

Department of Mechanical Engineering

List of Course Outcomes for 2019 Regulation

SI No.	Year & Semester	Course Code	Course Name	Course Outcome
1	1 st Voor			1. Express their ideas effectively using appropriate vocabulary
				2. Develop reading skills with the help of relevant reading strategies
	1 st Semester	U19HS101	Technical English	3. Apply various interactive techniques for effective communication
	i Semester			4. Write letters, Contents and articles with proper structure
				5. Make use of writing skills to communicate effectively
			Matrix Algebra and Calculus	 Determine inverse, higher integral powers by Cayley Hamilton theorem and convert quadratic form to canonical form by orthogonal transformation
	1 st Year 1 st Semester	U19MA101		2. Analyze the convergence or divergence of series of positive terms and alternating series by various techniques
2				 Classify the extreme values of functions of two variables and functional dependence
				4. Apply integration concepts to compute area of the given surfaces, integrals in cartesian and polar coordinates
				5. Apply triple integration concepts to compute volume of the given
				surfaces and solid structure and area, volume of the surface using Gamma and Beta functions
				1. Apply the principles of electrochemistry and corrosion in engineering
	1 st Vear			2. Understand the quality of water, and its treatment methods
3	1 st Semester	U19CY101	Engineering Chemistry	3. Apply the concepts relevant to thermodynamics
	1 Semester			4. Understand the Engineering materials
				Understand the science of polymer and polymer reactions

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4	1 st Voor			 Apply appropriate looping and conditional constructs for given problems
			Problem Solving Lising	2. Use pointers, arrays and strings to solve complex problems
	1 st Semester	U19CS101	C	3. Use Structures, unions and files for problem solving
				4. Apply problem solving techniques to real world problems
				5. Make use of functions to build modular programming
				 Perform freehand sketching of basic geometrical constructions and multiple views of objects
	1 st Voor			2. Project orthographic projections of points, lines and plane surfaces
5	1 st Semester	U19ME101	Engineering Graphics	3. Draw the projection of simple solids using graphic principles
	I Semester			4. Draw the sectional views of simple solids and develop the surfaces of
				sheet metal components
				5. Draw isometric projection and perspective projection of simple objects
6	1 st Year	U19CY111	Chemistry Laboratory	1. Analyse the role of water quality related parameters
Ŭ	1 st Semester	01901111		2. Design the engineering materials against corrosion
		U19GE111	Engineering Practices	1. Fabricate and experiment with Mechanical and Carpentry components
				and pipe connections
				2. Use fabrication tools to join and assembling the structures
7	1 st Year			3. Identify and illustrate the various parts of pumps, plumbing works,
	1 st Semester		Laboratory	welding and machine tools
				4. Apply electrical & electronic fundamentals to understand basic circuit
				elements and emerging technologies
				5. Use electrical fundamentals to solve domestic / industrial wiring faults
				1. Solve problems using data types and operators
	. st			Apply appropriate looping and conditional constructs for given C programs
8	1 st Year	U19CS111	Problem Solving Using	3. Use functions to build modular programs
	T., Semester	01000111	C Laboratory	 Use appropriate IDE and tools to write, compile, debug and execute a C Program
				5. Implement structures, unions and File Operations

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				1. Apply the basic personality traits in social activity for future working
9				environment
				2. Apply receptiveness and get customized to today's corporate world
	1 st Year	U19EM101	Soft Skills	 Analyze and mingle with different types of people to overcome and eradicate fear
	I Semester			 Create a team environment in the classroom to measure their individual team player skills
				5. Create a vivid vision about their behaviour and discipline in future and
				through which they can measure themselves in socializing
				1. Apply different conversation techniques in day to day communication
	1 st Voor		Business English	2. Practice effective listening techniques during conversations
10	2 nd Semester	U19HS111		3. Develop good reading practice
	2 Semester			4. Report ideas and concepts in an effective manner
				5. Articulate effectively during discussions and presentations
		U19HS112		1. Recognize and write Japanese alphabet
				2. Speak using basic sounds of the Japanese language
11	1 st Year 2 nd Semester		Basic Jananese	3. Apply appropriate vocabulary needed for simple conversation in
			basic sapariese	Japanese language
				4. Apply appropriate grammar to write and speak in Japanese language
				5. Comprehend the conversation and give correct meaning
				1. Recognize and write German alphabet
				2. Speak using basic sounds of the German language
12	1 st Year	U19HS113	Basic German	3. Apply appropriate vocabulary needed for simple conversation in
	2 nd Semester	015115115	Busic German	German language
				4. Apply appropriate grammar to write and speak in German language
				5. Comprehend the conversation and give correct meaning
				 Compare the ideas of vector integral theorems for solving given
	1 st Year		Advanced Calculus and	problems and exhibit the relation between them
13	2 nd Semester	U19MA102	Complex Variables	2. Make use of Milne Thomson method to construct analytic functions
			complex variables	related to complex variable
				Apply the concepts of integration for complex functions in certain

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				regions to determine real integrals
				4. Apply Laplace transform and inverse transform of simple functions,
				properties, various related theorems and application to differential
				equations with constant coefficients
				5. Apply various techniques in solving differential equations
				1. Learn the basic of properties of matter and its applications
				2. Acquire knowledge on the concepts of optical devices and their
				applications in fibre optics
	1 st Year			3. Have adequate knowledge on the concepts of thermal properties of
14	2 nd Semester	U19PH101	Engineering Physics	materials and their applications in expansion joints and heat exchangers
	2 Semester			Get knowledge on advanced physics concepts of quantum theory and
				its applications in tunneling microscopes
				5. Understand the basics of quantum structures and their applications in
				spintronics and carbon electronics
		U19CY102		1. Understand the industrial importance of phase rule and alloys
				2. Explain the properties, sources of fuel and the concept of combustion
15	1 st Year		Applied Chemistry	3. Explain the construction, working and applications of energy storage
15	2 nd Semester		Applied ellemistry	devices and batteries
				4. Understand the industrial electrochemical processes
				5. Analyze the role of lubricants in the various fields
				1. Solve the scalar and vector representation of forces and analyze the
				behaviour of particles in equilibrium conditions
	1 st Voar			2. Solve the scalar and vector representation of forces and moments and
16	2 nd Semester	U19ME102	Engineering Mechanics	analyze the behaviour of rigid bodies in equilibrium conditions
	z Semester			3. Determine the frictional force and its effects by using laws of friction
				Analyze the properties of surfaces and solids
				5. Calculate dynamic forces exerted in rigid body
				1. Revise the basic concepts in electrical and electronics engineering
17	1 st Year	1110FE101	Basic Electrical and	2. Explain the basic laws governing electric circuits, operation of electrical
1/	2 nd Semester	0131101	Electronics Engineering	and electronic devices and digital circuits
				3. Summarize the various applications of electrical machines and

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				electronic devices
				4. Apply the laws and concepts to predict the performance of electrical
				circuit and machines
				5. Identify the operating characteristics of semiconductor devices, analog
				and digital circuits
				1. Understand the various experiments in the areas of optics, mechanics
18	1 st Year	U19PH111	Physics Laboratory	and thermal physics will nurture the students in all branches of
10	2 nd Semester	01511111		Engineering
				2. Interpret and formulate experiments in engineering physics
				 Impart fundamental knowledge and basic skill to draft and model
				objects
		U19ME111	Computer Aided Drafting and Modeling Laboratory	2. Develop 2D and 3D models in relevance to given drawings using CAD
19	1 st Year 2 nd Semester			Software
				3. Recognize the conventions and apply dimensioning concepts while
				drafting simple objects
				4. Draw orthographic and isometric projections of simple components
				5. Draw orthographic and isometric projections of simple components
	1 st Year 2 nd Semester	U19EM111		1. Realize the use of literature analysis
				2. Become familiar with a variety of journals and online resources and gain
			Technical Report	an understanding of their value as learning tools
20			Writing	3. Understand and utilize the unique style of technical writing
			Ŭ	4. Prepare annotated bibliographies related to the focus of their project
				5. Prepare and deliver effective oral presentations for audiences and make
				effective use of PowerPoint
				1. Apply the basic probability concepts for random variables and random
				experiments.
				2. Apply the probability concepts of one-dimensional random variable for
21	2 nd Year		Probability and Applied	standard distributions, which can describe real life phenomena.
	3 rd Semester	U19MA204	Statistics	3. Apply statistical tests in testing of hypothesis.
				4. Analyze an experiment for an appropriate situation using analysis of
				variance technique
				5. Analyze quality of the products and services using quality Control

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				 Compare different types of solid solutions and phase diagrams in metallurgical systems
				2. Apply the knowledge of heat treatments to alter the properties of materials
22	3rd	U19ME201	Engineering Materials and Metallurgy	3. Apply the knowledge of various engineering materials in real time applications
	Semester			 Select suitable non-metallic materials for the given engineering requirements
				Evaluate various mechanical properties of materials using destructive testing methods
				 Relate different types of patterns, casting process and furnaces used in foundry
	and Veer	U19ME202	Manufacturing Technology I	2. Distinguish different types of welding process and welding defects
22	2nd Year 3rd Semester			3. Explain hot working and cold working process based on its applications
23				 Summarize different types of forming processes based on its applications
				5. Explain manufacturing methods of plastic components based on its application
		U19ME203	Engineering Thermodynamics	1. Familiarize the principles of work and energy
				2. Analyse the heat and work transfer in various thermodynamics process
	2nd Year			3. Acquire knowledge about the fundamentals of thermodynamic laws,
24	3rd			concepts and principles
	Semester			4. Examine the Rankine cycle to determine the efficiency of the steam
				5 Evaluate the performance of various thermal systems based on the
				laws of thermodynamics
	and Voor			 Apply mathematical knowledge to predict the properties and characteristics of a fluid
25	2nd Year		Fluid Mechanics and	2. Understand the transport of mass, momentum and energy of a fluid
25	Semester	019101204	Machinery	 Analyse and calculate major and minor losses associated with pipe flow in piping networks
				4. Mathematically predict the nature of physical quantities, model

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				analysis, boundary layer
				5. Analyze the performance of pumps and turbines
				1. Understand the characteristics of the Constitution of India
				2. Understand the fundamental rights and duties
	2nd Year		Indian Constitution and	3. Understand the federal structure and distribution of legislative and
26	3rd	U19MC202	Tradition	financial powers
	Semester		induction i	4. Understand the constitutional amendments and emergency provisions
				5. Understand the fundamental right to equality, freedom, life and
				personal freedom
				1. Acquire the knowledge of various standards and specifications about
	2nd Year			standard machine components
27	3rd	U19ME211	Computer Aided Machine Drawing lab	2. Apply the knowledge of fits and tolerances for various applications
	Semester			3. Model components of their choice using CAD software
				4. Sketch Manual drawings of assemblies with the help of given part
				5. Create detailing of a Machine component
				1. Machine the work piece as per given drawing using Lathe / shaper /
				Slotter
	2nd Year 3rd Semester	U19ME212	Manufacturing Technology Laboratory	2. Make gear as per given drawing using gear hobbing
28				3. Use different moulding tools, patterns to prepare sand moulds
				4. Select and use different type of grinding machines to machine the given
				workpiece
				5. Prepare process plan for given component
				1. Determine the flow parameters using flow measurement devices
				2. Perform calculations related to losses in pipes
	2nd Year			3. Perform the characteristic study on Positive and Non-Positive
29	3rd	U19ME213	Fluid Mechanics and	Displacement Pump
	Semester		Machinery Laboratory	4. Interpret the performance of Impulse turbine to draw its characteristic
				curves
				5. Interpret the performance of Reaction turbine to draw its characteristic
				curves

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30	2nd Year 3rd Semester			 Assess the behaviour of materials different load conditions Estimate and interpret the effect of heat treatment on different
			Strength of Materials	materials
		019ME214	Laboratory	3. Measure the deflection of beams at different load conditions
				4. Evaluate the spring properties under compression load
				5. Characterize the microstructure of given samples
				 Apply the numerical techniques to obtain approximate solutions for algebraic, transcendental and system of linear equations.
				2. Appreciate the numerical techniques of interpolation in various
				intervals and apply the numerical techniques of differentiation and
	2nd Year		Numerical Methods	integration for engineering problems.
31	4th	U19MA207	and Partial Differential Equations	3. Execute the numerical techniques for initial value problem with
	Semester			engineering applications.
				4. Apply the mathematical principles to solve partial differential equations
				5. Solve the partial differential equations with initial and boundary
				conditions by various techniques.
	2nd Year	U19ME205	Strength of Materials	1. Understand the concepts of stress and strain in simple and compound
				bars, the importance of principal stresses and principal planes.
				2. Understand the load transferring mechanism in beams and stress
				distribution due to shearing force and bending moment.
32	4th Semester			 Apply basic equation of simple torsion in designing of shafts and helical spring
				4. Calculate the slope and deflection in beams using different methods.
				5. Analyze and design columns under critical loads & thin and thick shells
				for the applied internal and external pressures.
				1. Identify the simple mechanisms based on given application
	2nd Year		Kinematics of	2. Find velocity and acceleration of simple mechanisms
33	4th	U19ME206	Machinery	3. Construct the cam profile for different types of follower motion
	Semester			4. Identity the kinematic terminologies of spur gear and calculate speed
				5 Estimate the amount of nower transmitted by friction drive
				5. Estimate the amount of power transmitted by metion drive

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				1. Explain the basic concepts and working principle of gas power cycle
				2. Investigate working principles of compressors and its performance
	2nd Year			characteristics related to thermodynamic cycles
34	4th	U19ME207	Thermal Engineering	3. Explain the functioning and features of IC engines, components and
	Semester			auxiliaries
				4. Calculate performance parameters of IC Engines
				5. Solve problems in Steam Nozzle and explain the flow in steam turbines,
				draw velocity diagrams for steam turbines
				1. Describe the concepts of measurements to apply in various
				metrological instruments
	2 m d Maran			2. Outline the principles of linear and angular measurement tools used for industrial applications
25	2nd Year	U19ME208	Engineering Metrology	2 Evaluations
35	4un Somostor		and Measurements	S. Explain the procedure for conducting computer alded inspection
	Semester			4. Demonstrate the techniques of form measurement used for industrial
				5 Discuss various measuring techniques of mechanical properties in
				industrial applications
	2nd Year 4th Somostor		Environmental Sciences	1. Analyze human interaction for the sustainability of a social
				eco-system.
				2. Examine the impact of pollution and hazardous chemical
		U19MC201		on environment and human health.
26				3. Inspect the effect of different wastes and chemical on the
30				environment and its mitigation methods.
	Semester			4. Identify the application of natural resources for creating a
				good eco-system.
				5. Apply the basic concepts to understand various
				environmental issues.
			Engineering Metrology	1. Measure the linear and angular dimensions of given specimens
	2nd Year	U19ME215	and Measurements	2. Measure the form measurement parameters
37	4th		Laboratory	3. Measure the gear dimensions parameters
	Semester			4. Measure surface finish parameters
				5. Measure force, torque and tool geometry by using appropriate

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				instruments.
38				 Understand the importance of CAD/CAM Principles in product development
	2nd Voor			2. Develop 2D and 3D models using modeling software's
	Ath	019101210	CAD/CAM Laboratory	3. Interpret drawings of machine components for preparation of given
50	Semester			assembly drawings
	Semester			4. Prepare part programming and program generation from a CAD Model
				5. Infer a computer aided manufacturing model and generate machining
				codes automatically using CAD systems
				1. Identify the problems in mechanical engineering field by
			Mini Project	literature survey.
		U19ME281		2. Design, analyse and solve the identified problems by using modern
	2nd Year 4th Semester			engineering tools.
39				5. Create innovative methodologies to solve the existing
				4 Apply the engineering knowledge and suitable fabrication methods for
				fabrication of the working models
				5. Implement the role of team work in a project to find
				the solution and estimate the financial requirement of a project.
				1. Inculcate rhetorical skills to build confidence level
	2nd Year			2. Creative employability attribution for campus interview
40	4th	U19EM201	Verbal and Soft skills	3. Develop comprehending ability in various contexts
	Semester			4. Improve sentence formation by collaborative learning methods
				5. Conventional improvement practices by using various teaching aids
				1. Apply the metal cutting principles and calculate various cutting
				parameters in it
	3rd Year		Manufacturing	2. Illustrate the construction, working and operations of centre, semi-
41	5th	019ME301	Technology - II	automatic and automatic lathes
	Semester			3. Select suitable machine tools for the given product specifications
				4. Describe the constructional and operational features of grinding,
				broaching and fine finishing processes

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				5. Develop a CNC part program for the given part drawing
				1. Estimate the static and dynamic forces acting in the mechanisms and its
				components
	3rd Year	U19ME302	Dynamics of Machines	2. Analyze the static and dynamic balancing of different machines
42	Stn		- ,	3. Compute the frequency of free vibration in machine components
	Semester			4. Calculate the frequency of forced vibration in machine components
				5. Determine the range of speed and lift of the different types of
				governors and gyroscopic effect on automobiles, airplanes and snips
				1. Understand the mechanisms of neat transfer under steady and transfert conditions
				2 Analyza the heat transfer coefficient of free convection and forced
	3rd Year		Heat and Mass Transfer	convection through pipes and flat Plates.
43	5th	019ME303		3. Analyze the effectiveness and sizing of heat exchangers based on
	Semester			different application.
				4. Understand the radiation between surface and electrical analogy.
				5. Understand the basic concepts of mass transfer.
	3rd Year 5th Semester	U19ME304		1. Calculate the steady stresses and variable stresses in various machine
				components.
11			Design of Machine Elements	2. Design the shafts, keys and couplings
44				3. Design the temporary and permanent joints
				Design the energy storing elements and machine components.
				5. Design of the hydrodynamic bearings
				1. Explain basic concepts and classify the various additive manufacturing
				processes
	3rd Voar			Select suitable liquid and solid based processes based on the
45	5th	U19ME512	Additive Manufacturing	application
	Semester			3. Apply powder based rapid prototyping systems in suitable applications
	Semester			4. Implement reverse engineering techniques for developing prototypes
				5. Develop knowledge on materials and novel applications additive
				manufacturing technologies
46	3rd Year	U19ME522	Automotive Electronics	1. Understand the importance of emission standards in automobiles

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	5th			2. Understand the electronic fuel injection/ignition components and their
	Semester			function
				3. Choose and use sensors and equipment for measuring mechanical
				quantities, temperature and appropriate actuators
				4. Diagnose electronic engine control systems problems with appropriate
				diagnostic tools
				5. Analyze the chassis and vehicle safety system
				1. Understand types of kinematic motion on gear, and various linkages in
	3rd Year		Kinomatica and	mechanisms
47	5th	U19ME311	Dynamics Laboratory	2. Determine mass moment of inertia of the various mechanical element
	Semester			3. Analyze the balancing of static and dynamic forces
				4. Study the nomenclatures of motion transmitting elements
				5. Analyze forces and torques of components in linkage
	3rd Year 5th Semester	U19ME312		1. Conduct tests on heat conduction apparatus and evaluate thermal
				conductivity of materials.
				2. Conduct tests on natural and forced convective heat transfer apparatus
			Thermal Engineering	and evaluate heat transfer coefficient.
48			Laboratory	3. Conduct tests on radiative heat transfer apparatus and evaluate
				emissivity of grey surface.
				4. Conduct tests to evaluate the effectiveness of parallel/counter flow
				heat exchanger apparatus.
				5. Conduct tests to evaluate the COP of refrigeration.
	3rd Year		Geometric	1. Impart the basic concepts of geometrical dimensioning and tolerancing
49	5th	U19IC702	Dimensioning and	2. Explain the various aspect of geometrical dimensioning and tolerancing
	Semester		Tolerancing	using simple examples
				3. Apply the geometrical dimensioning and tolerancing in Drafting
	3rd Year		HVAC Systems Design	1. Explain basics of HVAC and basic processes involved
49	5th	01910703	INAC Systems Design	2. Select the suitable HVAC based on the requirement of the indoor space
	Semester			3. Design and application of Distribution
50	3rd Year	U19EM301	Aptitude I	1. Understand the importance and impact created by aptitude concepts in
50	5th		real life.	

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	Semester			Understand lot of learning methods and will be able to apply them in real life problems.
				 Students will be able to apply and solve problems based on application of aptitude concepts in real life
				 Analyze, evaluate and compare different scenarios given in a problem and find the strategically best solutions.
				Creating their own questions based on parameters and constraints given.
51	and Voor	3rd Year 5th U19EM303	Design Thinking Laboratory	
	5th			
	Semester			
				1 Evaluin the various components and functions of production planning
	3rd Year 6th Semester	U19ME305	Production Planning and Control	and control
				2. Prepare productions plan and control activities such as work study,
52				time study and work sampling etc.
				3. Acquire knowledge on product planning and process planning
				4. Acquire knowledge and prepare production scheduling.
				5. Acquire knowledge on recent trends in PPC
	3rd Year 6th Semester	U19ME306	Design of Transmission Systems	1. Apply the concepts of design to belts, chains and rope drives.
				2. Design the spur and helical gears
53				3. Design the worm and bevel gears
				4. Design the gear boxes
				5. Design the cams, brakes and clutches
	3rd Year 6th Semester	U19ME504	Industrial Robotics and Expert Systems	1. Explain the concepts of industrial robots, classification, specifications
54				and coordinate systems.
				2. Illustrate the different types of robot drive systems as well as robot end
				2 Apply the different concert and image processing techniques in
				5. Apply the unreferring sensors and image processing techniques in robotics to improve the ability of robots

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				4. Develop robotic programs for different tasks and familiarize with the
				kinematics motions of robot.
				5. Examine the implementation of robots in various industrial sectors and
				understand the application of AI and KBES in Robots.
	3rd Year 6th Semester	U19ME505	Finite Element Analysis	1. Summarize the fundamentals of finite element formulation.
				2. Analyze one dimensional finite elements and to build the stiffness
				matrix.
55				3. Analyze two dimensional finite elements and to build the stiffness
				matrix.
				4. Apply finite element method to solve one dimensional dynamic
				Problem.
				5. Make use of finite element techniques in isoparametric applications.
		U19ME533	Industrial Automation	1. Choose appropriate PLC and explain the architecture, installation
	3rd Year 6th Semester			procedures and troubleshooting
				2. Develop PLC programs using various functions of PLCs for a given
56				application
				3. Explain the application development procedures in SCADA and manage
				Udid, didfill difu Storage
				4. Distinguish DCS, SCADA and PEC and explain the architecture of DCS
				S. Describe the controller elements and program methods Mork with controllers and to know Accombly level language of 8085
	3rd Year 6th Semester	U19ME313	Industrial Automation and Robotics Laboratory	1. Work with controllers and to know Assembly level language of 8085
				2 Study operations of PLC and work with real time applications
				3 Study robot programming and simulate the robot for given application
57				4 Design model & analyze the basic electrical hydraulic & pneumatic
				Systems
				5. Design a Mechatronics system with the help of Microprocessor, PLC
				and other electrical and Electronics Circuits.
58	3rd Year 6th Semester	U19ME314	Product Design and Development Laboratory	1. Draw and assemble the components like mobile phone, hairdrvers.
				electronics goods helmet etc, using modeling software.
				2. Analyze the stress, displacement, heat transfer and flow of the product
				using analysis software.

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				3. Optimize the material and cost using software.
				Develop the tooling program using CAM software.
				5. Prepare the design report of the modeled and analyzed product.
50	3rd Year 6th Semester	U19ME381	Innovative / Multi- Disciplinary Project	1. Understand the concepts of basic and advancements of engineering
				Apply the engineering concepts to identify the problems
				3. Analyze the complex challenging problem in the field of engineering
59				4. Create the new ideas or methodology to find the solution of the
				problem
				5. Evaluate the understanding based on the oral presentation
	3rd Year 6th Semester	U19EM304	Technical Seminar	1. Understand the concepts of basic and advancements of engineering
				2. Understand the technical concepts of topic presented
60				3. Apply the concepts in application to present
				4. Analyze the pros and cons of engineering technologies presented
				5. Evaluate the understanding based on the oral presentation
	3rd Year 6th Semester	U19EM302	Aptitude II	1. Understand the importance and impact created by aptitude concepts in
				real life.
				2. Understand lot of learning methods and will be able to apply them in
				real life problems.
61				3. Students will be able to apply and solve problems based on application
01				of aptitude concepts in real life
				4. Analyze, evaluate and compare different scenarios given in a problem
				and find the strategically best solutions.
				5. Creating their own questions based on parameters and constraints
				given.