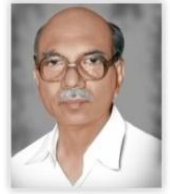




P.B.R. VISVODAYA INSTITUTE OF TECHNOLOGY & SCIENCE

(Affiliated to J.N.T.U.A, Approved by AICTE and Accredited by NAAC)

KAVALI – 524201, S.P.S.R Nellore Dist., A.P. India. Ph: 08626-243930



2.6.1.

Teachers and students are aware of the stated Programme and course outcomes of the Programmes offered by the institution



PARVATHAREDDY BABUL REDDY

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DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING



IV.B.Tech-Course Outcomes

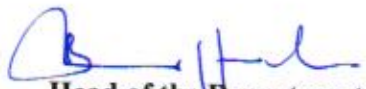
AY:2021-2022

C401	Electrical Distribution Systems	
C401.1	Analyze the various factors associated with power distribution	K4
C401.2	Describe various A.C and D.C electrical distribution systems	K2
C401.3	Illustrate principles of substation maintenance and bus bar arrangements	K3
C401.4	Calculate power factor improvement for a given system and load	K4
C401.5	Explain the Implementation of SCADA for distribution automation	K2
C402	Digital Signal Processing	
C402.1	Analyze digital and analog signals and systems	K4
C402.2	Design digital signal processing algorithms	K5
C402.3	Analyze the FIR and IIR filters to obtain their frequency response	K4
C402.4	Clarify the relationship between poles, zeros and stability and determine the spectrum of a signal using DFT, FFT	K5
C402.5	Design various digital and analog filters	K5
C403	Power System Operation and Control	
C403.1	Express economic operation of power system by posing different problem models related to economic load dispatch	K2
C403.2	Discuss about thermal and hydro power plant operation in meeting the load demand optimally	K2
C403.3	Analyse the mathematical models of turbine and governors	K4
C403.4	Discuss the load frequency control problem (Single area & Two area LFC)	K2
C403.5	Explain how shunt and series compensation helps in reactive power control	K2
C404	Utilization of Electrical Energy	
C404.1	Choose a lighting scheme for agiven practical scheme	K3
C404.2	Explain the performance of heating,welding methods,illumination schemes anelec	K2

C404.3	Solve all numerical calculations associated with electric traction	K3
C404.4	Discuss technical knowledge of various control devices & their use in practical work	K2
C404.5	Analyse the economic aspects in utilisation of electrical energy	K4
C405	Energy Auditing & Demand Side Management	
C405.1	Understand and digest: energy is an important part of our lives. Using it effectively is critical to extending world resources	K2
C405.2	Describe different levels of energy audits (surveys, walk through, comprehensive) and when they might be used	K2
C405.3	Summarize, prioritize, and recommend energy saving ideas for implementation	K3
C405.4	Write and present an energy audit report	K3
C405.5	Understand the challenges facing in the implementation of demand side management techniques	K2
C406	Power Quality	
C406.1	Address power quality issues to ensure meeting of standards	K3
C406.2	Apply the concepts of compensation for sags and swells using voltage regulating devices	K3
C406.3	Assess harmonic distortion and its mitigation.	K4
C406.4	Explain the power measurement data according to standards	K4
C406.5	Using power quality enhancement devices	K3
C407	Digital Signal Processing laboratory	
C407.1	Formulate engineering problems in terms of DSP tasks.	K4
C407.2	Apply engineering problems solving strategies to DSP problems.	K5
C407.3	Design and test DSP algorithms.	K5
C407.4	Analyze digital and analog signals and systems, Analyze and compare different signal processing strategies	K4
C407.5	Encode information into signals, Design and simulate digital filters	K5
C408	Power Systems and Simulation Lab	
C408.1	Experimental determination of sequence impedance and sub transient reactance's of synchronous machine	K4
C408.2	Analyze the LG, LL, LLG, LLLG faults of three phase alternator by conducting suitable experiments	K4

C408.3	Examine the equivalent circuit of three winding transformer by conducting a suitable experiment.	K4
C408.4	Develop the MATLAB program for formation of Y and Z buses	K5
C408.5	Develop the MATLAB programs for Gauss-seidel and fast decoupled load flow studies.	K5
C410	Instrumentation	
C410.1	Classify the errors occurring in measurement systems	K2
C410.2	Summarize Characteristics of signals, their representation	K2
C410.3	Differentiate among the types of data transmission and modulation techniques	K3
C410.4	Analyze various digital techniques to measure variable electrical quantities	K4
C410.5	Employ suitable transducers for the measurement of non-electrical quantities	K3
C411	HVDC Transmission	
C411.1	Compare HVDC and HVAC transmission systems	K2
C411.2	Summarize various Types of DC Links in Electrical Power Transmission	K2
C411.3	Demonstrate the operation of various converters used in HVDC transmission systems	K3
C411.4	Analyze various types harmonics and its elimination methods with various filters	K4
C411.5	Employ suitable protection schemes for faults in HVDC systems	K3
C412	Comprehensive Viva Voce	
C412.1	Evaluate the subject performance of student	K5
C412.2	Recognise the knowledge level of student	K3
C412.3	Develop the student to face competitive examinations	K5
C412.4	Illustrate the nature of conducting competitive examinations to the students	K3
C412.5	Describe the ability of a student aware of entire subject knowledge	K2
C413	Technical Seminar	
C413.1	Estimate the communication skills standard of the student	K4
C413.2	Describe the vocabulary, speaking and presentation skills of the student.	K4

C413.3	Test the technical knowledge of the student	K4
C413.4	Outline the presentation and body language of the student	K2
C413.5	Construct the person in such way that, to meet corporate needs and demands in s	K5
C414	Project Work	
C414.1	Demonstrate a sound technical knowledge of their selected project topic	K2
C414.2	Identification of problem, formulation and solution	K2
C414.3	Assess the engineering project	K5
C414.4	Design engineering solutions to the complex problems utilising a systems approach	K6
C414.5	Demonstrate the knowledge, skills and attitudes of a professional engineer.	K2


Head of the Department

Head of Department
ELECTRICAL & ELECTRONICS ENGINEERING
PBR Visvodaya Institute of Technology & Science
KAVALI - 524 201, SPSR Mallam (D.V.A.P)



YEAR/SEM OF STUDY	SUBJECT NAME	SUBJECT CODE	CO NUMBER	COURSE OUTCOMES	KNOWLEDGE LEVEL
I-I	Calculus and Special Functions	21A110101	CO1	Utilize mean value theorems to real life problems.	K3
			CO2	Familiarize with functions of several variables which is useful in optimization.	K3
			CO3	Students will also learn important tools of calculus in higher dimensions. Students will become familiar with 2- dimensional coordinate systems.	K5
			CO4	Students will also learn important tools of calculus in higher dimensions. Students will become familiar with 3- dimensional coordinate systems.	K5
			CO5	Utilize special functions in evaluating definite integrals.	K3
I-I	Mathematical Methods	21A110102	CO 1	Develop the use of matrix algebra techniques that is needed by engineers for practical applications.	K3
			CO 2	Understand and solve the roots of equation using Bisection method, Iterative method, Regular Falsi method, Newton Raphson method and solve the system of algebraic equations.	K3
			CO 3	Apply concept of interpolation and derive interpolating polynomial using Newton's forward and backward formulae, Lagrange's formulae, Gauss forward and backward formulae.	K3
			CO 4	Solving initial value problems to ordinary differential equations.	K3
			CO 5	Determine the process of finding integral equations using Simson's 1/3, Simson's 3/8 Rule and Trapezoidal rule and fitting a best curve using least squares method	K3
I-I	Fundamentals of Electrical Circuits	21A020301	CO1	Determine the equivalent impedance by using network reduction techniques and determine the current through, voltage across and power through any element	K3
			CO2	Determine the Dual of the network; develop the Cut Set and Tie-set Matrices for a given Circuit. Also understand various basic definitions and concepts	K3
			CO3	Determine the real power, reactive power, power factor of a given excitation.	K3
			CO4	Apply the network theorems suitably	K3
			CO5	Analyze the three-phase circuits with star-delta transformation	K4
I-I	C- Programming & Data Structures	21A050302	CO1	Solve computational problems, choose appropriate control structure depending on the problem to be solved	K3
			CO2	Design applications in C using Arrays and Strings.	K3
			CO3	Modularize the problem and also solution	K3
			CO4	Design applications in C using Functions, Pointers, and Structures	K3
			CO5	Explore various operations on Stacks, Queues and Linked lists.	K4
I-I	Engineering Drawing	21A030301	CO1	Construction of various conic curves, Cycloid curves	K3
			CO2	Construction of projections of Points, Lines applied in engineering	K3
			CO3	Construction of projections of Planes.	K3
			CO4	Construction of projection of solids development of surfaces regular Solids	K3
			CO5	Representation of Ortho and Isometric views of solids	K3
I-I	Fundamentals of Electrical Circuits lab	21A020302	CO1	Design and verify the various Kirchhoff's laws	K3
			CO2	Understand the electrical circuits by using mesh and nodal analysis	K2
			CO3	Remember, understand and apply various theorems and verify practically.	K2
			CO4	Understand and analyze active, reactive power measurements in three phase balanced circuits.	K2
			CO5	Determine the active, reactive power measurements in three phase balanced and unbalanced circuits	K3
I-I	C- Programming & Data Structures Lab	21A050303	CO 1	Demonstrate the basic concepts of C programming language.	K2
			CO 2	Select the right control structure for solving the problem.	K3
			CO 3	Develop C programs using functions, arrays, structures and pointers.	K3
			CO 4	Illustrate the concepts Stacks and Queues.	K2
			CO 5	Design operations on Linked lists	K6
I-I	Communicative English Lab	21A110201	CO 1	Use creativity in listening to formal and informal conversations.	K3
			CO 2	Analyze the concepts of active listening and barriers to listening.	K4
			CO 3	Communicate effectively in everyday life using right oral expressions.	K3
			CO 4	Acquire the confidence to present themselves effectively during academic and professional presentations.	K3
			CO 5	Acquire basic knowledge of non-verbal communication and its importance.	K3
I-II	Differential Equations & Vector Calculus	21A110103	CO1	Solve the differential equations related to various engineering fields	K3
			CO2	Apply the linear D.E's in Mechanical and Electrical Oscillatory circuits	K3
			CO3	Identify solution methods for partial differential equations that model physical processes	K3
			CO4	Interpret the physical meaning of differential operators such as gradient, divergence and curl.	K2
			CO5	Estimate the workdone against a field, circulation and flux using vector calculus.	K4
			CO 1	To identify the important properties of the physical optics i.e., interference, diffraction and polarisation related to engineering applications.	K4
			CO 2	To understand the mechanisms of lasers and propagation of light through optical fibers along fibers along with engineering applications.	K3



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DEPARTMENT OF MECHANICAL ENGINEERING

COURSE OUTCOMES

II-I

1. Complex variables, Transforms & Partial Differential Equations

- Understand the analyticity of complex functions and conformal mappings.
- Apply Cauchy's integral formula and Cauchy's integral theorem to evaluate improper integrals along contours.
- Understand the usage of Laplace transforms.
- Evaluate the Fourier series expansion of periodic functions.
- Formulate/solve/classify the solutions of partial differential equations and also find the solution of one-dimensional wave equation and heat equation.

2. Fluid Mechanics and Hydraulic Machines

- Familiarize basic terms used in fluid mechanics
- Understand the principles of fluid statics, kinematics and dynamics
- Understand flow characteristics and classify the flows and estimate various losses in flow through channels
- Analyze characteristics for uniform and non-uniform flows in open channels.
- Design different types of turbines, centrifugal and multistage pumps.

3. Manufacturing Processes

- Demonstrate different metal casting processes and gating systems. (L2)
- Classify working of various welding processes. (L2)
- Evaluate the forces and power requirements in rolling process. (L5)
- Apply the principles of various forging operations. (L3)
- Outline the manufacturing methods of plastics, ceramics and powder metallurgy. (L1)
- Identify different unconventional processes and their applications. (L3)

4. Thermodynamics

- Understand the importance of thermodynamic properties related to conversion of heat energy into work. (L1)
- Apply the laws of thermodynamics to boilers, heat pumps, refrigerators, heat engines, compressors and nozzles. (L3)
- Utilize steam properties to design steam based components. (L4)
- Analyze thermodynamic relations and air standard cycles. (L5)

5. Mechanics of Materials

- Evaluate stresses and strains
- To draw the SF and BM diagrams for various beams under different loading conditions
- Determine the resistance and deformation in machine members subjected to torsional loads and springs.
- Analyze and design thin, thick cylinders.
- Analysis of stresses in curved bars.



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DEPARTMENT OF MECHANICAL ENGINEERING

II-II

1. Numerical Methods & Probability theory

- Apply numerical methods to solve algebraic and transcendental equations
- Derive interpolating polynomials using interpolation formulae
- Solve differential and integral equations numerically
- Apply probability theory to find the chances of happening of events.
- Understand various probability distributions and calculate their statistical constants.

2. Applied Thermodynamics

- Understand the working of IC engines with combustion process. (L1)
- Select compressors for different applications. (L2)
- Use T-s diagram in vapour power and gas power cycles. (L3)
- Evaluate the relative performance of different steam turbines (L6)
- Select appropriate refrigerant for different applications. (L6)

3. KINETICS OF MACHINERY

- Build up critical thinking and problem-solving capacity of various mechanical engineering problems related to kinematics of machines (L4)
- Understand the basic principles of mechanisms in mechanical engineering (L1)
- Assess various concepts of mechanisms like straight line motion mechanisms, Steering gear mechanisms and working principles of power elements (Gears, gear trains, Cams) and design related problems effectively (L6)
- Examine the velocity and acceleration diagram for a given mechanism (L3)
- Utilize analytical, mathematical and graphical aspects of kinematics of Machines for effective design (L3)
- Construct the cam profile for a given motion (L3)
- Analyze various gear trains (L4)

4. Manufacturing Technology

- Choose cutting processes and variables. (L3)
- Relate tool wear and tool life. (L1)
- Calculate the machining parameters for different machining processes. (L5)
- Identify methods to generate different types of surfaces. (L3)
- Explain work-holding requirements. (L2)
- Design jigs and fixtures. (L6)

5. MANAGERIAL ECONOMICS AND FINANCIAL ANALYSIS

- Define the concepts related to Managerial Economics, financial accounting and management.
- Understand the fundamentals of Economics viz., Demand, Production, cost, revenue and markets
- Apply the Concept of Production cost and revenues for effective Business decision
- Analyze how to invest their capital and maximize returns
- Evaluate the capital budgeting techniques
- Develop the accounting statements and evaluate the financial performance of business entity.



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DEPARTMENT OF MECHANICAL ENGINEERING
COURSE OUTCOMES

III-I

1. APPLIED THERMODYNAMICS

- Explain working of IC engines with combustion process. (L2)
- Select compressors for different applications. (L1)
- Use T-s diagram in vapour power and gas power cycles. (L3)
- Explain the basic principles of steam turbines. (L2)
- Select appropriate refrigerant for different applications. (L1)

2. MANUFACTURING TECHNOLOGY

- Choose cutting processes and variables.
- Relate tool wear and tool life. (11)
- Calculate the machining parameters for different machining processes. (15)
- Identify methods to generate different types of surfaces. (13)
- Explain work-holding requirements. (12)
- Design jigs and fixtures. (16)

3. HEAT TRANSFER

- Apply the concepts of different modes of heat transfer. (13)
- Apply knowledge of conduction heat transfer in the design of insulation of furnaces and pipes. (13)
- Analyze free and forced convection phenomena in external and internal flows. (14)
- Design of thermal shields using the concepts of black body and non-black body radiation. (15)
- Apply the basics of mass transfer for applications in diffusion of gases. (13)

4. DYNAMICS OF MACHINERY

- Understand the effect of reactive gyroscopic couple on the stability of vehicles
- Understand the power lost and power transmitted due to friction
- Identify and correct the unbalances of rotating body
- Reduce the magnitude of vibration and isolate vibration of dynamic systems
- Determine dimensions of Governors for speed control.

5. AUTOMOBILE ENGINEERING

- Identify different parts of automobile.(13)
- Explain the working of various parts like engine, transmission, clutch, brakes.(12)
- Describe the working of steering and the suspension systems. (12)
- Summarize the environmental implications of automobile emissions.(12)
- Outline the future developments in the automobile industry.(12)

6. EXPERIMENTAL STRESS ANALYSIS

- The student will be able to understand different methods of experimental stress analysis
- The student will be able to understand the use of strain gauges for measurement of strain
- The student will be exposed to different Non destructive methods of concrete
- The student will be able to understand the theory of photo elasticity and its applications in analysis of structures



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DEPARTMENT OF MECHANICAL ENGINEERING

III-II

1. DESIGN OF MACHINE ELEMENTS

- Estimate safety factors of machine members subjected to static and dynamic loads. (15)
- Design fasteners subjected to variety of loads. (16)
- Select of standard machine elements such as keys, shafts, couplings, springs and bearings. (11)
- Design clutches, brakes and spur gears. (16)

2. INTRODUCTION TO CAD/CAM

- Apply the basics of geometric representation and transformations in CAD/CAM. (L3)
- Choose geometric modeling methods for building CAD models. (L1)
- Compare NC, CNC and DNC. (L2)
- Develop manual and computer aided part programming for turning and milling operations. (L3)
- Summarize the principles of robotics AR,VR and AI in CIM. (L2)

3. ENGLISH LANGUAGE SKILLS

- Understand the context, topic, and pieces of specific information from social or transactional dialogues spoken by native speakers of English
- Apply grammatical structures to formulate sentences and correct word forms
- Analyze discourse markers to speak clearly on a specific topic in informal discussions
- Evaluate reading/listening texts and to write summaries based on global comprehension of these texts.
- Create a coherent paragraph interpreting a figure/graph/chart/table

4. INTRODUCTION TO COMPOSITES

- Understand the Glass Fibers, Graphite Fibers, Aramid Fibers, Metallic Fibers and others
- Understand the Matrix materials and Polymers, Metals and Fillers, Manufacture of Thermoset composites, other composite fabrication methods
- Understand the Behaviour of Uni directional composites, Short fiber composites,
- Understand the Behaviour of Orthotropic laminates, laminated composites,
- Understand the Failure of composites, Hygro thermal effects, Residual thermal stresses.

5. INDUSTRIAL AUTOMATION

- Understand the basic concepts of Industrial automation
- Design and analysis of automation methods, placing and assembling of various parts
- Design of various processing and control circuits using pneumatic and hydraulic elements
- Selection of sensors based on the industrial application
- Role of robotics in industrial applications

6. SUPPLY CHAIN MANAGEMENT

- Understand the strategic role of logistic and supply chain management in the cost reduction and offering best service to the customer
- Understand Advantages of SCM in business
- Apply the knowledge of supply chain Analysis
- Analyze reengineered business processes for successful SCM implementation
- Evaluate Recent trend in supply chain management

LIST OF CO FOR IV BTECH (R15)

SUBJECT :AUTOMOBILE ENGINEERING

Course Outcomes:

- ❖ Identify different parts of automobile and explain the working of engine (L3)
- ❖ Explain the working of transmission, clutch types.(L2)
- ❖ Describe the working of steering system. (L2)
- ❖ Describe the working of suspension system. (L2)
- ❖ Summarize the environmental implications of automobile emissions.(L2)

SUBJECT :MANAGMENT SCIENCE

Course Outcomes:

- ❖ Understand the concept of management and organization (L1)
- ❖ Understand the role of management in production(L1)
- ❖ Impart the concept of HRM in order to have idea on recruitment, selection and Training. (L2)
- ❖ Identify strategic business management area and the PERT/CPM for better management.(L2)
- ❖ Understand the contempory issues in management

SUBJECT :CADCAM

Course Outcomes:

- ❖ Apply the basics of geometric representation and transformations in CAD/CAM.(L3)
- ❖ Choose geometric modelling methods for building CAD models. (L1)
- ❖ Compare NC, CNC and DNC.(L2)
- ❖ Develop manual and computer aided part programming for turning and milling operations.(L3)
- ❖ Summarize the principles of robotics AR, VR and AI in CIM. (L2)

SUBJECT :METROLOGY AND MEASUREMENTS

Course Outcomes:

- ❖ Understand the basic concepts of metrology and measurement methods.(L1)
- ❖ Demonstrate the importance of metrology in manufacturing.(L1)
- ❖ Explain the concepts of transducers and its practical applications. .(L3)
- ❖ Explains with various measuring instruments(L3)
- ❖ Familiarize calibration methods of various measuring instruments.(L1)

SUBJECT :PRODUCTION AND OPERATIONS MANAGEMENT

Course Outcomes:

- ❖ Understand technical design and manufacturing operations and supply management to the sustainability of an enterprise.(L1)
- ❖ Understand the need of forecasting and types of forecasting.(L1)
- ❖ Learn the basic principles of project management and other business functions such as value engineering, purchasing, marketing, finance etc.(L2)
- ❖ Analyze the new demands of the globally competitive business environment that supply chain managers face today.(L4)
- ❖ Knowledge on various scheduling algorithms applicable to single machine, parallel machines, flow shop and job shop models.(L1)

LIST OF CO FOR IV BTECH-II SEM (R15)

SUBJECT :INDUSTRIAL ENGINEERING

Course Outcomes:

- ❖ Define and apply productivity concept to engineering applications.(L1)
- ❖ Demonstrate techniques to increase productivity.(L1)
- ❖ Describe the implementation of work and time study at a workplace.(L2)
- ❖ Explain the Color models and psychology of seeing.(L2)
- ❖ Apply the concepts of aesthetics at interiors and exteriors of a workplace.(L4)

SUBJECT :POWER PLANT ENGINEERING

Course Outcomes:

- ❖ Identify the various conventional energy resources.(L1)
- ❖ Understand the working principles of various power plants such as steam, diesel engines, gas turbine, nuclear and hydro systems. Analyze the working of VAR, thermo electric and steam jet refrigeration systems.(L1)
- ❖ Familiarize power plants economics and power tariffs .(L1)
- ❖ Understand the impact of power plant effluents on environment. (L1)



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DEPARTMENT OF BUSINESS ADMINISTRATION
COURSE OUTCOMES




MBA -I SEMESTER	
17E00101	Management & Organizational Behaviour
CO1	Understand various managerial skills, roles, functions and levels
CO2	Identifying various motivators through the knowledge of theories of motivation
CO3	Identifying various leadership styles and their suitability to the situation
CO4	Relate with the historical growth, factors and model of Organizational Behavior
CO5	Understand the determinants and various theories of personality development
17E00102	Business Environment & Law
CO1	Understand Legal Aspects of Business with respect to Indian economy.
CO2	Relate various legal provisions to relevant business aspects and situations
CO3	Assess Business Environment in India
CO4	Appraise Globalization trends a, challenges and environment for foreign trade and investments
CO5	Familiarize with the requisites to be complied with in framing a valid contract
17E00103	Managerial Economics
CO1	Familiarize the students about managerial economics Practices
CO2	Identification of different demand situations and critical variables determining the demand
CO3	Learning the production function and pricing practices.
CO4	Awareness about market structure and price determination under different market situations
CO5	Awareness about business cycles among the students
17E00104	Financial Accounting for Managers
CO1	Awareness about book keeping and accounting
CO2	Know the process of accounting from the primary entry to the final statement
CO3	Gain the knowledge on different accounting standards which were given by the
CO4	Understand the application of different analytical tools like ratio analysis, cash flow statement & funds flow statement to evaluate firms'
CO5	Understand how to calculate about the value of Inventory, Goodwill, Depreciation .
17E00105	Statistics for Managers
CO1	Familiarize the students with the statistical techniques popularly used in managerial decision making.
CO2	Develop the computational skill of the students relevant for statistical analysis.
CO3	Familiarize the students for using various hypothesis testing measures.
CO4	Awareness among students about various non parametric measures.
CO5	Familiarize the students with the use of correlation and regression analysis in research.
17E00106	Management Information Systems
CO1	Provide the basic concepts of systems concepts and Management of Information System and utility of the systems for the managerial
CO2	Identify the process of decision making at different management levels in an organization.
CO3	Understand importance and need of Management Information System in monitoring and controlling the business transactions.
CO4	Examine the role of different decision support systems in achieving strategic advantage.
CO5	Recommend different SAP modules applicable for various types of business
17E00107	Information Technology for Managers
CO1	Familiarize the student in information technology and their applications to business processes.
CO2	Recognize different components of Information Technology.
CO3	Understand E-commerce models used in a business.
CO4	Analyze impact of E-banking on the business.
CO5	Understand the need for Computer Security & Security Mechanisms
17E00108	Communication Lab
CO1	Students need to prepare themselves for their careers which may require them to listen, to read, speak and write in English both for their
CO2	Familiarize students on application of phonetics.
CO3	Improving listening skills among the students.
CO4	Improving reading and writing abilities of the students
CO5	Familiarize the students with presentation skills and interview techniques.
17E00109	Data Analytics Lab
CO1	Understanding the applications of information technology and hands on experience to students in using computers for data organization and
CO2	Familiarize the students with Microsoft word
CO3	Familiarize the students with Microsoft Power Point
CO4	Understanding about various functions in MS Excel
CO5	Computing regression, correlation, ANOVA, T-test and Z-test.
MBA -II SEMESTER	
17E00201	Human Resource Management
CO1	Understand the concept, objectives and changing role of HRM.
CO2	Describe the objectives, benefits and process of HRD.
CO3	Understand procurement process that includes; HRP, factors affecting Recruitment sources, selection process and placement.
CO4	Differentiate training and development and understand methods of training.
CO5	Analyze the need and problems of performance appraisal
17E00202	Marketing Management
CO1	Familiarize students with marketing, and its concepts
CO2	Acquaint with new marketing trends and the marketing environment
CO3	Knowledge about various components of the marketing mix.
CO4	Work independently and collaboratively in inter and multidisciplinary and diverse environments.
CO5	Use creative, critical and reflective thinking to address organisational opportunities and challenge.

17E00203	Business Research Methods
CO1	Define various terms used in research process
CO2	Methods of research with an emphasis on various stages.
CO3	Describe research design, sample design and sampling methods
CO4	Apply appropriate methods for data collection for research work
CO5	Use appropriate statistical tools for data analysis and interpretation
17E00204	Financial Management
CO1	Describe strategic financial planning and models.
CO3	Describe working capital management.
CO3	Estimate time value of money.
CO4	Analyze statements of accounts
CO5	Understand the different methods of corporate restructuring and the principles of good governance.
17E00205	Operations Research
CO1	Apply Linear programming techniques to allocate scarce resources in an optimum manner in problems of scheduling & product mix .
CO2	Manage the Waiting line management to minimize the overall cost due to servicing
CO3	Assign the jobs to the people in which the criterion involved is optimized.
CO4	Apply Transportation problem to deal with the transportation of a product from number of sources, with limited supplies.
CO5	Make Decisions under the conditions of risk and uncertainty.
17E00206	Operations Management
CO1	Enable students to understand the production Planning and Controlling aspects of a typical production and operations organization
CO2	Understand the concepts of work study and Quality management
CO3	Provide students with various elements underline the basic functions of operations management.
CO4	Familiarize the students with various techniques of inventory control.
CO5	Understand the need and importance of materials management
17E00207	Business Communication
CO1	Understanding of the "Process of Communication in an organization.
CO2	Understanding about verbal and non-verbal communication.
CO3	Identifying and overcoming the 'Barriers of Communication
CO4	Enhancing the presentations skills of students.
CO5	Enable the students to augment their report writing skills
17E00208	Business Analytics Lab
CO1	Enabling the students apply information systems in business areas.
CO2	Application of information technology in accounting.
CO3	Application of information technology in Finance
CO4	Application of information technology in Human Resource Management
CO5	Application of information technology in Marketing Management.
17E00209	Business Communication Lab
CO1	English language skills for effective written business communication
CO2	Understand how to write project report.
CO3	Developing the ability among students to write formal business letters.
CO4	Developing the ability among students to frame oral and written instructions.
CO5	Understanding the preparation of resumes in an effective way.
	MBA -III SEMESTER
17E00301	Business Ethics & Corporate Governance
CO1	Understanding the importance of ethics in workplace.
CO2	Identifying the impact of globalization on business.
CO3	Understanding the ethics in different functional areas.
CO4	Understanding Corporate Governance in India.
CO5	Demonstrating the importance of corporate governance.
17E00302	Green Business Management
CO1	Understanding of green business, its advantages, issues and opportunities.
CO2	Provide knowledge over the strategies for building eco-business.
CO3	Understanding the importance of sustainability issues of the environment.
CO4	Recognizing the importance of ISO
CO5	Understanding various green techniques and methods in maintaining eco friendly business.
17E00303	Entrepreneurship Development
CO1	Explain entrepreneurship, entrepreneur skills
CO2	Illustrate institutional support for entrepreneurship development
CO3	Demonstrate entrepreneurship in manufacturing and agriculture sector
CO4	Develop a feasibility report for a new business venture.
CO5	Design a business plan
17E00305	Product and Brand Management
CO1	Provide students with detailed knowledge of Classification of Products, Product Mix, Product Line, Product Strategies
CO2	Acquaintance with New Product Development, Brands in New economy – Brand Hierarchy, Brand Personality, Brand Image, Brand Identity.
CO3	Understanding product decisions.
CO4	Familiarizing product management.
CO5	Awareness about creating and managing brand equity.
17E00306	Human Resource Development
CO1	Understand the concept of Human Resource Development
CO2	Identifying training needs in various business organisations and evaluating training programme
CO3	Distinguish between Training Programme and Development Programme.
CO4	Understand needs and impact of Performance Appraisal and its various methods.
CO5	Designing career plan for hierarchy of organisation
17E00308	Financial Institutions and Services
CO1	Know about the financial market structure and participants in the markets.
CO2	Gain knowledge on the different financial services which are available in India.

CO3	Know the role of merchant bankers in providing the financial and non financial services.
CO4	Understand the Hire purchase and Lease assistance to micro small, small, medium and large scale business units.
CO5	Understand the different financial services like factoring, credit rating methods.
17E00309	Consumer Behaviour
CO1	Understanding the determinants of Consumer Behaviour
CO2	Understanding impact of Social and cultural factors on Consumer Behaviour
CO3	Gain Knowledge about various models of Consumer Behaviour
CO4	Awareness about consumer decision making process
CO5	Understanding legal framework protecting consumers
17E00312	Investment and Portfolio Management
CO1	Provide students an understanding of working of capital markets
CO2	Awareness about management of portfolios of stocks.
CO3	Illustrate the notional framework for investment avenues.
CO4	Discover the analytical framework for valuation of shares.
CO5	Design short term and long term strategy of investment
17E00314	Performance Management
CO1	Understanding the performance management of individuals in the organization.
CO2	Knowledge about mentoring and monitoring concepts.
CO3	Awareness about coaching and counselling concepts for performance improvement.
CO4	Understanding of annual stock taking
CO5	Illustration about the concept of Learning Organization.
17E00317	Advertising and Sales Promotion Management
CO1	Provide students with detailed knowledge of some of the marketing mixes such as Sales and Promotion.
CO2	Understanding the concept of advertising.
CO3	Awareness about advertising agencies and advertising copy.
CO4	Familiarizing about preparation of advertisement budget.
CO5	Identifying the importance of sales promotions and various sales promotional tools.
17E00318	Knowledge Management
CO1	Illustrate knowledge management system and prepare knowledge map.
CO2	Explain Knowledge Management architecture designing.
CO3	Understand Artificial Intelligence and expert system.
CO4	Demonstrate business intelligence and its tools.
CO5	Construction of business intelligence system for an organisation.
17E00320	Business Simulation Lab
CO1	Ability to analyse the data to draw inference for decision making.
CO2	Understand application of statistical measures of central tendency.
CO3	Understand application of ANOVA.
CO4	Knowledge about various concepts of SPSS.
CO5	Awareness about statistical tools for execution using excel.
	MBA -IV SEMESTER
17E00401	Strategic Management
CO1	Students will have a grasp of various business strategies in general and functional management areas.
CO2	Provide a strategic orientation in conduct of the business
CO3	Knowledge about various Strategic tools and techniques.
CO4	Awareness about different types of strategies.
CO5	Illustration about strategic evaluation in Indian and International context.
17E00402	E-Business
CO1	Provide an understanding of e-business applications in today's organizations
CO2	Understand various E business models.
CO3	Understand Online payment methods.
CO4	Learn various E Marketing strategies.
CO5	Understand mobile communication systems and standards
17E00403	Financial Derivatives
CO1	The types of players in derivatives markets.
CO2	Understanding of Different types of products available in derivatives market.
CO3	Valuation of futures & forward contract.
CO4	Design the swaps for a particular situation(Interest rate swaps / Currency swaps)
CO5	Measuring value at risk and cash at risk.
17E00404	Services Marketing
CO1	Provide a deeper insight into the marketing management of companies offering services as product.
CO2	Application of 7 P's of Service Marketing to different services.
CO3	Knowledge about customer expectations while buying the services.
CO4	Awareness about Service pricing strategies.
CO5	Designing the service promotion strategies.
17E00405	Organization Development
CO1	Understand planned change through models of change
CO2	Know values beliefs and assumptions and OD values
CO3	Use certain team interventions
CO4	Gain knowledge of the conditions for optimal success of OD and the issues in Client
CO5	Understand the importance of participation and empowerment, functioning of teams
17E00407	International Financial Management
CO1	Provide students with a broad view of International Monetary Systems
CO2	Illustrate foreign exchange procedure, exchange rate quotations spot market, future market
CO3	Distinguish between exchange rate risk, interest rate risk and political risk
CO4	Design the capital budgeting procedure and cash management of MNC
CO5	Understanding the financing decisions of working capital decisions of MNC's

17E00408	International Marketing
CO1	Provide students with a perspective of International Marketing Management
CO2	Understanding International market entry strategies.
CO3	Awareness about international product management.
CO4	Knowledge of international marketing channels.
CO5	Developing export marketing strategies.
17E00409	Global Human Resource Management
CO1	Understanding and interpreting HR policies with organisational goals
CO2	Analysing 5-P Model of Strategic Human Resource Management for an organisation
CO3	Examine impact of globalisation and technological advancement on Human Resource Management
CO4	Analysing business environment and formulating HR strategy.
CO5	Analysing problems in international organisations and proposing suggestions for the same.
17E00411	Seminar
CO1	Evaluate the skills required for the managers viz., communication skills, logical skills, analytical skills.
CO2	Evaluate the presentation skills, persuasion skills, decision making skills acquired by the students .
CO3	Evaluate managerial capabilities of the students.
17E00412	Project Work
CO1	Students will able to outline business research problem
CO2	Develop research objectives and research design
CO3	Make use of different data collection techniques
CO4	Conclude with the findings based on analysis
CO5	Propose suggestions to solve the problems.


 Department of Business Administration
PBB VITS, KAVAI
 Nellore Dt



PARVATHAREDDY BABUL REDDY
VISVODAYA INSTITUTE OF TECHNOLOGY & SCIENCE
(AUTONOMOUS)




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DEPARTMENT OF BUSINESS ADMINISTRATION
COURSE OUTCOMES

MBA -I SEMESTER	
21E000401	Management & Organizational Behaviour
CO1	Understand various managerial skills, roles, functions and levels
CO2	Identifying various motivators through the knowledge of theories of motivation
CO3	Identifying various leadership styles and their suitability to the situation
CO4	Relate with the historical growth, factors and model of Organizational Behavior
CO5	Understand the determinants and various theories of personality development
21E000402	Business Environment & Law
CO1	Understand Legal Aspects of Business with respect to Indian economy.
CO2	Relate various legal provisions to relevant business aspects and situations
CO3	Assess Business Environment in India
CO4	Appraise Globalization trends a, challenges and environment for foreign trade and investments
CO5	Familiarize with the requisites to be complied with in framing a valid contract
21E000403	Managerial Economics
CO1	Familiarize the students about managerial economics Practices
CO2	Identification of different demand situations and critical variables determining the demand
CO3	Learning the production function and pricing practices.
CO4	Awareness about market structure and price determination under different market situations
CO5	Awareness about business cycles among the students
21E000404	Financial Accounting for Managers
CO1	Awareness about book keeping and accounting
CO2	Know the process of accounting from the primary entry to the final statement
CO3	Gain the knowledge on different accounting standards which were given by the
CO4	Understand the application of different analytical tools like ratio analysis, cash flow statement & funds flow statement to evaluate firms'
CO5	Understand how to calculate about the value of Inventory, Goodwill, Depreciation .
21E000405	Statistics for Managers
CO1	Familiarize the students with the statistical techniques popularly used in managerial decision making.
CO2	Develop the computational skill of the students relevant for statistical analysis.
CO3	Familiarize the students for using various hypothesis testing measures.
CO4	Awareness among students about various non parametric measures.
CO5	Familiarize the students with the use of corelation and regression analysis in research.
21E000406	Business Communication
CO1	Understanding of the "Process of Communication in an organization.
CO2	Understanding about verbal and non-verbal communication.
CO3	Identifying and overcoming the 'Barriers of Communication
CO4	Enhancing the presentations skills of students.
CO5	Enable the students to augment their report writing skills
21E000407	Information Technology for Managers
CO1	Familiarize the student in information technology and their applications to business processes.
CO2	Recognize different components of Information Technology.
CO3	Understand E-commerce models used in a business.
CO4	Analyze impact of E-banking on the business.
CO5	Understand the need for Computer Security & Security Mechanisms
21E000408	Business Communication Lab
CO1	English language skills for effective written business communication
CO2	Understand how to write project report.
CO3	Developing the ability among students to write formal business letters.
CO4	Developing the ability among students to frame oral and written instructions.
CO5	Understanding the preparation of resumes in an effective way.
21E000409	Information Technology for ManagersLab
CO1	Understanding the applications of information technology and hands on experience to students in using computers for data organization and
CO2	Familiarize the students with Microsoft word
CO3	Familiarize the students with Microsoft Power Point
CO4	Understanding about various functions in MS Excel
CO5	Computing regression,corelation,ANOVA , T-test and Z-test.
MBA -II SEMESTER	
21E000410	Human Resource Management
CO1	Understand the concept, objectives and changing role of HRM.
CO2	Describe the objectives, benefits and process of HRD.
CO3	Understand procurement process that includes; HRP, factors affecting Recruitment sources, selection process and placement.
CO4	Differentiate training and development and understand methods of training.
CO5	Analyze the need and problems of performance appraisal
21E000411	Marketing Management
CO1	Familiarize students with marketing, and its concepts
CO2	Acquaint with new marketing trends and the marketing environment
CO3	Knowledge about various components of the marketing mix.
CO4	Work independently and collaboratively in inter and multidisciplinary and diverse environments.
CO5	Use creative, critical and reflective thinking to address organisational opportunities and challenge.

21E000412	Business Research Methods
CO1	Define various terms used in research process
CO2	Methods of research with an emphasis on various stages.
CO3	Describe research design, sample design and sampling methods
CO4	Apply appropriate methods for data collection for research work
CO5	Use appropriate statistical tools for data analysis and interpretation
21E000413	Financial Management
CO1	Describe strategic financial planning and models.
CO3	Describe working capital management.
CO3	Estimate time value of money.
CO4	Analyze statements of accounts
CO5	Understand the different methods of corporate restructuring and the principles of good governance.
21E000414	Operations Research
CO1	Apply Linear programming techniques to allocate scarce resources in an optimum manner in problems of scheduling & product mix .
CO2	Manage the Waiting line management to minimize the overall cost due to servicing
CO3	Assign the jobs to the people in which the criterion involved is optimized.
CO4	Apply Transportation problem to deal with the transportation of a product from number of sources, with limited supplies.
CO5	Make Decisions under the conditions of risk and uncertainty.
21E000415	Operations Management
CO1	Enable students to understand the production Planning and Controlling aspects of a typical production and operations organization
CO2	Understand the concepts of work study and Quality management
CO3	Provide students with various elements underline the basic functions of operations management.
CO4	Familiarize the students with various techniques of inventory control.
CO5	Understand the need and importance of materials management
21E000416	Management Information Systems
CO1	Provide the basic concepts of systems concepts and Management of Information System and utility of the systems for the managerial
CO2	Identify the process of decision making at different management levels in an organization.
CO3	Understand importance and need of Management Information System in monitoring and controlling the business transactions.
CO4	Examine the role of different decision support systems in achieving strategic advantage.
CO5	Recommend different SAP modules applicable for various types of business
21E000417	Management Information Systems Lab
CO1	Enabling the students apply information systems in business areas.
CO2	Application of information technology in accounting.
CO3	Application of information technology in Finance
CO4	Application of information technology in Human Resource Mangement
CO5	Application of information technology in Marketing Management.
21E000418	Communication Lab
CO1	Students need to prepare themselves for their careers which may require them to listen, to read, speak and write in English both for their
CO2	Familiarize students on application of phonetics.
CO3	Improving listening skills among the students.
CO4	Improving reading and writing abilities of the students
CO5	Familiarize the students with presentation skills and interview techniques.
	MBA -III SEMESTER
21E000419	Business Ethics & Corporate Governance
CO1	Understanding the importance of ethics in workplace.
CO2	Identifying the impact of globalization on business.
CO3	Understanding the ethics in different functional areas.
CO4	Understanding Corporate Governance in India.
CO5	Demonstrating the importance of corporate governance.
21E000420	Strategic Management
CO1	Students will have a grasp of various business strategies in general and functional management areas.
CO2	Provide a strategic orientation in conduct of the business
CO3	Knowledge about various Strategic tools and techniques.
CO4	Awareness about different types of strategies.
CO5	Illustration about strategic evaluation in Indian and International context.
21E000421	Entrepreneurship Development
CO1	Explain entrepreneurship, entrepreneur skills
CO2	Illustrate institutional support for entrepreneurship development
CO3	Demonstrate entrepreneurship in manufacturing and agriculture sector
CO4	Develop a feasibility report for a new business venture.
CO5	Design a business plan
21E000502	Product and Brand Management
CO1	Provide students with detailed knowledge of Classification of Products, Product Mix, Product Line, Product Strategies
CO2	Acquaintance with New Product Development, Brands in New economy – Brand Hierarchy, Brand Personality, Brand Image, Brand Identity.
CO3	Understanding product decisions.
CO4	Familiarizing product management.
CO5	Awareness about creating and managing brand equity.
21E000503	Human Resource Development
CO1	Understand the concept of Human Resource Development
CO2	Identifying training needs in various business organisations and evaluating training programme
CO3	Distinguish between Training Programme and Development Programme.
CO4	Understand needs and impact of Performance Appraisal and its various methods.
CO5	Designing career plan for hierarchy of organisation
21E000505	Financial Institutions, Markets and Services
CO1	Know about the financial market structure and participants in the markets.
CO2	Gain knowledge on the different financial services which are available in India.

CO3	Know the role of merchant bankers in providing the financial and non financial services.
CO4	Understand the Hire purchase and Lease assistance to micro small, small, medium and large scale business units.
CO5	Understand the different financial services like factoring, credit rating methods.
21E000506	Consumer Behaviour
CO1	Understanding the determinants of Consumer Behaviour
CO2	Understanding impact of Social and cultural factors on Consumer Behaviour
CO3	Gain Knowledge about various models of Consumer Behaviour
CO4	Awareness about consumer decision making process
CO5	Understanding legal framework protecting consumers
21E000509	Investment and Portfolio Management
CO1	Provide students an understanding of working of capital markets
CO2	Awareness about management of portfolios of stocks.
CO3	Illustrate the notional framework for investment avenues.
CO4	Discover the analytical framework for valuation of shares.
CO5	Design short term and long term strategy of investment
21E000511	Training and Development
CO1	Understanding the various models of training in an organization.
CO2	Identifying the importance of training with reference to HR and corporate strategy.
CO3	Knowledge about training and need assessment procedure
CO4	Familiarizing the students with design of training programme.
CO5	Awareness about various training methods.
21E000514	Advertising and Sales Promotion Management
CO1	Provide students with detailed knowledge of some of the marketing mixes such as Sales and Promotion.
CO2	Understanding the concept of advertising.
CO3	Awareness about advertising agencies and advertising copy.
CO4	Familiarizing about preparation of advertisement budget.
CO5	Identifying the importance of sales promotions and various sales promotional tools.
21E000515	Performance Management
CO1	Understanding the performance management of individuals in the organization.
CO2	Knowledge about mentoring and monitoring concepts.
CO3	Awareness about coaching and counselling concepts for performance improvement.
CO4	Understanding of annual stock taking
CO5	Illustration about the concept of Learning Organization.
21E000422	Business Simulation Lab
CO1	Ability to analyse the data to draw inference for decision making.
CO2	Understand application of statistical measures of central tendency.
CO3	Understand application of ANOVA.
CO4	Knowledge about various concepts of SPSS.
CO5	Awareness about statistical tools for execution using excel.
	MBA -IV SEMESTER
21E000424	International Business Management
CO1	Understanding the nature of International Business Environment.
CO2	Knowledge about regulatory framework of International Trade.
CO3	Knowledge about financial framework of International Trade.
CO4	Awareness about various issues in Human Resource Development for International Business.
CO5	Identifying various components of global structure.
21E000425	E-Business
CO1	Provide an understanding of e-business applications in today's organizations
CO2	Understand various E business models.
CO3	Understand Online payment methods.
CO4	Learn various E Marketing strategies.
CO5	Understand mobile communication systems and standards
21E000517	Financial Derivatives
CO1	The types of players in derivatives markets.
CO2	Understanding of Different types of products available in derivatives market.
CO3	Valuation of futures & forward contract.
CO4	Design the swaps for a particular situation(Interest rate swaps / Currency swaps)
CO5	Measuring value at risk and cash at risk.
21E000518	Services Marketing
CO1	Provide a deeper insight into the marketing management of companies offering services as product.
CO2	Application of 7 P's of Service Marketing to different services.
CO3	Knowledge about customer expectations while buying the services.
CO4	Awareness about Service pricing strategies.
CO5	Designing the service promotion strategies.
21E000519	Organization Development
CO1	Understand planned change through models of change
CO2	Know values beliefs and assumptions and OD values
CO3	Use certain team interventions
CO4	Gain knowledge of the conditions for optimal success of OD and the issues in Client
CO5	Understand the importance of participation and empowerment, functioning of teams
21E000521	International Financial Management
CO1	Provide students with a broad view of International Monetary Systems
CO2	Illustrate foreign exchange procedure, exchange rate quotations spot market, future market
CO3	Distinguish between exchange rate risk, interest rate risk and political risk
CO4	Design the capital budgeting procedure and cash management of MNC
CO5	Understanding the financing decisions of working capital decisions of MNC's
21E000522	International Marketing

CO1	Provide students with a perspective of International Marketing Management
CO2	Understanding International market entry strategies.
CO3	Awareness about international product management.
CO4	Knowledge of international marketing channels.
CO5	Developing export marketing strategies.
21E000523	Global Human Resource Management
CO1	Understanding and interpreting HR policies with organisational goals
CO2	Analysing 5-P Model of Strategic Human Resource Management for an organisation
CO3	Examine impact of globalisation and technological advancement on Human Resource Management
CO4	Analysing business environment and formulating HR strategy.
CO5	Analysing problems in international organisations and proposing suggestions for the same.
21E000426	Seminar
CO1	Evaluate the skills required for the managers viz., communication skills, logical skills, analytical skills.
CO2	Evaluate the presentation skills, persuasion skills, decision making skills acquired by the students .
CO3	Evaluate managerial capabilities of the students.
21E000427	Project Work
CO1	Students will able to outline business research problem
CO2	Develop research objectives and research design
CO3	Make use of different data collection techniques
CO4	Conclude with the findings based on analysis
CO5	Propose suggestions to solve the problems.


 Head of the Department
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