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(Approved by A.I.C.T.E & Affiliated to JNTUK, Kakinada) (Accredited by NAAC with A Grade & NBA) Jonnada, Denkada (Mandal), Vizianagaram Dist – 535 005 Phone No. 08922-241111, 241666

E-Mail: lendi_2008@yahoo.com

Website: www.lendi.org

R16 Regulation III YEAR - I SEMESTER				
Course Code	Course Name	СО	CO Statement	
		C301.1	Analyze the stabilization of sea vehicles, aircrafts and automobile vehicles.	
		C3012	Compute frictional losses, torque transmission of mechanical systems.	
		C301.3	Enumerate dynamic force analysis of slider crank mechanism and design of flywheel.	
	Dynamics of Machinery	G201.4	Understood various concepts on design of various types of governors along with other topics	
C301		C301.4	such as sensitiveness and hunting.	
		G201.5	Understood the methods of balancing of rotating masses and balancing of reciprocating	
		C301.5	masses as well.	
		G201.6	Analyze the basics of vibration as well as to find out the methods to calculate the natural	
		C301.6	frequencies of different systems.	
		C202 1	Solve problems related To Cutting Forces, Tool Life	
		0.502.1	and Tool Angles	
C202	Metal Cutting & Machine Tools		Understand Lathe operations Using Lathe Machine, Learned how to Use Lathe Tools and	
C302	C301	C302.2		



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			Importance of Lathe Machines.
			Analyze the Usage, operation s and Applications of Shaping, Slotting, Planning, Drilling and
		C302.3	Boring Machines and their Tools
			Understand the Usage, operations and Applications of Milling Machines and their Tools like
		C302.4	Cutters etc
			Understand the operations and Applications of Grinding Machines and their Tools like
		C302.5	Grinding Wheels etc
		C302.6	Understand the Importance Of Jigs, Fixtures and CNC Machines
			Understand the design procedure to engineering problems, including the consideration of
		C303.1	technical and manufacturing constraints and also Select suitable materials and significance
			of tolerances and fits in critical design applications
			Utilize the design data hand book and can design the elements for strength, stiffness and
		C303.2	fatigue and also Identifying the loads, the machine members subjected
			Learn and understand different types of failure modes and criteria of riveted , bolted and
C303	Design of Machine Members–II	C303.3	welded joints and also can design the boiler shells and ship hulls etc.
		C303.4	Impart the procedure for designing different machine elements such as shafts, cotter joints,



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			keys and axial loaded joints and understand the failures if these elements in real life
			application.
		C202 5	Understand the Procedure for designing different types of shaft couplings also should be able
		C303.5	to understand the failures of these elements in real life application.
		C202 (Analyze the Procedure for designing different types Mechanical springs also to understand
		C303.6	the failures of these elements in real life application.
		C304.1	Develop formulation of the linear programming problem (LPP) from the real world
			problems and be able to apply the suitable method for solving LPP.
		C204.2	Distinguish the importance among the procedure of solving the Transportation Problems,
		C304.2	Assignment Problems and solving the Sequential Problems
		C304.3	Analyze the application of the Replacement problems.
C204		C304.4	Formulate and Solve the Game Theory problems.
C304	Operation Research (C204)	C304.5	Examine and Identify the inventory models and stochastic models and solve them
	Operation Research (C504)	C304.6	Interpret and select, the sequencing various jobs and solving various queuing problems.
		C305 1	Evaluate the fundamentals as well as basics for power
		0303.1	cycles.





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C205	Thermal Engineering	C305.2	Describe various types of boilers as well as their corresponding classifications with necessary
C303	II (C505)	C305.3	Classify types of turbines that are in use, also enumerates the velocity diagrams for the turbines, along with the necessary current day applications
		C305.4	Understand the difference between steam turbine and gas turbines, along with the various classifications and their limitations as well.
		C205 5	Analyze the principle involved in jet propulsion, enumerated along with schematic diagrams,
		C305.5	along with their corresponding thrust power and propulsive efficiency.
		C305.6	Evaluate the difference between various types of liquid propellants that are in use to initiate a rocket engine.
		C306.1	Calculate critical speed of shaft, by varying different speeds at which the shaft tends to vibrate i.e. at which resonance occurs.
C306	Theory of Machines Lab (C306)	C306.2	Determine the working of different governors. And determine the different characteristic curves for the governor.
		C306.3	Determine the frequency of undamped free vibration of an equivalent spring mass system
		C306.4	To do dynamic analysis of mechanical systems such as planar four-bar mechanism, reciprocating mechanism, flywheel, gear trains, governor and rotary systems
		C306.5	Determine the mechanical advantage, velocity ratio and efficiency of screw jack



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		C306.6	Selecting gear and gear train depending on application
	Machine Tools Lab	C307.1	Understand lathe working principle and can perform various operations to prepare different shapes of products.
		C307.2	Operates drilling machine and can perform various operations to prepare different shapes of products.
		C307.3	Operate shaper, slotting and planning machine and can perform various operations to prepare different shapes of products.
C307		C307.4	Understand the surface grinding machine and can perform various operations to prepare different shapes of products.
		C307.5	Operate milling machine, with understanding working principle and can perform various operations to prepare different shapes of products.
		C307.6	Understand tool and cutter grinding machine and can perform various operations to prepare different shapes of products.
C308	Thermal Engineering Lab	C308.1	Determine the valve and port timing diagram of SI engine & CI engine
	I nermal Engineering Lab	C308.2	Determine the performance parameters for 4-stroke C.I engine&4-stroke S.I engine.



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		C308.3	Evaluate and Prepare heat balance sheet for twin cylinder C.I engine.
		C308.4	Apply the concept of Morse test on SI engine.(multi cylinder).
		C308.5	Analyse the efficiency of reciprocating air compressor.
		C308.6	Evaluate the difference between various types of liquid propellants that are in use to initiate a rocket engine
		C309.1	Gain Knowledge on basic concepts of Intellectual Property , Innovations and Inventions of Intellectual Property Law
	IPR & Patents	C309.2	Evaluate the principles and rights afforded by Copyright, its infringement and International Copyright Law.
C300		C309.3	Analyze Patent registration requirements, infringement and Litigation, new developments and international laws
C309		C309.4	Understand Registration Process of Trade Marks, Interparties proceedings, litigations, claims and global factors related to trade marks
		C309.5	Understand trade Secrets, Employee Confidentiality Agreement, Trade Secret Litigation and breach of law
		C309.6	Elucidate Cyber Law and Cyber Crimes , E- commerce, International aspects of Computer and Online Crime

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	III YEAR - II SEMESTER				
		C310.1	Design tolerances and fits for selected product quality.		
		C310.2	Understand the standards of length, angles, taper measurement		
	Metrology	C310.3	Study various optical measuring instruments and interferometry		
	Metrology	C310.4	Evaluate the surface finish and different comparators		
C310		6210.5	Inspect various gear elements and thread elements by choosing appropriate methods and		
		C310.5	instruments.		
		C310.6	Perform machine tool alignment		
	Instrumentation & Control Systems	C311.1	Understand with the techniques and use of measuring		
			Systems Select appropriate device for the measurement of parameters like temperature, pressure,		
C311		C311.2	speed, stress, humidity, flow velocity etc		
0.511		C311.3	Calibrate various instruments and how to apply them in various fields		
		C211.4	Gain working knowledge for dealing with basic problems of control system		
		C311.4	fundamentals		



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		C311.5	Give justification for the use of instruments through characteristics and performance.
		C311.6	Understand which instrument to be used under various circumstances
		C312.1	Analyze various refrigerating cycles and evaluate their performance.
		C312.2	Knowledge on vapour compression refrigeration systems and can analyze the
			performance of the system.
		C312.3	Understand the difference between CFC, HCFC and HFC refrigerants and their effect
	Refrigeration & Air-conditioning		on the environment.
		C312.4	Gain knowledge on vapour absorption and steam jet refrigeration systems and can
			analyze the performance of the system.
C312			Perform cooling load calculations and select the appropriate process and equipment for
		C312.5	the required comfort and industrial Air-conditioning. Students have knowledge on the
			difference between refrigeration and air conditioning systems & sensible and latent
			heat.
		C312.6	Understand various components of the air conditioning system and their
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		C313.1	Ability to evaluate the amount of heat exchange for
			plane, cylindrical & spherical geometries in various modes of heat transfer.
		C212.2	Explains the importance of extended surfaces for heat
		C313.2	transfer process and to calculate the effectiveness of fins.
		C212.2	Ability to understand and solve conduction, problems
C 212	Heat Transfer	C315.5	using Fourier's law, Newton's law of cooling, non dimensional numbers.
C313		C313.4	Ability to understand and solve radiation problems using Stefan Boltzmann constant.
		C313.5	Ability to design and analyze the performance of heat exchangers.
		C313.6	Ability to design and analyze the performance of boilers and condensers.
	Interactive Computer Graphics	C314.1	Use the principles and commonly used paradigms and techniques of computer
			graphics.
		C314.2	Design programs to display graphic images to given specifications
		C314.3	understand basic graphics application programs including animation
			Possess in-depth knowledge of display systems, image synthesis, shape modeling, and
G214		C314.4	interactive control of 3D computer graphics applications
C314			
		C314.5	Understand write line drawing, polygon filling programs
		C314.6	Write complex graphics application programs AND Simulation programs
	Heat Transfer Lab	C315.1	Ability to evaluate the amount of heat exchange for



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			plane, cylindrical & spherical geometries in various modes of heat transfer.
C215		C315.2	Explains the importance of extended surfaces for heat transfer process and to calculate the effectiveness of fins.
0515		C315.3	Ability to understand and solve conduction, problems using Fourier's law, Newton's law of cooling, non dimensional numbers.
		C315.4	Ability to understand and solve radiation problems using Stefan Boltzmann constant.
		C315.5	Ability to design and analyze the performance of heat exchangers.
		C315.6	Ability to design and analyze the performance of boilers and condensers.
	Metrology & Instrumentation Lab	C316.1	Measurement of various linear, angular dimensions of the products and flatness of the surface by using precision measuring instruments.
		C316.2	Learn how to check various parameters of the threads and gears.
C216		C316.3	Selection of the appropriate measuring instruments
C310		C316.4	Knowledge of the requirement of calibration and errors in measurement and perform accurate measurements
		C316.5	Alignment various machines used in manufacturing
		C316.6	Understand the construction and working of various instruments
C317	Computational Fluid Dynamics Lab	C317.1	Solving Problems of fluid mechanics and heat transfer by writing programs in C- language and MATLAB
		C317.2	.Using ANSYS-FLUENT build a geometry, mesh that geometry, Perform CFD method



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			on the mesh, perform the calculation, and post-process the results.
		C317.3	Understanding the validation of the numerical result by comparison with known analytical results.
		C317.4	Understanding the numerical result by invoking the physical principles of fluid mechanics and heat transfer
C318	Professional Ethics & Human Values	C318.1	It gives a comprehensive understanding of a variety of issues that are encountered by every professional in discharging professional duties.
		C318.2	It provides the student the sensitivity and global outlook in the contemporary world to fulfill the professional obligations effectively

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		C401.1	understand about technologies behind modern mechatronics systems		
		C401.2	Explain about fundamentals of Solid state electronic devices		
C401	Mechatronics	C401.3	Elaborate about fundamentals of actuating systems		
		C401.4	Analyse about Digital electronics and systems		
		C401.5	Apply System interfacing and data acquisition		
		C402.1	Improves the basic idea on the history of CAD/CAM hardware, and importance of CAD/CAM in industries.		
			Learn the mathematical techniques for representation of geometric entities including		
		C402.2	points, lines, and parametric curves, surfaces and solid, and the technique of		
	CAD/CAM		transformation of geometric entities using		
			transformation matrix.		
C402		C402.3	To get the knowledge on procedure to write		
			manuscript for a part to be manufactured. Having basic ideas on APT language in computer aided part programming for the product development		
			Classification of different parts into part families, which are manufacturing in any		
		C402.4	industry with the knowledge on group technology and learning different		
			techniques which are widely applying in industries		
		C402.5	Having basic knowledge in Process Planning help in understanding the importance in		



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			manufacturing industries. And the learning of computer aided quality control enhances
			their knowledge in applying or using
			these techniques in the industries.
		C402.6	Can identify various elements and their activities in the Computer Integrated Manufacturing Systems
		C403.1	Understanding the concepts of variational methods and weighted residual methods
	Finite Element Methods	C403.2	Identify the application and characteristics of various finite elements such as Bars
		C403.3	Analyze the application and characteristics of various finite elements such as Beams, Trusses
C403		C403.4	Analyze the characteristics of constant strain triangle and axi symmetric problems with iso parametric representation
		C403.5	Understanding the characteristics of 4 node quadrilateral element with iso parametric representation
		C403.6	Identify the application of FEM beyond the structural domain for problems of dynamics, heat transfer analysis and fluid flow.
C404	Power Plant Engineering	C404.1	To describe various energy resources and types of power plants and types of material handling systems.
		C404.2	To Analyze different types of steam cycles and estimate efficiencies in a steam power plant
		C404.3	To study basic working principles of gas turbine and diesel engine power plants.





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		C404.4	To study the working principle of hydro electric power plant and defines the performance characteristics and components of such power plants.
		C404.5	To study the principal components and types of nuclear reactors
		C404.6	To calculate present worth depreciation and cost of different types of power plants and estimates the cost of producing power per kW.
		C405.1	Importance of AMF in Rapid Prototyping Photo polymerization: SLA-Photo curable materials – Process – Advantages and Applications.
	Elective I. Additive Manufacturing	C405.2	Explanation of Material Extrusion & Sheet Lamination principle, process, case studies & models.
C405		C405.3	Illustration of Powder Bed Fusion & Powder Bed Technology: SLS & 3DP Ink Jet-Process description – powder fusion mechanism – Process Parameters – Typical Materials and Application.
		C405.4	Understanding Rapid Tooling with difference of Direct & Indirect RT Techniques
		C405.5	Understanding different File Formats & Software's used
		C405.6	Explain different applications of Additive manufacturing in different sectors.
C406	Elective II. Advanced Materials 2.	C406.1	Demonstrate the polymer, metal matrix, ceramic and fiber reinforced composites for Engineering Applications.
		C406.2	Demonstrate the polymer, thermosetting and thermoplastic composites for Engineering Applications
		C406.3	Select the best manufacturing methods for manufacturing of composite.





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		C406.4	Analyse macro mechanically for a lamina
		C406.5	Demonstrate the best suitable materials for propulsions, Human body parts and machine structures
	CAD/CAM Lab	C407.1	Learning 2D modeling tools by using AutoCAD will improves knowledge using different tools which helps in solving real time problems and day to day problems.
		C407.2	To improve various skills in use different tools for drafting while drawing sectional views of different mechanical components and assemble drawings in 2D modeling packages using AUTOCAD.
C407		C407.3	CATIA Part modeling tools will help in representing various components in more realistic way and can use of these tools for any engineering and real time applications.
		C407.4	Students acquires knowledge on ANSYS will improves their analyzing skills in different areas. Can utilize these tools for a better project in their curriculum as well as they will be prepared to handle industry problems with confidence when it matters to use these tools in their employment.
		C407.5	To understand the basic procedure to write manual part programming using APT language.
		C407.6	Learning the basics in using G and M codes for simple operations like turning and point to point.
C408	Mechatronics Lab	C408.1	1. Measure load, displacement and temperature using analogue and digital sensors



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C408.2	2. Develop plc programs for Control of traffic lights and water level
C408.3	3. Develop plc programs for Control of lifts and Conveyor belts
C408.4	4. Simulate and analyse pid Controllers for a physical system using mat lab
C408.5	5. Develop pneumatic and hydraulic circuits using automaton studio

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IV Year - II Semester			
C409	Production Planning and Control	C409.1	Understand the types of production, service systems and organization of the Production Planning and Control department.
		C409.2	Apply the principles and techniques for planning and control of the production and service systems to optimize/make best use of resources.
		C409.3	Identify the importance and function of inventory and to be able to apply selected techniques for its control and management under dependent and independent demand circumstances.
		C409.4	Understand the concepts of scheduling and concepts of bill of material as industrial needs.
		C409.5	Analyze various scheduling methods, line balancing and aggregate planning.
		C409.6	Identify the process of dispatching and follow-up concepts as per industrial needs.
C410	Unconventional Machining Processes	C410.1	Understand the mechanics of material removal process parameters and their applications of Ultrasonic machining process
		C410.2	Identify and utilize fundamentals of metal cutting as applied to the Electro chemical machining.
		C410.3	Develop the skills of effective utilization of the cutting fluids and applications for better productivity
		C410.4	Identify and utilize fundamentals of metal cutting as applied to the Electron Beam Machining, Laser Beam Machining





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		C410.5	Understand Basic fundamentals of the metal removal mechanism in Plasma
			Machining process
		C410.6	Can enumerate the fundamentals of mechanics of material removal in Abrasive
			jet machining, Water jet machining and abrasive water jet machining.
		C411.1	learn this topic basic introduction to automobiles can be easily analyzed, so as
			for better understanding of concepts further.
			Design of various types of transmission systems can be classified along with their
		C411.2	working principle,
	Automobile Engineering		advantages and disadvantages.
		C411.3	The topic describes basic terminology of how a steering system works and also
			explains various types
			of steering gear mechanisms that are in use.
C411		C411.4	Design of major necessities in an automobile such as electrical system, braking
			system and suspension system can be easily understood from this unit, along
			with their limitations.
		C411.5	Analyzes the importance of safety system in an automobile and also it evaluates
			the latest updates in the field of automobile industry.
			Classifies various types of automobile engines that are
			in use along with their detailed specifications.
		C411.6	Explains how the emissions/pollutants from automobiles are harmful for humans
			and also for the environment. What are all the necessary steps to be taken to



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			overcome them. national and international pollution standards.
C412	Non Destructive Evaluation	C412.1	Comprehensive, theory based understanding of the techniques and methods of non destructive testing
		C412.2	Apply methods and knowledge of non destructive testing to evaluate products of railways, automobiles, aircrafts, chemical industries etc
		C412.3	Ability to communicate their conclusions clearly to specialist and non-specialist audiences.
		C412.4	Calibrate the instrument and inspect for in-service damage in the components
		C412.5	Differentiate various defect types and select the appropriate NDT methods for better evaluation
		C412.6	Sound knowledge of various types of testing methods
	Seminar	C413.1	Students will demonstrate the ability to perform close and critical readings.
C413		C413.2	Students will demonstrate the ability to consider critically the motives and methods of scholarship and the relationship between them.
		C413.2	Students will demonstrate the ability to distinguish opinions and beliefs from researched claims and evidence and recognize that kinds of evidence will vary from subject to subject. For instance, some fields call for quantitative support while others work more commonly with quoted, textual evidence.
		C413.3	Students will demonstrate the ability to ask disciplinarily appropriate questions of the material and recognize when lines of inquiry fall outside of disciplinary





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			boundaries.
		C413.4	Students will demonstrate the ability to evaluate, credit, and synthesize sources.
		C413.5	Students will demonstrate the ability to perform close and critical readings.
	PROJECT	C414.1	To provide Technical Knowledge on the fundamental aspects and understand the importance, which in turn helps in analyzing the problem
C414		C414.2	To understand the importance of the present work from the post researches and literatures.Identifying the gaps and techniques to achieve better results
		C414.3	From the identified metholodoligies, advanced techniques can be learnt of design environmental friendly systems and relate cost effectiveness in design and manufacturing
		C414.4	Provides hands on experience with an understanding of design manufacturing aspects
		C414.5	The works carried out can identify suitable applications, leading to enhanced knowledge and building up collective responsibilities
		C414.6	Understand modern manufacturing operations, including their capabilities a limitations

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