



PSN College of Engineering and Technology

(An Autonomous Institution)

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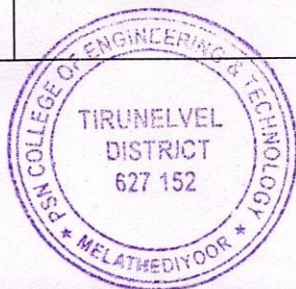
Melathediyoar, Tirunelveli - 627 152.

Department of Electrical and Electronics Engineering

TEACHING- LEARNING & EVALUATION

2.6 STUDENTS PERFORMANCE AND LEARNING OUTCOMES

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PRINCIPAL

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MELATHEDIYOOR, PALAYAMKOTTAI TALUK

TIRUNELVELI DIST. - 627 152.

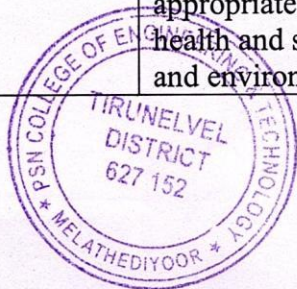
DEPARTMENT VISION	DEPARTMENT MISSION
The department aims at imparting high quality education to Electrical and Electronics Engineering students with active learning, critical thinking with ethical values to meet the global challenges.	DM1: To provide advanced knowledge and skills for Learning under congenial environment for global placement and entrepreneurship. DM2: To stimulate the process of critical thinking and solving the problems with focus on research capabilities. DM3: To enhance professional ethics and standards to meet the demands of society

1. Program Educational Objectives (PEOs):

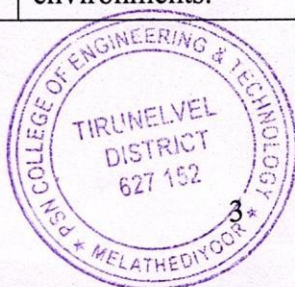
S. No	Objective	PEOs
PEO1	Basic Knowledge	To impart fundamental knowledge in the field of Electrical and Electronics Engineering and enabling them to occupy responsible positions in their career.
PEO22	Problem Solving Skill	To enhance the analytical skills of the students by learning process and making themselves to identify, apprehend and solve problems using modern tools.
PEO3	Societal Response	To make use of their technical expertise for Socially beneficial activities and transform them in responsible positions.

2. Program Outcomes (POs):

PO's No	KNOWLEDGE	STATEMENTS	APPLIANCE
1	Engineering Knowledge	Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.	Theory/ Practical / Project work
2	Problem Analysis	Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.	Theory / Practical / Projects
3	Design / Development of Solutions	Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.	Theory / Practical / Projects



4	Conduct Investigations of Complex Problems	Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.	Theory / Practical
5	Modern Tool usage	Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.	Theory / Practical / Project work
6	The Engineer and Society	Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.	Theory / Industrial visit / In plant training
7	Environment and Sustainability	Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.	Theory / Industrial Visit/ In plant Training
8	Ethics	Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.	Theory / Industrial visit / In plant training
9	Individual and Team Work	Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.	Projects
10	Communication	Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.	Projects/ Seminar/ Mini Project
11	Project Management and Finance	Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.	Projects



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12	Life-long Learning	Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.	Projects / Higher Studies
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3. Program Specific Outcomes [PSOs]:

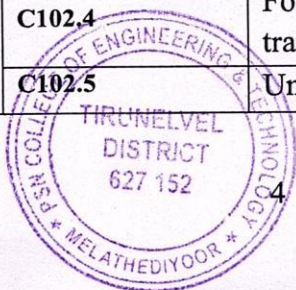
PSO 1: Ability to work professionally in the field of Power System, Control system and Power Electronics with the knowledge of operation and Maintenance.

PSO 2: Ability to solve complex real time problems in Electrical and Electronics Engineering field using modern tools.

4. COURSE OUTCOMES (COS):

PROGRAMME : EEE	DEGREE : EEE	SEMESTER : 01
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S. No	Year/ Sem	Course Name	Course Outcomes(At the end of the course Students will be able to)	
1	I/II	200051 Technical English	C101.1	Listen/view and comprehend different Spoken discourses/excerpts in different accents.
			C101.2	Communicate with one or many listeners' using appropriate communicative strategies
			C101.3	Read different genres of texts adopting various reading strategies
			C101.4	write cohesively and coherently and flawlessly avoiding grammatical errors
			C101.5	Enable writing skills to write comprehend passages, report and paragraph
2	I/II	200052 Elementary Mathematics for Engineers	C102.1	Find the Eigen values and Eigen vectors by matrix methods.
			C102.2	Understand different types of sequences of series and their convergence.
			C102.3	Know the concepts of differentiation and integration and applications of indefinite integral.
			C102.4	Form and solve the inequalities by LPP and solve transportation problems.
			C102.5	Understand the concepts of three dimension and form



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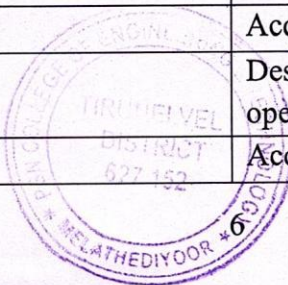
				the equations of tangent plane, cone.
3	I/II	200053 Applied Physics I	C103.1	Understand the properties of different types of metals
			C103.2	Gain knowledge about conductivity of different types of materials
			C103.3	Study about magnetism property of the materials
			C103.4	Know the applications of sound waves in engineering & medicine
			C103.5	Understand the application of laser in engineering & medicine
4	I/II	200054 Applied Chemistry I	C104.1	Do water Treatment for domestic & industrial purpose
			C104.2	Study different kinds of advanced materials and their applications
			C104.3	Study different kinds of polymers & their applications
			C104.4	Basics of thermo dynamics and its concept
			C104.5	Familiar with name materials & their applications in different fields
5	I/II	200055 Engineering Graphics*	C105.1	Perform free hand sketching of basic geometrical shapes and multiple views of objects.
			C105.2	Draw orthographic projections of lines, planes and solids
			C105.3	Obtain development of surfaces.
			C105.4	Prepare isometric and perspective views of simple solids.
			C105.5	Perform free hand sketching of isometric projection
6	I/II	200056 Fundamental Of Computers	C106.1	Know fundamental knowledge on basics of computers and Number System
			C106.2	Work on MS-Office
			C106.3	Write, compile and debug simple programs in data structure in c.
			C106.4	Understand the concept of array in C.
			C106.5	Understand the pointers in C.
7	I/II	200101 Applied Physics & Chemistry Lab I	C107.1	Gain practical knowledge by applying the experimental methods to correlate with physics and chemistry theory.
			C107.2	Gain working knowledge of fundamental Physics and chemistry.
			C107.3	Apply the design process to engineering application.
			C107.4	Use modern engineering techniques and tools, including software and laboratory instrumentation.
			C107.5	Gain knowledge about polymerization



8	I/II	200102 Computer Lab – I	C108.1	Create and edit their own documents
			C108.2	Create and edit sheets and presentations
			C108.3	Understand the functions of data structure.
			C108.4	Write their own programs to solve problems by using c program
			C108.5	Write a script to perform matrix addition
9	I/II	200103 Workshop Practice	C109.1	Fabrication of wooden joints and understand joining of metals.
			C109.2	Identify the basics of tools and equipments used in fitting, carpentry, sheet metal, machine, welding and smithy.
			C109.3	Make metal joints and sheet metal work.
			C109.4	Understand the basics of removal of material from workpiece surface to attain specific shape.
			C109.5	Familiarize with the production of simple models in fitting, carpentry, sheet metal, machine, welding and smithy trades.

PROGRAMME : EEE	DEGREE : EEE	SEMESTER : 02
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S. No	Year/ Sem	Course Name	Course Outcomes(At the end of the course Students will be able to)	
1	I/II	200057 Business Communication and Presentation Skills	C110.1	Understand the concept of Modern trends in DC transmission
			C110.2	Analyze the GRAETZ circuit with and without overlap.
			C110.3	Analyze the Principal of DC Link Control
			C110.4	Understand the Solution of DC load flow P.U. System for D.C.
			C110.5	Analyze the function of filters.
2	I/II	200058 Applied Mathematics I	C111.1	Understand the system load characteristics.
			C111.2	Analyze the forward dynamic programming approach.
			C111.3	Understand the significance of static and transient Response of two area system.
			C111.4	Acquire knowledge on methods of voltage control
			C111.5	Design SCADA and its application for real time operation.
3	I/II	200059	C112.1	Acquire knowledge in Programming of 8085 and 8086



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		Applied Physics II		architecture
			C112.2	Study the need & use of D-to-A converter, A-to-D converter.
			C112.3	Understand the importance of 8051 Instruction set and addressing modes
			C112.4	Explain the CPU Architecture and instruction set.
			C112.5	Develop the Programming in the ARM Processor
4	I/II	200060 Applied Chemistry II	C113.1	Understand about Convolution and Correlation
			C113.2	Perform the FFT algorithms in Linear Filtering and correlation.
			C113.3	Design discrete time IIR filter from analog filter.
			C113.4	Design Filter using windowing techniques.
			C113.5	Design application of DSP Multirate signal processing
5	I/II	200061 Basic Engineering Mechanics	C114.1	Illustrate the vectorial and scalar representation of forces and moments
			C114.2	Evaluate the properties of surfaces and solids
			C114.3	Analyze the different type of motion
			C114.4	Determine the friction and the effects by the laws of friction
			C114.5	Calculate dynamic forces exerted in rigid body
6	I/II	200062 Basic Civil and Mechanical Engineering	C115.1	Explain the usage of construction material and proper selection of construction materials and also measure distances and area by surveying.
			C115.2	Understand the basics of building components and structures.
			C115.3	Understand the basics of Energy Sources and Power Generation
			C115.4	Understand the basics of Energy Sources of Ic Engine.
			C115.5	Acquire the knowledge about various manufacturing processes.
7	I/II	200063 Basic Electrical and Electronics Engineering	C116.1	Solve simple circuits and express the concept of fundamentals of circuits
			C116.2	Express the function of AC fundamentals.
			C116.3	Express the concept of fundamentals of magnetic circuits
			C116.4	Express the function of semiconductor devices.
			C116.5	Develop the truth tables of logic gates.
8	I/II	200104 Applied Physics &	C117.1	Gain practical knowledge by applying the experimental methods to correlate with physics and chemistry theory.
			C117.2	Apply the various procedures and techniques for the experiments.



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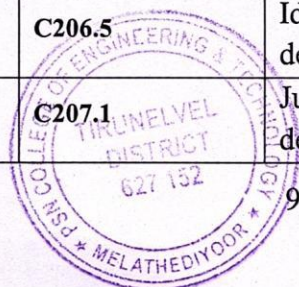
		Chemistry Lab II	C117.3	Apply the various procedures and techniques for the experiments.
			C117.4	Develop basic communication skills through working in groups in performing the laboratory experiments and by interpreting the results.
			C117.5	Use the different measuring devices and meters to record the data with precision.
9	I/II	200105 Computer Lab – II	C118.1	Solve simple problems using C Language
			C118.2	Execute programs using control statements
			C118.3	Handle arrays in C' Programs
			C118.4	Write functions and to solve some complicated problems in C.
			C118.5	Study about the concept of Structures and Unions

PROGRAMME : EEE	DEGREE : EEE	SEMESTER : 03
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S. No	Year/ Sem	Course Name	Course Outcomes(At the end of the course Students will be able to)	
1	II/III	201001 APPLIED MATHEMATICS -II	C201.1	Find the Second order linear differential equations.
			C201.2	Formulate and solve linear differential equations.
			C201.3	Formulate and solve Harmonic analysis.
			C201.4	Choose an appropriate method to solve the Lagrange's linear partial differential equations.
			C201.5	Identify problem evaluation techniques in theory of equation.
2	II/III	204001 ELECTRIC	C202.1	Understand about analysis of Star _Delta transformation.
			C202.2	Analyze the network theorems.



		CIRCUITS AND NETWORKS	C202.3	Perform steady state response of RLC circuits.
			C202.4	Understand the concept of Resonance and coupled circuits.
			C202.5	Gain knowledge on Phase sequence.
3	II/III	204002 ELECTRICAL MACHINES-I	C203.1	Recite and describe the Statically induced EMF and dynamically induced EMF
			C203.2	Interpret the concept of types DC generators and their characteristics
			C203.3	Discuss the concept of types DC motor and their characteristics
			C203.4	Categorize the methods of speed control of DC motor
			C203.5	Describe the working of transformer and also evaluate the efficiency of transformer.
4	II/III	204003 ELECTROMAGNETIC FIELD THEORY	C204.1	Understand the concepts of electrostatics, electrical potential, energy density and their applications.
			C204.2	Understand the concepts of magneto statics, magnetic flux density, scalar and vector potential and its applications.
			C204.3	Understand Faraday's laws, induced EMF and their applications.
			C204.4	Understand the concepts of electromagnetic waves and Pointing vector
			C204.5	Derive Maxwell's, Electromagnetic waves equation and illustrate the behavior of electromagnetic waves.
5	II/III	204004 ELECTRONIC DEVICES AND CIRCUITS	C205.1	Get an idea about diodes and BJT its application.
			C205.2	Attain an exposure about SCR configurations.
			C205.3	Gain an idea about the frequency response of amplifiers and different types of feedback.
			C205.4	Understand of operation of oscillators.
			C205.5	Gain an idea about the Multi-vibrators, Schmitt triggers and Saw tooth oscillators
6	II/III	204005 MEASUREMENTS AND INSTRUMENTATION	C206.1	Understand the measurement of Static and dynamic characteristics.
			C206.2	Explain the operating principles of various energy meters.
			C206.3	Classify the magnetic measurements and testing
			C206.4	Identify different AC and DC Bridge circuits and their functions
			C206.5	Identify the data acquisition system and transducers describe their operating principle and discuss about
7		204101 ELECTRICAL	C207.1	Justify the characteristics of various DC generators depending on the excitation.



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		L MACHINES-I LABORATO RY	C207.2	Perform the experiment for speed control of different types of DC Motors.
			C207.3	Perform test on Motor-Generator Set.
			C207.4	Demonstrate different types of testing in transformer.
			C207.5	Develop the Simulation Model of dc machines
8	II/III	204102 ELECTRONI C CIRCUITS LABORATO RY	C208.1	Operate electronic test equipment and hardware/software tools to create transistor based circuits.
			C208.2	Troubleshoot transistor based circuits by applying the knowledge on them
			C208.3	Work as part of a team and as individual effectively in designing simple circuits
			C208.4	Perform the Characteristics of Clipper ,Clamper using diode
			C208.5	Perform the characteristic of silicon controlled rectifier.
9	II/III	204103 MEASUREM ENTS AND INSTRUMEN TATION LAB	C209.1	Justify the operating principle and characteristics of various sensors.
			C209.2	Apply the procedure to measure the electrical quantities using measuring instruments.
			C209.3	Determine the electrical parameters using different types of Bridges
			C209.4	Demonstrate the function of Transducers and wattmeter.
			C209.5	Perform the calibration test for various meters
10	II/III	201801 ENVIRONME NTAL STUDIES	C210.1	Understand the different Ecological succession and environmental systems.
			C210.2	Know about ecosystems.
			C210.3	Understand the disaster management.
			C210.4	Study and understand the renewable energy resources.
			C210.5	Understand global warming and climate change

PROGRAMME : EEE

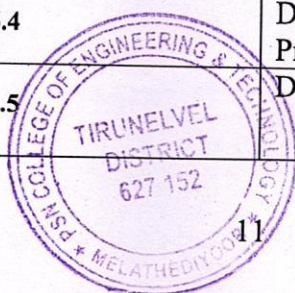
DEGREE : BE

SEMESTER : 04

S. No	Year/ Sem	Course Name	Course Outcomes(At the end of the course Students will be able to)	
1	II/IV	201007 APPLIED	C211.1	Apply Laplace transform for ODE of second order with constant coefficients.
			C211.2	Evaluate the convolution theorem and its application.



		MATHEMATICS – III	C211.3	Solve difference equation by Z- Transform.
			C211.4	Apply PDE in dimensional wave equation.
			C211.5	Understand the concept of logics.
2	II/IV	204007 ELECTRICAL MACHINES - II	C212.1	Explain the alternators test of voltage regulation by EMF MMF, ZPF and A.S.A methods.
			C212.2	Explain the V and inverted V curves of synchronous motor
			C212.3	Discuss the speed control methods of 3 phase induction motor.
			C212.4	Explain the equivalent circuit and circle diagram for IM.
			C212.5	Discuss the principle and testing of Single phase induction motor
3	II/IV	204008 CONTROL SYSTEMS	C213.1	Develop the transfer function of armature controlled and field controlled dc motor
			C213.2	Analyze the P, PI, PD and PID controllers and their response
			C213.3	Analyze the stability of the system using bode plot and polar plot.
			C213.4	Design the lag, lead compensators.
			C213.5	Analyze the stability of systems using Routh Hurwitz criterion
4	II/IV	204009 TRANSMISSION AND DISTRIBUTION	C214.1	Explain the structure of power system
			C214.2	Calculate the value of Transmission line parameters of GMR and GMD
			C214.3	Design and analyze the types of transmission
			C214.4	Discuss the functions of insulators and cables.
			C214.5	Explain the features of substation and grounding Systems
5	II/IV	204010 LINEAR INTEGRATED AND DIGITAL LOGIC CIRCUITS	C215.1	Acquire knowledge in IC fabrication procedure
			C215.2	Acquire knowledge on the equivalent circuit of an Op-Amp, ideal voltage transfer curve, offset error voltages and currents, CMRR, PSRR.
			C215.3	Understand Functional Boolean algebra and logic gate
			C215.4	Study various Flip Flops and Registers
			C215.5	Design MOS and converters Circuits.
6	II/IV	204006 DATA STRUCTURES AND OBJECT ORIENTED PROGRAMMING IN	C216.1	Develop C++ and OOPS basics programs.
			C216.2	Develop Java programs with the concepts inheritance and interfaces
			C216.3	Build Java applications using Operator overloading and Inheritance
			C216.4	Develop Java applications with Stack ADT, Queue and Priority Queue
			C216.5	Develop interactive Java programs using tree function



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		C++		
7	II/IV	204104 ELECTRICAL MACHINES - II LABORATORY	C217.1	Identify various AC machines and measuring instruments
			C217.2	Draw the circle diagram of 3phase induction motor.
			C217.3	Conduct experiments on AC Machines to draw the characteristics.
			C217.4	Determine the regulation of Alternators and compare their performance.
			C217.5	Study the AC starters and its application.
8	II/IV	204105 LINEAR INTEGRATED AND DIGITAL CIRCUITS LABORATORY	C218.1	Familiarize on the applications of Differential amplifiers.
			C218.2	Design the Digital to Analog Converter circuits using Orcad
			C218.3	Understand the basic digital IC operations
			C218.4	Design and implement Multiplexer and De-multiplexer circuits using logic gates
			C218.5	Design and implement the registers
9	II/IV	204106 DATA STRUCTURES AND OBJECT ORIENTED PROGRAMMING LABORATORY	C219.1	Develop Java programs using C++ principles
			C219.2	Develop Java programs with the concepts Prim's and Kruskal's Algorithm
			C219.3	Build Java applications using exceptions and I/O streams
			C219.4	Develop C++ program that uses overloaded functions
			C219.5	Develop interactive Java programs using swings

PROGRAMME : EEE

DEGREE : BE

SEMESTER : 05

S. No	Year/ Sem	Course Name	Course Outcomes(At the end of the course Students will be able to)	
1	III/V	204011 POWER	C301.1	Determine power system parameters based on per unit.
			C301.2	Understand and apply iterative techniques for FDPI

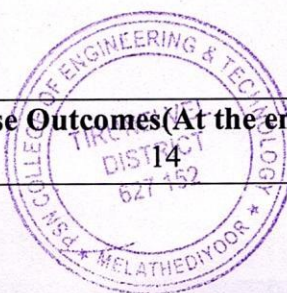
		SYSTEM ANALYSIS		analysis.
			C301.3	Model and carry out short circuit studies on power system
			C301.4	Acquire knowledge on symmetrical and unsymmetrical Fault analysis.
			C301.5	Model and understand various power system components and carry out power flow, short circuit and stability studies
2	III/V	204012 POWER ELECTRONICS	C302.1	Understand the semi-conductor devices TRIAC, SCR, MOSFET, IGBT
			C302.2	Study the switching characteristics semi-conductor devices.
			C302.3	Learn the operation basic topologies of DC-DC switching regulators.
			C302.4	Study the the harmonic reduction methods and the inverters real time applications.
			C302.5	Attain the knowledge about the operation of AC voltage controller, real time application and Matrix converters.
3	III/V	204013 DESIGN OF ELECTRICAL MACHINES	C303.1	Understand Choice of Specific Electrical and Magnetic loadings
			C303.2	Design of commutator and brushes of DC machines.
			C303.3	Design the cooling of Transformers.
			C303.4	Design of squirrel cage and slip ring rotor.
			C303.5	Design and analyze the Computer aided design of transformer
4	III/V	204014 HIGH VOLTAGE ENGINEERING	C304.1	Understand basics of switching overvoltage in EHV and UHV system
			C304.2	Understand the generation and measurements of high voltage engineering
			C304.3	Express the effects of over voltages in power system and Protection methods.
			C304.4	Measure the high impulse current using Rogowski coils current transformer.
			C304.5	Test the circuit breakers, insulators, bushings and surge diverters.
5	III/V	204015 INDUSTRIAL AUTOMATION	C305.1	Understand the Fundamentals of Ladder diagram
			C305.2	Write PLC programs using feedback system
			C305.3	Understand about SCADA Communication in an electrical power system
			C305.4	Understand about SCADA systems in Electric Power Generation
			C305.5	Learn the fundamentals of Distributed Control Systems
6	III/V	209903	C306.1	Analyze the effect of release of toxic substances



		Industrial safety	C306.2	Understand the industrial laws, regulations and source models.
			C306.3	Apply the methods of prevention of fire and explosions.
			C306.4	Understand the relief and its sizing methods.
			C306.5	Understand the methods of hazard identification and preventive measures.
7	III/V	204107 CONTROL SYSTEM LABORATORY	C307.1	Understand the Stability analysis by root locus plot.
			C307.2	Develop MATLAB simulink model
			C307.3	Determine transfer function of AC Servomotor
			C307.4	Know designing of PID controller.
			C307.5	Design of PID Controller for the second order system
8	III/V	204108/E POWER ELECTRONICS LABORATORY	C308.1	Attain practical knowledge in Switching characteristics of SCR
			C308.2	Study the characteristics of power electronics devices.
			C308.3	Attain practical knowledge in IGBT based single phase PWM inverter.
			C308.4	Design of Triggering pulse generation using UJT
			C308.5	Transient characteristics of MOSFET
9	III/V	204802 VALUE EDUCATION, HUMAN RIGHTS AND LEGISLATIVE PROCEDURE	C309.1	Understand duties and responsibilities
			C309.2	Recognize the salient values for life
			C309.3	Study about the concept of human rights
			C309.4	Study the history of human rights and rule of law
			C309.5	Gain good knowledge about the about the Indian business legislation

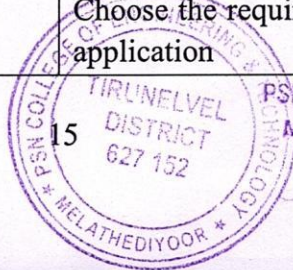
PROGRAMME : EEE	DEGREE : EEE	SEMESTER : 06
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S. No	Year/ Sem	Course Name	Course Outcomes (At the end of the course Students will be able to)
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1	III/VI	204016 HIGH VOLTAGE DC TRANSMIS SION	C310.1	Understand the concept of Modern trends in DC transmission
			C310.2	Analyze the GRAETZ circuit with and without overlap.
			C310.3	Analyze the Principal of DC Link Control
			C310.4	Understand the Solution of DC load flow P.U. System for D.C.
			C310.5	Analyze the function of filters.
2	III/VI	204017 POWER SYSTEM OPERATIO N AND CONTROL	C311.1	Understand the system load characteristics.
			C311.2	Analyze the forward dynamic programming approach.
			C311.3	Understand the significance of static and transient Response of two area system.
			C311.4	Acquire knowledge on methods of voltage control
			C311.5	Design SCADA and its application for real time operation.
3	III/VI	204018 MICROPRO CESSOR AND MICROCO NTROLLER	C312.1	Acquire knowledge in Programming of 8085 and 8086 architecture
			C312.2	Study the need & use of D-to-A converter, A-to-D converter.
			C312.3	Understand the importance of 8051 Instruction set and addressing modes
			C312.4	Explain the CPU Architecture and instruction set.
			C312.5	Develop the Programming in the ARM Processor
4	III/VI	204019 DIGITAL SIGNAL PROCESSI NG	C313.1	Understand about Convolution and Correlation
			C313.2	Perform the FFT algorithms in Linear Filtering and correlation.
			C313.3	Design discrete time IIR filter from analog filter.
			C313.4	Design Filter using windowing techniques.
			C313.5	Design application of DSP Multirate signal processing
5	III/VI	210901 Non Destructive Testing	C314.1	Understand the principle and importance of NDT method.
			C314.2	Understand the basic crack detection method.
			C314.3	Understand the Radiographic testing.
			C314.4	Understand the Ultrasonic testing.
			C314.5	Understand the other methods of NDT.
6	III/VI	204203 COMPUTE	C315.1	Understand the Multiplexing and Spectrum Spreading
			C315.2	Choose the required functionality at each layer for given application

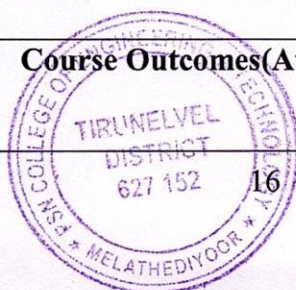


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		R NETWORK S	C315.3	Identify solution for Network layer protocols and Internet Protocol
			C315.4	Trace the flow of information from one node to another node in the network
			C315.5	Learn about the standard client server protocols of WWW and HTTP.
7	III/VI	204108 MICRO PROCESSOR AND MICRO CONTROLLER LABORATORY	C316.1	Write Programs for Sorting and Searching operations using 8085 Microprocessor kit
			C316.2	Interface Stepper motor with 8051 Microcontroller
			C316.3	Generate waveforms using Microprocessors
			C316.4	Write the programming UART operations in 8051 Microcontroller
			C316.5	Explain the difference between simulator and Emulator
8	III/VI	204109 ENGLISH LANGUAGE LAB FOR ENGINEERS	C317.1	Communicate using right pronunciation.
			C317.2	Communicate with one or many listeners' using appropriate communicative strategies.
			C317.3	Write cohesively and coherently and flawlessly avoiding grammatical errors
			C317.4	Acquire through knowledge in Technical writing skills.
			C317.5	Acquire knowledge to enhance communication skills
9	III/VI	204110 POWER SYSTEM AND AUTOMATION LABORATORY	C319.1	Calculate the y-bus and z-bus of transmission system
			C319.2	Solve Load flow and related problems using Gauss - seidel method
			C319.3	Model and carry out short circuit studies on power system
			C319.4	Perform Power Flow analysis using MATLAB and Power World Simulator.
			C319.5	Obtain Parameters of a 345 kV Transmission Line and Modeling it in PSCAD.

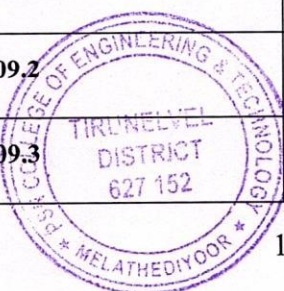
PROGRAMME : EEE	DEGREE : BE	SEMESTER : 07
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S.	Year/ Sem	Course	Course Outcomes(At the end of the course Students will be able to)
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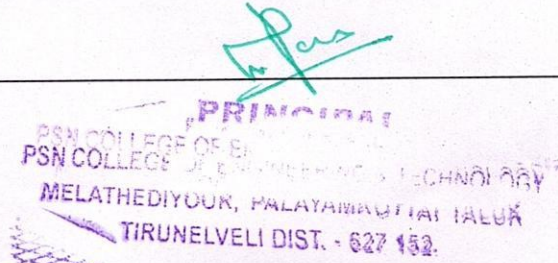


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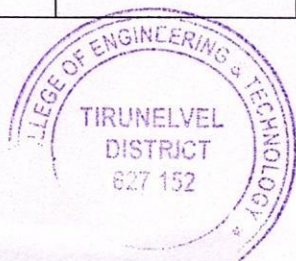
No		Name		
1	IV/VII	204020 SOLID STATE DRIVES	C401.1	Express the load torque characteristics of various drives.
			C401.2	Express the operation of Steady state analysis of the single and three phase fully controlled converter.
			C401.3	Express the operation of Converter selection and characteristics.
			C401.4	Study the slip power recovery schematic control of rotor resistance using DC chopper.
			C401.5	Express the function of Cyclo converter fed synchronous motors.
2	IV/VII	204021 RENEWABLE ENERGY SOURCES	C402.1	Describe the components of a WECS
			C402.2	Analysis the aerodynamics forces acting on the blade
			C402.3	Explain the function of wind and ocean based power generation and its application
			C402.4	Discuss the importance and function of Hydrogen: Storage, Transportation
			C402.5	Describe the Method of OTEC power generation
3	IV/VII	204022 SPECIAL ELECTRIC AL MACHINE S	C403.1	Acquire the knowledge on Closed loop control of stepping motor.
			C403.2	Acquire the knowledge on Microprocessor based control of SRM Drive.
			C403.3	Acquire the knowledge on construction and operation of permanent magnet brushless D.C. motors.
			C403.4	Acquire the knowledge on phasor diagram of permanent magnet synchronous motors.
			C403.5	Select a special Machine for a particular application
4	IV/VII	204023 PROTECTI ON AND SWITCHG EAR	C404.1	Explain the purposes of CTs and PTs and their applications in protection schemes.
			C404.2	Explain the purposes of micro-processor based over current relay.
			C404.3	Analyze and compare specified protection systems
			C404.4	Study the physics of arc phenomena and arc interruption.
			C404.5	Compare the different type of circuit breakers performance based on which selection of circuit breaker can be made for a given application
5	IV/VII	204024 EMBEDDE D SYSTEM DESIGN	C409.1	Acquire knowledge in Instruction set for Assembly language.
			C409.2	Acquire knowledge in Memory and I/O devices and interfacing.
			C409.3	Get knowledge in various techniques of inter facing between processors & peripheral device related to



				embedded processing.
			C409.4	Gain knowledge in the concepts of systems programming, assembler compilers and management task.
			C409.5	Understand the programs for interfacing the Elevator controller
6	IV/VII	204210 FLEXIBLE AC TRANSMISSION SYSTEMS	C406.1	Understand the Static Compensator (STATCOM) and Unified Power Flow controller (UPFC)
			C406.2	Understand the application of SVC
			C406.3	Understand the application of TCSC
			C406.4	Analyze the modeling of UPFC for power flow studies and application of SSSC
			C406.5	Analyze the FACTS controllers interactions
7	IV/VII	204803 ENERGY STUDIES	C409.1	Understand the renewable energy source and non-renewable energy source
			C409.2	Express the concept of energy source conversion.
			C409.3	Express the concept of depletion of energy resources and its impact on economy
			C409.4	Understand the sector wise energy consumption.
			C409.5	Understand energy conversion act
8	IV/VII	204111 POWER SYSTEM SIMULATION ON LABORATORY	C407.1	Calculate the displacement power factor, power factor and the total harmonic distortion.
			C407.2	Analyse the effect of sudden short - circuit on synchronous generator output
			C407.3	Find Symmetric and Unsymmetrical fault
			C407.4	Simulate the economic dispatch problem using Power World simulator.
			C407.5	Study the dynamic interaction between two control areas using Simulink modelling
9	IV/VII	204112 ELECTRICAL ESTIMATION, COSTING AND POWER WIRING LABORATORY	C408.1	Estimate the costing and quantity of materials required for Street Light service having 12 lamp light fitting
			C408.2	Study on testing of Wiring Installation.
			C408.3	Estimate the costing and quantity of materials required for Irrigation Pump motor (5hp) wiring.
			C408.4	Study on Conventional Symbols for various Wiring Items and Accessories
			C408.5	Study on earthing and testing of installation.



PROGRAMME : EEE			DEGREE : BE		SEMESTER : 08
S. No	Year/Sem	Course Name	Course Outcomes(At the end of the course Students will be able to)		
1	IV/VIII	204025 CONSERVATION AND UTILISATION OF ELECTRICAL ENERGY	C411.1	Understand the energy management and energy auditing.	
			C411.2	Get the knowledge on Principle and design of lamp systems.	
			C411.3	Express the concepts of welding transformer and its characteristics.	
			C411.4	Express about Electric traction systems and their performance.	
			C411.5	Understand the concepts of Refrigeration and air conditioning	
2	IV/VIII	204214 SMART GRID	C412.1	Explain the diverse perspectives from experts and global Smart Grid initiatives.	
			C412.2	Explain communication infrastructure of smart grid.	
			C412.3	Explain the Advanced Metering infrastructure (AMI) drivers and benefits	
			C412.4	Explain power quality issues of grid connected renewable energy sources.	
			C412.5	Study the basics of Web Service and cloud Computing to make Smart Grids smarter.	
3	IV/VIII	204218 POWER ELECTRONIC APPLICATIONS IN POWER SYSTEM	C413.1	Study the principles of series and shunt compensation	
			C413.2	Appreciate the effect of compensation of using different controllers in the practical systems.	
			C413.3	Understand the capacitor commutated converters for HVDC systems	
			C413.4	Study the voltage source converter	
			C413.5	Study the advantages of the Chain Circuit STATCOM.	
4	IV/VIII	204301 PROJECT WORK	C414.1	Demonstrate a sound technical knowledge of their selected project topic.	
			C414.2	Undertake problem identification, formulation and solution.	
			C414.3	Design engineering solutions to complex problems utilizing a systems approach.	
			C414.4	Conduct an engineering project	
			C414.5	Communicate with engineers and the community at large in written and oral forms.	



5. CO – PO & CO – PSO MAPPING:

CORRELATION LEVELS:

1: Slight (Low)

2: Moderate (Medium)

3: Substantial (High)

0: No Correlation

YEAR/SEM: I/I

SUBJECT	200051 & Technical English													
COURSE COUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C101.1	1	1	1	0	0	1	0	0	0	0	0	0	0	0
C101.2	1	1	1	2	0	1	0	0	0	2	0	0	0	1
C101.3	2	2	1	1	0	0	0	0	0	0	0	0	0	0
C101.4	2	2	1	1	1	1	1	0	1	1	0	0	0	0
C101.5	2	1	1	1	1	0	0	0	0	0	0	0	0	0
C101	1.6	1.4	1	1.25	1	1	1	0	1	1.5	0	0	0	1
PO ATTAINMENT	1.15	1.01	1.44	0.90	1.44	1.44	1.44	0	1.44	1.08	0	0	0	1.44

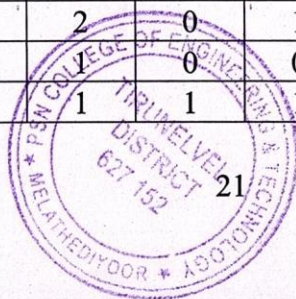


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SUBJECT	200052 & Elementary Mathematics for Engineer													
COURSE COUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C102.1	1	1	1	0	0	1	0	0	0	0	0	0	0	0
C102.2	1	1	1	2	0	1	0	0	0	2	0	0	0	1
C102.3	2	2	1	1	0	0	0	0	0	0	0	0	0	0
C102.4	2	2	1	1	1	1	1	0	1	1	0	0	0	0
C102.5	2	1	1	1	1	0	0	0	0	0	0	0	0	0
C102	1.6	1.4	1	1.25	1	1	1	0	1	1.5	0	0	0	1
PO ATTAINMENT	1.13	0.99	1.41	0.88	1.41	1.41	1.41	0	1.41	1.06	0	0	0	1.41

SUBJECT	200053 & Applied Physics-I													
COURSE COUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C103.1	1	1	1	0	0	1	0	0	0	0	0	0	0	0
C103.2	1	1	1	2	0	1	0	0	0	2	0	0	0	1
C103.3	2	2	1	1	0	0	0	0	0	0	0	0	0	0
C103.4	2	2	1	1	1	1	1	0	1	1	0	0	0	0
C103.5	2	1	1	1	1	0	0	0	0	0	0	0	0	0
C103	1.6	1.4	1	1.25	1	1	1	0	1	1.5	0	0	0	1
PO ATTAINMENT	0.62	0.54	0.77	0.48	0.77	0.77	0.77	0	0.77	0.58	0	0	0	0.77

SUBJECT	200054 & Applied Chemistry-I													
COURSE COUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C104.1	1	1	1	0	0	1	0	0	0	0	0	0	0	0
C104.2	1	1	1	2	0	1	0	0	0	2	0	0	0	1
C104.3	2	2	1	1	0	0	0	0	0	0	0	0	0	0
C104.4	2	2	1	1	1	1	1	0	1	1	0	0	0	0



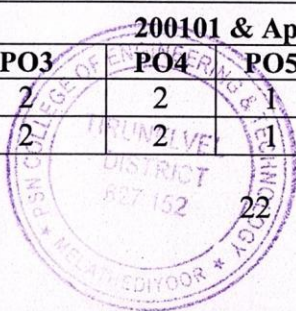
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C104.5	2	1	1	1	1	0	0	0	0	0	0	0	0	0
C104	1.6	1.4	1	1.25	1	1	1	0	1	1.5	0	0	0	1
PO ATTAINMENT	1.13	0.99	1.41	0.88	1.41	1.41	1.41	0	1.41	1.06	0	0	0	1.41

SUBJECT	200055 & Engineering Graphics													
COURSE COUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C105.1	1	1	1	0	0	1	0	0	0	0	0	0	0	0
C105.2	1	1	1	2	0	1	0	0	0	2	0	0	0	1
C105.3	2	2	1	1	0	0	0	0	0	0	0	0	0	0
C105.4	2	2	1	1	1	1	1	0	1	1	0	0	0	0
C105.5	2	1	1	1	1	0	0	0	0	0	0	0	0	0
C105	1.6	1.4	1	1.25	1	1	1	0	1	1.5	0	0	0	1
PO ATTAINMENT	0.59	0.52	0.74	0.46	0.74	0.74	0.74	0	0.74	0.56	0	0	0	0.74

SUBJECT	200056 & Fundamentals of Computers													
COURSE COUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C106.1	1	1	1	0	0	1	0	0	0	0	0	0	0	0
C106.2	1	1	1	2	0	1	0	0	0	2	0	0	0	1
C106.3	2	2	1	1	0	0	0	0	0	0	0	0	0	0
C106.4	2	2	1	1	1	1	1	0	1	1	0	0	0	0
C106.5	2	1	1	1	1	0	0	0	0	0	0	0	0	0
C106	1.6	1.4	1	1.25	1	1	1	0	1	1.5	0	0	0	1
PO ATTAINMENT	0.90	0.78	1.12	0.70	1.12	1.12	1.12	0	1.12	0.84	0	0	0	1.12

SUBJECT	200101 & Applied Physics and Chemistry Lab I													
COURSE COUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C107.1	3	2	2	2	1	3	3	2	2	2	1	0	0	0
C107.2	3	2	2	2	1	3	3	2	2	2	1	0	0	0



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C107.3	3	2	2	2	1	3	3	2	2		1	0	0
C107.4	3	2	2	2	1	3	3	2	2		1	0	0
C107.5	3	2	2	2	1	3	3	2	2		1	0	0
C107	3	2	2	2	1	3	3	2	2	0	1	0	0
PO ATTAINMENT	3.00	2.00	2.00	2.00	1.00	3.00	3.00	2.00	2.00	-	1.00	-	-

200103 & Workshop Practice													
SUBJECT	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO11	PO12	PSO1	PSO2
COURSE COUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO11	PO12	PSO1	PSO2
C109.1	3	1	2		3	2	2	1	1	1	-	0	0
C109.2	3	1	2	1	3	2	2	1	1	-	2	0	0
C109.3	3	1	2	1	3	2	2	1	1	-	-	0	0
C109.4	3	1	2	1	3	2	2	1	1	1	2	0	0
C109.5	3	1	2		3	2	2	1	1	1	2	0	0
C109	3	1	2	1	3	2	2	1	1	1	2	0	0
PO ATTAINMENT	3.00	1.00	2.00	1.00	3.00	2.00	2.00	1.00	1.00	1.00	2.00	-	-

200102 & Computer Lab I													
SUBJECT	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO11	PO12	PSO1	PSO2
COURSE COUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO11	PO12	PSO1	PSO2
C108.1	3	3	1	2	3	1	1	3	1	1	1	0	0
C108.2	3	3	1	2	3		1	3	1		1	0	0
C108.3	3	3	1	2	3	1	1	3	1	1	1	0	0
C108.4	3	3	1	2	3	1	1	3			1	0	0
C108.5	3	1	2	2			1		2	3	3	0	0
C108	3	2.6	1.2	2	3	1	1	3	1.25	1.66	1.4	0	0
PO ATTAINMENT	3.00	2.60	1.20	2.00	3.00	1.00	1.00	3.00	1.25	1.67	1.40	-	-



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YEAR/SEM: I/II

SUBJECT	200057 & Business Communication and Presentation Skills													
COURSE COUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C110.1	1	1	1	0	0	1	0	0	0	0	0	0	0	0
C110.2	1	1	1	2	0	1	0	0	0	2	0	0	0	1
C110.3	2	2	1	1	0	0	0	0	0	0	0	0	0	0
C110.4	2	2	1	1	1	1	1	0	1	1	0	0	0	0
C110.5	2	1	1	1	1	0	0	0	0	0	0	0	0	0
C110	1.6	1.4	1	1.25	1	1	1	0	1	1.5	0	0	0	1
PO ATTAINMENT	1.20	1.05	1.50	0.94	1.50	1.50	1.50	0	1.50	1.13	0	0	0	1.50

SUBJECT	200058 & Applied Mathematics I													
COURSE COUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C111.1	1	1	1	0	0	1	0	0	0	0	0	0	0	0
C111.2	1	1	1	2	0	1	0	0	0	2	0	0	0	1
C111.3	2	2	1	1	0	0	0	0	0	0	0	0	0	0
C111.4	2	2	1	1	1	1	1	0	1	1	0	0	0	0
C111.5	2	1	1	1	1	0	0	0	0	0	0	0	0	0
C111	1.6	1.4	1	1.25	1	1	1	0	1	1.5	0	0	0	1
PO ATTAINMENT	0.88	0.77	1.11	0.69	1.11	1.11	1.11	0	1.11	0.83	0	0	0	1.11

SUBJECT	200059 & Applied Physics II													
COURSE COUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C112.1	1	1	1	0	0	1	0	0	0	0	0	0	0	0
C112.2	1	1	1	2	0	1	0	0	0	2	0	0	0	1
C112.3	2	2	1	1	0	0	0	0	0	0	0	0	0	0
C112.4	2	2	1	1	1	1	1	0	1	1	0	0	0	0
C112.5	2	1	1	1	1	0	0	0	0	0	0	0	0	0
C112	1.6	1.4	1	1.25	1	1	1	0	1	1.5	0	0	0	1
PO ATTAINMENT	1.15	1.01	1.44	0.90	1.44	1.44	1.44	0	1.44	1.08	0	0	0	1.44

SUBJECT	200060 & Applied Chemistry II													
COURSE COUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	POI1	PO12	PSO1	PSO2
C113.1	1	1	1	0	0	1	0	0	0	0	0	0	0	0
C113.2	1	1	1	2	0	1	0	0	0	2	0	0	0	1
C113.3	2	2	1	1	0	0	0	0	0	0	0	0	0	0
C113.4	2	2	1	1	1	1	1	0	1	1	0	0	0	0
C113.5	2	1	1	1	1	0	0	0	0	0	0	0	0	0
C113	1.6	1.4	1	1.25	1	1	1	0	1	1.5	0	0	0	1
PO ATTAINMENT	0.58	0.51	0.73	0.46	0.73	0.73	0.73	0	0.73	0.55	0	0	0	0.73

SUBJECT	200061 & Basic Engineering Mechanics													
COURSE COUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	POI1	PO12	PSO1	PSO2
C114.1	1	1	1	0	0	1	0	0	0	0	0	0	0	0
C114.2	1	1	1	2	0	1	0	0	0	2	0	0	0	1
C114.3	2	2	1	1	0	0	0	0	0	0	0	0	0	0
C114.4	2	2	1	1	1	1	1	0	1	1	0	0	0	0
C114.5	2	1	1	1	1	0	0	0	0	0	0	0	0	0
C114	1.6	1.4	1	1.25	1	1	1	0	1	1.5	0	0	0	1
PO ATTAINMENT	0.59	0.52	0.74	0.46	0.74	0.74	0.74	0	0.74	0.56	0	0	0	0.74

SUBJECT	200062 & Basic Civil and Mechanical Engineering													
COURSE COUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	POI1	PO12	PSO1	PSO2
C115.1	1	1	1	0	0	1	0	0	0	0	0	0	0	0
C115.2	1	1	1	2	0	1	0	0	0	2	0	0	0	1
C115.3	2	2	1	1	0	0	0	0	0	0	0	0	0	0
C115.4	2	2	1	1	1	1	1	0	1	1	0	0	0	0
C115.5	2	1	1	1	1	0	0	0	0	0	0	0	0	0
C115	1.6	1.4	1	1.25	1	1	1	0	1	1.5	0	0	0	1
PO ATTAINMENT	0.62	0.54	0.77	0.48	0.77	0.77	0.77	0	0.77	0.58	0	0	0	0.77

200063 & Basic Electrical and Electronics Engineering														
SUBJECT	PO 1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
COURSE COUTCOME														
C116.1	1	1	1	0	0	1	0	0	0	0	0	0	0	1
C116.2	1	1	1	2	0	1	0	0	0	2	0	0	0	0
C116.3	2	2	1	1	0	0	0	0	0	0	0	0	0	0
C116.4	2	2	1	1	1	1	1	0	1	1	0	0	0	0
C116.5	2	1	1	1	1	0	0	0	0	0	0	0	0	0
C116	1.6	1.4	1	1.25	1	1	1	0	1	1.5	0	0	0	1
PO ATTAINMENT	0.87	0.76	1.09	0.68	1.09	1.09	1.09	0	1.09	0.82	0	0	0	1.09

SUBJECT	200104 & Applied Physics & Chemistry II lab												
COURSE COUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO11	PO12	PSO1	PSO2
C117.1	3	2		2	3			3			1	0	0
C117.2	2	3	2	2	3		2	3			1	0	0
C117.3	3	2	2	2	3			3			1	0	1
C117.4	1	1	2	2	3			3			1	1	0
C117.5	3	2	2	2		2			2	3	3	0	0
C117	2.4	2	2	2	3	2	2	3	2	3	1.4	1	1
PO ATTAINMENT	2.40	2.00	2.00	2.00	3.00	2.00	2.00	3.00	2.00	3.00	1.40	1.00	1.00

200105 & Computer Lab II													
SUBJECT													
COURSE COUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO11	PO12	PSO1	PSO2
C118.1	3	3	2	2	3			3			1	0	0
C118.2	3	3	0	2	3		2	3			1	0	0
C118.3	3	3	0	2	3			3			1	0	0
C118.4	3	3	0	2	3			3			1	1	0
C118.5	3	2	2	2	3	2			2	3	3	0	0



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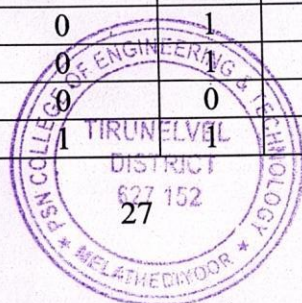
C118	3	2.8	2	2	3	2	2	3	2	3	1.4	1	0
PO ATTAINMENT	3.00	2.80	2.00	2.00	3.00	2.00	2.00	3.00	2.00	3.00	1.40	1.00	-

YEAR/SEM: II/III

SUBJECT	201001 & Applied Mathematics-II													
COURSE COUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C201.1	1	1	1	0	0	1	0	0	0	0	0	0	0	0
C201.2	1	1	1	2	0	1	0	0	0	2	0	0	0	1
C201.3	2	2	1	1	0	0	0	0	0	0	0	0	0	0
C201.4	2	2	1	1	1	1	1	0	1	1	0	0	0	0
C201.5	2	1	1	1	1	0	0	0	0	0	0	0	0	0
C201	1.6	1.4	1	1.25	1	1	1	0	1	1.5	0	0	0	1
PO ATTAINMENT	0.63	0.55	0.79	0.49	0.79	0.79	0.79	0	0.79	0.59	0	0	0	0.79

SUBJECT	204001 & Electrical Circuits & Networks(Practical Components)													
COURSE COUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C202.1	1	1	1	0	0	1	0	0	0	0	0	0	0	0
C202.2	1	1	1	2	0	1	0	0	0	2	0	0	0	1
C202.3	2	2	1	1	0	0	0	0	0	0	0	0	0	0
C202.4	2	2	1	1	1	1	1	0	1	1	0	0	0	0
C202.5	2	1	1	1	1	0	0	0	0	0	0	0	0	0
C202	1.6	1.4	1	1.25	1	1	1	0	1	1.5	0	0	0	1
PO ATTAINMENT	0.92	0.81	1.15	0.72	1.15	1.15	1.15	0	1.15	0.86	0	0	0	1.15

SUBJECT	204002 & Electrical Machines -I													
COURSE COUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C203.1	1	1	1	0	0	1	0	0	0	0	0	0	0	0
C203.2	1	1	1	2	0	1	0	0	0	2	0	0	0	1
C203.3	2	2	1	1	0	0	0	0	0	0	0	0	0	0
C203.4	2	2	1	1	1	1	1	0	1	1	0	0	0	0



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C203.5	2	1	1	1	1	0	0	0	0	0	0	0	0	0
C203	1.6	1.4	1	1.25	1	1	1	0	1	1.5	0	0	0	1
PO ATTAINMENT	0.92	0.81	1.15	0.72	1.15	1.15	1.15	0	1.15	0.86	0	0	0	1.15

SUBJECT	204003 & Electromagnetic Field theory													
COURSE COUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C204.1	1	1	1	0	0	1	0	0	0	0	0	0	0	0
C204.2	1	1	1	2	0	1	0	0	0	2	0	0	0	1
C204.3	2	2	1	1	0	0	0	0	0	0	0	0	0	0
C204.4	2	2	1	1	1	1	1	0	1	1	0	0	0	0
C204.5	2	1	1	1	1	0	0	0	0	0	0	0	0	0
C204	1.6	1.4	1	1.25	1	1	1	0	1	1.5	0	0	0	1
PO ATTAINMENT	0.92	0.81	1.15	0.72	1.15	1.15	1.15	0	1.15	0.86	0	0	0	1.15

SUBJECT	204004 & Electronic Devices and Circuits													
COURSE COUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C205.1	1	1	1	0	0	1	0	0	0	0	0	0	0	0
C205.2	1	1	1	2	0	1	0	0	0	2	0	0	0	1
C205.3	2	2	1	1	0	0	0	0	0	0	0	0	0	0
C205.4	2	2	1	1	1	1	1	0	1	1	0	0	0	0
C205.5	2	1	1	1	1	0	0	0	0	0	0	0	0	0
C205	1.6	1.4	1	1.25	1	1	1	0	1	1.5	0	0	0	1
PO ATTAINMENT	0.90	0.78	1.12	0.70	1.12	1.12	1.12	0	1.12	0.84	0	0	0	1.12

SUBJECT	204005 & Measurements and Instrumentation													
COURSE COUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C206.1	1	1	1	0	0	1	0	0	0	0	0	0	0	0
C206.2	1	1	1	2	0	1	0	0	0	2	0	0	0	1
C206.3	2	2	1	1	0	0	0	0	0	0	0	0	0	0



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C206.4	2	2	1	1	1	1	1	0	1	1	0	0	0	0
C206.5	2	1	1	1	1	0	0	0	0	0	0	0	0	0
C206	1.6	1.4	1	1.25	1	1	1	0	1	1.5	0	0	0	1
PO ATTAINMENT	0.64	0.56	0.80	0.50	0.80	0.80	0.80	0	0.80	0.60	0	0	0	0.80

204101 & Electrical Machines I lab													
SUBJECT	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO11	PO12	PSO1	PSO2
COURSE COUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO11	PO12	PSO1	PSO2
C207.1	3	2	2	3	-	-	-	-	3	2	2	3	2
C207.2	3	2	2	3	-	2	2	-	3	2	2	3	2
C207.3	3	2	2	3	-	2	2	-	3	2	2	3	2
C207.4	3	2	2	3		1	2	2	3	2	2	3	2
C207.5	3	2	2	3	2	-	-	1	3	2	2	3	2
C207	3	2	2	3	2	1.666667	2	1.5	3	2	2	3	2
PO ATTAINMENT	3.00	2.00	2.00	3.00	2.00	1.67	2.00	1.50	3.00	2.00	2.00	3.00	2

204102 & Electronic Circuits lab													
SUBJECT	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO11	PO12	PSO1	PSO2
COURSE COUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO11	PO12	PSO1	PSO2
C208.1	3	3	2	2	2	-	-	-	2	-	2	1	1
C208.2	3	3	3	3	2	2	2	-	1	2	2	1	1
C208.3	3	3	2	2	2	2	-	2	-	-	2	1	1
C208.4	2	3	2	2	2	2	-	2	-	2	2	1	1
C208.5	3	3	2	2	2	1	-	-	-	-	2	2	2
C208	2.8	3	2.2	2.2	2	1.75	2	2	1.5	2	2	1.2	1.2
PO ATTAINMENT	2.80	3.00	2.20	2.20	2.00	1.75	2.00	2.00	1.50	2.00	2.00	1.20	0.00



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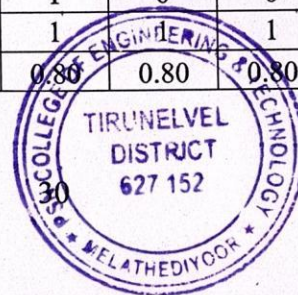
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SUBJECT	204103 & Measurements and Instrumentation lab												
COURSE COUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO11	PO12	PSO1	PSO2
C209.1	3	2	2	2	-	-	1	-	3	3	2	1	1
C209.2	3	2	2	-	2	-	2	1	3	3	2	1	1
C209.3	3	3	2	1	2	2	-	-	3	3	2	1	1
C209.4	3	2	2	2	2	-	-	3	3	3	2	1	1
C209.5	3	3	2	2	-	-	3	-	3	3	2	2	2
C209	3	2.4	2	1.75	2	2	2	2	3	3	2	1.2	1.2
PO ATTAINMENT	3.00	2.40	2.00	1.75	2.00	2.00	2.00	2.00	3.00	3.00	2.00	1.20	0.00

SUBJECT	201801 & Environmental Studies													
COURSE COUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C210.1	1	1	1	0	0	1	0	0	0	0	0	0	0	0
C210.2	1	1	1	2	0	1	0	0	0	2	0	0	0	1
C210.3	2	2	1	1	0	0	0	0	0	0	0	0	0	0
C210.4	2	2	1	1	1	1	1	0	1	1	0	0	0	0
C210.5	2	1	1	1	1	0	0	0	0	0	0	0	0	0
C210	1.6	1.4	1	1.25	1	1	1	0	1	1.5	0	0	0	1
PO ATTAINMENT	0.90	0.79	1.13	0.70	1.13	1.13	1.13	0	1.13	0.84	0	0	0	1.13

YEAR/SEM: II/IV

SUBJECT	201007 & Applied Mathematics III													
COURSE COUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C211.1	1	1	1	0	0	1	0	0	0	0	0	0	0	0
C211.2	1	1	1	2	0	1	0	0	0	2	0	0	0	1
C211.3	2	2	1	1	0	0	0	0	0	0	0	0	0	0
C211.4	2	2	1	1	1	1	1	0	1	1	0	0	0	0
C211.5	2	1	1	1	1	0	0	0	0	0	0	0	0	0
C211	1.6	1.4	1	1.25	1	1	1	0	1	1.5	0	0	0	1
PO ATTAINMENT	0.64	0.56	0.80	0.50	0.80	0.80	0.80	0	0.80	0.60	0	0	0	0.80

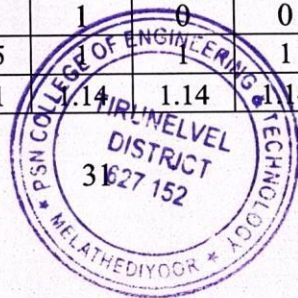


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SUBJECT	204007 & Electrical Machines II													
COURSE COUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO1 0	POI I	PO12	PSO 1	PSO2
C212.1	1	1	1	0	0	1	0	0	0	0	0	0	0	0
C212.2	1	1	1	2	0	1	0	0	0	2	0	0	0	1
C212.3	2	2	1	1	0	0	0	0	0	0	0	0	0	0
C212.4	2	2	1	1	1	1	1	0	1	1	0	0	0	0
C212.5	2	1	1	1	1	0	0	0	0	0	0	0	0	0
C212	1.6	1.4	1	1.25	1	1	1	0	1	1.5	0	0	0	1
PO ATTAINMENT	0.64	0.56	0.80	0.50	0.80	0.80	0.80	0	0.80	0.60	0	0	0	0.80

SUBJECT	204008 & Control System													
COURSE COUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO1 0	POI I	PO12	PSO1	PSO2
C213.1	1	1	1	0	0	1	0	0	0	0	0	0	0	0
C213.2	1	1	1	2	0	1	0	0	0	2	0	0	0	1
C213.3	2	2	1	1	0	0	0	0	0	0	0	0	0	0
C213.4	2	2	1	1	1	1	1	0	1	1	0	0	0	0
C213.5	2	1	1	1	1	0	0	0	0	0	0	0	0	0
C213	1.6	1.4	1	1.25	1	1	1	0	1	1.5	0	0	0	1
PO ATTAINMENT	0.64	0.56	0.80	0.50	0.80	0.80	0.80	0	0.80	0.60	0	0	0	0.80

SUBJECT	204009 & Transmission and Distribution													
COURSE COUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO1 0	POI I	PO12	PSO1	PSO2
C214.1	1	1	1	0	0	1	0	0	0	0	0	0	0	0
C214.2	1	1	1	2	0	1	0	0	0	2	0	0	0	1
C214.3	2	2	1	1	0	0	0	0	0	0	0	0	0	0
C214.4	2	2	1	1	1	1	1	0	1	1	0	0	0	0
C214.5	2	1	1	1	1	0	0	0	0	0	0	0	0	0
C214	1.6	1.4	1	1.25	1	1	1	0	1	1.5	0	0	0	1
PO ATTAINMENT	0.91	0.80	1.14	0.71	1.14	1.14	1.14	0	1.14	0.86	0	0	0	1.14

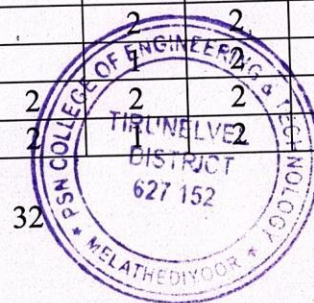


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SUBJECT	204010 & Linear Integrated and Digital Logic Circuits													
COURSE COUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C215.1	1	1	1	0	0	1	0	0	0	0	0	0	0	0
C215.2	1	1	1	2	0	1	0	0	0	2	0	0	0	1
C215.3	2	2	1	1	0	0	0	0	0	0	0	0	0	0
C215.4	2	2	1	1	1	1	1	0	1	1	0	0	0	0
C215.5	2	1	1	1	1	0	0	0	0	0	0	0	0	0
C215	1.6	1.4	1	1.25	1	1	1	0	1	1.5	0	0	0	1
PO ATTAINMENT	0.90	0.79	1.13	0.70	1.13	1.13	1.13	0	1.13	0.84	0	0	0	1.13

SUBJECT	204006 & Data Structures and Object Oriented Programming in C++													
COURSE COUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C216.1	1	1	1	0	0	1	0	0	0	0	0	0	0	0
C216.2	1	1	1	2	0	1	0	0	0	2	0	0	0	1
C216.3	2	2	1	1	0	0	0	0	0	0	0	0	0	0
C216.4	2	2	1	1	1	1	1	0	1	1	0	0	0	0
C216.5	2	1	1	1	1	0	0	0	0	0	0	0	0	0
C216	1.6	1.4	1	1.25	1	1	1	0	1	1.5	0	0	0	1
PO ATTAINMENT	1.20	1.05	1.50	0.94	1.50	1.50	1.50	0	1.50	1.13	0	0	0	1.50

SUBJECT	204104 & Electrical Machines II lab													
COURSE COUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C217.1	3	-	2	-	2	-	-	-	3	3	1	3	2	2
C217.2	3	2	2	0	2	2	2	2	3	3	1	3	2	2
C217.3	3	1	2	2	2	2	2	2	3	3	1	3	2	2
C217.4	3	2	2	1	2	2	2	2	3	3	1	3	2	2
C217.5	3	3	2	2	2	2	2	2	3	3	1	3	2	2



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C217	3	2	2	1.666667	2	1.5	2	2	3	3	1	3	2
PO ATTAINMENT	3.00	2.00	2.00	1.67	2.00	1.50	2.00	2.00	3.00	3.00	1.00	3.00	2.00

SUBJECT	204105 & Linear Integrated and Digital Circuits Laboratory												
COURSE COUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	POII	PO12	PSO1	PSO2
C218.1	3	3	3	2	-	-	-	2	-	-	2		
C218.2	2	2	2	-	-	-	2	-	-	-	1		
C218.3	3	2	3	2	2	2	-	-	1	-	2	1	
C218.4	2	3	2	2	-	-	-	-	-	2	2		1
C218.5	3	3	2	2	2	1	-	-	-	-	2		
C218	2.6	2.6	2.4	2	2	1.5	2	2	1	2	1.8	0.2	0.2
PO ATTAINMENT	2.60	2.60	2.40	2.00	2.00	1.50	2.00	2.00	1.00	2.00	1.80	0.20	0.00

SUBJECT	204106 & Data Structures and Object Oriented Programming Laboratory												
COURSE COUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	POII	PO12	PSO1	PSO2
C219.1	3	2	0	2	-	-	-	-	2	1	2		
C219.2	3	2	0	2	2	-	-	-	2	1	2		
C219.3	3	2	3	2	-	-	2	1	2	1	2	1	
C219.4	3	2	2	2	-	2	-	2	2	2	2		
C219.5	3	3	1	2	-	1	2	2	2	2	2		1
C219	3	2.2	2	2	2	1.5	2	1.666667	2	1.4	2	0.2	0.2
PO ATTAINMENT	3.00	2.20	2.00	2.00	2.00	1.50	2.00	1.67	2.00	1.40	2.00	0.20	0.00

YEAR/SEM: III/V

YEAR/SEM: III/IV														
204011 & Power System Analysis														
SUBJECT														
COURSE COUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C301.1	1	1	1	0	0	1	0	0	0	0	0	0	0	0
C301.2	1	1	1	2	0	1	0	0	0	2	0	0	0	1



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C301.3	2	2	1	1	0	0	0	0	0	0	0	0	0	0
C301.4	2	2	1	1	1	1	1	0	1	1	0	0	0	0
C301.5	2	1	1	1	1	0	0	0	0	0	0	0	0	0
C301	1.6	1.4	1	1.25	1	1	1	0	1	1.5	0	0	0	1
PO ATTAINMENT	0.64	0.56	0.80	0.50	0.80	0.80	0.80	0	0.80	0.60	0	0	0	0.80

SUBJECT	204012 & Power Electronics													
COURSE COUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	POI1	PO12	PSO1	PSO2
C302.1	1	1	1	0	0	1	0	0	0	0	0	0	0	0
C302.2	1	1	1	2	0	1	0	0	0	2	0	0	0	1
C302.3	2	2	1	1	0	0	0	0	0	0	0	0	0	0
C302.4	2	2	1	1	1	1	1	0	1	1	0	0	0	0
C302.5	2	1	1	1	1	0	0	0	0	0	0	0	0	0
C302	1.6	1.4	1	1.25	1	1	1	0	1	1.5	0	0	0	1
PO ATTAINMENT	0.64	0.56	0.80	0.50	0.80	0.80	0.80	0	0.80	0.60	0	0	0	0.80

SUBJECT	204013 Design Of Electrical Machines													
COURSE COUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	POI1	POI2	PSO1	PSO2
C303.1	1	1	1	0	0	1	0	0	0	0	0	0	0	0
C303.2	1	1	1	2	0	1	0	0	0	2	0	0	0	1
C303.3	2	2	1	1	0	0	0	0	0	0	0	0	0	0
C303.4	2	2	1	1	1	1	1	0	1	1	0	0	0	0
C303.5	2	1	1	1	1	0	0	0	0	0	0	0	0	0
C303	1.6	1.4	1	1.25	1	1	1	0	1	1.5	0	0	0	1
PO ATTAINMENT	0.92	0.81	1.15	0.72	1.15	1.15	1.15	0	1.15	0.86	0	0	0	1.15

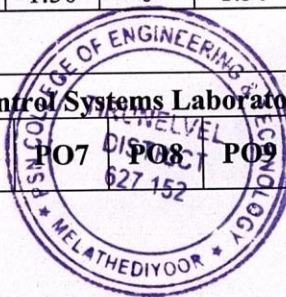
SUBJECT	204014 High Voltage Engineering													
COURSE COUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	POI1	POI2	PSO1	PSO2
C304.1	1	1	1	0	0	0	0	0	0	0	0	0	0	0

C304.2	1	1	1	2	0	1	0	0	0	2	0	0	0	1
C304.3	2	2	1	1	0	0	0	0	0	0	0	0	0	0
C304.4	2	2	1	1	1	1	1	0	1	1	0	0	0	0
C304.5	2	1	1	1	1	0	0	0	0	0	0	0	0	0
C304	1.6	1.4	1	1.25	1	1	1	0	1	1.5	0	0	0	1
PO ATTAINMENT	0.64	0.56	0.80	0.50	0.80	0.80	0.80	0	0.80	0.60	0	0	0	0.80

SUBJECT	204015 Industrial Automation													
COURSE COUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	POI1	PO12	PSO1	PSO2
C305.1	1	1	1	0	0	1	0	0	0	0	0	0	0	0
C305.2	1	1	1	2	0	1	0	0	0	2	0	0	0	1
C305.3	2	2	1	1	0	0	0	0	0	0	0	0	0	0
C305.4	2	2	1	1	1	1	1	0	1	1	0	0	0	0
C305.5	2	1	1	1	1	0	0	0	0	0	0	0	0	0
C305	1.6	1.4	1	1.25	1	1	1	0	1	1.5	0	0	0	1
PO ATTAINMENT	0.64	0.56	0.80	0.50	0.80	0.80	0.80	0	0.80	0.60	0	0	0	0.80

SUBJECT	209903 Industrial Safety													
COURSE COUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	POI1	POI2	PSO1	PSO2
C306.1	1	1	1	0	0	1	0	0	0	0	0	0	0	0
C306.2	1	1	1	2	0	1	0	0	0	2	0	0	0	1
C306.3	2	2	1	1	0	0	0	0	0	0	0	0	0	0
C306.4	2	2	1	1	1	1	1	0	1	1	0	0	0	0
C306.5	2	1	1	1	1	0	0	0	0	0	0	0	0	0
C306	1.6	1.4	1	1.25	1	1	1	0	1	1.5	0	0	0	1
PO ATTAINMENT	1.20	1.05	1.50	0.94	1.50	1.50	1.50	0	1.50	1.13	0	0	0	1.50

SUBJECT	204107 & Control Systems Laboratory													
COURSE COUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	POI1	POI2	PSO1	PSO2



C307.1	3	3	3	3	1	2	-	-	2	1	2	3	1	1
C307.2	3	3	3	3	1	1	-	-	2	1	2	2	1	1
C307.3	3	3	3	3	2	1	2	-	2	3	2	3	1	1
C307.4	3	3	3	3	3	3	-	-	2	2	2	3	1	1
C307.5	3	3	3	3	3	1	-	2	2	2	2	3	2	2
C307	3	3	3	3	2	1.6	2	2	2	1.8	2	2.8	1.2	1.2
PO ATTAINMENT	3.00	3.00	3.00	3.00	2.00	1.60	2.00	2.00	2.00	1.80	2.00	2.80	1.20	1.20

SUBJECT	204108/E & Power Electronics Laboratory													
COURSE COUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C308.1	3	3	3	3	1	2	-	2	2	1	2	3	1	1
C308.2	3	3	3	3	1	1	-	1	2	1	2	2	1	1
C308.3	2	1	0	1	2	1	-	-	2	2	2	3	0	1
C308.4	2	2	1	0	3	3	2	-	1	1	2	3	1	0
C308.5	3	3	3	3	3	1	-	-	2	2	2	3	2	0
C308	2.6	2.4	2.5	2.5	2	1.6	2	1.5	2.25	1.4	5	2.8	1.25	1
PO ATTAINMENT	2.60	2.40	2.50	2.50	2.00	1.60	2.00	1.50	2.25	1.40	5.00	2.80	1.25	0.00

SUBJECT	204802 & VALUE EDUCATION, HUMAN RIGHTS AND LEGISLATIVE PROCEDURE														
COURSE COUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	
C309.1	1	1	1	0	0	1	0	0	0	0	0	0	0	0	
C309.2	1	1	1	2	0	1	0	0	0	2	0	0	0	1	
C309.3	2	2	1	1	0	0	0	0	0	0	0	0	0	0	
C309.4	2	2	1	1	1	1	1	0	1	1	0	0	0	0	
C309.5	2	1	1	1	1	0	0	0	0	0	0	0	0	0	
C309	1.6	1.4	1	1.25	1	1	1	0	1	1.5	0	0	0	1	
PO ATTAINMENT	0.64	0.56	0.80	0.50	0.80	0.80	0.80	0	0.80	0.60	0	0	0	0.80	

YEAR/SEM: III/VI

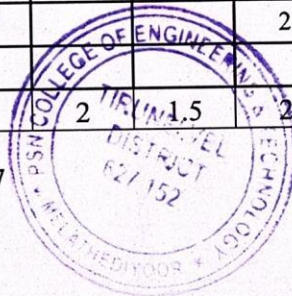


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SUBJECT	204016 High voltage DC Transmission													
COURSE COUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C310.1	3	3	3	2		2	1			1		2		
C310.2	3	3	3	2		2	1	2		1	2	1		1
C310.3	3	3	2	2	2	2	2			2		1	2	
C310.4	3	3	2	2	1	2	3		1	3		2		
C310.5	3	3	2	2		2	1		2	0		0		
C310	3	3	2.4	2	1.5	2	1.6	2	1.5	1.75	2	1.5	2	0.2
PO ATTAINMENT	3.00	3.00	2.40	2.00	1.50	2.00	1.60	2.00	1.50	1.75	2.00	1.50	2.00	0.24

SUBJECT	204017 Power System Operation & Control													
COURSE COUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C311.1	3	2	2	1			2		2	1	3	3	1	1
C311.2	3	2	2	2	2			2	2	1	2	3	1	1
C311.3	3	2	2	2		2			2	2	2	3	1	1
C311.4	3	1	2	0		1		2	2	2	2	3	1	1
C311.5	3	1	2	2					2	2	3	3	2	2
C311	3	1.6	2	1.75	2	1.5	2	2	2	1.6	2.4	3	1.2	1.2
PO ATTAINMENT	3.00	1.60	2.00	1.75	2.00	1.50	2.00	2.00	2.00	1.60	2.40	3.00	1.20	0.00

SUBJECT	204018 Microprocessor & Microcontroller													
COURSE COUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C312.1	3	2	2	1		2			2	1	1	2		
C312.2	3	2	2	1			1		2	1	1	2		
C312.3	3	2	2	2	2		2		2	2	1	2	1	
C312.4	3	1	2	3				2	2	1	2	2		1
C312.5	3	1	2	1					2	3	2	2		
C312	3	1.6	2	1.6	2	2	1.5	2	2	1	1.4	2	1	1

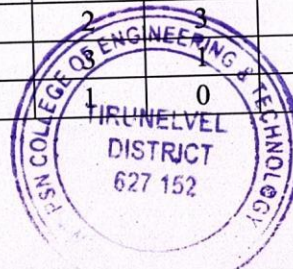


PO ATTAINMENT	3.00	1.60	2.00	1.60	2.00	2.00	1.50	2.00	2.00	1.00	1.40	2.00	1.00	0.00
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204019 Digital Signal Processing														
SUBJECT	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
COURSE COUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C313.1	3	2	2	3		2	3		3	3	3	2	1	
C313.2	3	2	2		2		2		3	3	3	2		1
C313.3	3	1	2	2	2			2	3	3	3	2		
C313.4	3	2	2	1	2			1	3	3	3	2		
C313.5	3	3	2	2			2		3	3	3	2		
C313	3	2	2	2	2	2	2.333333	1.5	3	3	3	2	1	1
PO ATTAINMENT	3.00	2.00	2.00	2.00	2.00	2.00	2.33	1.50	3.00	3.00	3.00	2.00	1.00	0.00

210901 Non Destructive Testing														
SUBJECT	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
COURSE COUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C314.1	3	3	2	2		3	2		1	2		1	3	1
C314.2	3	3	2	2		2	2		2	2	1	1	3	1
C314.3	3	3	2	2	2	1	2			2	2	1	3	1
C314.4	3	3	2	2	1	0	2	2		2		1	3	2
C314.5	3	3	1	2		1	0			2		1	3	2
C314	3	3	1.8	2	1.5	1.75	2	2	1.5	2	1.333333	1	3	1.2
PO ATTAINMENT	3.00	3.00	1.80	2.00	1.50	1.75	2.00	2.00	1.50	2.00	1.33	1.00	3.00	1.20

204203 Computer Networks														
SUBJECT	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
COURSE COUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C315.1	3	2	2	2	1	2		2	3	1	2	2		
C315.2	2	2	3	2	1	2		2	3	1	2	2		
C315.3	2	2	3	2	1	2		2	3	1	2	2	1	
C315.4	2	3	2	1	2		2			2	2	2		2
C315.5	2	2	2	2	1	2		1	0	1	2	2		



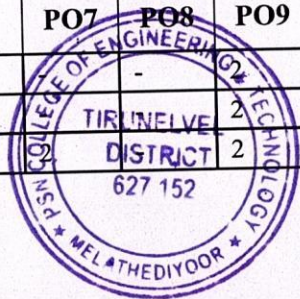
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C315	2.2	2.2	2.4	1.8	1.2	2	1	2	2.5	1.2	2	2	1	2
PO ATTAINMENT	2.20	2.20	2.40	1.80	1.20	2.00	1.00	2.00	2.50	1.20	2.00	2.00	1.00	0.00

SUBJECT	204108 & Microprocessor and Microcontroller Laboratory													
COURSE COUTCOME	PO 1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO1 0	POI I	PO12	PSO 1	PSO2
C316.1	3	3	2	2		2	1			1		2	3	1
C316.2	3	3	2	2	2	3	2		2	2	2	1	3	1
C316.3	3	3	2	2	1	2	1	2	1	2		0	3	1
C316.4	3	3	2	2		0	2		1	1		0	3	1
C316.5	3	3	1	2		1	0			1		2	3	2
C316	3	3	1.8	2	1.5	2	1.5	2	1.333333	1.4	2	1.666667	3	1.2
PO ATTAINMENT	3.00	3.00	1.80	2.00	1.50	2.00	1.50	2.00	1.33	1.40	2.00	1.67	3.00	0.00

SUBJECT	204109 & English Language Lab for Engineers													
COURSE COUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	POII	PO12	PSO1	PSO2
C317.1	3	2	1	1			2		3	3	3	2		
C317.2	3	2	1		1		1		3	3	3	2		1
C317.3	3	1	1	1	2	2		2	3	3	3	2		
C317.4	3	2	1	1	2	2			3	3	3	2	1	
C317.5	3	3	2	2			2		3	3	3	2		
C317	3	2	1.2	1.25	1.666667	2	1.666667	2	3	3	3	2	1	1
PO ATTAINMENT	3.00	2.00	1.20	1.25	1.67	2.00	1.67	2.00	3.00	3.00	3.00	2.00	1.00	0.00

SUBJECT	204110 & Power System Automation Laboratory													
COURSE COUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	POII	PO1 2	PSO 1	PSO2
C319.1	3	3	3	3	1	2				1	2	3	1	1
C319.2	3	3	3	3	1	1			2	1	2	2	1	1
C319.3	3	3	3	2	2	1			2	3	2	3	1	1



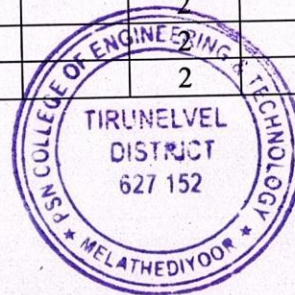
C319.4	3	3	3	3	3	3	-	-	2	2	2	3	1	1
C319.5	3	3	3	3	3	1	-	2	2	2	2	3	2	2
C319	3	3	3	2.8	2	2.666667	2	2	2	1.8	2	2.8	1.2	1.2
PO ATTAINMENT	3.00	3.00	3.00	2.80	2.00	2.67	2.00	2.00	2.00	1.80	2.00	2.80	1.20	0.00

YEAR/SEM: IV/VII

SUBJECT	204020 & Solid State Drives													
COURSE COUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C401.1	3	3	-	-	1	-	-	1	-	-	1	-		
C401.2	3	3	-	-	1	-	1	-	2	-	-	2		
C401.3	3	3	-	1	1	-	-	-	-	-	-	-		
C401.4	3	3	-	-	1	1	-	-	1	2	-	-		
C401.5	3	3	-	-	1	1	-	-	1	-	1	2		
C401	3	3	0	1	1	1	1	1	1.333333	2	1	2	0	0
PO ATTAINMENT	3.00	3.00	-	1.00	1.00	1.00	1.00	1.00	1.33	2.00	1.00	2.00	-	-

SUBJECT	204021 & Renewable Energy Sources													
COURSE COUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C402.1	3	1	1	1	-	3	-	-	1	1	1	3		
C402.2	3	1	1	1	-	3	-	-	1	1	1	3		
C402.3	3	1	1	1	-	3	-	-	1	1	1	3		
C402.4	3	1	1	1	-	3	-	-	1	1	1	3		
C402.5	3	1	1	1	-	3	-	-	1	1	1	3		
C402	3	1	1	1	0	3	0	0	1	1	1	3	0	0
PO ATTAINMENT	3.00	1.00	1.00	1.00	-	3.00	-	-	1.00	1.00	1.00	3.00	-	-

SUBJECT	204022 & Special Electrical Machines													
COURSE COUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C403.1	3	2	1	1					2	1	3	3		
C403.2	3	2	1	1					2	1	2	3		
C403.3	3	2	1	1					2	2	2	3		



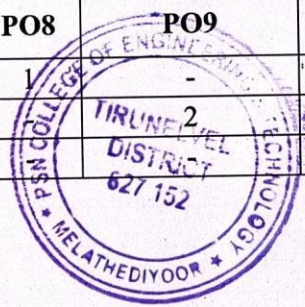
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C403.4	3	1	1	1					2	2	2	3		
C403.5	3	1	2	2					2	2	3	3		
C403	3	1.6	1.2	1.2	0	0	0	0	2	1.6	2.4	3	0	0
PO ATTAINMENT	3.00	1.60	1.20	1.20	-	-	-	-	2.00	1.60	2.40	3.00	-	-

SUBJECT	204023 & Protection Switchgear													
COURSE COUTCOME	PO 1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C404.1	1	1	3	3	2	2		-	-	-	2	2	-	-
C404.2	1	1	3	3	2	2		-	1	-	2	2	-	-
C404.3	1	1	3	3	2	2		-	2	-	2	2	-	1
C404.4	1	1	3	3	2	2		-	1	-	2	2	-	-
C404.5	1	1	3	3	1	2		-	1	-	1	2	-	-
C404	1	1	3	3	1.8	2	0	0	1.25	0	1.8	2	0	1
PO ATTAINMENT	1.00	1.00	3.00	3.00	1.80	2.00	-	-	1.25	-	1.80	2.00	-	1.00

SUBJECT	204024 & Embedded System Design													
COURSE COUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C409.1	1	1	3	3	2	2		-	-	-	2	2	-	-
C409.2	1	1	3	3	2	2		-	1	-	2	2	-	-
C409.3	1	1	3	3	2	2		-	2	-	2	2	-	1
C409.4	1	1	3	3	2	2		-	1	-	2	2	-	-
C409.5	1	1	3	3	1	2		-	1	-	1	2	-	-
C409	1	1	3	3	1.8	2	0	0	1.25	0	1.8	2	0	1
PO ATTAINMENT	1.00	1.00	3.00	3.00	1.80	2.00	-	-	1.25	-	1.80	2.00	-	1.00

SUBJECT	204210 & Flexible AC Transmission System													
COURSE COUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C406.1	3	3	-	-	1	-	-	1	-	-	1	-	-	
C406.2	3	3	-	-	1	-	1		2	-	-	2	-	
C406.3	3	3	-	1	1	-	-		-	-	-	-	-	

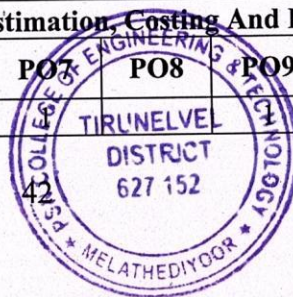


C406.4	3	3	-	-	1	1	-	-	1	2	-	-		
C406.5	3	3	-	-	1	1	-	-	1	-	1	2		
C406	3	3	0	1	1	1	1	1	1.333333	2	1	2	0	0
PO ATTAINMENT	3.00	3.00	-	1.00	1.00	1.00	1.00	1.00	1.33	2.00	1.00	2.00	-	-

SUBJECT	204803 & Energy Studies													
COURSE COUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C409.1	1	1	3	3	2	2		-	-	-	2	2	-	-
C409.2	1	1	3	3	2	2		-	1	-	2	2	-	-
C409.3	1	1	3	3	2	2		-	2	-	2	2	-	1
C409.4	1	1	3	3	2	2		-	1	-	2	2	-	-
C409.5	1	1	3	3	1	2		-	1	-	1	2	-	-
C409	1	1	3	3	1.8	2	0	0	1.25	0	1.8	2	0	1
PO ATTAINMENT	1.00	1.00	3.00	3.00	1.80	2.00	-	-	1.25	-	1.80	2.00	-	1.00

SUBJECT	204111 & Power System Simulation lab													
COURSE COUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO1 0	PO11	PO12	PSO1	PSO 2
C407.1	3	3	1	2	2		1		1	1	1	3	2	1
C407.2	3	3	1	1	2		1		1	1	1	3	1	
C407.3	3	2	2	1	2		1		1	1	1	3		2
C407.4	3	2	1	2	2		1		1	1	1	3	2	3
C407.5	3	2	1	1	2		1		1	1	1	3	1	1
C407	3	2.4	1.2	1.4	2	0	1	0	1	1	1	3	1.5	1.75
PO ATTAINMENT	3.00	2.40	1.20	1.40	2.00	-	1.00	-	1.00	1.00	1.00	3.00	1.50	1.75

SUBJECT	204111 & Electrical Estimation, Costing And Power Wiring Laboratory													
COURSE COUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C408.1	3	3	1	2	2					1	1	3		



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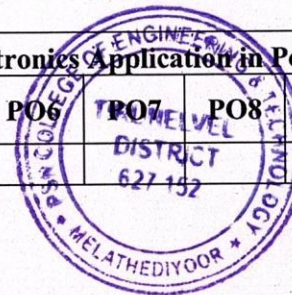
C408.2	3	3	1	1	2		1		1	1	1	3		
C408.3	3	2	2	1	2		1		1	1	1	3		
C408.4	3	2	1	2	2		1		1	1	1	3		
C408.5	3	2	1	1	2		1		1	1	1	3		
C408	3	2.4	1.2	1.4	2	0	1	0	1	1	1	3	0	0
PO ATTAINMENT	3.00	2.40	1.20	1.40	2.00	-	1.00	-	1.00	1.00	1.00	3.00	-	-

YEAR/SEM: IV/VIII

SUBJECT	204025 & Conservation and Utilisation of Electrical Energy													
COURSE COUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C411.1	3	3	1	1	-	1	2	-		1	1	1		
C411.2	3	3	1	1	-	1	2	-		2	1	1		
C411.3	3	3	1	1	-	2	2	-		1	1	1		
C411.4	3	3	1	1	-	-	1	-		1	1	1		
C411.5	3	3	1	1	-	-	1	-		2	1	1		
C411	3	3	1	1	0	1.333333	1.6	0	0	1.4	1	1	0	0
PO ATTAINMENT	3.00	3.00	1.00	1.00	-	1.33	1.60	-	-	1.40	1.00	1.00	-	-

SUBJECT	204214 & Smart Grid													
COURSE COUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C412.1	3	3	-	-	1	-	-	1	-	-	1	-		
C412.2	3	3	-	-	1	-	1	-	2	-	-	2		
C412.3	3	3	-	1	1	-	-	-	-	-	-	-		
C412.4	3	3	-	-	1	1	-	-	1	2	-	-		
C412.5	3	3	-	-	1	1	-	-	1	-	1	2		
C412	3	3	0	1	1	1	1	1	1.333333	2	1	2	0	0
PO ATTAINMENT	3.00	3.00	-	1.00	1.00	1.00	1.00	1.00	1.33	2.00	1.00	2.00	-	-

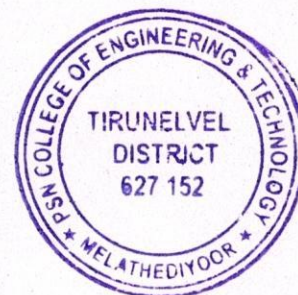
SUBJECT	204218 & Power Electronics Application in Power System													
COURSE COUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C413.1	3	2	1	1					2	1	3	3	1	1



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C413.2	3	2	1	1					2	1	2	3	1	1
C413.3	3	2	1	1					2	2	2	3	1	1
C413.4	3	1	1	1					2	2	2	3	1	1
C413.5	3	1	2	2					2	2	3	3	2	2
C413	3	1.6	1.2	1.2	0	0	0	0	2	1.6	2.4	3	1.2	1.2
PO ATTAINMENT	3.00	1.60	1.20	1.20	-	-	-	-	2.00	1.60	2.40	3.00	1.20	1.20

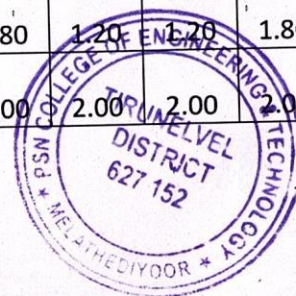
SUBJECT	204301 & Project Work													
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C414.1	1	1	3	3	2	2		-	-	-	2	2	-	-
C414.2	1	1	3	3	2	2		-	1	-	2	2	-	-
C414.3	1	1	3	3	2	2		-	2	-	2	2	-	1
C414.4	1	1	3	3	2	2		-	1	-	2	2	-	-
C414.5	1	1	3	3	1	2		-	1	-	1	2	-	-
C414	1	1	3	3	1.8	2	0	0	1.25	0	1.8	2	0	1
PO ATTAINMENT	1.00	1.00	3.00	3.00	1.80	2.00	-	-	1.25	-	1.80	2.00	-	1.00



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6. Expected PO and PSO matrices for 2017-2021 batch is given in the below table.

S. No	Course Code	Course Name	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
1	200051	Technical English	2.00	1.80	2.00	1.60	2.00	2.00	2.00	2.00	1.80	1.80	1.00	1.00	-	-
2	200052	Elementary Mathematics for Engineers	1.60	2.20	2.00	2.33	2.50	2.00	3.00	2.00	2.00	-	2.00	2.00	0.20	0.24
3	200053	Applied Physics I	1.92	1.60	1.44	1.40	1.60	1.60	2.00	1.60	1.60	-	1.60	2.40	-	-
4	200054	Applied Chemistry I	2.00	1.40	2.20	2.00	2.00	2.00	2.00	1.75	2.00	-	2.50	1.67	-	-
5	200055	Engineering Graphics	2.40	2.40	1.76	1.60	2.40	1.60	2.00	2.40	1.33	-	0.80	0.80	0.80	-
6	200056	Fundamental of Computers	2.50	1.67	1.80	2.50	1.67	1.50	2.00	2.00	1.00	-	2.00	1.50	1.00	0.00
7	200101	Applied Physics & Chemistry Lab I	3.00	2.00	2.00	2.00	1.00	3.00	3.00	2.00	2.00	2.00	-	1.00	-	-
8	200102	Computer Lab – I	3.00	2.60	1.20	2.00	3.00	1.00	1.00	3.00	1.25	-	1.67	1.40	-	-
9	200103	Workshop Practice	3.00	1.00	2.00	1.00	3.00	2.00	2.00	1.00	1.00	0.40	1.00	2.00	-	-
10	200057	Business Communication and Presentation Skills	3.00	2.60	1.20	2.00	3.00	2.00	2.00	3.00	2.00	-	3.00	1.40	1.20	-
11	200058	Applied Mathematics I	1.60	1.12	1.60	0.80	1.60	1.20	1.60	1.60	1.60	-	1.20	0.80	0.80	0.00
12	200059	Applied Physics II	3.00	1.50	1.80	1.67	2.00	2.00	2.00	2.00	2.00	-	2.00	3.00	0.20	0.24
13	200060	Applied Chemistry II	1.80	1.40	1.80	1.20	1.20	1.20	1.20	1.20	1.20	-	1.50	1.20	0.60	0.00
14	200061	Basic Engineering Mechanics	1.80	1.68	1.20	1.20	1.20	1.20	1.20	1.20	1.20	-	1.20	1.20	0.60	0.00
15	200062	Basic Civil and Mechanical Engineering	1.80	1.80	1.20	1.20	1.80	1.20	1.20	1.80	1.20	-	0.60	0.60	0.60	0.00
16	200063	Basic Electrical and Electronics	3.00	2.00	2.00	1.67	2.00	2.00	2.00	2.00	2.00	-	1.00	1.00	1.00	0.00

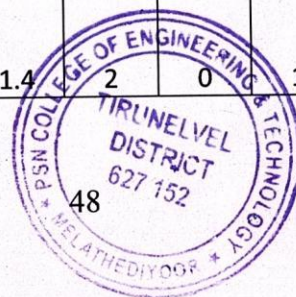


		Engineering															
17	200104	Applied Physics & Chemistry Lab II	2.40	2.00	2.00	2.00	3.00	2.00	2.00	3.00	2.00	-	3.00	1.40	1.00	1.00	
18	200105	Computer Lab – II	3.00	2.80	2.00	2.00	3.00	2.00	2.00	3.00	2.00	-	3.00	1.40	1.00	-	
19	201001	Applied Mathematics II	1.20	1.20	1.20	1.20	1.20	1.20	1.50	1.20	0.90	-	1.20	0.96	0.72	1.00	
20	204001	Electric circuits and Networks (Practical Component)	3.00	3.00	3.00	3.00	2.00	1.67	2.00	2.00	1.80	-	2.00	2.00	1.25	0.00	
21	204002	Electrical Machines -I	1.80	1.20	1.32	1.40	1.20	0.90	1.20	1.20	1.08	-	1.20	1.80	0.72	0.00	
22	204003	Electromagnetic Field theory	3.00	1.60	2.67	2.00	1.50	2.00	2.00	1.50	1.80	-	1.40	2.00	1.50	1	
23	204004	Electronic Devices and circuits	2.60	3.00	2.20	2.00	2.00	1.75	2.00	1.50	2.00	-	2.00	2.20	1.50	0.00	
24	204005	Measurements & Instrumentation	2.40	1.60	1.87	1.20	1.60	1.20	1.60	1.33	1.60	0.80	1.60	1.60	2.40	2	
25	204101	Electrical Machines - I Laboratory	3.00	2.00	2.00	3.00	2.00	1.67	2.00	1.50	3.00	3.00	2.00	2.00	3.00	2	
26	204102	Electronic circuits Laboratory	2.80	3.00	2.20	2.20	2.00	1.75	2.00	2.00	1.50	-	2.00	2.00	1.20	0.00	
27	204103	Measurements and Instrumentation Laboratory	3.00	2.40	2.00	1.75	2.00	2.00	2.00	2.00	3.00	3.00	3.00	2.00	1.20	0.00	
28	201801	Environmental studies	2.00	2.20	2.00	2.00	-	2.00	3.00	2.00	2.00	1.00	1.75	2.00	2.33	0.00	
29	201007	Applied Mathematics - III	1.92	1.60	1.76	1.76	1.60	2.00	1.60	1.20	1.60	-	1.60	1.28	1.20	0.00	
30	204007	Electrical Machines -II	1.32	1.32	1.20	1.20	1.20	1.05	1.20	1.20	1.08	1.08	0.84	1.20	0.75	1.25	
31	204008	Control Systems	2.40	2.40	2.40	2.40	1.60	1.87	1.60	1.20	1.60	0.80	1.60	2.24	0.96	1.20	
32	204009	Transmission and Distribution	3.00	2.40	2.00	2.00	2.00	3.00	2.20	2.00	2.00	2.00	1.00	3.00	1.00	1.00	
33	204010	Linear Integrated and	2.60	2.60	2.40	2.00	2.00	2.50	1.50	2.00	2.00	-	2.00	1.80	-	-	

		Digital logic Circuits														
34	204006	Data Structures and Object Oriented Programming in C++	1.80	1.80	2.00	1.50	2.00	1.33	2.00	2.00	1.67	1.40	2.00	2.00	1.00	0.00
35	204104	Electrical Machines - II Laboratory	3.00	2.00	2.00	1.67	2.00	1.50	2.00	2.00	3.00	3.00	3.00	1.00	3.00	2.00
36	204105	Linear Integrated and Digital Circuits Laboratory	2.60	2.60	2.40	2.00	2.00	1.50	2.00	2.00	1.00	-	2.00	1.80	0.20	0.00
37	204106	Data Structures and Object Oriented Programming Laboratory	3.00	2.20	2.00	2.00	2.00	1.50	2.00	1.67	2.00	-	1.40	2.00	0.20	0.00
38	204011	Power System Analysis	1.80	0.96	1.20	1.00	1.20	0.90	0.60	0.90	1.20	-	1.44	1.80	1.80	0.00
39	204012	Power Electronics	3.00	3.00	1.67	2.00	1.60	2.00	2.00	2.50	1.50	2.00	2.00	2.00	1.50	1.25
40	204013	Design of Electrical Machines	2.40	2.40	1.44	1.60	1.60	1.12	1.28	1.60	1.60	1.60	0.80	1.44	2.40	1.20
41	204014	High voltage Engineering	2.40	1.28	1.60	1.28	1.60	1.60	1.20	1.60	1.60	0.80	1.12	1.60	0.16	0.00
42	204015	Industrial Automation	1.80	1.80	1.20	1.08	1.20	1.00	0.96	1.20	0.90	0.84	0.84	0.96	1.80	2.00
43	209903	Industrial Safety	3.00	3.00	2.00	2.00	2.00	1.33	1.60	2.00	1.50	1.40	2.00	1.40	3.00	2.00
44	204107	Control System Laboratory	3.00	3.00	3.00	3.00	2.00	1.60	2.00	2.00	2.00	1.80	2.00	2.80	1.20	1.20
45	204108/E	Power Electronics Laboratory	2.60	2.40	2.50	2.50	2.00	1.60	2.00	1.50	2.25	1.40	5.00	2.80	1.25	0.00
46	204802	Value Education, Human Rights and Legislative Procedure	1.76	1.76	1.92	1.44	0.96	1.60	1.60	1.60	2.08	0.96	1.60	1.60	0.16	0.00
47	204016	High voltage DC transmission	3.00	3.00	2.40	2.00	1.50	2.00	1.60	2.00	1.50	1.75	2.00	1.50	2.00	0.24
48	204017	Power system	3.00	1.60	2.00	1.75	2.00	1.50	2.00	2.00	2.00	1.60	2.40	3.00	1.20	0.00

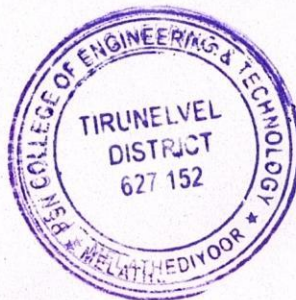


		operation and control														
49	204018	Microprocessor and Microcontroller	3.00	1.60	2.00	1.60	2.00	2.00	1.50	2.00	2.00	1.00	1.40	2.00	1.00	0.00
50	204019	Digital Signal Processing	3.00	2.00	2.00	2.00	2.00	2.00	2.33	1.50	3.00	3.00	3.00	2.00	1.00	0.00
51	210901	Non Destructive Testing	3.00	3.00	1.80	2.00	1.50	1.75	2.00	2.00	1.50	2.00	1.33	1.00	3.00	1.20
52	204203	Computer Network	2.20	2.20	2.40	1.80	1.20	2.00	1.00	2.00	2.50	1.20	2.00	2.00	1.00	0.00
53	204108	Micro Processor and Micro Controller Laboratory	3.00	3.00	1.80	2.00	1.50	2.00	1.50	2.00	1.33	1.40	2.00	1.67	3.00	0.00
54	204109	English Language Lab for Engineers	3.00	2.00	1.20	1.25	1.67	2.00	1.67	2.00	3.00	3.00	3.00	2.00	1.00	0.00
55	204110	Power system and Automation Laboratory	3.00	3.00	3.00	5.00	2.00	2.67	1.00	0.40	5.00	1.80	5.00	2.80	1.20	0.00
57	204020	Solid State Drives	3	3	0	1	1	1	1	1	1.33	2	1	2	0	0
58	204021	Renewable Energy Sources	3	1	1	1	0	3	0	0	1	1	1	3	0	0
59	204022	Special Electrical Machines	3	1.6	1.2	1.2	0	0	0	1	2	1.6	2.4	3	0	0
60	204023	Protection and switch gear	1	2.6	3	3	1.8	2	2	1	1.25	0	1.8	2	0	1
61	204024	Embedded system Design	1	1	3	3	1.8	2	0	0	1.25	0	1.8	2	0	1
62	204210	Flexible AC Transmission System	3	3	0	1	1	1	1	1	1.33	2	1	4	0	0
63	204111	Power System Simulation Laboratory	3	2.4	1.2	1.4	2	0	1	1	1	1	1	3	1.5	1.75
64	204112	Electrical Estimation, Costing and power wiring Laboratory	3	2.4	1.2	1.4	2	0	1	1	1	1	1	3	0	0



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65	204803	Energy studies	1	1	3	3	1.8	2	0	1	1.25	0	1.8	2	0	1
66	204025	Conservation and Utilization of Electrical Energy	3.00	3.00	1.60	1.80	2.00	2.00	1.60	2.00	1.50	1.40	1.75	1.00	1.20	1.20
67	204214	Smart Grid	3	3	0	1	1	1	1	1	1.33	0.4	1	2	1.2	1.2
68	204218	Power Electronics Applications in Power Systems	3	1.6	1.2	1.2	0	0	0	0	2	0	2.4	3	1.2	1.2
69	204301	Project Work	1	1	3	3	1.8	2	0	1	1.25	0	1.8	2	0	1



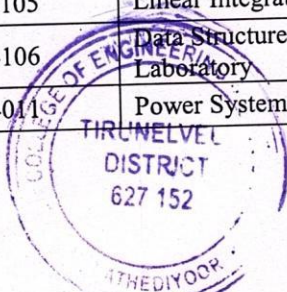
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7. Attainment of course outcome for the Electrical and Electronics Engineering

S.No	Course Code	Course Name	CO Attainment
1	200051	Technical English	3
2	200052	Elementary Mathematics for Engineers	3
3	200053	Applied Physics I	2.4
4	200054	Applied Chemistry I	3
5	200055	Engineering Graphics	2.4
6	200056	Fundamental of Computers	3
7	200101	Applied Physics & Chemistry Lab I	3
8	200102	Computer Lab – I	3
9	200103	Workshop Practice	3
10	200057	Business Communication and Presentation Skills	3
11	200058	Applied Mathematics I	2.4
12	200059	Applied Physics II	3
13	200060	Applied Chemistry II	1.8
14	200061	Basic Engineering Mechanics	1.8
15	200062	Basic Civil and Mechanical Engineering	1.8
16	200063	Basic Electrical and Electronics Engineering	3
17	200104	Applied Physics & Chemistry Lab II	3
18	200105	Computer Lab – II	3
19	201001	Applied Mathematics II	1.8
20	204001	Electric circuits and Networks (Practical Component)	3
21	204002	Electrical Machines -I	1.8
22	204003	Electromagnetic Field theory	3
23	204004	Electronic Devices and circuits	3
24	204005	Measurements & Instrumentation	2.4
25	204101	Electrical Machines - I Laboratory	3
26	204102	Electronic circuits Laboratory	3
27	204103	Measurements and Instrumentation Laboratory	3
28	201801	Environmental studies	3
29	201007	Applied Mathematics - III	2.4
30	204007	Electrical Machines -II	1.8
31	204008	Control Systems	2.4
32	204009	Transmission and Distribution	3
33	204010	Linear Integrated and Digital logic Circuits	3
34	204006	Data Structures and Object Oriented Programming in C++	3
35	204104	Electrical Machines - II Laboratory	3
36	204105	Linear Integrated and Digital Circuits Laboratory	3
37	204106	Data Structures and Object Oriented Programming Laboratory	3
38	204011	Power System Analysis	1.8



5	Project Review	3/semester
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Quality and relevance of assessment processes and tools used

The quality and relevance of the assessment processes and tools used are described below:

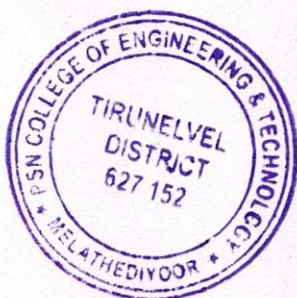
Internal Assessment Tests

Three Internal Assessment Tests are conducted in regular intervals during each semester. These are conducted to cover portions in stages from all the five units in each course of study to match all the Five COs. The question paper contains:

Short questions:	Part-A - 10 marks ($2 \times 5 = 10$)
Descriptive questions:	Part-B - 8 marks ($1 \times 8 = 8$)
Case Studies or Descriptive questions:	Part-C - 32 marks ($2 \times 16 = 32$)

Total - 50 marks

The tests are conducted for duration of one hour and thirty minutes for each course. The question paper is set to measure the attainment level of the respective CO directly based on the performance of the Internal Assessment test. A sample serial test question paper is shown below.




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CONTINUOUS INTERNAL ASSESSMENT – III

B.E	Department: EEE	Year/Semester: IV/8
Date & Session: 09.03.20 & FN	Course name and Code: CONSERVATION AND UTILISATION OF ELECTRICAL ENERGY and 204025	Max. Marks:50

Course Outcomes (COs):

- CO1: Understand the importance of Electrical energy conservation and energy auditing.
CO2: Attain the knowledge on Principle and design of illumination systems.
CO3: Understand Electric traction systems and their performance.
CO4: Learn the concepts of Electric heating and welding.
CO5: Attain the knowledge on the concepts of Refrigeration and air conditioning

BL – Bloom's Level (1- Remembering, 2- Understanding, 3 – Applying, 4 – Analysing, 5 – Evaluating, 6 – Creating); CO – Course Outcome;

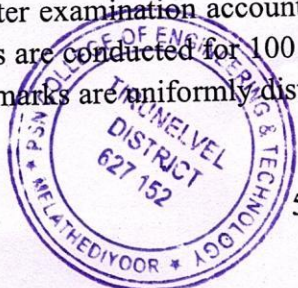
Qn. No.	PART A (5 marks)	Marks	CO	BL
1	State the advantages of electric heating.	2	4	2
2	List out the modes of heat transfer.	2	4	1
3	Define refrigeration.	2	5	1
4	List out the elements of a refrigeration system.	2	5	2
5	Compare air cooler and air conditioner.	2	5	4
Qn. No.	PART B (8 marks)	Marks	CO	BL
6(a)	Explain the modes of heat transfer with examples.	8	4	1
	(or)			
6(b)	Express the properties of ideal welding.	8	4	1
Qn. No.	PART B (16 marks)	Marks	CO	BL
7(a)	Briefly explain the types of electric heating.	16	2	2
	(or)			
7(b)	Explain the working principle of arc welding with neat diagram.	16	2	2
8(a)	With neat diagram explain the working of refrigerator.	16	3	1
	(or)			
8(b)	State down the types of air conditioning system. Explain any one type with relevant diagram.	16	3	1

Assignments

Assignments are being considered as one of the entity for the calculation of attainment of COs. Five assignments are given for a course to the students in a semester. The assignment questions are framed by the faculty handling the particular course.

End Semester Examination

End semester examination have an influence in the attainment of the specific CO with respect to the POs. End semester examination accounts for 70% weightage for the assessment of the COs. The examinations are conducted for 100 marks covering portions of all five units of the particular course. The marks are uniformly distributed over all the five units.



9. Attainment of Course Outcomes of all courses with respect to set attainment levels

Course Outcomes are mapped to Program Outcomes in order to measure the attainment levels. Attainment Levels of COs are based on the percentage of students getting more than the average marks in direct assessment methods, such as internal tests, Assignments, Project Reviews and End semester examination follows:

Attainment Level 1: If 50% to 59% of students score more than 50% marks.

Attainment Level 2: If 60% to 69% of students score more than the 50% marks.

Attainment Level 3: If $\geq 70\%$ of students score more than the 50% marks.

The total CO attainment is computed considering the performance of the students in the continuous internal evaluation and semester end evaluation, duly giving weightage to these two components.

Correlation levels 1, 2 or 3 as defined below:

1- Slight (Low)

2- Moderate (Medium)

3- Substantial (High)

Attainment is measured in terms of actual percentage of students getting set percentage of marks and the set percentage can be fixed by the faculty handling the course and it depends on the importance and nature of the course. If targets are achieved, then all the course outcomes are attained for that year. If targets are not achieved, an action plan is put in place to attain the targets in subsequent years.

10. Assessment tools and processes used for measuring the attainment of each of the Program Outcomes and Program Specific Outcomes

Attainments of Program Outcomes (POs) and Program Specific Outcomes (PSOs) have been validated through direct (Serial tests, Class tests, Assignments and End semester examination) and indirect measurement tools (Student Exit Surveys, Course End Surveys, Alumni and Employer feedbacks)

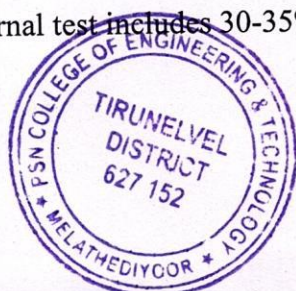
1. Direct Assessment Tools

The undergraduate program of Electrical and Electronics Engineering is a credit based continuous evaluation system. Evaluation is accomplished by the course faculty throughout the semester and the End semester examination conducted. The direct assessment for the attainment of POS and PSOs contribute 80%

Internal Test I

This test is conducted within 4-5 weeks after the commencement of the semester. The syllabus of the internal test includes 30-35% of the total course content.

Internal Test II



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This test is conducted at the mid of the semester. The syllabus for the test is the next 30%-35% of the total course content.

Internal Test III

This test is conducted at the end of the semester. The syllabus is the remaining 30% -40% of the total course content.

Assignments

Five assignments are prepared for all the subjects to evaluate the attainment of POs and PSOs.

End semester examination

This is conducted at the end of each semester.

Practical Courses

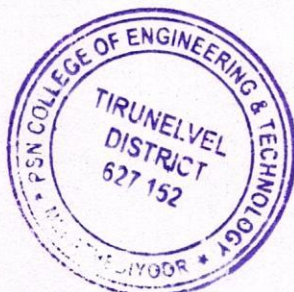
Continuous monitoring of POs and PSOs is evaluated through student performance in the laboratory classes, viva-voce and Seminars.

Indirect Assessment Tools

PO attainment is obtained by taking Course End Surveys, Instructor Evaluation Reports and Parent's Feedback Reports which are listed in Table

Indirect Assessment Methods

S.No.	Tools	Frequency of assessment
1	Course End Survey	01/Course/Semester
2	Instructor Evaluation Report	01/Course/Semester
3	Parent's Feedback Report	01/Course/Semester
4	Alumni Feedback	01/Year
5	Employer Feedback	01/Year
6	Student Exit Survey	01/Year




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Course End Surveys

Course End Survey Forms are collected from the students at the end of the semester which provides information about the coverage of course contents, availability of course materials, instructor preparations, teaching/learning techniques and the course requirements.



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Course End Survey

The Course end survey is a questionnaire on student experiences distributed at the conclusion of each Course. The purpose of this survey is to help us to understand how well this Course enabled the students to learn, and to improve this Course delivery in the future.

Name of the Subject / Code : ²⁰⁴⁰²⁵⁻ CONSERVATION & UTILIZATION OF ELECTRICAL ENERGY

Name of the Student : BALAJI B

Reg. No : 1704007

Department : EEE

Year / Sem : IV / VIII

Academic Year : 2020-2021

Regulation : 2014

I. Comments on materials presented and quality of teaching

Parameters on Course delivery	Excellent	Good	Average	Poor
Overall the lectures presented were	✓			
The hand out material for Each unit was	✓			

II. Assessment of Course Outcome

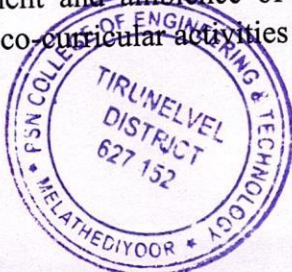
The Course outcomes are statements that describe the expected accomplishments by the student at the end of the Course. Please rate each of them in terms of your preparedness for your end-semester examinations.

Course Outcome		Level of Preparedness / achievement			
		Excellent (≥8)	Good (6-8)	Fair (5-6)	Poor (≤5)
CO-I	Understand the energy management and energy Audit	✓			
CO-II	Get the knowledge on Principle and design of lamp Systems	✓			
CO-III	Express the concepts of welding Transformer & its characteristics	✓			
CO-IV	Express about Electric traction Systems & Their Performance		✓		
CO-V	Understand the Concepts of Refrigeration & air Conditioning	✓			

B. Balaji
Signature of the Student

Parent's Feedback Reports

Parent's Feedback Reports are collected from the parents during each semester to improve the quality of services offered to the students. It includes the feedback of parents about the facilities, environment and ambience of the college, discipline of their wards, quality of teaching, extra and co-curricular activities carried out by the college.



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PARENT SATISFACTION SURVEY

(This is used to get the periodical feedback from parents by the respective Heads of department on academic, infrastructure and amenities offered by the department and college to their wards.)

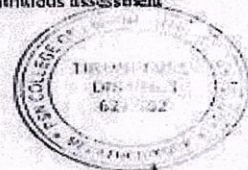
Name of the Parent or Guardian: A. Perianayagam
Name of the ward: P. Muthulakshmi
Department & year of study: EEE IV Year
Present Address with mobile no: 147/2A1A, Murugan Nagar,
Melakootudankadu, Tuticorin - 628103

(Please select the appropriate option to each question given below)

1. The progress and growth of PSNCET is:
a. Excellent ✓
b. Good ✓
c. Satisfactory
d. Not to expected level
2. After joining PSNCET, the academic progress of your ward is:
a. Excellent ✓
b. Good
c. Satisfactory
d. Not to expected level
3. Are you able to communicate freely with the heads and faculty of the college to know about your ward's progress:
a. Yes and the response is excellent ✓
b. Yes but the response is satisfactory
c. No. The response is poor
4. Whether you receive the progress report of your ward after the end each continuous assessment tests and end semester examinations:
a. Yes - always ✓
b. Yes - sometimes
c. No
5. The library and internet facilities available in the college:
a. Excellent ✓
b. Good
c. Satisfactory
d. Not to the expected level

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Head of the Department
Dept. of EEE

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MELATHEDIYOOR, TIRUNELVELI DISTRICT



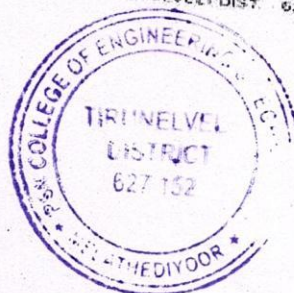
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6. Lecture halls, ICT facilities and laboratories are
 - ☒ a. Excellent
 - ☐ b. Good
 - ☐ c. Satisfactory
 - ☐ d. Not to the expected level
7. Mentoring and counselling provided by the college is
 - ☒ a. Excellent
 - ☐ b. Good
 - ☐ c. Satisfactory
 - ☐ d. Not to the expected level
8. Sports and extracurricular facilities of the college are
 - ☒ a. Excellent
 - ☐ b. Good
 - ☐ c. Satisfactory
 - ☐ d. Not to the expected level
9. Medical facilities available in the dispensary are
 - ☒ a. Excellent
 - ☐ b. Good
 - ☐ c. Satisfactory
 - ☐ d. Not to the expected level
10. Hostel facilities and food provided by the college are
 - ☒ a. Excellent
 - ☐ b. Good
 - ☐ c. Satisfactory
 - ☐ d. Not to the expected level
11. Attitude of the faculty is
 - ☒ a. Excellent
 - ☐ b. Good
 - ☐ c. Satisfactory
 - ☐ d. Not to the expected level
12. Quality of teaching and learning is
 - ☒ a. Excellent
 - ☐ b. Good
 - ☐ c. Satisfactory
 - ☐ d. Not to the expected level
13. Teaching methods and techniques used are
 - ☒ a. Excellent
 - ☐ b. Good
 - ☐ c. Satisfactory
 - ☐ d. Not to the expected level



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14. Placement and Aptitude training offered by the college are
- a. Excellent
 - ☒ b. Good
 - c. Satisfactory
 - d. Not to the expected level

15. Please give your opinion on whether the curriculum and syllabus, skill development and value added courses offered by the institution are helpful for your wards for their employability and higher studies.

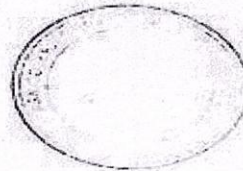
More number of courses can be included for focusing skill development and industrial needs.

16. Please give your suggestions for improvement.

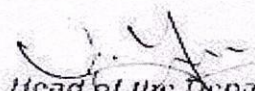
Electives can be added on relevant trends.

Date: 16.03.2017

Signature of the Parent (or) Guardian




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Alumni Feedbacks

Alumni Feedback is collected once in every year. It contains feedback from the alumni about their present work profile, suggestions and contributions for the improvement of the institution.




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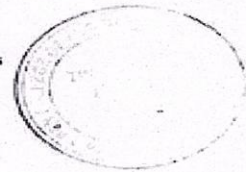
STAKEHOLDER FEEDBACK ON CURRICULUM & TEACHING-LEARNING

Category of Stakeholder (please tick): ☐ Faculty ☐ Student ☐ Employer ☒ Alumni ☐ Parent

Name of the Stakeholder with address: Mr. Asam Mathew
Oxide Enterprise Software and Networking Solutions

(Please select the appropriate option to each question given below)

1. The curriculum and syllabus offered are
 - ☒ a. More than adequate
 - ☐ b. Adequate
 - ☐ c. Inadequate
2. The course content and course outcomes are
 - ☒ a. Appropriate mostly
 - ☐ b. Appropriate in few
 - ☐ c. Mismatching mostly
3. The syllabus is useful for improving the employability skills
 - ☐ a. Yes to a larger extent
 - ☒ b. Yes to some extent
 - ☐ c. No
4. Knowledge and skills acquired from theory, practical and project work meet industry needs
 - ☐ a. Yes - mostly
 - ☒ b. Yes - in some areas
 - ☐ c. No - not focussed to industry needs
5. The e-resources and textbooks available in the library for the courses are
 - ☐ a. more than sufficient
 - ☒ b. sufficient
 - ☐ c. not sufficient
6. Syllabus is equipped with necessary technical skills to meet industrial challenges
 - ☐ a. Yes to a larger extent
 - ☒ b. Yes to some extent
 - ☐ c. No
7. The course contents are relevant to the programme of study
 - ☐ a. Yes to a larger extent
 - ☒ b. Yes to some extent
 - ☐ c. No



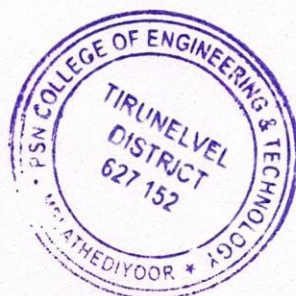
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8. Provision for self learning and project based learning
 a. Yes to a larger extent
 ✓ b. Yes to some extent
 c. No
9. Process of internal and external assessment is
 a. Excellent
 ✓ b. Good
 c. Satisfactory
10. The teaching-learning process is
 a. Excellent
 ✓ b. Good
 c. Satisfactory
11. Please give your suggestion on areas in which the course contents need improvement
 A core course may be include in the Curriculum to study and encourage the usage of curriculum Electronic Vehicles among students
12. Please give your opinion and suggestions on teaching-learning process.
 Very Good.

Date: 10.03.17

Amams mathew
 Signature of the Stakeholder



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per
 NAME

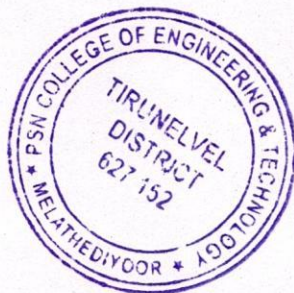
TIRUNELVELI DISTRICT - 627 152

TECHNOLOGY
 TALUK

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Employer Feedbacks

Employer Feedback is collected once in every year. It contains feedback from the employers regarding the involvement & interest shown by the alumnus, their technical & theoretical knowledge, interaction & co-ordination and adheres to the industrial environment.



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STAKEHOLDER FEEDBACK ON CURRICULUM & TEACHING-LEARNING

Category of Stakeholder (please tick): ☐ Faculty ☐ Student ☒ Employer ☐ Alumni ☐ Parent

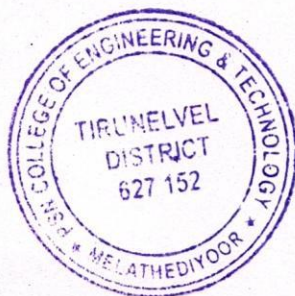
Name of the Stakeholder with address: M. Suresh

Room 1001, 10th Floor, 11th, Coimbatore

(Please select the appropriate option to each question given below)

1. The curriculum and syllabus offered are
a. ☒ More than adequate
b. ☐ Adequate
c. ☐ Inadequate
2. The course content and course outcomes are
a. ☒ Appropriate mostly
b. ☐ Appropriate in few
c. ☐ Mismatching mostly
3. The syllabus is useful for improving the employability skills
a. ☐ Yes to a larger extent
b. ☒ Yes to some extent
c. ☐ No
4. Knowledge and skills acquired from theory, practical and project work meet industry needs
a. ☒ Yes - mostly
b. ☐ Yes - in some areas
c. ☐ No - not focussed to industry needs
5. The e-resources and textbooks available in the library for the courses are
a. ☒ more than sufficient
b. ☐ sufficient
c. ☐ not sufficient
6. Syllabus is equipped with necessary technical skills to meet industrial challenges
a. ☒ Yes to a larger extent
b. ☐ Yes to some extent
c. ☐ No
7. The course contents are relevant to the programme of study
a. ☒ Yes to a larger extent
b. ☐ Yes to some extent
c. ☐ No

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8. Provision for self learning and project based learning
 a. Yes to a larger extent
☒ b. Yes to some extent
 c. No
9. Process of internal and external assessment is
☒ a. Excellent
 b. Good
 c. Satisfactory
10. The teaching-learning process is
 a. Excellent
☒ b. Good
 c. Satisfactory
11. Please give your suggestion on areas in which the course contents need improvement
 In the electronics course topic on the conventional power diodes may be replaced by integrated gate controlled thyristor
12. Please give your opinion and suggestions on teaching-learning process
 Excellent

Date: 23.03.17

Sumesh
 Signature of the Stakeholder



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Signature of the Principal
 Date: 23.03.17

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Student Exit Survey

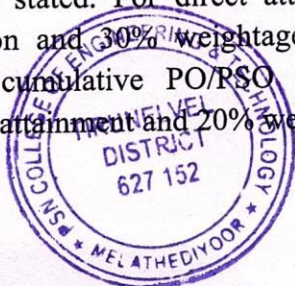
Exit survey		Semester: 8				
Name: <u>M. Sasikumar</u>						
Department: <u>EEE</u>						
Email: <u>1704020@psncet.ac.in</u>						
	Exit survey Questions	Attainment Level				
		1	2	3	4	5
1	Ability to apply the knowledge of mathematics, science, engineering fundamentals to solve engineering problems.					✓
2	Ability to Identify, review research literature and analyze Engineering problems.				✓	
3	Ability to design solutions for complex engineering problems with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.					✓
4	Ability to conduct experiments, analyse data, interpret data and synthesise the information to provide valid conclusions.					✓
5	Ability to Create, select and use modern tools in developing solutions.				✓	
6	Ability to apply reasoning to evaluate societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.					✓
7	Ability to understand the impact of the engineering solutions in societal and environmental contexts and the need for sustainable development.				✓	
8	Ability to apply ethical principles in your responsibilities					✓
9	Ability to Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings					✓
10	Ability to articulate ideas, communicate effectively, in writing and verbally.					✓
11	Ability to work, as a member and leader in a team, to manage projects and in multidisciplinary environments.				✓	
12	Ability to engage in independent and life-long learning					✓
General						
13	The overall environment was conducive for learning and encourages innovation.					✓
14	The teaching Faculty was competent and dedicated to meet the objectives of the program.					✓
15	Appropriate lab facilities and infrastructure were provided to meet the requirements of the program.					✓
16	Sufficient co-curricular and extra-curricular activities were organized for the personal grooming.				✓	✓
17	Scholarships/grants were available in case of need.			✓		
18	I am confident that I can compete with graduates from any top-rated university in my field and excel in practical life.				✓	
19	I would definitely recommend the programme to others					✓
20	General Feedback: <u>Learned multi-disciplinary Subjects.</u>					

Signature of the Student: M. Sasikumar

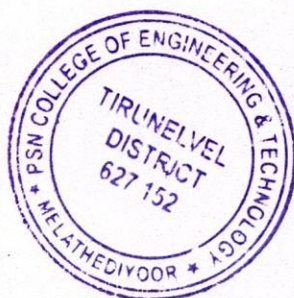
11. Quality/relevance of assessment tools / Process used

The following procedure is adopted to validate the Program Outcomes (POs) and Program Specific Outcomes (PSOs):

Initially, Course Outcomes (COs) have been framed with the help of course objectives. POs and PSOs have been matched with the Cos as per the contents available in POs, PSOs and COs. Attainment of POs and PSOs is measured with the help of direct and indirect assessment tools as stated. For direct attainment, 70% weightage is given for the End semester examination and 30% weightage is given for the Serial test performance and Assignments. The cumulative PO/PSO attainment is calculated by considering 80% weightage for direct attainment and 20% weightage for indirect attainment as below:



Method of Assessment	Direct Attainment	Indirect Attainment		
		Course End Surveys	Instructor Evaluation Report	Parent's Feedback Reports
% weightage	80%	20%		



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12. A sample CO-PO and PSO attainment form

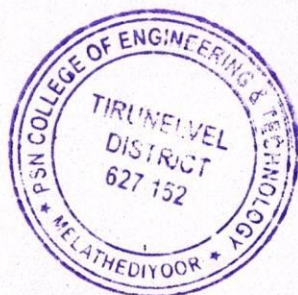
Subject Name: Elementary Mathematics for Engineers

Subject Code: 200052

S.No	Reg No	Name	IA1			IA2			IA3			Assignment						Att (5)	End Semester Exam Marks																Marks Obtained	CO Attainment																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
			CO1 (30)	CO2 (20)	Total (50)	CO2 (20)	CO3 (30)	Total (50)	CO4 (20)	CO5 (30)	Total (50)	CO1 (10)	CO2 (10)	CO3 (10)	CO4 (10)	CO5 (10)	Total (50)		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2			2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2

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21	1704021	KARTHICK S	13	10	23	15	15	30	13	12	25	10	8	0	10	0	3	5	0	0	0	1	1	0	1	2	2	0	8	9	9	9	9	51	52	1
22	1704022	MANIKANDAN J.S	12	24	36	14	0	14	12	14	26	10	8	0	9	10	5	5	2	2	2	2	2	2	2	2	2	2	15	14	15	15	15	94	82	3
23	1704023	MAREESWARAN P	14	19	33	15	0	15	15	0	15	10	10	10	10	10	5	5	2	2	2	1	1	2	0	1	2	2	11	13	12	6	7	64	58	1
24	1704024	MONIKA P	12	19	31	13	15	28	14	15	29	10	10	10	10	5	5	5	2	2	0	1	2	2	1	1	2	2	15	14	14	15	7	80	74	3
25	1704025	NARAYANADHULASI A	12	19	31	12	14	26	15	13	28	9	10	8	2	0	3	3	2	2	1	0	2	2	2	2	2	2	13	14	15	11	14	84	76	3
26	1704026	NAVEEN RAJ P	16	24	40	14	15	29	13	12	25	10	10	7	10	10	5	5	1	2	2	1	2	2	1	1	0	1	0	2	12	10	4	41	48	0
27	1704027	PRADEEP KUMAR C	10	22	32	0	13	13	12	14	26	10	10	10	10	10	5	5	1	2	2	2	2	1	0	2	1	1	0	0	9	9	13	45	47	0
28	1704028	RAMESH A	24	20	44	12	12	24	0	12	12	10	10	10	10	10	5	4	0	1	2	2	1	1	1	2	2	0	6	0	9	0	6	33	40	0
29	1704029	RAM KUMAR P	19	0	19	14	14	28	12	12	24	10	10	10	10	10	5	5	1	0	1	2	2	1	2	2	2	2	9	13	8	0	3	48	49	0
30	1704030	SASIKUMAR.M	19	18	37	12	12	24	12	25	37	10	10	8	10	10	5	5	2	1	1	2	0	2	2	2	2	1	9	6	10	11	13	64	65	2
31	1704031	SENTHILMURUGAN M	19	15	34	12	12	24	14	22	36	10	10	9	10	10	5	5	2	2	0	1	1	2	2	0	2	0	9	0	9	0	10	40	47	0
32	1704032	SHIBIN JOSE R	24	21	45	16	19	35	15	19	34	10	10	10	10	10	5	4	2	2	1	1	2	2	1	1	2	2	0	10	0	5	0	31	45	0
33	1704033	SINGAPRABHU S	22	20	42	10	19	29	9	22	31	10	10	8	9	10	5	5	1	2	2	0	2	1	1	2	2	2	10	4	6	10	9	54	59	1
34	1704034	SIVARAMAKRISHNAN	20	24	44	12	0	12	12	0	12	10	10	8	10	10	5	5	1	2	1	1	2	1	0	2	2	1	9	13	8	4	9	56	54	1
35	1704035	SRIDHARAN.M	21	0	21	14	22	36	0	19	19	10	9	10	10	9	5	5	0	1	0	2	0	0	1	1	2	2	9	11	12	12	15	68	64	2
36	1704037	SURYA R	18	10	28	10	20	30	12	20	32	10	10	9	10	10	5	4	1	1	1	2	2	1	2	1	1	1	9	0	0	9	9	40	46	0
37	1704038	THIRUPATHI R	15	11	26	11	21	32	11	22	33	9	10	10	10	10	5	5	2	0	2	2	2	2	2	2	1	2	9	9	9	9	13	66	65	2
38	1704039	VALARMATHI N	21	14	35	14	18	32	16	18	34	10	10	10	8	10	5	5	2	1	1	1	2	2	2	2	2	2	15	15	15	15	15	92	85	3
39	1704040	VANASELVIN	20	13	33	13	15	28	14	19	33	10	10	10	10	10	5	5	2	2	0	1	1	1	1	1	2	2	8	3	9	9	7	49	54	1
40	1704041	VELMURUGAN S	24	12	36	12	21	33	12	24	36	10	8	10	9	10	5	4	1	2	1	0	1	2	1	2	2	1	12	15	9	13	8	70	70	3
41	1704042	VELMURUGAN S	19	14	33	14	23	37	15	23	38	10	8	10	8	10	5	5	1	2	2	1	0	2	0	2	1	1	4	3	9	5	2	35	46	0
		No. of Students Attended	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41
		MAX MARK CO WISE	30	20	50	20	30	50	20	30	50	10	10	10	10	10	5	5	2	2	2	2	2	2	2	2	2	2	16	16	16	16	16	100	100	
		50%	15	10	25	10	15	25	10	15	25	5	5	5	5	5	2.5	3	1	1	1	1	1	1	1	1	1	1	8	8	8	8	8	50	50	
		CO/ No of students above threshold	20	37	27	38	18	25	0	37	31	41	36	31	34	37	38	41	36	35	36	36	35	37	35	36	36	35	30	30	38	32	29	30	30	
		LEVEL	1	3	2	3	1	2	1	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	



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C101	T 1	T 2	T 3	Assgn	INT	END SEM
CO1	1			3	2.00	3
CO2	3	3		3	3.00	
CO3		1		3	2.00	
CO4			1	3	2.00	
CO5			3	3	3.00	
UNIV ATTAINMENTS/INTERNAL					2.40	
WEIGHTAGE					30%	70%
CO ATTAINMENT FOR THE SUBJECT					0.72	2.10
FINAL CO ATTAINMENT FOR THE SUBJECT					1.41	

SUBJECT	200052 & Elementary Mathematics for Engineer													
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO10	PO11	PO12	PSO1	PSO2	
C102.1	1	1	1	0	0	1	0	0	0	0	0	0	0	
C102.2	1	1	1	2	0	1	0	0	2	0	0	0	1	
C102.3	2	2	1	1	0	0	0	0	0	0	0	0	0	
C102.4	2	2	1	1	1	1	1	0	1	0	0	0	0	
C102.5	2	1	1	1	1	0	0	0	0	0	0	0	0	
C102	1.6	1.4	1	1.25	1	1	1	0	1.5	0	0	0	1	
PO ATTAINMENT	1.13	0.99	1.41	0.88	1.41	1.41	1.41	0	1.06	0	0	0	1.41	

PO Attainment

PO/PSO	Value
PO1	1.128
PO2	0.987
PO3	1.41
PO4	0.88125
PO5	1.41
PO6	1.41
PO7	1.41
PO8	0
PO9	1.41
PO10	1.0575
PO11	0
PO12	0
PSO1	0
PSO2	1.41

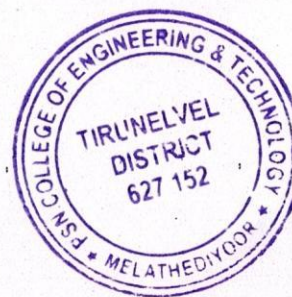


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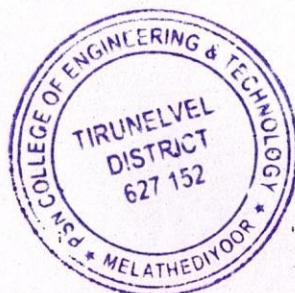
13. PO Attainment for the batch 2017-2021

S.No	Course Code	Course Name	PO1			PO2			PO3			PO4			PO5			PO6			PO7			PO8			PO9			PO10			PO11			PO12			PSO1			PSO2			
			Direct-level	indirect-level	Total	Direct-level	indirect-level	Total	Direct-level	indirect-level	Total	Direct-level	indirect-level	Total	Direct-level	indirect-level	Total	Direct-level	indirect-level	Total	Direct-level	indirect-level	Total	Direct-level	indirect-level	Total	Direct-level	indirect-level	Total	Direct-level	indirect-level	Total	Direct-level	indirect-level	Total	Direct-level	indirect-level	Total	Direct-level	indirect-level	Total				
1	200051	Technical English	2.00	3.00	2.20	1.80	2.00	1.84	2.00	3.00	2.20	1.60	2.00	1.68	2.00	3.00	2.20	2.00	3.00	2.20	2.00	3.00	2.20	2.00	3.00	2.20	1.80	3.00	2.04	1.80	2.00	1.84	1.00	2.00	1.20	1.00	2.00	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	200052	Elementary Mathematics for Engineers	1.60	3.00	1.88	2.20	3.00	2.36	2.00	3.00	2.20	2.33	3.00	2.46	2.50	3.00	2.60	2.00	3.00	2.20	3.00	3.00	2.00	3.00	2.20	2.00	3.00	2.20	0.00	0.00	0.00	2.00	3.00	2.20	2.00	3.00	2.20	0.20	1.00	0.36	0.24	1.00	0.39		
3	200053	Applied Physics I	1.92	3.00	2.14	1.60	2.00	1.68	1.44	2.00	1.55	1.40	2.00	1.52	1.60	2.00	1.68	1.60	3.00	1.88	2.00	3.00	2.20	1.60	2.00	1.68	1.60	2.00	1.68	0.00	0.00	0.00	1.60	2.00	1.68	2.40	3.00	2.52	0.00	0.00	0.00	0.00	0.00	0.00	
4	200054	Applied Chemistry I	2.00	3.00	2.20	1.40	3.00	1.72	2.20	3.00	2.36	2.00	3.00	2.20	2.00	3.00	2.20	2.00	3.00	2.20	2.00	3.00	2.20	1.75	2.00	1.80	2.00	3.00	2.20	0.00	0.00	0.00	2.50	3.00	2.60	1.67	2.00	1.74	0.00	0.00	0.00	0.00	0.00	0.00	
5	200055	Engineering Graphics	2.40	3.00	2.52	2.40	3.00	2.52	1.76	2.00	1.81	1.60	2.00	1.68	2.40	3.00	2.52	1.60	3.00	1.88	2.00	3.00	2.20	2.40	3.00	2.52	1.33	2.00	1.46	0.00	0.00	0.00	0.80	1.00	0.84	0.80	1.00	0.84	0.80	1.00	0.84	0.00	0.00	0.00	
6	200056	Fundamental of Computers	2.50	3.00	2.60	1.67	2.00	1.74	1.80	2.00	1.84	2.50	3.00	2.60	1.67	2.00	1.74	1.50	3.00	1.80	2.00	3.00	2.20	2.00	3.00	2.20	1.00	2.00	1.20	0.00	0.00	0.00	2.00	3.00	2.20	1.50	2.00	1.60	1.00	2.00	1.20	0.00	0.00	0.00	
7	200101	Applied Physics & Chemistry Lab I	3.00	3.00	3.00	2.00	3.00	2.20	2.00	3.00	2.20	2.00	3.00	2.20	1.00	2.00	1.20	3.00	3.00	3.00	3.00	3.00	3.00	2.00	2.00	2.00	2.00	3.00	2.20	2.00	3.00	2.20	0.00	0.00	0.00	1.00	2.00	1.20	0.00	0.00	0.00	0.00	0.00	0.00	
8	200102	Computer Lab – I	3.00	3.00	3.00	2.60	3.00	2.68	1.20	2.00	1.36	2.00	3.00	2.20	3.00	3.00	3.00	1.00	0.00	0.80	1.00	2.00	1.20	3.00	3.00	3.00	1.25	2.00	1.40	0.00	0.00	0.00	1.67	2.00	1.74	1.40	2.00	1.52	0.00	0.00	0.00	0.00	0.00	0.00	
9	200103	Workshop Practice	3.00	3.00	3.00	1.00	2.00	1.20	2.00	3.00	2.20	1.00	2.00	1.20	3.00	3.00	3.00	2.00	2.00	2.00	2.00	3.00	2.20	1.00	2.00	1.20	1.00	2.00	1.20	0.40	3.00	0.92	1.00	2.00	1.20	2.00	3.00	2.20	0.00	0.00	0.00	0.00	0.00	0.00	
10	200057	Business Communication and Presentation Skills	3.00	3.00	3.00	2.60	3.00	2.68	1.20	2.00	1.36	2.00	3.00	2.20	3.00	3.00	3.00	2.00	2.00	2.00	2.00	3.00	2.20	3.00	3.00	3.00	2.00	3.00	2.20	0.00	0.00	0.00	3.00	3.00	3.00	1.40	2.00	1.52	1.20	2.00	1.36	0.00	0.00	0.00	
11	200058	Applied Mathematics I	1.60	3.00	1.88	1.12	2.00	1.30	1.60	2.00	1.68	0.80	2.00	1.04	1.60	2.00	1.68	1.20	3.00	1.56	1.60	2.00	1.68	1.60	2.00	1.68	1.60	2.00	1.68	0.00	0.00	0.00	1.20	2.00	1.36	0.80	1.00	0.84	0.80	2.00	1.04	0.00	0.00	0.00	



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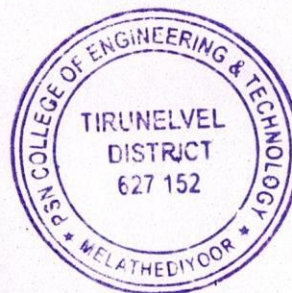
12	200059	Applied Physics II	3.00	3.00	3.00	1.50	2.00	1.60	1.80	2.00	1.84	1.67	2.00	1.74	2.00	2.00	2.00	2.00	3.00	2.20	2.00	3.00	2.20	2.00	3.00	2.20	0.00	0.00	0.00	2.00	2.00	2.00	3.00	3.00	3.00	0.20	1.00	0.36	0.24	2.00	0.59				
13	200060	Applied Chemistry II	1.80	2.00	1.84	1.40	2.00	1.52	1.80	2.00	1.84	1.20	2.00	1.36	1.20	2.00	1.36	1.20	3.00	1.56	1.20	2.00	1.36	1.20	2.00	1.36	0.00	0.00	0.00	1.50	2.00	1.60	1.20	2.00	1.36	0.60	2.00	0.88	0.00	0.00	0.00				
14	200061	Basic Engineering Mechanics	1.80	2.00	1.84	1.68	3.00	1.94	1.20	2.00	1.36	1.20	2.00	1.36	1.20	2.00	1.36	1.20	3.00	1.56	1.20	2.00	1.36	1.20	2.00	1.36	0.00	0.00	0.00	0.60	2.00	0.88	0.60	2.00	0.88	0.60	2.00	0.88	0.00	0.00	0.00				
15	200062	Basic Civil and Mechanical Engineering	1.80	2.00	1.84	1.80	2.00	1.84	1.20	2.00	1.36	1.20	2.00	1.36	1.80	2.00	1.84	1.20	3.00	1.56	1.20	2.00	1.36	1.80	2.00	1.84	1.20	2.00	1.36	0.00	0.00	0.00	0.60	2.00	0.88	0.60	2.00	0.88	0.00	0.00	0.00				
16	200063	Basic Electrical and Electronics Engineering	3.00	3.00	3.00	2.00	3.00	2.20	2.00	3.00	2.20	1.67	3.00	1.94	2.00	3.00	2.20	2.00	2.00	2.00	2.00	3.00	2.20	2.00	3.00	2.20	0.00	0.00	0.00	1.00	2.00	1.20	1.00	2.00	1.20	1.00	2.00	1.20	0.00	0.00	0.00				
17	200104	Applied Physics & Chemistry Lab II	2.40	3.00	2.52	2.00	3.00	2.20	2.00	3.00	2.20	2.00	3.00	2.20	3.00	3.00	3.00	2.00	0.00	1.60	2.00	3.00	2.20	3.00	3.00	3.00	2.00	3.00	2.20	0.00	0.00	0.00	3.00	3.00	3.00	1.40	2.00	1.52	1.00	2.00	1.20	0.00	0.00	0.00	
18	200105	Computer Lab - II	3.00	3.00	3.00	2.80	3.00	2.84	2.00	3.00	2.20	2.00	3.00	2.20	3.00	3.00	3.00	2.00	0.00	1.60	2.00	3.00	2.20	3.00	3.00	3.00	2.00	3.00	2.20	0.00	0.00	0.00	3.00	3.00	3.00	1.40	2.00	1.52	1.00	2.00	1.20	0.00	0.00	0.00	
19	201001	Applied Mathematics II	1.20	2.00	1.36	1.20	2.00	1.36	1.20	2.00	1.36	1.20	2.00	1.36	1.20	2.00	1.36	1.20	3.00	1.56	1.50	2.00	1.60	1.20	2.00	1.36	0.90	1.00	0.92	0.00	0.00	0.00	1.20	2.00	1.36	0.96	1.00	0.97	0.72	2.00	0.98	1.00	2.00	1.20	
20	204001	Electric circuits and Networks (Practical Component)	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	2.00	3.00	2.20	1.67	3.00	1.94	2.00	3.00	2.20	2.00	3.00	2.20	1.80	2.00	1.84	0.00	0.00	0.00	2.00	2.00	2.00	2.00	3.00	2.20	1.25	2.00	1.40	0.00	0.00	0.00
21	204002	Electrical Machines - I	1.80	2.00	1.84	1.20	2.00	1.36	1.32	3.00	1.66	1.40	2.00	1.52	1.20	2.00	1.36	0.90	3.00	1.32	1.20	2.00	1.36	1.20	2.00	1.36	1.08	2.00	1.26	0.00	0.00	0.00	1.20	2.00	1.36	1.80	2.00	1.84	0.72	1.00	0.78	0.00	0.00	0.00	
22	204003	Electromagnetic Field theory	3.00	3.00	3.00	1.60	2.00	1.68	2.67	3.00	2.74	2.00	3.00	2.20	1.50	2.00	1.60	2.00	3.00	2.20	2.00	3.00	2.20	1.50	2.00	1.60	1.80	2.00	1.84	0.00	0.00	0.00	1.40	2.00	1.52	2.00	3.00	2.20	1.50	2.00	1.60	1.00	2.00	1.20	



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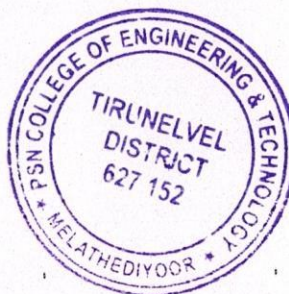
23	204004	Electronic Devices and circuits	2.60	3.00	2.68	3.00	3.00	3.00	2.20	3.00	2.36	2.00	3.00	2.20	2.00	3.00	2.20	1.75	3.00	2.00	2.00	3.00	2.20	1.50	2.00	1.60	2.00	3.00	2.20	0.00	0.00	0.00	2.00	3.00	2.20	2.20	3.00	2.36	1.50	3.00	1.80	0.00	0.00	0.00			
24	204005	Measurements & Instrumentation	2.40	3.00	2.52	1.60	2.00	1.68	1.87	2.00	1.90	1.20	2.00	1.36	1.60	2.00	1.68	1.20	0.00	0.96	1.60	2.00	1.68	1.33	2.00	1.46	1.60	2.00	1.68	0.80	3.00	1.24	1.60	2.00	1.68	1.60	2.00	1.68	2.40	3.00	2.52	2.00	3.00	2.20			
25	204101	Electrical Machines - I Laboratory	3.00	3.00	3.00	2.00	3.00	2.20	2.00	3.00	2.20	3.00	3.00	3.00	2.00	3.00	2.20	1.67	2.00	1.74	2.00	3.00	2.20	1.50	2.00	1.60	3.00	3.00	3.00	3.00	3.00	3.00	2.00	3.00	2.20	2.00	3.00	2.20	1.20	3.00	1.56	0.00	0.00	0.00			
26	204102	Electronic circuits Laboratory	2.80	3.00	2.84	3.00	3.00	3.00	2.20	3.00	2.36	2.20	3.00	2.36	2.00	3.00	2.20	1.75	3.00	2.00	2.00	3.00	2.20	2.00	3.00	2.20	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	2.00	3.00	2.20	1.20	2.00	1.36	0.00	0.00	0.00			
27	204103	Measurements and Instrumentation Laboratory	3.00	3.00	3.00	2.40	3.00	2.52	2.00	3.00	2.20	1.75	2.00	1.80	2.00	3.00	2.20	2.00	0.00	1.60	2.00	3.00	2.20	2.00	3.00	2.20	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	2.00	3.00	2.20	1.20	2.00	1.36	0.00	0.00	0.00			
28	201801	Environmental studies	2.00	3.00	2.20	2.20	3.00	2.36	2.00	3.00	2.20	2.00	3.00	2.20	0.00	0.00	0.00	0.00	2.00	2.00	2.00	3.00	3.00	3.00	2.00	3.00	2.20	2.00	3.00	2.20	1.00	3.00	1.40	1.75	2.00	1.80	2.00	3.00	2.20	2.33	3.00	2.46	0.00	0.00	0.00		
29	201007	Applied Mathematics - III	1.92	2.00	1.94	1.60	2.00	1.68	1.76	2.00	1.81	1.76	2.00	1.81	1.60	2.00	1.68	2.00	2.00	2.00	1.60	2.00	1.68	1.20	2.00	1.36	1.20	2.00	1.36	1.08	2.00	1.26	1.08	3.00	1.46	0.84	1.00	0.87	1.20	2.00	1.36	0.75	2.00	1.00	1.25	2.00	1.40
30	204007	Electrical Machines - II	1.32	2.00	1.46	1.32	2.00	1.46	1.20	2.00	1.36	1.20	2.00	1.36	1.20	2.00	1.68	1.87	3.00	2.10	1.60	2.00	1.68	1.20	2.00	1.36	1.60	2.00	1.68	0.80	3.00	1.24	1.60	2.00	1.68	2.24	3.00	2.39	0.96	1.00	0.97	1.20	2.00	1.36			
31	204008	Control Systems	2.40	3.00	2.52	2.40	3.00	2.52	2.40	3.00	2.52	2.40	3.00	2.52	1.60	2.00	1.68	1.87	3.00	3.00	3.00	3.00	2.20	3.00	2.36	2.00	3.00	2.20	2.00	3.00	2.20	2.00	3.00	2.20	1.00	2.00	1.20	3.00	3.00	3.00	1.00	2.00	1.20	1.00	2.00	1.20	
32	204009	Transmission and Distribution	3.00	3.00	3.00	2.40	3.00	2.52	2.00	3.00	2.20	2.00	3.00	2.20	2.00	3.00	2.20	2.00	3.00	3.00	3.00	2.20	2.00	2.36	2.00	3.00	2.20	2.00	3.00	2.20	2.00	3.00	2.20	1.00	2.00	1.20	3.00	3.00	3.00	1.00	2.00	1.20	1.00	2.00	1.20		
33	204010	Linear Integrated and Digital logic Circuits	2.60	3.00	2.68	2.60	3.00	2.68	2.40	3.00	2.52	2.00	3.00	2.20	2.00	3.00	2.20	2.50	2.00	2.40	1.50	2.00	1.60	2.00	3.00	2.20	2.00	3.00	2.20	0.00	0.00	0.00	2.00	3.00	2.20	1.80	2.00	1.84	0.00	0.00	0.00	0.00	0.00	0.00			



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34	204006	Data Structures and Object Oriented Programming in C++	1.80	2.00	1.84	1.80	2.00	1.84	2.00	3.00	2.20	1.50	2.00	1.60	2.00	3.00	2.20	1.33	0.00	1.06	2.00	3.00	2.20	2.00	3.00	2.20	1.67	2.00	1.74	1.40	3.00	1.72	2.00	3.00	2.20	2.00	3.00	2.20	1.00	2.00	1.20	0.00	0.00	0.00
35	204104	Electrical Machines - II Laboratory	3.00	3.00	3.00	2.00	3.00	2.20	2.00	3.00	2.20	1.67	2.00	1.74	2.00	3.00	2.20	1.50	3.00	1.80	2.00	3.00	2.20	2.00	3.00	2.20	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	1.00	2.00	1.20	3.00	3.00	3.00	2.00	3.00	2.20	
36	204105	Linear Integrated and Digital Circuits Laboratory	2.60	3.00	2.68	2.60	3.00	2.68	2.40	3.00	2.52	2.00	3.00	2.20	2.00	3.00	2.20	1.50	3.00	1.80	2.00	3.00	2.20	2.00	3.00	2.20	1.00	2.00	1.20	0.00	0.00	0.00	2.00	3.00	2.20	1.80	2.00	1.84	0.20	1.00	0.36	0.00	0.00	0.00
37	204106	Data Structures and Object Oriented Programming Laboratory	3.00	3.00	3.00	2.20	3.00	2.36	2.00	3.00	2.20	2.00	3.00	2.20	2.00	3.00	2.20	1.50	1.00	1.40	2.00	3.00	2.20	1.67	2.00	1.74	2.00	3.00	2.20	0.00	0.00	0.00	1.40	2.00	1.52	2.00	3.00	2.20	0.20	1.00	0.36	0.00	0.00	0.00
38	204011	Power System Analysis	1.80	2.00	1.84	0.96	2.00	1.17	1.20	2.00	1.36	1.00	2.00	1.20	1.20	2.00	1.36	0.90	1.00	0.92	0.60	1.00	0.68	0.90	1.00	0.92	1.20	2.00	1.36	0.00	0.00	0.00	1.44	2.00	1.55	1.80	2.00	1.84	1.80	2.00	1.84	0.00	0.00	0.00
39	204012	Power Electronics	3.00	3.00	3.00	3.00	3.00	3.00	1.67	2.00	1.74	2.00	3.00	2.20	1.60	2.00	1.68	2.00	3.00	2.20	2.00	3.00	2.20	2.50	3.00	2.60	1.50	2.00	1.60	2.00	3.00	2.20	2.00	3.00	2.20	2.00	3.00	2.20	1.50	2.00	1.60	1.25	2.00	1.40
40	204013	Design of Electrical Machines	2.40	3.00	2.52	2.40	3.00	2.52	1.44	2.00	1.55	1.60	2.00	1.68	1.60	2.00	1.68	1.12	2.00	1.30	1.28	2.00	1.42	1.60	2.00	1.68	1.60	2.00	1.68	1.60	3.00	1.88	0.80	1.00	0.84	1.44	2.00	1.55	2.40	3.00	2.52	1.20	2.00	1.36
41	204014	High voltage Engineering	2.40	3.00	2.52	1.28	2.00	1.42	1.60	2.00	1.68	1.28	2.00	1.42	1.60	2.00	1.68	1.60	0.00	1.28	1.20	2.00	1.36	1.60	2.00	1.68	1.60	2.00	1.68	0.80	3.00	1.24	1.12	2.00	1.30	1.60	2.00	1.68	0.16	1.00	0.33	0.00	0.00	0.00
42	204015	Industrial Automation	1.80	3.00	2.04	1.80	2.00	1.84	1.20	2.00	1.36	1.08	2.00	1.26	1.20	2.00	1.36	1.00	2.00	1.20	0.96	1.00	0.97	1.20	2.00	1.36	0.90	2.00	1.12	0.84	3.00	1.27	0.84	2.00	1.07	0.96	1.00	0.97	1.80	2.00	1.84	2.00	3.00	2.20
43	209903	Industrial Safety	3.00	3.00	3.00	3.00	3.00	3.00	2.00	3.00	2.20	2.00	3.00	2.20	2.00	3.00	2.20	1.33	3.00	1.66	1.60	2.00	1.68	2.00	3.00	2.20	1.50	2.00	1.60	1.40	2.00	1.52	2.00	3.00	2.20	1.40	2.00	1.52	3.00	3.00	3.00	2.00	3.00	2.20



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54	204109	English Language Lab for Engineers	3.00	3.00	3.00	2.00	3.00	2.20	1.20	2.00	1.36	1.25	2.00	1.40	1.67	2.00	1.74	2.00	0.00	1.60	1.67	2.00	1.74	2.00	3.00	2.20	3.00	3.00	3.00	3.00	3.00	3.00	3.00	2.00	2.00	2.00	1.00	2.00	1.20	0.00	0.00	0.00			
55	204110	Power system and Automation Laboratory	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	2.00	3.00	2.20	2.00	3.00	2.20	2.67	3.00	2.74	1.00	2.00	1.20	0.40	1.00	0.52	2.00	2.00	2.00	1.80	2.00	1.84	2.00	3.00	2.20	2.80	3.00	2.84	1.20	2.00	1.36	0.00	0.00	0.00	
56	204020	Solid State Drives	3.00	3.00	3.00	3.00	3.00	3.00	0.00	0.00	0.00	1.00	2.00	1.20	1.00	2.00	1.20	1.00	3.00	1.40	1.00	2.00	1.20	1.00	2.00	1.20	1.33	2.00	1.47	2.00	3.00	2.20	1.00	3.00	1.40	2.00	3.00	2.20	0.00	0.00	0.00	0.00	0.00		
57	204021	Renewable Energy Sources	3.00	3.00	3.00	1.00	2.00	1.20	1.00	2.00	1.20	1.00	2.00	1.20	0.00	0.00	0.00	3.00	3.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	2.00	1.20	1.00	3.00	1.40	1.00	2.00	1.20	3.00	3.00	3.00	0.00	0.00	0.00	0.00	0.00	
58	204022	Special Electrical Machines	3.00	3.00	3.00	1.60	3.00	1.88	1.20	2.00	1.36	1.20	2.00	1.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	2.00	2.00	3.00	2.20	1.60	3.00	1.88	2.40	3.00	2.52	3.00	3.00	3.00	0.00	0.00	0.00	0.00	0.00		
59	204023	Protection and switch gear	1.00	2.00	1.20	2.60	3.00	2.68	3.00	3.00	3.00	3.00	3.00	3.00	1.80	2.00	1.84	2.00	3.00	2.20	2.00	3.00	2.20	1.00	2.00	1.20	1.25	3.00	1.60	0.00	0.00	0.00	1.80	2.00	1.84	2.00	3.00	2.20	0.00	0.00	0.00	1.00	2.00	1.20	
60	204024	Embedded system Design	1.00	2.00	1.20	1.00	3.00	1.40	3.00	3.00	3.00	3.00	3.00	3.00	1.80	2.00	1.84	2.00	3.00	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.25	2.00	1.40	0.00	0.00	0.00	1.80	2.00	1.84	2.00	3.00	2.20	0.00	0.00	0.00	1.00	2.00	1.20
61	204210	Flexible AC Transmission System	3.00	3.00	3.00	3.00	3.00	3.00	0.00	0.00	0.00	1.00	2.00	1.20	1.00	2.00	1.20	1.00	3.00	1.40	1.00	2.00	1.20	1.00	2.00	1.20	1.33	2.00	1.47	2.00	3.00	2.20	1.00	2.00	1.20	2.00	3.00	2.20	0.00	0.00	0.00	0.00	0.00	0.00	
62	204111	Power System Simulation Laboratory	3.00	3.00	3.00	2.40	3.00	2.52	1.20	2.00	1.36	1.40	2.00	1.52	2.00	3.00	2.20	0.00	0.00	0.00	1.00	2.00	1.20	1.00	2.00	1.20	1.00	2.00	1.20	1.00	3.00	1.40	1.00	2.00	1.20	3.00	3.00	3.00	1.50	2.00	1.60	1.75	2.00	1.80	
63	204112	Electrical Estimation, Costing and power wiring Laboratory	3.00	3.00	3.00	2.40	3.00	2.52	1.20	2.00	1.36	1.40	2.00	1.52	2.00	3.00	2.20	0.00	0.00	0.00	1.00	2.00	1.20	1.00	2.00	1.20	1.00	2.00	1.20	1.00	2.00	1.20	1.00	2.00	1.20	3.00	3.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	
64	204803	Energy studies	1.00	2.00	1.20	1.00	2.00	1.20	3.00	3.00	3.00	3.00	3.00	3.00	1.80	2.00	1.84	2.00	2.00	2.00	0.00	0.00	0.00	1.00	2.00	1.20	1.25	2.00	1.40	0.00	0.00	0.00	1.80	2.00	1.84	2.00	3.00	2.20	0.00	0.00	0.00	1.00	2.00	1.20	

65	204025	Conservation and Utilization of Electrical Energy	3.00	3.00	3.00	3.00	3.00	3.00	1.60	2.00	1.68	1.80	2.00	1.84	2.00	3.00	2.20	2.00	2.00	2.00	1.60	2.00	1.68	2.00	2.00	2.00	1.50	3.00	1.80	1.40	3.00	1.72	1.75	2.00	1.80	1.00	3.00	1.40	1.20	2.00	1.36	1.20	2.00	1.36	
66	204214	Smart Grid	3.00	3.00	3.00	3.00	3.00	0.00	0.00	0.00	1.00	2.00	1.20	1.00	2.00	1.20	1.00	2.00	1.20	1.00	2.00	1.20	1.00	2.00	1.20	1.33	2.00	1.47	0.40	2.00	0.72	1.00	2.00	1.20	2.00	3.00	2.20	1.20	2.00	1.36	1.20	2.00	1.36		
67	204218	Power Electronics Applications in Power Systems	3.00	3.00	3.00	1.60	2.00	1.68	1.20	2.00	1.36	1.20	2.00	1.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.20	2.00	2.00	2.00	0.00	0.00	0.00	2.40	3.00	2.52	3.00	2.00	2.80	1.20	2.00	1.36	1.20	2.00	1.36
68	204301	Project Work	1.00	2.00	1.20	1.00	2.00	1.20	3.00	3.00	3.00	3.00	3.00	3.00	1.80	2.00	1.84	2.00	3.00	2.20	0.00	0.00	0.00	0.00	0.00	0.00	1.25	2.00	1.40	0.00	0.00	0.00	1.80	2.00	1.84	2.00	2.00	2.00	0.00	0.00	0.00	1.00	0.00	0.80	
		Average PO Attainment	2.58			2.22			2.07			2.08			3.18			2.77			2.84			2.87			2.21			2.34			2.02			2.83			2.12						



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