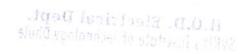# Shri Vile Parle Kelavani Mandal's
Institute of Technology, Dhule
Department of Electrical Engineering

Course Outcome Statements for Academic Year 2023-24 (LAY)

SM	Subject Code	Subject Name	CO Number	Course outcome Statement
	BTBS101	Engineering Mathematics – 1	CO101.1	Apply the matrix technique (Linear algebra) to find solutions of system of linear equations arising in many engineering problem
			CO101.2	Demonstrate the concept partial derivatives and their applications to Maxima/ Minima , series expansion of multi valued functions
			CO101.3	Compute Jacobian of functions of several variables and their applications to engineering problems
			CO101.4	Identify and sketch of curves in various coordinate system
			CO101.5	Evaluate multiple integrals and their applications to area and volume
	BTBS102	Engineering Chemistry	CO102.1	Develop the importance of water in industrial and domestic usage.
			CO102.2	Study the knowledge of phases, components, degree of freedom and apply it in various phase diagrams.
			CO102.3	Apply the knowledge of corrosion to prevent corrosion of metallic and non-metallic surfaces.
			CO102.4	Examine a fuel and suggest alternative fuels.
			CO102.5	Study the basic concept of electrochemistry and use their applications in the industry.
	BTES103	Engineering Mechanics	CO103.1	Know and apply fundamental Laws of Engineering Mechanics
			CO103.2	Know and apply conditions of static equilibrium to analyze given force system
			CO103.3	Compute Centre of gravity and Moment of Inertia of plane surfaces
			CO103.4	Compute the motion characteristics of a body /particle for a Rectilinear and Curvilinear motion.
			CO103.5	Know and discuss relation between force and motion characteristics
SM-1	BTES104	Computer Programming in C	CO104.1	To illustrates the use of editors, translation, flowchart and Algorithm in C language
			CO104.2	To recognize various operators and implement program in C using operators
			CO104.3	To illustrate the use of control statement and Implement C program using control statement
			CO104.4	To describe the concept of Array in C language and implement the C program using one and multidimensional Array
			CO104.5	To describe the control of Structures and Pointer and implement structure and pointer concept in C Language
	BTES105L	Workshop Practices	COBTES206L.1	Perform carpentry operations like planning, cutting, fitting of joints using hand and power tools
			COBTES206L.2	Perform fitting operations such as marking, cutting, filling, drilling and tapping using hand and power tools and also basic plumbing Operations.
			COBTES206L.3	Perform sheet metal operations such as marking, shearing, bending, punching, and soldering using hand and power tools and Welding operations like joint preparations, electrode selections.
			COBTES206L.4	Understand the simple machining skills on lathe machine operations and its use during their project work
	BTES106	Basic Electrical and Electronic Engineering	CO106.1	Apply basic ideas and principles of electrical engineering
			CO106.2	Identify protection equipment and energy storage devices
			CO106.3	Differentiate electrical and electronics domains and explain the operation of diodes and transistors.
			CO106.4	Acquire knowledge of digital electronics
			CO106.5	Design simple combinational and sequential logic circuits.
	BTBS107L	Engineering Chemistry Lab	CO107L.1	Test the quality of water sample by determination of hardness, acidity, alkalinity and dissolve oxygen present in it.
			CO107L.2	Examine the chemical property of an oil and quality of bleaching powder.
			CO107L.3	Determine the concentration of specific ions present in the solution using titration methods.
			CO107L.4	Examine the physical properties of liquid sample.
	BTES108L	Engineering Mechanics Lab	CO108L.1	Calculate beam reaction by Parallel Force apparatus and graphics static method and forces in truss.
			CO108L.2	Evaluate co-efficient of friction and centroid of irregular shaped bodies.
			CO108L.3	Evaluate mechanical advantage, Velocity ratio, efficiency and mass moment of inertia.
	BTBS201	Engineering Mathematics – II	CO201.1	Discuss the need and use of complex variables to find roots, to separate complex quantities and to establish relation between circular and hyperbolic functions
			CO201.2	Solve first and higher order differential equations and apply them as a mathematical modeling in electric and mechanical systems
			CO201.3	Find Fourier series representation of periodic functions over different intervals.
			CO201.4	Demonstrate the concept of vector differentiation and interpret the physical and geometrical meaning of gradient, divergence &curl in various engineering streams
			CO201.5	Apply the principles of vector integration to transform line integral to surface integral, surface to volume integral &vice versa using Green's , stokes and Gauss divergence theorems
	BTBS202	Engineering Physics	CO202.1	Apply the concept of types of oscillations in engineering.
			CO202.2	Apply the fundamentals of interference, polarization in LASER and optical fiber in engineering.
			CO202.3	Determine the application of trajectory of charge particle in electromagnetic field, with basic principles of quantum physics
			CO202.4	Determine the different types of crystal structures using X-ray diffraction technique, with study of Maxwell's equations
			CO202.5	Summarize the fundamentals of Magnetism, Superconductor, Semiconductor materials and its applications in engineering.
	BTES203	Engineering Graphics	CO203.1	Use of drawing instruments effectively for drawing and dimensioning
			CO203.2	Explain conventions and methods of engineering drawing
			CO203.3	Apply concepts of projections of points, lines, planes, solids and section of solids
			CO203.4	Construct isometric and orthographic views of given objects
	BTHM204	Communication Skills	CO204.1	Apply Speaking and Writing skills in professional as well as social situations.
			CO204.2	Overcome Mother Tongue Influence and demonstrate neutral accent while exercising English.
			CO204.3	Apply communication skills for Presentations, Group Discussion and interpersonal interactions.
			CO204.4	Apply grammar correctly during Speaking and Writing situations especially in context with Presentations, Public Speaking, Report writing and Business Correspondence.
SM-2	BTES205	Energy and Enviornmental Engineering	CO205.1	Identify conventional, non-conventional energy sources.
			CO205.2	Know and discuss power consuming and power developing devices for effective utilization and power consumption
			CO205.3	Identify various sources of air, water pollution and its effects.
			CO205.4	Know and discuss noise, soil, thermal pollution and Identify solid, biomedical and hazardous waste.
	BTES206	Basic Civil and Mechanical Engineering	CO206.1	Identify various Civil Engineering materials and choose suitable material among various options.
			CO206.2	Apply principles of surveying to solve engineering problem.
			CO206.3	Identify various Civil Engineering structural components and select appropriate structural system among various options.
			CO206.4	Explain and define various properties of basic thermodynamics, materials and manufacturing processes.
			CO206.5	Know and discuss the working principle of various power consuming and power developing devices.
	BTBS207L	Engineering Physics Lab	CO207L.1	Describe the ultrasonic interferometer's working and estimate the velocity of ultrasonic wave in various liquid media.
			CO207L.2	Determine the wavelength of He-Ne Laser and numerical aperture of optical fibre.
			CO207L.3	Determine the operating voltage of GM Tube and charge to mass ratio of electron by applying the concept of trajectory of charge particle in electric and magnetic field.
			CO207L.4	Understand & apply the characteristics of materials for semiconductor engineering.
			CO207L.5	Identify and draw the given crystal plane using the concept of miller indices.

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			CO208.1	Use of drawing instruments effectively for drawing and dimensioning
	BTES208L	Engineering Graphics Lab	CO208.2	Implement various fundamental geometrical constructions
			CO208.3	Apply concepts of projections of points, lines, planes, solids and section of solids
			CO208.4	Construct isometric and orthographic views of given objects
	BTHM209L	Communication Skills Lab	CO209L.1	To illustrate the process of Introduction.
			CO209L.2	To use articulation of Phonemic sounds exercising Transcription, Stress and Intonations.
			CO209L.3	To apply Verbal and Non-verbal communication through Extempore, GD, Debate, Presentation and Interviews.
	BTES210S	Seminar	CO210S.1	Learn to differentiate information from data to present it in meaning full way
			CO210S.2	Learn to use and cite resources
			CO210S.3	Develop the ability of critical thinking
SEM-3	BTBSC301	Engineering Mathematics-III	CO301.1	Find Laplace transform of functions using various formulas and properties. Evaluate particular types of integration.
			CO301.2	Find Inverse Laplace transform of functions using various formulas and properties. Solve linear differential/simultaneous linear differential equation using Laplace and inverse Laplace transform.
			CO301.3	Find Fourier and inverse Fourier transform, Fourier sine and inverse Fourier sine transform. Cosine transform and inverse Fourier cosine Transform of functions.
			CO301.4	Form PDE by eliminating arbitrary constant, solve PDE and use PDE to solve one and two dimensional heat flow equation.
			CO301.5	Determine Analytic functions//Bilinear transformation/ apply Cauchy's theorem/Cauchy's integral formula and Residue theorem to solve contour integration.
	BTEEC302	Electrical Machine-I	CO302.1	To study diff. types, construction and operating principle of diff. types of electrical machines
			CO302.2	To illustrate the principle of energy conversion in single, multilpe excited machines and the concept of co energy.
			CO302.3	To analyze the performance and Characteristics of electrical machines by conducting various test.
	BTEEC303	Electrical and Electronics Measurement	CO303.1	To understand philosophy of measurement.
			CO303.2	To understand different methods of analog and digital measurement.
			CO303.3	To study principle of construction and operation of different transducer and display methods.
	BTHM304	Basic Human Rights	CO304.1	To study concept of human values,human rights & human duties
			CO304.2	To explain social structure and concept of Society, Religion, Culture with their Inter-Relationship
			CO304.3	To study freedom,democracy and human Rights in Indian Constitution.
	BTES305	Engineering Material Science	CO305.1	To understand electrical conduction & dielectric material
			CO305.2	To study properties of magnectic & semiconducting material
			CO305.3	To study about insulating and special purpose materials
	BTEEL306	Electrical Machine-I lab	CO306.1	To Determine Polarity and Transformation ratio of Single phase Transformer
			CO306.2	To study diff. parts, types of connections and operations of diff. types of electrical machines
			CO306.3	To analyze the performance and draw Characteristics of electrical machines by conducting various test.
	BTEEL307	Electrical and Electronics Measurement Lab	CO307.1	To illustrate the working of basic measuring instruments
			CO307.2	To discuss range extension methods for measuring instruments.
			CO307.3	To experiment the various methods of resistance, inductance, Capacitance and Power Measurement
			CO307.4	To use Digital Instrument for measurement of electrical quantities
			CO307.5	To use transducer for measurement of various quantities
	BTEEM308	Mini Project-I	CO308.1	To recognize various resources and components using data sheet in Electrical Engineering
			CO308.2	To implement projects based on the circuit simulation software (Tina-TI)
			CO308.3	To desing, prepration and analysis of PCB along with report writing of project
	BTES211P	Field training	CO211.1	To demonstrate the knowledge gained during internship with the help of survey report writing and presentation
			CO211.2	To discover engineering and management principles useful at specific work environment
			CO211.3	To implement the learning acquired during internship to solve environmental, societal issues and in their future endeavours
			CO211.4	To practice core values of ethical principles professional ethics and responsibilities
SEM-4	BTEEC401	Network theory	CO401.1	To review basic components of electric network.
			CO401.2	To design and develop network equations and their solutions.
			CO401.3	To apply Laplace theorem for electric network analyses
			CO401.4	To analyze AC circuit.
	BTEEC402	Power System	CO402.1	Discuss basic operation of power system & its components.
			CO402.2	Discuss Various design aspects of transmission lines & their performance paramters
			CO402.3	To become familiar with the types of distribution system & its various parameters.
	BTEEC403	Electrical Machine-II	CO403.1	To study different methods of speed control of AC Machine
			CO403.2	To study importance and procedure of different performance test on AC Machine
			CO403.3	Interpret the behavior of AC machines using phasors, equivalent circuits and its operating characteristics.
	BTBS404	Analog and Digital Electronics	CO404.1	To illustrate working of transistor as an amplifier, types and characteristics of an amplifier.
			CO404.2	To comprehend constructional details, characteristics and applications of operational amplifier.
			CO404.3	To distinguish basic number system and fundamentals of Boolean algebra and various minimization techniques.
			CO404.4	To comprehend types, design and characteristics of logic gates.
			CO404.5	To implement digital systems using combinational and sequential circuits.
	BTEEPE405	Advance renewable Energy sources	CO405.1	To discuss fuel cell and its performance parameter
			CO405.2	To discuss different types of renewable energy system, their components and their performance parameters
			CO405.3	To explain different types of storage systems
			CO405.4	To describe different aspects of alternative energy sources and power generation from them along with their integration with power grid
	BTEEL406	Network theory Lab	CO406.1	Verify the laws of electrical networks.
			CO406.2	Verify the various theorems of electrical networks.
			CO406.3	Analyze the response of RLC circuits.
	BTEEL407	Power System lab	CO407.1	To Understand basic operation of power Plants
			CO407.2	To discuss the major equipments used in power station.
			CO407.3	To recognize Various components of Transmission Lines
			CO407.4	To Analyze the Performance of different types of transmission Lines
	BTEEL408	Electrical Machine-II lab	CO408.1	To conduct test on induction machine to determine the performance characteristics
			CO408.2	To conduct test on synchronous generator (alternator) to determine the performance characteristics
			CO408.3	To conduct test on synchronous motor to draw the performance curves
	BTBSL409	Analog and Digital Electronics lab	CO409.1	Examine input and output characteristics of transistor in CE mode and Frequency response of RC coupled and transformer coupled amplifiers.
			CO409.2	Estimate Op-Amp parameters and examine operation of Op-Amp in inverting and noninverting mode.
			CO409.3	Study and verify Basic Gates and Universal Gates (NAND & NOR) truth table. and implement Boolean Functions using the gates.
			CO409.4	Design and analyze combinational and sequential circuits.
	BTEEC501	Power System Analysis	CO501.1	To illustrate the modeling of power systems and per unit system and its applications
			CO501.2	To obtain the load flow analysis of power system networks using different iterative methods.
			CO501.3	To analyze the transients and shrot circuits on transmission lines.
			CO501.4	To obtain the sequence impedances and networks of electrical equipment like transmisson lines, generators and synchronous machines.

		CO501.5	To analyze unsymmetrical faults and security/contigency of transmission lines.
	Microprocessor and Microcontroller	CO502.1	To know the architecture of 8085 and 8051.
BTEEC502		CO502.2	To understand interfacing and interrupt features of 8085 and 8051.
		CO502.3	To develop program for basic applications.
BTEEC503	Power Electronics	CO503.1	Explain the need for and selection of appropriate switching device for power converters.
		CO503.2	Analyze the performance of controlled and uncontrolled converters.
		CO503.3	Analyze the performance of DC-DC and DC-AC converters.
		CO503.4	Analyze the performance of AC voltage controllers
BTEEPE504B	Power Quality Issues	CO504.1	To discuss basics related to importance of power quality, types & sources of power quality problems and power quality evaluation
		CO504.2	To demonstrate different types power quality problems, their effects and corrective measure to maintain the power quality
		CO504.3	To describe important aspects of power quality monitoring
BTEEOE505C	Electrical Safety	CO505C.1	To understand the electrical safety in various hazards and general requirements for grounding and bonding
		CO505C.2	To understand safety programmer structure and safety maintenance requirement
		CO505C.3	To understand the National electrical safety code and Indian Electricity acts related to safety
BTHM506A	Foreign Language	CO506.1	Students will demonstrate, at a minimum level of proficiency in speaking German language
		CO506.2	To gain a background in the literary, linguistic and cultural histories of a country.
		CO506.3	To achieve cultural competency through living in german culture and linguistic environment.
BTEEL507	Power System Analysis Lab	CO507.1	To obtain the Y bus matrix of given power system using MiPower
		CO507.2	To analyze the load flow problem for a given power system using iterative methods ike Gauss siedel, Newton Raphson and Fast Deoupled methods using MiPower.
		CO507.3	To obtain the short circuit analysis for various faults like L-G, L-L, L-L-G and L-L-L on transmission lines using MiPower.
BTEEL508	Microprocessor and Microcontroller	CO508.1	To study Characteristics of salient pole synchronous machine
		CO508.2	To study the power limit and various compensation techniques on Transmission line model.
		CO508.3	To perform Different types of fault analysis in AC Network Analyzer.
		CO508.4	To identify & formulate solutions to problems relevant to power system using software tools.
BTEEL509	Power Electronics lab	CO509.1	To demonstrate the characteristics of power semiconductor switches.
		CO509.2	To demonstrate controlled converters circuit.
		CO509.3	To analyze performance of DC-DC, DC- AC and AC-DC converters.
BTEEM509	Mini Project-II	CO509.1M	To explain the knowledge gained during project preparation with help of survey report writing
		CO509.1M	To apply basic principles of engineering to order to solve societal and environmental challangs
		CO509.1M	To use different research techniques in order to formulate problem statements
BTEEP410	Industrial Training	CO410.1	To demonstrate the knowledge gained during internship with the help of survey report writing and presentation
		CO410.2	To discover engineering and management principles useful at specific work environment
		CO410.3	To implement the learning acquired during internship to solve environmental, societal issues and in their future endeavours
		CO410.4	To practice core values of ethical principles professional ethics and responsibilities
BTEEC601	Switchgear and Protection	CO601.1	To explain need of power system protection with different types of relay
		CO601.2	To explain the construction and working of different types of circuit breakers and fuses
		CO601.3	To explain different protection schemes used in power system engineering
BTEEC602	Electrical Machine Design	CO 602.1	To explain principles of electric machine design and introduction computer aided designing
		CO 602.2	To design different moving parts of electrical machine.
		CO 602.3	To design different stationary components of electrical machine
BTEEC603	Control System Engineering	CO603.1	To know different basic concepts and components of a control system
		CO603.2	To derive transfer functions of basic control system components.
		CO603.3	To perform stability analysis using time domain and frequency domain response on a given system.
		CO603.4	To design and analyze PID controller.
		CO603.5	To understand and analyze state variable technique
BTEEPE604A	Flexible AC Transmission System	CO604.1	Understand Load ability of the AC and HVDC transmission line.
		CO604.2	Emphasize the importance and prerequisite of the FACTS Controller along with the objective of shunt compensation.
		CO604.3	Analyze the reactive power compensation techniques through various Thyristorized Shunt Controller.
		CO604.4	Analyze the Current and Voltage control with series compensators.
		CO604.5	Analyze the real and reactive power flow and control in transmission lines with Static and combined shunt-series compensators.
BTEEPE604B	Smart Grid Technology	CO604B.1	To discuss various aspects of the smart grid Technologies, Components, Architectures and Applications
		CO604B.2	To Use RE Technology in Micro Grid,DG System & Electric Vehicle
		CO604B.3	To Explain Various Communication Technology used in Smart Grid
		CO604B.4	To implement different control startegies for efficient & secure operation of smart grid
BTEEOE605A	E-waste Management	CO605A.1	To illustrate the handling and management of hazardous waste.
		CO605A.2	To explain the toxicity due to hazardous waste.
		CO605A.3	To describe the occupational perspectives of recycling e-waste in India.
		CO605A.4	To illustrate the handling of electrical and electronic equipment waste.
		CO605A.5	To describe the technologies for recovering and recyling of E-waste.
BTEEOE605B	Power Plant Engineering	CO605B.1	Discuss and analyze the economics involved in power plant and interpret the performance of power plants based on load variations.
		CO605B.2	Discuss power generation by renewable and non-renewable energy resources.
		CO605B.3	Explain the issues and benefits of power plants interconnection and interface to grid.
BTEEL606	Switchgear Protection Lab	CO606.1	To determine characteristics of relay & fuses
		CO606.2	To demonstrate working of protection schemes for transmission line, transformer & alternator
		CO606.3	To identify different components of circuit breaker
BTEEL607	Electrical Machine Design lab	CO607.1	To understand general electrical symbol
		CO607.2	To understand electrical installation layout
		CO607.3	To design different components of electric machine
		CO607.4	To design Transformer
BTEEL608	Control System Engineering Lab	CO608.1	Develop standard test signals and determine the response of closed loop systems
		CO608.2	Demonstrate time and frequency domain response and stability.
		CO608.3	Design various kinds of controllers.
		CO608.4	Determine state space models and systems represented in transfer function.
BTEEM609	Seminar	CO 609.1	To study research papers for understanding of a new field, in the absence of a textbook, to summarize and review them.
		CO 609.2	To identify promising new directions of various cutting edge technologies.
		CO 609.3	To impart skills in preparing detailed report describing the project and results
		CO 609.4	To effectively communicate by making an oral presentation before an evaluation committee
BTEEC701	High Voltage Engineering	CO701.1	Illustrate the concept of electric field stresses, applications of insulating materials and methods for Non-destructive testing of equipment like transformers, insulators, isolators, bushings, lightning arrestors, cables, circuit breakers and surge diverters
		CO701.2	Explain the breakdown process in solid, liquid, and gaseous materials
		CO701.3	Explain the methods for generation and measurement of High Voltages and Currents (both ac and dc)
		CO701.4	Describe the phenomenon of over-voltage and choose appropriate insulation coordination levels based on IS & IEC Standards.
		CO702.1	Explain various methods of voltage control.

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SEM-7	BTEEC702	Power System Operation And Control	CO702.2	Analyze the transient stability of power system using swing equation and equal area criteria.
			CO702.3	Explain function and types of excitation system.
			CO702.4	Demonstrate load frequency control of single and multi area systems.
			CO702.5	Analyze unit committment and economic load dispatch problems.
	BTEEPE703D	Electrical Utilization	CO703.1	Use of different methods of electrical heating and electric welding.
			CO703.2	Illustrate the fundamentals on electrolytic Processes and their modern applications
			CO703.3	Examine various design application of illumination scheme
			CO703.4	Identify types of Traction System
			CO703.5	Elaborate Train movement & Breaking in Traction system.
	BTEEOE704C	Mechatronics	CO704.1	To Explain the fundamental concepts of Mechatronics System
			CO704.2	To discuss various Sensor & Signal Conditioning devices
			CO704.3	To explain Mechanical Acquisition System
			CO704.4	To describe role of Microprocessor in Mechatronics System
			CO704.5	To discuss PLC & Robotics System
	BTEEOE705A	Testing, Maintenance and Commissioning of Electrical Equipment	CO705.1	To understand the concept maintenance and Condition Monitoring of electrical equipment.
			CO705.2	To study the condition monitoring of electrical machine
			CO705.3	To study the maintenance and testing of electrical equipment
	BTHM706	Engineering Operations and Project Management	CO706.1	To explain various functions in organization and operations management.
			CO706.2	To explain various characteristics and framework of decision methodology.
			CO706.3	To explain manufacturing system design and forecasting demand.
			CO706.4	To explain objectives of aggregate planning and scheduling activities.
			CO706.5	To understand various types of scheduling and functioning of lean system.
	BTEEL707	High Voltage Engineering Lab	CO707.1	Demonstrate the breakdown mechanism in solid, liquid, and gaseous dielectrics.
			CO707.2	Demonstrate the performance of high-voltage generation and protection devices.
			CO707.3	Illustrate the effect of high voltage on biodiversity and protection by means of electrostatic shielding.
	BTEEP610	Internship – III	CO610.1	To demonstrate the knowledge gained during internship with the help of survey report writing and presentation
			CO610.2	To discover engineering and management principles useful at specific work environment
			CO610.3	To implement the learning acquired during internship to solve environmental, societal issues and in their future endeavours
			CO610.4	To practice core values of ethical principles professional ethics and responsibilities
	BTEEM708	In house project-I / Mini project-III	CO708.1	To demonstrate the knowledge gained during project preparation with help of survey report writing and presentation
			CO708.2	To use different research techniques in order to formulate problem statements
			CO708.3	To design the relevant solution in order to address the problem statement formulated
			CO708.4	To practice core values of ethical principles, professional ethics and responsibilities
			CO708.5	To evaluate different solution based on fixed performance parameter in order to justify the applicability
SEM-8	BTEEO801F	Introduction To Industry 4.0 And Industrial Internet Of Things	CO801F.1	Know about IoT and Industry 4.0 principles and its scope.
			CO801F.2	Learn fundamentals of cyber security, Physical system and business models.
			CO801F.3	Know fundamentals of networking protocols and sensors of IIoT.
			CO801F.4	Learn IIoT Analytics, data management and advanced technologies.
			CO801F.5	Development of application based on IIoT for Industry 4.0.
	BTEEO801G	Entreprenuership Essential	CO801G.1	To study Key issues faced by entrepreneurs & managers at different stages
			CO801G.2	To study entrepreneurial qualities, Competitive Advantage and marketing management
			CO801G.3	To understand different Financial Statements & business plan to start a startups
			CO801G.4	To identify several funding methods & study Break Even Points
			CO801G.5	To understand HR management in Start-up's
	BTEEP802	Project Phase-II	CO802.1	To demonstrate the knowledge gained during project preparation with help of survey report writing and presentation
			CO802.2	To use different research techniques in order to formulate problem statements
			CO802.3	To design the relevant solution in order to address the problem statement formulated
			CO802.4	To practice core values of ethical principles, professional ethics and responsibilities
			CO802.5	To evaluate different solution based on fixed performance parameter in order to justify the applicability

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