

(Approved by AICTE, & Affiliated to JNTUK, A.P.)

KESANUPALLI (V), NARASARAOPETA-522549, AP

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# **COURSE OUTCOMES**

A.Y:- 2023-2024

#### Year/Sem: IIB.Tech I SEM

Course Name: MATHEMATICS-III(Vector Calculus, Transforms and PDE)		
<b>Course Code</b>	Course Code: AME2101	
AME2101.1	Able to Interpret the physical meaning of different operators such as gradient, curl and divergence (L5)	
AME2101.2	Estimate the work done against a field, circulation and flux using vector calculus (L5)	
AME2101.3	Apply the Laplace transform for solving differential equations (L3)	
AME2101.4	Find or compute the Fourier series of periodic signals (L3)	
AME2101.5	Know and be able to apply integral expressions for the forwards and inverse Fourier transform to a range of non-periodic waveforms (L3)	
AME2101.6	Identify solution methods for partial differential equations that model physical processes (L3)	

Course Name: THERMODYNAMICS		
<b>Course Code</b>	Course Code: AME2102	
AME2102.1	Define basic concepts of thermodynamics.	
AME2102.2	Describe Laws of thermodynamics.	
AME2102.3	Explain Concept of entropy.	
AME2102.4	Evaluation of vapors and their depiction in tables .	
AME2125.5	Evaluation of charts.	
AME2102.6	Evaluation of properties of perfect gas mixtures.	

Course Name	Course Name: MECHANICS OF SOLIDS	
<b>Course Code</b>	Course Code: AME2103	
AME2103.1	Model &Analyze the behavior of basic structural members subjected to various loading and support conditions based on principles of equilibrium.	
AME2103.2	Able to Understand the apply the concept of stress and strain to analyze and design structural members and machine parts under axial, shear and bending loads, moment and torsional moment.	
AME2103.3	Analyzebeams, columns, frames for normal, shear, and torsion stresses and to solve deflection problems in preparation for the design of such structural components.	
AME2103.4	Analyse beams and draw correct and complete shear and bending moment diagrams for beams.	
AME2103.5	Able to understanding of the loads, stresses, and strains acting on a structure and their relations in the elastic behavior	
AME2103.6	Design and analysis of Industrial components like pressure vessels.	



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Course Name: FLUID MECHANICS & HYDRAULIC MACHINES	
Course Code: AME2104	
AME2104.1	Able to know the basic concepts of fluid properties.
AME2104.2	Explain the mechanics of fluids in static and dynamic conditions.
AME2104.3	Clarify Boundary layer theory, flow separation and dimensional analysis.
AME2104.4	Describe Hydrodynamic forces of jet on vanes in different positions.
AME2104.5	Explain Working Principles and performance evaluation of hydraulic pump
AME2104.6	Describe Working Principles and performance evaluation of hydraulic turbines.

Course Name: COMPONENTS OF AUTOMOBILE CHASSIS	
Course Code: AME2105	
AME2105.1	Identify the different types of frame and chassis used inAutomotive.
AME2105.2	Able to know relate different types of drive lines and drives used
	inAutomotive.
AME2105.3	Acquire knowledge about different types of front axle and rear axles used in
	motor vehicles.
AME2105.4	Acquire knowledge about different types of rear axles used in motor
	vehicles.
AME2105.5	Examine the working principle of conventional and independent suspension
	systems.
AME2105.6	Apply knowledge on working principles of brake and its subsystems.

Course Name: MECHANICS OF SOLIDS & METALLURGY LAB	
Course Code: AME2106	
AME2106.1	Determine Mechanical properties and Elastic Constants
AME2106.2	Appraise the students with the use of testing machines
AME2106.3	Characterize the microstructures of different ferrous and non ferrous metals.
AME2106.4	Identify the effect of heat treatment and cooling rates on the properties of steels
AME2106.5	Clarify Hardeneability of steels by Jominy End QuenchTest
AME2106.6	Able to know the Microstructure of Mild steels, low carbon steels, high – Csteels



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Course Name: AUTOMOBILE CHASSIS LAB	
Course Code: AME2107	
AME2107.1	Able to know the understand working of braking, , Suspension systems.
AME2107.2	Describe understand working of steering.
AME2107.3	Define understand working of clutch.
AME2107.4	Explain working of transmission.
AME2107.5	Differentiate various subsystems of two, three & Four wheeler vehicles
AME2107.6	Develop skills in Dismantling and assembling of chassis components.

Course Name: FLUID MECHANICS & HYDRAULIC MACHINES LAB		
Course Code	Course Code: AME2108	
AME2108.1	To gain practical exposure on the performance evaluation methods of Turbine flow meter	
AME2108.2	To gain practical exposure on the performance evaluation methods of Pelton Wheel	
AME2108.3	To gain practical exposure on the performance evaluation methods of Francis Turbine	
AME2108.4	To gain practical exposure on the performance evaluation methods of Reciprocating pump	
AME2108.5	To gain practical exposure on the performance evaluation methods of Venturimeter	
AME2108.6	To gain practical exposure on the performance evaluation methods of Centrifugal pump	

Course Name: COMPUTER AIDED DRAFTING AND MODELLING LAB	
Course Code: AME2109	
AME2109.1	Able to use software like AutoCAD, Invertor/ Pro E/ Unigraphics.
AME2109.2	Learned basic concept to drawing, edit, dimension, hatching etc. to develop 2D Modelling.
AME2109.3	Learned basic concept to drawing, edit, dimension, hatching etc. to develop 3D Modelling.
AME2109.4	Able to make 3D assembling of different machine components
AME2109.5	Able to make 3D modelling, modification & manipulation along with detailing.
AME2109.6	Able to prepare surface modelling and sheet metal operations through various exercises



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## Year/Sem: IIB.Tech II SEM

Course Name: APPLIED THERMODYNAMICS		
Course Code:	Course Code: AME2201	
AME2201.1	Expected to learn the working of steam power cycles and also should be	
	able to analyze and evaluate the performance of individual components	
AME2201.2	Able to learn the principles of combustion ,stochiometry and flue gas analysis	
AME2201.3	Able to design the components and calculate the losses and efficiency of the boilers.	
AME2201.4	Able to design the components and calculate the losses and efficiency of the nozzles.	
AME2201.5	Able to design the components and calculate the losses and efficiency of the turbines and condensers.	
AME2201.6	Able to learn various types of compressors, principles of working and their performance evaluation.	

Course Name: COMPLEX VARIABLES AND STATISTICAL METHODS		
Course Code	Course Code: AME2202	
AME2202.1	Apply Cauchy-Riemann equations to complex functions in order to determine whether a given continuous function is analytic (L3)	
AME2202.2	Find the differentiation and integration of complex functions used in engineering problems (L5)	
AME2202.3	Make use of the Cauchy residue theorem to evaluate certain integrals (L3)	
AME2202.4	Apply discrete and continuous probability distributions (L3)	
AME2202.5	Design the components of a classical hypothesis test (L6)	
AME2202.6	Infer the statistical inferential methods based on small and large sampling tests (L4)	

Course Name: AUTOMOBILE ENGINES		
Course Code	Course Code: AME2203	
AME2203.1	Able to know the Air Standard and Actual Cycles	
AME2203.2	Explain the Four Stroke and Two Stroke Engines	
AME2203.3	Able to know about the Lubrication, Cooling systems, Supercharging and Turbocharging	
AME2203.4	Describe the Carburetor and its types	
AME2203.5	Define the Homogeneous Charge Compression Ignition(HCCI), Reactivity Controlled Compression Ignition (RCCI) Technologies and Pre-mixed Charge Compression (PCCI)	
AME2203.6	Able to know the Emission Effects on Health & Environment	



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Course Name: AUTOMOBILE ELECTRICAL AND ELECTRONICS		
<b>Course Code</b>	Course Code: AME2204	
AME2204.1	Ableto know the Lead Acid Battery and Lighting System	
AME2204.2	Explain the Starting System and Starter Motor	
AME2204.3	Define the Charging System and Alternators	
AME2204.4	Describe the Electronic Dashboard Instruments and Onboard Diagnostic	
	System.	
AME2204.5	Explain the Types of Sensors	
AME2204.6	Able to know the actuators	

Course Name: OPERATIONS RESEARCH		
<b>Course Code</b>	Course Code: AME2205	
AME2205.1	Formulate the resource management problems and identify appropriate	
	methods to solve them	
AME2205.2	Apply LPP.	
AME2205.3	Apply transportation and assignment models to optimize the industrial	
	resources	
AME2205.4	Solve decision theory problems through the application of game theory	
AME2205.5	Apply the replacement and queuing models to increase the efficiency of the	
	system	
AME2205.6	Model the project management problems through CPM and PERT	

Course Name: AUTOMOBILE ASSEMBLY DRAWING	
Course Code: AME2206	
AME2206.1	Describe various joint, simple mechanical parts Selection of Views
AME2206.2	Explain machine elements and parts with every drawing proportions.
AME2206.3	Able to Shaft coupling, spigot and socket pipejoint
AME2206.4	able to draw the assembly from the individual part drawing
AME2206.5	Explain the Drawings of assembled views for the part drawings
AME2206.6	Able to know the spring loaded safety valve, feed check valve and air cock,
	Controlvalves

Course Name: AUTOMOBILE ENGINES & FUELS LAB		
<b>Course Code</b>	Course Code: AME2207	
AME2207.1	Expected to know the principles in assembly.	
AME2207.2	Able to know the principles in dismantling of engine components.	
AME2207.3	Describe the Dismantle and Assemble of Agriculture single Cylinder and	
	Multi- Cylinder Automotive Engines	
AME2207.4	Explain characteristics automobile	
AME2207.5	Able to know the fuels.	
AME2207.6	Explain lubricants used in automobile	



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Course Name: AUTOMOBILE ELECTRICAL & ELECTRONICS LAB	
Course Code: AME2208	
AME2208.1	Able to know the batteries and starter motor testing
AME2208.2	Alarifty the alternator testing and wiring system
AME2208.3	Describe Battery Ignition System and different Electrical Equipment's
AME2208.4	Able to know the different sensors and various electronics system
AME2208.5	Describe the lighting system of two wheeler and FourWheeler
AME2208.6	Define the Automotive Electronics

Course Name: MACHINE TOOLS AND METROLOGY LAB	
Course Code: AME2209	
AME2209.1	Explain hands on experience on lathe machine to perform turning, facing,
	threading operations.
AME2209.2	Explain flat surface machining, milling and grinding operations.
AME2209.3	Able to know the drilling and threading operations.
AME2209.4	Describe Linear and angular measurements exposure.
AME2209.5	Describe machine tool alignment test on the lathe
AME2209.6	Able to operate various precession measuring instruments and working and
	operations of various machines tools

## Year/Sem: III B.Tech I SEM

Course Name	Course Name: THEORY OF MACHINES	
<b>Course Code</b>	: AME3101	
AME3101.1	Demonstrate the fundamentals of mechanisms and their applications and able	
	to analyse the kinematic properties of mechanism such as displacement,	
	velocity and acceleration	
AME3101.2	Analyze the effect of friction in machines such as belt drives, clutches and	
	brakes	
AME3101.3	Able to know the the basic nomenclature of gears and analyze gear	
	kinematics.	
AME3101.4	Analyze velocity and acceleration	
AME3101.5	Analysis of cam and demonstrate the balancing of any kinematic system	
AME3101.6	Analyze different types of Vibrations	

Course Name: PRODUCTION TECHNOLOGY	
Course Code: AME3102	
AME3102.1	Able to design the patterns and core boxes for metal casting processes
AME3102.2	Able to design the gating system for different metallic components
AME3102.3	Describe the different types of welding processes
AME3102.4	Explain the Principles of Gating
AME3102.5	Learn about plastic deformation processes
AME3102.6	Explain about the Sheet metal forming



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Course Name: VEHICLE DYNAMICS		
<b>Course Code</b>	Course Code: AME3103	
AME3103.1	Able to know the different types of forces, loads and fundamental	
	dynamics variables acting on vehicle	
AME3103.2	Derivation of expression for braking and acceleration parameters on vehicle	
	such as constant retardation wind resistance and having knowledge on	
	brakes	
AME3103.3	Determination of different types of road loads acting on a vehicle	
AME3103.4	Describe rolling resistance and factors effecting on it	
AME3103.5	Identify and understand the Vehicle response properties	
AME3103.6	Derivation of steady state cornering parameters	

Course Name: BASIC AUTOMOBILE ENGINEERING	
Course Code: AME3104	
AME3104.1	Able to know the course, shall learn about transmission,
AME3104.2	Learn about oil filters, oil pumps and crank case ventilation
AME3104.3	Analysis the steering
AME3104.4	Able to know the suspension system
AME3104.5	Explain the braking and safety
AME3104.6	Able to know the vehicle troubleshooting.

Course Name: TWO AND THREE WHEELERS	
Course Code:AME3105	
AME3105.1	Able to know the different frames
AME3105.2	Learn about suspension system
AME3105.3	Learn about transmission unit used in various two and three wheeler
	vehicles
AME3105.4	Describe ignition systems electrical &braking systems
AME3105.5	Explain about three wheeler vehicles
AME3105.6	Able to know the wheels and tyres

Course Name: PRODUCTION TECHNOLOGY LAB	
Course Code: AME3106	
AME3106.1	Able to Design and manufacture simple patterns
AME3106.2	Control sand properties in foundry
AME3106.3	Operate arc welding, gas welding and resistance welding equipment
AME3106.4	Describe blow moulding and injection moulding equipment
AME3106.5	Able to know the sheet metal operations
AME3106.6	Explain brazing and soldering



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Course Name: THEORY OF MACHINES LAB		
<b>Course Code:</b>	Course Code: AME3107	
AME3107.1	Able to Evaluate performance of a Hartnel governor	
AME3107.2	Determine the frequencies of vibration in case of free and forced vibrations	
	of a spring- mass system and whirling speed of a shaft	
AME3107.3	Determine motion characteristics of a slider crank mechanism and cam-	
	follower mechanism	
AME3107.4	Demonstrate various mechanical power transmission devices	
AME3107.5	Explain Components like screw jack and gears.	
AME3107.6	Define moment of inertia of a flywheel	

Course Name: VEHICLE DESIGN AND ANALYSIS LAB		
<b>Course Code:</b>	Course Code: AME3108	
AME3108.1	Able to visualize the automotive components with the help of modelling	
	software.	
AME3108.2	Make the modifications instantly if required at the initial stage itself.	
AME3108.3	Demonstrate the knowledge on designing components to withstand the	
	loads and deformations.	
AME3108.4	Synthesize, analyze and document the design of the various components	
AME3108.5	Demonstrate the ability to use engineering techniques for developing	
	vehicle components with industry standards.	
AME3108.6	Able to understanding Vehicle Aerodynamics	

#### Year/Sem: III B.Tech II SEM

Course Name: AUTOMOBILE COMPONENTS AND CHASSIS DESIGN	
Course Code: AME3201	
AME3201.1	Identifying the constructional details of chassis and components
AME3201.2	Explain various steering systems, steering linkages and steering gear boxes
AME3201.3	Able to understand the principle of suspension system
AME3201.4	Derivation of steering kinematics parameters
AME3201.5	Describe Knowledge on gearbox design
AME3201.6	Explain the working of CVT

Course Name: AUTOMOBILE TRANSMISSION SYSTEMS	
Course Code: AME3202	
AME3202.1	Able to know the the concept of hydrodynamic transmissions.
AME3202.2	Explain the Planetary gear trains
AME3202.3	Describe automatic and hydrostatic transmissions and their performance.
AME3202.4	Explain about the epi-cyclic gear boxes
AME3202.5	Describe the electric drives
AME3202.6	Clarify Know about the advantages and disadvantages of electric drives



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Course Name: VEHICLE BODY ENGINEERING	
Course Code: AME3203	
AME3203.1	Describe car body details
AME3203.2	Explain the vehicle aero dynamics
AME3203.3	Define bus body details
AME3203.4	Able to know the commercial vehicle details
AME3203.5	Describe the Wind Tunnel Testing
AME3203.6	Explain the body materials, trim and mechanisms

Course Name: ADVANCED MATERIALS		
<b>Course Code</b>	Course Code: AME3204	
AME3204.1	Explain the metals and alloys and their utility in different environments.	
AME3204.2	Learn about polymers and ceramics and their applications.	
AME3204.3	Analyze composite materials along with reinforcements and their applications.	
AME3204.4	Apply the basics of shape memory alloys.	
AME3204.5	Apply the basics of functionally graded materials.	
AME3204.6	Analyze the knowledge about the nanomaterials and their applications	

Course Name: MECHATRONICS	
Course Code: AME3205	
AME3205.1	Able to use the various mechatronics systems devices
AME3205.2	Components in the design of electro mechanical systems.
AME3205.3	Able to Know the programmable logic controllers
AME3205.4	Explain the System and interfacing and data acquisition
AME3205.5	Describe the System Digital Signal Processing
AME3205.6	Able to Know the Dynamic models and analogies, System response

Course Name: AUTO SCANNING & VEHICLE TESTING LAB	
Course Code: AME3206	
AME3206.1	Able tounderstand automotive scan tools
AME3206.2	Diagnostic equipment for fault diagnosis and troubleshooting
AME3206.3	Computerized engine analyzer and wheel balancing machine
AME3206.4	Describe Two wheeler chassis dynamometer
AME3206.5	Explain Head light focusing test and Visibility test
AME3206.6	Able to know the bus depots and service station workshop layouts



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Course Name: VEHICLE MAINTENANCE LABORATORY	
Course Code: AME3207	
AME3207.1	Acquire the fundamental knowledge in evaluation and maintenance
AME3207.2	Understand the various methods of maintaining vehicles and their subsystems
AME3207.3	Know the Fault diagnosis and service of vehicle air conditioning system
AME3207.4	Understand Minor and major tune up of gasoline and diesel engines and
	Calibration of Fuel injection pump
AME3207.5	Know the Removal and fitting of tire and tube
AME3207.6	Know the Fault diagnosis of brake/clutch

Course Name: VEHICLE EVALUATION LAB	
Course Code: AME3208	
AME3208.1	Know the Brake Performance Evaluation
AME3208.2	Understand Grade ability and Coast Down Test for all Vehicles
AME3208.3	Know the Speedometer Calibration
AME3208.4	Understand the Bus body, Truck and Ambulance code
AME3208.5	Know the Acceleration performance of 2 wheeler
AME3208.6	Students at the end of the course will be able to gain knowledge on various standards used for testing of vehicles.

Course Name: SOFT SKILLS	
Course Code: AME3209	
AME3209.1	Use language fluently, accurately and appropriately in debates and group discussions
AME3209.2	Exhibit interview skills and develop soft skills
AME3209.3	Understand how to making meeting effective, Negotiation skills
AME3209.4	Use their skills of listening comprehension to communicate effectively in cross-cultural contexts
AME3209.5	Learn and use new vocabulary
AME3209.6	Write resumes, project reports and reviews.



## Year/Sem: IVB.Tech I SEM

Course Name: SPECIAL PURPOSE VEHICLES	
<b>Course Code</b>	: AME4101
AME4101.1	Able to acquire the knowledge about the various equipments used in earth
	moving, applications.
AME4101.2	Understand the construction and working of the vehicle for constructional
	application
AME4101.3	Describe the working nature of farm equipment's based on their application.
AME4101.4	Discriminate the various industrial vehicles based on the purpose.
AME4101.5	Acquire the knowledge on the functioning of military vehicle.
AME4101.6	Able to Know material handlers, recliners, Street sweepers

Course Name: ELECTRIC VEHICLES AND HYBRID TECHNOLOGY		
Course Code: AME4102		
AME4102.1	Understand the architecture and vehicle dynamics of electric and hybrid	
	vehicles	
AME4102.2	Analyze and design various components of electric and hybrid vehicles with	
	environment concern	
AME4102.3	Knowledge on Energy requirement for electrical and hybride vehicles.	
AME4102.4	Analyze and model the power management systems for electric and hybrid	
	vehicles	
AME4102.5	Knowledge on different types of machines used in ev	
AME4102.6	Understand the Different subsystems of hybrid and electric vehicles	

Course Name: AUTOMOBILE COMFORT SYSTEMS AND ERGONOMICS		
Course Code: AME4103		
AME4103.1	Describe engineering principle that underpins the design of an automotive	
	vehicle for the comfort of the occupants and other road users.	
AME4103.2	Recognize the future direction of the design of comfort systems within the	
	automotive engineering sector.	
AME4103.3	Appreciate the role and use of comfort systems in automobile engineering.	
AME4103.4	Able Know about the safety systems in a vehicle	
AME4103.5	Explain about the deformation behaviour of a vehicle.	
AME4103.6	Understand the Ergonomic research methods / ergonomic audit	



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Course Name: ADDITIVE MANUFACTURING		
Course Code: AME4103		
AME4104.1	Understand the principles of prototyping, classification of RP processes and	
	liquid-based RP systems.	
AME4104.2	Understand and apply different types of solid-based RP systems	
AME4104.3	Apply powder-based RP systems	
AME4104.4	Analyze and apply various rapid tooling techniques	
AME4104.5	Understand different types of data formats.	
AME4104.6	Explore the applications of AM processes in various fields	

Course Name: OPERATIONS MANAGEMENT		
Course Code: AME4105		
AME4105.1	Apply appropriate forecasting techniques & Aggregate planning methods	
AME4105.2	Learn Materials management analysis and scheduling policies	
AME4105.3	Learn about the inventory control techniques, MRP and contemporary	
	management techniques.	
AME4105.4	Apply quality management principles proposed by Taguachi, Juran & Demigs	
AME4105.5	Apply optimization to LP model & transportation.	
AME4105.6	Apply optimization to assignment problems	

Course Name: UNIVERSAL HUMAN VALUES : UNDERSTANDING HARMONY		
Course Code: AME4106		
AME4106.1	Able to become more aware of themselves, and their surroundings (family,	
	society, nature)	
AME4106.2	Able to knowthe responsible in life, and in handling problems with	
	sustainable solutions, while keeping human relationships and human nature in	
	mind.	
AME4106.3	Describe better critical ability. They would also become sensitive to their	
	commitment towards	
AME4106.4	Able to understood (human values, human relationship and human society).	
AME4106.5	Able to apply what they have learnt to their own self in different day-to-day	
	settings in real life, at least a beginning would be made in this direction.	
AME4106.6	Desirable to follow it up by a) faculty-student or mentor-mentee programs	
	throughout their time with the institution b) Higher level courses on human	
	values in every aspect of living. E.g. as a professional	



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Course Name: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING LAB		
Course Code: AME4107		
AME4107.1	Apply the knowledge of artificial intelligence models along with image classifiers.	
AME4107.2	Apply the knowledge of machine learning models models along with image classifiers.	
AME4107.3	Apply the knowledge of artificial intelligence models along with automatic facial recognition using various software tools.	
AME4107.4	Apply the knowledge of machine learning models models along with automatic facial recognition using various software tools.	
AME4107.5	Able to know the Data pre-processing and Building Decision Trees using Weka.	
AME4107.6	Able to Understand the various options available in Weka.	