
C208 / EE3311/ ELECTRICAL MACHINES LABORATORY - I														
C208.1	3	3	1	1	-	-	-	-	1	-	-	-	3	1
C208.2	3	3	1	1	-	-	-	-	1	-	-	-	3	3
C208.3	3	3	1	1	-	-	-	-	1	-	-	-	3	3
C208.4	3	3	1	1	-	-	-	-	1	-	-	-	2	3
C208.5	3	3	1	1	-	-	-	-	1	-	-	-	2	3
C208.6	3	3	1	1	-	-	-	-	1	-	-	-	2	3

COURSES	PROGRAMME OUTCOMES												PSO	
	1	2	3	4	5	6	7	8	9	10	11	12	1	2
C209 / CS3362/C PROGRAMMING AND DATA STRUCTURES LABORATORY														
C209.1	2	3	1	2	2	1	1	-	1	2	1	3	2	1
C209.2	1	2	1	2	2	-	-	-	1	1	1	2	2	2
C209.3	2	3	1	2	3	-	-	-	1	1	1	2	2	1
C209.4	2	1	-	1	1	-	-	-	2	1	1	2	2	3
C209.5	1	2	1	2	2	1	1	-	1	2	1	3	2	2
C211- GE3451/ ENVIRONMENTAL SCIENCES AND SUSTAINABILITY														
C211.1	2	1	-	-	-	2	3	-	-	-	-	2	-	-
C211.2	3	2	-	-	-	3	3	-	-	-	-	2	-	-
C211.3	3	-	1	-	-	2	2	-	-	-	-	2	-	-
C211.4	3	2	1	1	-	2	2	-	-	-	-	2	-	-
C211.5	3	2	1	-	-	2	2	-	-	-	-	1	-	-
C212- EE3401/ TRANSMISSION AND DISTRIBUTION														
C212.1	2	1	-	-	-	-	-	1	-	-	-	-	3	1
C212.2	3	2	1	1	-	1	-	2	-	-	-	-	3	2
C212.3	3	2	1	1	-	1	-	2	-	-	-	-	3	3
C212.4	3	2	1	1	-	1	-	2	-	-	-	-	3	3
C212.5	3	2	1	1	-	1	-	2	-	-	-	-	3	3
C213- 3402/ LINEAR INTEGRATED CIRCUITS														
C213.1	2	2	3	2	2	-	-	1	-	-	-	1	3	2
C213.2	2	2	3	2	2	-	-	1	-	-	-	1	3	2
C213.3	2	2	3	2	2	-	-	1	-	-	-	1	3	2
C213.4	2	2	3	2	2	-	-	1	-	-	-	1	3	2
C213.5	2	2	3	2	2	-	-	1	-	-	-	1	3	2
C214- EE3403/ MEASUREMENTS AND INSTRUMENTATION														
C214.1	3	2	3	-	3	2	-	2	-	-	-	3	3	3
C214.2	3	2	3	2	-	-	-	-	-	3	-	3	3	3

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C214.3	3	2	3	-	3	2	-		-	-	-	3	3	3
C214.4	3	2	3	-	-	-	-	2	-	-	-	-	3	3
C214.1	3	2	3	2	3	-	-		-	3	-	3	3	3
C215- EE3404/ MICROPROCESSOR AND MICROCONTROLLER														
C215.1	2	1	2	3	-	-	-	1	-	-	-	3	3	1
C215.2	2	1	2	3	-	-	-	1	-	-	-	3	3	1
C215.3	2	1	2	3	-	-	-	1	-	-	-	3	3	1
C215.4	2	1	2	3	-	-	-	1	-	-	-	3	3	1
C215.1	2	1	2	3	-	-	-	1	-	-	-	3	3	1
C216-EE3405/ ELECTRICAL MACHINES - II														
C216.1	3	3	2	3	3	-	-	1	-	-	-	-	3	3
C216.2	3	3	2	3	3	-	-	1	-	-	-	-	3	3
C216.3	3	3	2	3	3	-	-	1	-	-	-	-	3	3
C216.4	3	3	2	3	3	-	-	1	-	-	-	-	3	3
C216.5	3	3	1	1	2	-	-	1	-	-	-	-	3	3
C217- EE3411/ ELECTRICAL MACHINES LABORATORY - II														
C216.1	3	3	1	1	-	-	-	1.5	1	-	-	3	3	3
C216.2	3	3	1	1	-	-	-	1.5	1	-	-	3	3	3
C216.3	3	3	1	1	-	-	-	1.5	1	-	-	3	3	3
C216.4	3	3	1	1	-	-	-	1.5	1	-	-	3	3	3
C216.5	3	3	1	1	-	-	-	1.5	1	-	-	2	3	3
C218- EE3412/LINEAR AND DIGITAL CIRCUITS LABORATORY														
C218.1	-	-	-	3	-	-	-	1.5	-	-	3	3	2	1
C218.2	-	-	3	3	-	-	-	1.5	-	-	3	3	2	1
C218.3	-	3	2	3	3	-	-	1.5	-	-	3	3	2	1
C218.4	-	3	3	3	3	-	-	1.5	-	-	3	3	2	1
C218.5	-	-	-	-	-	-	-	1.5	-	-	-	3	-	-
C219-EE3413/ MICROPROCESSOR AND MICROCONTROLLER LABORATORY														
C219.1	2	1	2	3	-	-	-	1.5	-	-	-	3	3	1

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C219.2	2	1	2	3	-	-	-	1.5	-	-	-	3	3	1
C219.3	2	1	2	3	-	-	-	1.5	-	-	-	3	3	1
C219.4	2	1	2	3	-	-	-	1.5	-	-	-	3	3	1
C219.5	2	1	2	3	-	-	-	1.5	-	-	-	3	3	1
C301-EE3501/POWER SYSTEM ANALYSIS														
C301.1	3	2	2	1	1	-	-	-	1	-	-	-	1	-
C301.2	3	3	3	2	1	-	-	-	1	-	-	-	1	1
C301.3	3	3	3	2	1	-	-	-	1	-	-	1	1	1
C301.4	3	2	2	2	2	-	-	-	1	-	-	1	1	1
C301.5	3	3	2	2	2	-	-	-	1	-	-	1	1	1
C302-EE3591/POWER ELECTRONICS														
C302.1	3	3	3	3	-	-	2	1	-	-	3	3	3	3
C302.2	3	3	3	3	-	-		1	-	-	-	-	3	3
C302.3	3	3	3	3	-	-	2	1	-	-	2	-	3	3
C302.4	3	3	3	3	-	-	1	1	-	-	2	3	3	3
C302.5	3	3	3	3	-	-	1	1	-	-	2	3	3	3
C303-EE3503/ CONTROL SYSTEMS														
C303.1	3	3	3	3	3	-	-	1	-	-	-	3	3	3
C303.2	3	3	3	3	3	-	-	1	-	-	-	3	3	3
C303.3	3	3	3	3	3	-	-	1	-	-	-	3	3	3
C303.4	3	3	3	3	3	-	-	1	-	-	-	3	3	3
C303.5	3	3	3	3	3	-	-	1	-	-	-	3	3	3
C304-EE3511/POWER ELECTRONICS LABORATORY														
C303.1	3	3	3	3	3	-	-	1.5	-	-	-	3	3	3
C303.2	3	3	3	3	3	-	-	1.5	-	-	-	3	3	3
C303.3	3	3	3	3	3	-	-	1.5	-	-	-	3	3	3
C303.4	3	3	3	3	3	-	-	1.5	-	-	-	3	3	3

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C303.5	3	3	3	3	3	-	-	1.5	-	-	-	3	3	3
C305-EE3512/CONTROL AND INSTRUMENTATION LABORATORY														
C305.1	3	3	3	3	3	-	-	1.5	-	-	-	2	3	3
C305.2	3	3	3	3	3	-	-	1.5	-	-	-	2	3	3
C305.3	3	3	3	3	3	-	-	1.5	-	-	-	2	3	3
C305.4	3	3	3	3	3	-	-	1.5	-	-	-	2	3	3
C305.5	3	3	3	3	3	-	-	1.5	-	-	-	2	3	3
C306-EE3601/PROTECTION AND SWITCHGEAR														
C306.1	3	1	1	2	1	2	1	1	1	1	2	-	3	1
C306.2	3	1	1	2	1	2	1	1	1	1	2	-	3	1
C306.3	3	1	1	2	1	2	1	1	1	1	2	-	3	2
C306.4	3	1	1	2	1	2	1	1	1	1	2	-	3	2
C306.5	3	1	1	2	2	2	1	1	1	1	2	-	3	1

COURSES	PROGRAMME OUTCOMES												PSO	
	1	2	3	4	5	6	7	8	9	10	11	12	1	2
C307-EE3602/POWER SYSTEM OPERATION AND CONTROL														
C307.1	2	1	-	-	-	-	-	1	-	-	-	2	3	3
C307.2	3	2	1	1	-	1	-	2	-	2	-	2	3	3
C307.3	3	2	1	1	-	1	-	2	-	2	-	2	3	3
C307.4	3	2	1	1	-	1	-	2	-	2	-	2	3	1
C307.5	2	1	-	-	-	-	-	1	-	2	-	2	3	3
C308-EE3611/ POWER SYSTEM LABORATORY														
C308.1	3	3	2	2	3	-	-	2	1	2	-	3	3	3
C308.2	3	3	2	2	3	-	-	2	1	2	-	3	3	3
C308.3	3	3	2	2	3	-	-	2	1	2	-	3	3	3
C308.4	3	3	2	2	3	-	-	2	1	2	-	3	3	3

C308.5	3	3	2	2	3	-	-	2	1	2	-	3	3	3
C401-EE3701/HIGH VOLTAGE ENGINEERING														
C401.1	2	2	-	-	-	-	-	-	-	-	-	-	3	2
C401.2	3	2	-	1	-	-	-	-	-	-	-	-	3	
C401.3	2	2	3	1	-	-	-	-	-	-	2	3	3	2
C401.4	1	2	3	1	-	-	-	1	1	-		3	3	2
C401.5	2	2	1	-	-	2	-	-	-	-	2	-	3	
C403-/ PROJECT WORK / INTERNSHIP														
C403.1	3	3	3	3	-	-	-	-	-	-	-	-	3	3
C403.1	-	-	-	-	3	3	-	-	-	-	-	-	3	-
C403.1	-	-	-	-	-	-	3	-	3	-	-	-	-	-
C403.1	-	-	-	-	-	-	-	3	3	3	3	-	-	-
C403.1	-	-	-	-	-	-	-	-	-	-	-	3	3	3