Course Outcomes: Session 2023-24 Program wise: B. Tech 1st year

Department of Applied Sciences and Humanities

S.NO.	The state of the s	Subject Code	Course Outcome
1.	Engineering Physics	BAS101/BAS201	in black body radiation and to understand the difference in particle and wave nature with explanation of Compton effect and Schrodinger wave equation. CO2. To understand the concept of displacement current and consistency of Ampere's law and also the properties of electromagnetic waves in different medium with the use of Maxwell's equations. CO3. To understand the behavior of waves through various examples/applications of interference and diffraction phenomenon and the concept of grating and resolving power. CO4. To know the functioning of optical fiber and its properties and applications of Laser CO5. To know the properties and applications of superconducting materials
2.	Engineering Chemistry	BAS102/ BAS202	and nano materials. CO1. Get an understanding of the theoretical principles of chemistry of molecular structure, bonding and properties, Chemistry of advanced materials (liquid crystals, Nanomaterials, Graphite & Fullerene) as well as the Principles of Green Chemistry. CO2. Apply the fundamental concepts of determination of structure with various spectral techniques and stereochemistry. CO3. Utilize the theory of construction of electrodes, batteries and fuel cells in redesigning new engineering products and categorize the reasons for corrosion and study methods to control corrosion and develop understanding of Chemistry of Engineering materials (Cement) CO 4. Develop understanding of the sources, impurities and hardness of water, apply the concepts of determination of calorific values and analyze the coal

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			Chemical structure of polymers and its effect on their various properties when used as engineering materials. Understanding the applications of specific polymers and Chemistry applicable in industrial process.
3.	ENGINEERING MATHMATICS-I	BAS103	CO1. Understand the concept of complex matrices, Eigen values, Eigen vectors and apply the concept of rank to evaluate linear simultaneous equations CO2. Remember the concept of differentiation to find successive differentiation, Leibnitz Theorem, and create curve tracing, and find partial and total derivatives CO3. Applying the concept of partial differentiation to evaluate extrema, series expansion, error approximation of functions and Jacobians CO4. Remember the concept of Beta and Gamma function; analyze area and volume and Dirichlet's theorem in multiple integral CO5. Apply the concept of Vector Calculus to analyze and evaluate directional derivative, line, surface and volume integrals.
4.	ENGINEERING MATHMATICS- II	BAS203	CO1. Remember the concept differentiation to evaluate LDE of nth order with constant coefficient and LDE with variable coefficient of 2nd order. CO2. Understand and apply the concept of Laplace Transform to evaluate differential equations CO3. Understand the concept of convergence to analyze the convergence of series and expansion of the function for Fourier series. CO4. Apply the concept of analyticity, Harmonic function and create the image of function applying conformal transformation CO5. Apply the concept of Cauchy Integral theorem, Cauchy Integral formula, singularity and calculus of residue to evaluate integrals.
5.	Soft Skills	BAS 105/ BAS 205	CO1. Write professionally in simple and correct English. CO2. Demonstrate active listening with comprehension, and the ability to write clear and wellstructured emails and

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			proposals. CO3. Learn the use of correct body language and tone of voice to enhance communication CO4. Acquire the skills necessary to communicate effectively and deliver presentations with clarity and impact. CO5. Understand and apply some important aspects of core skills, like Leadership and stress management.
6.	Universal Human values	BVE301/BVE401	CO1. Understand the significance of value inputs in a classroom and start applying in their life and profession. CO2. Distinguish between values and skills, happiness and accumulation of physical facilities, the Self and the Body, Intention and Competence of an individual etc. CO3. Understand the value of harmonious relationship based on trust and respect in their life and profession. CO4. Understand the role of human being in ensuring harmony in society and nature. CO5. Distinguish between ethical and unethical practices, and start working out the strategy to actualize a harmonious environment wherever they work.
7.	BAS303/BAS403	MATHEMATICS-IV	CO1. Remember the concept of partial differential equations CO2. Analyze the concept of partial differential equations to evaluate the problems concerned with partial differential equations CO3. Understand the concept of correlation, moments, skewness and kurtosis and curve fitting CO4. Remember the concept of probability to evaluate probability distributions CO5. Apply the concept of hypothesis testing and statistical quality control to create control charts
8.	BAS301/BAS401	Technical Communication	CO1. Students will be enabled to understand the nature and objective of Technical Communication relevant for the work place as Engineers CO2. Students will utilize the technical writing for the purposes of Technical Communication and its exposure in various dimensions.

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			CO3. Students would imbibe inputs by presentation skills to enhance confidence in face of diverse audience CO4. Technical communication skills will create a vast know-how of the application of the learning to promote their technical competence CO5. It would enable them to evaluate their efficacy as fluent & efficient communicators by learning the voice-dynamics.
9.	KNC501/KNC601	CONSTITUTION OF INDIA, LAW AND ENGINEERING	CO1. To acquaint the students with legacies of constitutional development in India and help them to understand the most diversified legal document of India and philosophy behind it CO2. To make students aware of the theoretical and functional aspects of the Indian Parliamentary System CO3. To channelize students' thinking towards basic understanding of the legal conceptsand its implications for engineers. CO4. To acquaint students with latest intellectual property rights and innovation environment with related regulatory framework. CO5. To make students learn about role of engineering in business organizations and e-governance.
10.	KNC502/KNC602	INDIAN TRADITION, CULTURE AND SOCIETY	CO1. Understand basic principles of thought process, reasoning and inference to identify the roots and details of some of the contemporary issues faced by our nation and try to locate possible solutions to these challenges by digging deep into our past. CO2. Understand the importance of our surroundings and encourage the students to contribute towards sustainable development. CO3.Explain the issues related to 'Indian' culture, tradition and its composite character. CO4. Explain holistic life styles of Yogic-science and wisdom capsules in Sanskrit literature that are important in modern society with rapid technological advancements and societal disruptions. CO5. Understand students with Indian Knowledge System, Indian perspective of modern scientific world-view and basic

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		Ÿ.	principles of Yoga and holistic health care system.
11.	KHU701/KHU801	RURAL DEVELOPMENT: ADMINISTRATION AND PLANNING	CO1. Understand the definitions, concepts and components of Rural Development. CO2. Understand about the area development programmes and its impact. CO3. Understand the importance, structure, significance, resources of Indian rural economy. CO4. Understand about the using of different methods for human resource planning. CO5. Apply the acquired knowledge about rural entrepreneurship.
12.	KHU702/ KHU802	PROJECT MANAGEMENT & ENTREPRENEURSHIP	CO1. Understand the definition need and scope of Entrepreneurship. CO2. Understand the concept of Innovation and Identifying Business opportunities. CO3. Understand the meaning, scope, and importance of project management. CO4. Understand about project financing and preparation of financial statement. CO5. Understand about social entrepreneurship opportunities and social innovations and sustainability.
13.	KOE069	UNDERSTANDING THE HUMAN BEING COMPREHENSIVELYHUMAN ASPIRATIONS AND ITS FULFILLMENT	CO1. To Understand the basic human aspirations and its fulfilment through resolution. CO2. To have insight of definite human conduct and apply in living. CO3. To understand harmony in self to live in harmony. CO4. To understand its participation in lager order i.e., in nature. CO5. To understand the participation in harmony of entire existence.

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Department of Computer Science & Engineering

S.NO.	Subject Name	Subject Code	Course Outcome
1.	Programming for Problem Solving	BCS101/ BCS201	CO1: To develop simple algorithms for arithmetic and logical problems. CO2: To translate the algorithms to programs & execution in C Language. CO3: To implement conditional branching, iteration and recursion. CO4: To decompose a problem into function and synthesize a complete program using divide and conquer approach. CO5: To use arrays, pointers and structures to develop algorithms and programs.
2.	Data Structure	BCS301	CO1. Implement and explain how arrays and linked lists are represented in memory, used by the algorithms and their common applications. CO2. Implement and explain how stacks, queues and priority queues are represented in memory, used by the algorithms and their common applications. CO3. Implement and explain the concept of recursion, application of recursion and removal of recursion. CO4. Analyse and explain the computational efficiency of the sorting and searching algorithms. CO5. Explain various operations on Trees and Graphs and their applications.
3.	Computer Organization and Architecture	BCS-302	CO1. Study of the basic structure and operation of a digital computer system CO2. Analysis of the design of arithmetic & logic unit and understanding of the fixed point and floating-point arithmetic operations. CO3. Implementation of control unit techniques and the concept of Pipelining CO4. Understanding the hierarchical memory system, cache memories, and virtual memory CO5. Understanding the different ways of communicating with I/O devices and standard I/O interfaces
4.	Discrete Structures & Theory of Logic	BCS-303	CO1. Perform operations on Set and build relations among elements of Set. CO2. To prove whether a proposition is true for all-natural numbers using principle of mathematical induction. CO3. Classify an algebraic structure, i.e., set and binary operation on that set as semi group, monoid and group. CO4. Identify a partially ordered set as Lattice, bounded lattice, complemented lattice, distributed lattice, and lattice as Boolean Algebra.



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			CO5. Convert a Boolean expression to simplified Boolean expression, Sum-of-products/Product-of-sum form or its equivalent expression using Boolean algebra CO6. Check the validity of given argument/s using propositional logic and predicate logic. CO7. Use Graph theory to Identify graph as simple graph, planar graph, connected graph, complete graph bipartite graph and to graph colouring.
5.	. Cyber Security	BCC301	CO1 Understand the basic concepts of cyber security and cybercrimes CO2 Understand the security policies and cyber laws. CO3 Understand the tools and methods used in cyber crime CO4 Understand the concepts of cyber forensics CO5 Understand the cyber security policies and cyber laws
6.	Digital Electronics	BOE310	CO1 Apply concepts of Digital Binary System and implementation of Gates. CO2 Analyze and design of Combinational logic circuits. CO3 Implement the Design procedure of Synchronous & Asynchronous Sequential Circuits CO4 Analyze and design of Sequential logic circuits with their applications. CO5 Apply the concept of Digital Logic Families with circuit implementation.
7.	Operating System	BCS401	CO1. Understand the structure and functions of OS CO2. Learn about Processes, Threads and Scheduling algorithms. CO3. Understand the principles of concurrency and Deadlocks CO4. Learn various memory management scheme CO5. Study I/O management and File systems.
8.	Theory of automata	BCS402	CO1. Design Finite Automata (NFA, DFA, &-NFA, Minimized DFA) from given Language/ equivalent FA. CO2. Obtain Regular Expression from FA using Arden's Theorem and FA from regular expression using Kleene's Theorem. CO3. Construct Context free Grammar (CFG, Unambiguous CFG, Simplified CFG, CFG in Normal Form) from Equivalent CFG/ given language/FA. CO4. Design Pushdown Automata (NPDA, DPDA) for given language/CFG/FA. CO5. Design Turing Machine for given language/computation function and Test decidability using Turing Machine.
9.	Object Oriented Programming with Java	BCS403	CO1 Develop the object-oriented programming concepts using Java

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			CO2 Implement exception handling, file handling, and multi-threading in Java CO3 Apply new java features to build java programs. CO4 Analyse java programs with Collection Framework CO5 Test web and RESTful Web Services with Spring Boot using Spring Framework concepts
10.	Python Programming	BCC-402	CO1. To discover software bugs that pose cyber security threats and to explain how to fix the bugs to mitigate such threats. CO2. To discover cyber-attack scenarios to web browsers and web servers and to explain how to mitigate such threats. CO3. To discover and explain mobile software bugs posing cyber security threats, explain and recreate exploits, and to explain mitigation techniques. CO4. To articulate the urgent need for cyber security in critical computer systems, networks, and world wide web, and to explain various threat scenarios. CO5. To articulate the well-known cyber-attack incidents, explain the attack scenarios, and explain mitigation techniques.
11.	Database Management System	KCS501	CO1: Understand Relational Data Model, Network Data Model and Hierarchical Data Model and Design new relational schema using Entity relationship diagrams to create normalized relations to manage information of company database. CO2: Construct queries in relational algebra, tuple, domain calculus and SQL construct, and by applying integrity, key and referential integrity key constraints to manage information of company database. CO3: Design database's schema to solve the problem of null values, redundancy and anomaly by applying process of normalization. CO4: Understand the dirty read, incorrect summary and lost update problem in transactions and examine serializability and recoverability of schedule for concurrent execution of transactions and apply in central and distributed database environment. CO5: Understand 2-phase Locking, Time Stamp Ordering, Validation based and multi-version protocol to control concurrency.
12.	Compiler Design	KCS 502	CO1. Acquire knowledge of different phases and passes of the compiler and also able to use the compiler tools like LEX, YACC, etc. Students will also be able to design different types of compiler tools to meet the requirements of the realistic constraints of compilers.



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			CO2. Understand the parser and its types i.e. Top-Down and Bottom-up parsers and construction of LL, SLR, CLR, and LALR parsing table. CO3. Implement the compiler using syntax-directed translation method and get knowledge about the synthesized and inherited attributes. CO4. Acquire knowledge about run time data structure like symbol table organization and different techniques used in that. CO5. Understand the target machine's run time environment, its instruction set for code generation and techniques used for code optimization.
13	Design and Analysis of Algorithm	KCS503	CO1. Solve recurrences equations and analyze a given algorithm on the basis of time and space Complexities. Also compare algorithms through estimating their best-case, worst-case and average-case behavior. CO2. Solve the different tree-based problems and also solve dictionary problems using TRIE data structure. CO3. Design algorithms using Divide and Conquer Strategy and also Solve Optimization problems using Greedy strategy. CO4. Design efficient algorithms using Back Tracking, dynamic programming and Branch Bound techniques for solving problems. CO5. Classify computational problems into P, NP, NP-Hard and NP-complete problems. Analyze benefits of using approximation and randomized algorithms. Also, able to select a proper pattern matching algorithm for a given problem.
14.	Object Oriented System Design	KCS 054	CO1. Understand the application development and analyze the insights of object-oriented programming to implement application. CO2. Understand, analyze and apply the role of overall modeling concept. CO3. Understand, analyze and apply oops concepts (i.e. abstraction, inheritance. CO4. Understand the basic concept of C++ to implement the object-oriented concepts. CO5. To understand the object-oriented approach to implement real world problem.
15.	Machine Learning Techniques	KOE 055	CO1. Gain knowledge about basic concepts of Machine Learning and able to differentiate supervised, unsupervised or reinforcement learning CO2. Apply and Compare different prediction and classification techniques like linear & logistic regression, Bayesian and support Vector Machine.



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			CO3. Solve the classification problems using Decision tree and Instance based approach CO4. Understand Artificial Neural Network techniques and illustrate its algorithms like Back propagation and convolution neural network concepts CO5. Demonstrate reinforcement learning concept using Q learning algorithm and understand the basics of genetic algorithm.
16.	Software Engineering	KCS 601	CO1. Explain various software characteristics and analyze different software Development Models. CO2. Demonstrate the contents of a SRS and apply basic software quality assurance practices to ensure that design, development meet or exceed applicable standards. CO3. Compare and contrast various methods for software design. CO4. Formulate testing strategy for software systems, employ techniques such as unit testing, Test driven development and functional testing. CO5. Manage software development process independently as well as in teams and make use of various software management tools for development, maintenance and analysis.
17.	Web technology	KCS 602	CO1. Understand the application development and analyze the insights of object-oriented programming to implement application. CO2. Understand, analyze and apply the role of overall modeling concept. CO3. Understand, analyze and apply oops concepts (i.e. abstraction, inheritance. CO4. Understand the basic concept of C++ to implement the object-oriented concepts. CO5. To understand the object-oriented approach to implement real world problem.
118.	Computer networks	KCS 603	CO1. Explain basic concepts, OSI reference model, services and role of each layer of OSI model and TCP/IP, networks devices and transmission media, Analog and digital data transmission. CO2. Apply channel allocation, framing, error and flow control techniques. CO3. Describe the functions of Network Layer i.e. Logical addressing, subnetting & Routing Mechanism. CO4. Explain the different Transport Layer function i.e. Port addressing, Connection Management, Error control and Flow control mechanism. CO5. Explain the functions offered by session and presentation layer and their Implementation.



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			CO6. Explain the different protocols used at application layer i.e. HTTP, SNMP, SMTP, FTP, TELNET and VPN.
19.	Big data	KCS 061	CO1. Identify Big Data and its business implications. CO2. Use various techniques for mining data stream. CO3. List the components of Hadoop and Hadoop Eco System. CO4. Apply Map Reduce programming model to access and process data on Distributed File System. CO5. Manage job execution in Hadoop environment and develop Big Data solutions by applying Hadoop Eco System components.
20.	IDEA TO BUSINESS MODEL	KOE-060	CO1. Enhance creative knowledge of students regarding selection of a business idea and it's implementation process. CO2. Acquire knowledge on entrepreneurship development, its Pro's and con's. CO3. Acquire basic knowledge on how to become an Entrepreneur. CO4. Develop knowledge on Production systems and it's sustainability through production, planning and contro (PPC) CO5. Develop appropriate business model and apply in a better way.
	INDIAN TRADITION, CULTURE AND SOCIETY	KNC502	CO1. Identify and explore the basic features and modalities about Indian constitution. CO2. Differentiate and relate the functioning of Indian parliamentary system at the center and state level. CO3. Differentiate different aspects of Indian Legal System and its related bodies. CO4. Discover and apply different laws and regulations related to engineering practices. CO5. Correlate role of engineers with different organizations and governance models
22.	Artificial Intelligence	KCS-071	CO1. Understand the basics of the theory and practice of Artificial Intelligence as a discipline and about intelligent agents. CO2. Understand search techniques and gaming theory. CO3. The student will learn to apply knowledge representation techniques and problem-solving strategies to common AI applications. CO4. Student should be aware of techniques used for classification and clustering. CO5. Student should aware of basics of pattern recognition and steps required for it.
3. (Cloud Computing	KCS-713	CO1: Analyze the Cloud computing setup.



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			CO2: Apply and design suitable Virtualization concept, Cloud Resource Management and design scheduling algorithms CO3: Analyze different Cloud services and deployment models CO4: Assess cloud Storage systems and Cloud security, the risks involved, its impact and develop cloud application CO5: Describe the key components of Amazon web Service Analyze the components of open stack & Google Cloud platform
24	Dataware housing & Data Mining	KOE093	CO1. Distinguish multi-dimensional Data Models for generating Data warehouse. CO2 Plan and illustrate a data warehouse for industry perspective and understand various tools. CO3 Understand and apply statistical Techniques in data pre-processing. CO4 Compare and evaluate data mining techniques like classification, prediction, clustering ad association rule mining CO5 Identify different models used for OLAP in practical scenario with its overall perspective
25.	PROJECT MANAGEMENT & ENTREPRENEURSHIP	KHU802	
26.	Deep Learning	KCS078	CO1 To present the mathematical, statistical and computational challenges of building neural networks K CO 2 To study the concepts of deep learning CO 3 To introduce dimensionality reduction techniques CO 4 To enable the students to know deep learning techniques to support real-time applications K CO 5 To examine the case studies of deep learning techniques
27.	RURAL DEVELOPMENT: ADMINISTRATION AND PLANNING	KHU701	CO1. Students can understand the definitions, concepts and components of Rural Development CO2. Students will know the importance, structure, significance, resources of Indian rural economy. CO3. Students will have a clear idea about the area development programmes and its impact. CO4. Students will be able to acquire knowledge about rural entrepreneurship. CO5. Students will be able to understand about the using of different methods for human resource planning



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Criteria 2.6
Course outcome (Odd Semester, Session 2023-24)

No.	Year/ Sem.	Subject Code	Subject Name	Course Outcome
111		BCE-301	Engg Mechanics	Course Outcomes: At the end of this course the student will be able to 1. Use scalar and vector analytical techniques for analyzing forces in statically determinate structures 2. Apply fundamental concepts of kinematics and kinetics of particles to the analysis of simple, practical problems. 3. Apply basic knowledge of mathematics and physics to solve real-world problems. 4. Apply basic dynamics concepts – force, momentum, work and energy. 5. Apply Newton's laws of motion for solving the problems.
i) N	2 nd / 3 nd	BCE-302	Surveying and Geomatics	Course Outcomes: At the end of this course the student will be able to 1. Apply concepts of survey to prepare plan, profile, and cross-section for computations. 2. Calculate, design and layout horizontal and vertical curves. 3. Operate modern survey instrument for recording of data for scientific uses. 4. Apply principles of Photogrammetry for surveying. 5. Apply principles of Remote Sensing and Digital Image Processing for Civil Engineering problems.
Ų.		BCE-303	Fluid Mechanics	able to 1. Explain principles of fluid statics, kinematics and dynamics. 2. Explain the terms used in fluid mechanics to describe fluid and flow properties. 3. Explain classifications of fluid flow. 4. Apply the continuity, momentum and energy principles

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Course Outcomes: After completion of the course student will be able to: 1. CO-1 Understand the importance of units of measurement and preliminary estimate for administrative approval of projects. 2. CO-2 Understand the contracts and tender documents in construction projects. 3. CO-3 Analyze and assess the quantity of materials required for civil engineering works as per specifications. 4. CO 4 Evaluate and estimate the cost of expenditure and prepare a detailed rate analysis report. 5. CO-5 Analyze and choose cost effective approach for civil engineering projects.	Quantity Estimation and Construction Management	KCE-503		ω
Course Outcomes: After completion of the course student will be able to: 1. CO-1 Explain type of structures and method for their analysis. 2. CO-2 Analyze different types of trusses for member forces: 3. CO-3 Compute slope and deflection in determinate structures using different methods. 4. CO-4 Apply the concept of influence lines and moving loads to compute bending moment and shear force at different sections. 5. CO-5 Analyze determinate arches for different loading conditions.	Structure Analysis	KCE-502	3 rd / 5 th	ы
Course Outcomes: After completion of the course student will be able to: 1. CO-1 Classify the soil and determine its Index properties. 2. CO-2 Evaluate permeability and seepage properties of soil. 3. CO-3 Interpret the compaction and consolidation characteristics & effective stress concept of soil. 4. CO-4 Determine the vertical and shear stress under different loading conditions and explain the phenomenon of soil liquefaction. 5. CO-5 Interpret the earth pressure and related slope failures.	Geotechnical Engineering	KCE-501		-

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 Explain the importance of railway infrastructure. Identify the factors governing design of railway infrastructures. Analysis and design the railway track system. Understand the concepts of airport engineering and design components of airport. Associate with the concepts of water transport system. 	Railways, Waterways and Airways Engg.	KCE-070	4 th / 7 th	=
Course Outcomes: At the end of this course students will demonstrate the ability to:				
pollutants 5. CO-5 Understand automotive emission standards 6. CO-6 Apply methods for controlling noise pollution				
pollutants. 4. CO-4 Demonstrate methods for controlling gaseous air				
aspects of air pollutants. 3. CO-3 Demonstrate methods for controlling particulate air	Air and Noise Pollution Control	KCE-057		5.
CO-1 Understand air pollutants and their impacts. CO-2 Explain air pollution chemistry and meteorological				
be able to:				
Course Outcomes: After completion of the course student will				
5. CO-5 Use advanced concrete types in construction industry.				
CO-4 Design the concrete mix for various strengths using				
 CO-3 Evaluate the strength and durability parameters of 	Concrete Technology	KCE-051		4
concrete. 2. CO-2 Apply admixtures to enhance the properties of				
1. CO-1 Understand the properties of constituent material of				
be able to:				
Course Outcomes: After completion of the course student will				

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		KCE-075 Design of Steel Structures			
braced and latticed columns and column bases. 5. Design flexural members such as beams, purlins and girders	 Design tension members for elementary steel structures. Design compression members such as simple columns, 	Design welded and bolted type of connections for elementary steel structures.	 Understand properties of steel and types of loads acting on 	demonstrate the ability to:	treat desirably and area on the state of the

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Draw performance curve for the turbines.				
problems in open channels.	Hydraulic Engineering & Machines	BCE-403		S
 Apply their knowledge of fluid mechanics in addressing 				
Course Outcomes: At the end of this course the student will be able to				
Analyze the behavior of shafts, and cylinders against loads				
 Analyze structural members subjected to axial loading and combined stresses 				
Analyze				
-	Introduction To Solid Mechanics	BCE-402		4
2 Calculate the deflections at any point on a beam			2/4	
 Describe the concepts and principles of stresses and 			P. B	
Course Outcomes: At the end of this course the student will be able to				
construction practices.				
5. Exemplify the various building services and modern				
 Characterize the concept of plastering, pointing and various other building services 				
3. Select suitable type of flooring and roofing in the	material, results & construction reactions	DCD-401		4
 Explain use of non-conventional civil engineering materials 	Material Testing & Construction	BCE 401		u
properties.				
Explain various building materials based on their				
Course Outcomes: At the end of this course the student will				
Core / Elective	Subject Name	Code	Sem.	No.
		Subject	Year /	y

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Course Outcomes: After completion of the course student will be able to: 1. CO-1 Assess water demand and optimal size of water mains. 2. CO-2 Layout the distribution system & assess the capacity of reservoir. 3. CO-3 Investigate physical, chemical & biological parameter of water. 4. CO-4 Design treatment units for water and waste water.	Environmental Engineering	KCE-603		ω
Course Outcomes: After completion of the course student will be able to: 1. CO-1 Understand the history of road development, their alignment & Survey. 2. CO-2 Design the various geometric parameters of road ontersections & signals. 4. CO-4 Examine the properties of highway materials & their implementation in design of pavements. 5. CO-5 Learn methods to construct various types of roads.	Transportation Engineering	KCE-602	3rd /6th	ы
Course Outcomes: After completion of the course student will be able to: 1. CO-1 Analyse and Design RCC beams for flexure by IS methods. 2. CO-2 Analyse and Design RCC beams for shear by IS methods. 3. CO-3 Analyse and Design RCC slabs and staircase by IS methods. 4. CO-4 Design the RCC compression members by IS methods. 5. CO-5 Design various types of footings and cantilever retaining wall	Design of Concrete Structures	KCE 601		=

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KOE-066						KCE-064								
		GIS & Remote Sensing									Foundation Design			
Spanal problems. CO5: Create GIS and cartographic outputs for presentation	cO4: Analyze spatial and attribute data for solving	sensed data 3. CO3: Apply problem specific remote sensing data for	Sensing and its advantages and limitations. 2. CO2: Retrieve the information content of remotely	1. CO1: Understand about the principles of Remote	student will be able to	COURSE OUTCOME: After completion of the course	5. CO-5 Understand the concept of soil reinforcement.	 CO-4 Understand the characteristics of well foundations 	and understand the basics of deep foundation.	 CO-3 Design the various types of shallow foundation 	for shallow foundation.	and its importance. 2. CO-2 Analyze bearing capacity and settlement of soil	 CO-1 Understand various methods of Soil Exploration 	will be able to:

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Electrical Engineering Department (Session 2023-24) Course outcomes

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S.N.	Subject Ivaille	Subject Code	Course Outcomes
1.	Electromagnetic Field Theory	BEE301	CO-1 Apply different coordinate systems and their application in electromagnetic field theory, establish a relation between any two systems and also understand the vector calculus. CO-2 Understand the concept of static electric field. Understand the concept of current and properties of conductors. Establish boundary conditions and to calculate capacitances of different types of capacitors CO-3 Understand the concept of static magnetic field, magnetic scalar and vector potential CO-4 Understand the forces due to magnetic field, magnetization, magnetic boundary conditions and inductors. CO-5 Understand displacement current, time varying fields, propagation and reflection of EM waves and transmission lines.
2.	Electrical Measurements & Instrumentation	BEE302	CO-1 Evaluate errors in measurement as well as identify and use different types of instruments for the measurement of voltage, current CO-2 Demonstrate the construction and working of different measuring instruments for Power, energy and frequency measurements. CO-3 Demonstrate the construction and working of different AC and DC bridges, along with their applications. CO-4 Demonstrate the working of instrument transformers as well as calculate the errors in current and potential transformers, Manifest the working of electronic instruments like voltmeter, multimeter, frequency meter and CRO and ability to measure electrical engineering parameters like voltage, current, power, phase difference and frequency. CO-5 Display the knowledge of transducers, their classifications and their applications for the measurement of physical quantities like motion, force, pressure, temperature.
3.	Basic Signals & Systems	BEE303	flow and liquid level. CO-1 Represent the various types of signals & systems and can perform mathematical operations on them. CO-2 Analyze the response of LTI system to Fourier series and Fourier transform and to evaluate their applications to network analysis. CO-3 Analyze the properties of continuous time signals and system using Laplace transform and determine the response of linear system to known inputs. CO-4 Implement the concepts of Z transform to solve complex engineering problems using difference equations. CO-5 Develop and analyze the concept of state-space models for SISO & MIMO system.
1.	Digital Electronics	BEE401	CO-Perform number style arithmetic and logic simplification using various methods. CO-2 Design and analyze modular combinational circuits with MUX / DEMUX, Decoder & Encoder CO-3 Design & analyze synchronous sequential logic circuits CO-4 Analyze various logic families and design circuits using

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			CO-5 Design various ADCs and DACs according to the given specifications.
	5. Electrical Machines-I	BEE402	CO-1 Analyze the various principles & concepts involved in
			Electromechanical Energy conversion.
			CO- Demonstrate the constructional details of DC machines
			as well as transformers, and principle of operation of brushless
			DC motor, Stepper and DC Servo motors.
			CO-3 Evaluate the performance and characteristics of DC
			Machine as motor and as well as generator.
			CO-4 Evaluate the performance of transformers, individually and in parallel operation.
			CO-5 Demonstrate and performs again and it
			CO-5 Demonstrate and perform various connections of three phase transformers.
6.	. Networks Analysis &	BEE403	CO-1 Apply the knowledge of basic circuital law, nodal and
	Synthesis		mesh methods of circuit analysis and simplify the network
			using Graph Theory approach.
			CO-2 Analyze the AC and DC circuits using Kirchhoff's law
			and Network simplification theorems.
		-	CO-3 Analyze steady-state responses and transient response
			of DC and AC circuits using classical and Laplace transform
			methods.
			CO-4 Demonstrate the concept of complex frequency and
			analyze the structure and function of one and two port
			network. Also evaluate and analysis two-port network
			parameters.
			CO-5 Synthesize one port network and analyze different
7.	D. C.		filters.
/.	Power System - I	KEE501	CO-1Describe the working principle and basic components of
			conventional power plants as well as the other aspects of
			power generation.
		e,	CO-2 Recognize elements of power system and their
			functions, as well as compare the different types of supply
			systems. Illustrate different types of conductors, transmission
			lines and various performance parameters of transmission line
			for short, medium and long transmission line.
			CO-3 Calculate sag and tension in overhead lines with and
			without wind and ice loading. Classify different type of
		,	insulators, determine potential distribution over a string of
			insulator, string efficiency and its improvement.
			CO-4 Compute the inductance and capacitance of single
			phase, three phase lines with symmetrical and unsymmetrical
			spacing, Composite conductors-transposition, bundled
			conductors, and understand the effect of earth on capacitance
			of transmission lines.
			CO-5Elucidate different types of cables and assess the
			Resistance and capacitance parameters of cables, grading of
	Control System	KEE502	cables and compare overhead lines and cables.
			CO-1 Obtain transfer functions to predict the correct
			operation of open loop and closed loop control systems and
			dentify the basic elements, structures and the characteristics
			of feedback control systems.
			CO-2 Measure and evaluate the performance of basic control
			systems in time domain. Design specification for different control action.
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			CO-3 Analyze the stability of linear time-invariant systems in

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			time domain using Routh- Hurwitz criterion and root locus technique. CO-4 Determine the stability of linear time-invariant systems in frequency domain using Nyquist criterion and Bode plot. CO-5 Design different type of compensators to achieve the desired performance of control System by root locus and Bode plot method. Develop and analyze the intermediate states of the system using state space analysis.
9.	Electrical Machines-II	KEE503	CO-1 Demonstrate the constructional details and principle of operation of three phase Induction and Synchronous Machines. CO-2 Analyze the performance of the three phase Induction and Synchronous Machines using the phasor diagrams and equivalent circuits. CO-3 Select appropriate three phase AC machine for any application and appraise its significance. CO-4 Start and observe the various characteristics of three phase Induction & Synchronous Machines CO-5 Explain the principle of operation and performance of Single-Phase Induction Motor & Universal Motor.
10.	SENSORS AND TRANSDUCERS	KEE-052	CO-1 Understand the working of commonly used sensors in industry for measurement of displacement, force and pressure. CO-2 Recognize the working of commonly used sensors in industry for measurement of temperature, position, accelerometer, vibration sensor, flow and level. CO-3 Identify the application of machine vision. CO-4 Conceptualize signal conditioning and data acquisition methods. CO-5 Comprehend smart sensors and their applications in automation systems.
11.	ANALOG & DIGITAL COMMUNICATION	KEE-058	CO-1 Understand the Amplitude Modulation in communication system. CO-2 Comprehend the Frequency & Phase modulation. CO-3 Realize the Pulse Modulation Techniques. CO-4 Get the Digital Modulation Techniques and their use in communication system. CO-5 Apply the concept of Information Theory in
12.	Power System-II	KEE601	CO-1 Identify power system components on one line diagram of power system and its representation including the ehavior of the constituent components and sub systems and Analyse a network under both balanced and unbalanced fault conditions and design the rating of circuit breakers. CO-2 Perform load flow analysis of an electrical power network and interpret the results of the analysis. CO-3 Describe the concept of travelling waves in transmission lines and use the travelling wave theory to determine the over voltage caused by surge propagation in transmission networks. CO-4 Assess the steady state and transient stability of the power system under various conditions. CO-5 Describe Operating Principle of a relay and classify them according to applications. Explain working principle of Circuit breaker and phenomenon of arc production and quenching.
3.	Microprocessor and	KEE602	CO-1 Demonstrate the basic architecture of 8085 & 8086

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Microcontroller		
Morocontroller		microprocessors
		CO-2Illustrate the program
		write program using 8085 microprocessor & CO-3 Interface different
		8085 microprocessor CO-4 Comprehend the
		CO-4 Comprehend the architecture of 8051 microcontroller CO-5 Compare advance level microprocessor & microcontroller for different and in the controller for different and in
14. Power Electronics	KPDs	microcontroller for different introprocessor &
a succession and a succ	KEE6	
		of BJT, MOSFET, IGBT, SCR, TRIAC and GTO and identify their use in the power switching applications.
		their use in the power switching applications CO-2 Comprehend the power switching applications
		apply their use in different Power electronics applications.
		CO-3 Analyze the phase controlled rectifiers and evaluate their performance parameters.
		CO-4 Apprehend the working of
		controllers, cyclo-converters and their various applications.
		CO-5 Explain the single phase and their various applications.
15. SPECIAL ELECTRICA	L KEE-0	for harmonic reduction.
MACHINES	KEE-00	Describe the Working principle of
		The Hachonal Kilowatt machine
		CO-2 Alialyze fordile- speed characterist:
		Study different types of control tooks:
	-	matrine and identity the pest control strategy based
		apon different constraints
		CO-4 Illustrate the use of stepper BLDCo CDM
		office special machines in the area of the
		industrial and domestic as well as commencial
16. SOFTWARE PROJECT		applications of various fractional kilowett most:
SOLI WAKE PROJECT	KOE-068	Tuchuly blolect planning chiegtings at
MANAGEMENT		various cost/effort estimation models
		CO-2 Organize & schedule project activities to compute
		critical path for risk analysis.
		CO-3 Monitor and control project activities.
		CO-4 Formulate testing objectives and test plan to
		ensure good software quality and test plan to
		ensure good software quality under SEI-CMM.
	,	CO-5 Configure changes and manage risks using project
Energy Conservation and	KEE-071	management tools.
Auditing	- LDL-0/1	CO-1 Identify and assess the energy conservation/saving
		opportunities in different electric system and understand
		related legislations.
		CO-2 Identify and assess the energy saving behavior of
		utilities through implementation of DSM and FMIS
		CO-3 Explain energy audit & management and to
		prepare energy audit report for different energy
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		Conservation instances
		conservation instances.
		conservation instances. CO-4 Illustrate the energy audit for Mechanical Utilities.

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			CO-5 Describe cost-effective measures towards improving energy efficiency and energy conservation by implementation of energy efficient technologies.
18.	Utilization of Electrical Energy and Electric Traction	KEE-079	CO-1 Describe the methods of electric heating and their advantages. CO-2 Explain the types of Electric welding and the principle of Electro-deposition, laws of electrolysis and its applications CO-3 Explain the laws of illumination and explain the principle of refrigeration and air-conditioning. CO-4 Describe the different types of Electric traction, system of track electrification and its related mechanics CO-5 Describe the salient features of traction drive and concept of energy saving using power electronic control of AC and DC drives

Saurabh Saxena

Saular. Department NAAC Incharge

Dr. Rajul Misra H.O.D.

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MORADABAD INSTITUTE OF TECHNOLOGY, MORADABAD Department of Electronics & Communication Engineering

Subject's Course Outcomes: Department of Electronics & Communication Engineering

3.0	. Subject Name		Course Outcomes
1	Electronic Devices	BEC-301	
2	Digital System Design		CO1. Perform numerous arithmetic and logic simplification using various methods. CO2. Design and analyze modular combinational circuits with MUX / DEMUX, Decoder & Encoder. CO3. Design & analyze synchronous sequential logic circuits. CO4. Analyze various logic families and design circuits using PLDs. CO5. Design various ADCs and DACs according to the given specifications.
3	Network Analysis and Synthesis		CO1. Understand basics electrical circuits with nodal and mesh analysis. CO2. Apply electrical network theorems. CO3. Apply Laplace transform for analysis steady state and transient behaviour of network circuit. CO4. Determine different network functions of Two Port network CO5. Analyse the frequency response of various filters.
	Communication Engineering	BEC -401	CO1. Analyze and compare different analog modulation schemes for their efficiency and bandwidth. CO2. Analyze the behavior of a communication system in presenc of noise. CO3. Investigate pulsed modulation system and analyze their system performance. CO4. Investigate various multiplexing techniques. CO5. Analyze different digital modulation schemes and compute the bit error performance.
	Analog Circuits	BEC-402	CO1. Understand and design of the various amplifiers. CO2. Understand the concept of feedback topologies. CO3. Design the different types of oscillators. CO4. Understand the functioning of OP AMP and design OP-AMI based circuits. CO5. Apply the concept of Operational amplifier to design linear and non-linear applications.
		BEC-403 C	CO1. Analyze different types of signals. CO2. Analyze linear shift-invariant (LSI) systems. CO3. Represent continuous and discrete systems in time and requency domain using Fourier series and transform. CO4. Analyze discrete time signals in z-domain. CO5. Study sampling and reconstruction of a signal.
	Integrated Circuits	C C	O1. Explain complete internal analysis of Op-Amp 741-IC. O2. Examine and design Op-Amp based circuits and basic emponents of ICs such as various types of filter. O3. Implement the concept of Op-Amp to design Op-Amp based on-linear applications and wave-shaping circuits. O4. Analyze and design basic digital IC circuits using CMOS chnology.

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			CO5. Describe the functioning of application specific ICs such as 555 timer, VCO IC 566 and PLL.
8	Microcontroller	KEC-502	CO1. Demonstrate the basic architecture of 8085. CO2. Illustrate the programming model of microprocessors & written program using 8085 microprocessor. CO3. Demonstrate the basics of 8086 Microprocessor and interfact different external Peripheral Devices like timer, USART etc. with Microprocessor (8085/8086). CO4. Compare Microprocessors & Microcontrollers, and comprehend the architecture of 8051 microcontroller CO5. Illustrate the programming model of 8051 and implement them to design projects on real time problems.
9	Digital Signal Processing	KEC-503	CO1. Design and describe different types of realizations of digital systems (IIR and FIR) and their utilities. CO2. Select design parameters of analog IIR digital filters (Butterworth and Chebyshev filters) and implement various methods such as impulse invariant transformation and bilinear transformation of conversion of analog to digital filters. CO3. Design FIR filter using various types of window functions. CO4. Define the principle of discrete Fourier transform & its various properties and concept of circular and linear convolution. Also, students will be able to define and implement FFT i.e. a fast computation method of DFT. CO5. Define the concept of decimation and interpolation. Also, they will be able to implement it in various practical applications.
10	VLSI Technology		CO1. Interpret the basics of crystal growth, wafer preparation and wafer cleaning. CO2. Evaluate the process of Epitaxy and oxidation. CO3. Differentiate the lithography, etching and deposition process. CO4. Analyze the process of diffusion and ion implantation CO5. Express the basic process involved in metallization and packaging.
11	Optical Communication	KEC-058 C	CO1. Define and explain the basic concepts and theory of optical communication. CO2. Describe the signal losses with their computation and dispersion nechanism occurring inside the optical fiber cable. CO3. Differentiate the optical sources used in optical communication with their comparative study. CO4. Identify different optical components on receiver side; assemble mem to solve real world problems related to optical communication systems. CO5. Evaluate the performance of an optical receiver to get idea about ower budget and ultimately be an engineer with adequate knowledge optical domain.
	Digital Communication	KEC-601 C	CO1. To formulate basic statistics involved in communication heory. CO2. To demonstrate the concepts involved in digital ommunication. CO3. To explain the concepts of digital modulation schemes. CO4. To analyze the performance of digital communication systems. CO5. To apply the concept of information theory in digital systems.

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13	Control System	KEC-602	CO1. Describe the basics of control systems along with different types of feedback and its effect. Additionally they will also be able to explain the techniques such as block diagrams reduction, signal flow graph and modelling of various physical systems along with modelling of DC servomotor. CO2. Explain the concept of state variables for the representation of LTI system. CO3. Interpret the time domain response analysis for various types of inputs along with the time domain specifications. CO4. Distinguish the concepts of absolute and relative stability for continuous data systems along with different methods. CO5. Interpret the concept of frequency domain response analysis and their specifications.
14	Antenna and Wave Propagation	KEC-603	CO1. Identify different coordinate systems and their applications in electromagnetic field theory to establish a relation between any two systems using the vector calculus. CO2. Explain the concept of static electric field, current and properties of conductors. CO3. Express the basic concepts of ground, space, sky wave propagation mechanism. CO4. Demonstrate the knowledge of antenna fundamentals and radiation mechanism of the antenna. CO5. Analyze and design different types of basic antennas.
15	Satellite Communication	KEC-062	CO1. Define and list the benefits of satellite communication. CO2. Demonstrate orbital mechanics principles of satellite communication systems and solve problems related to it. CO3. Describe a satellite link and identify ways to improve the link performance. CO4. Classify new technologies of satellite communication systems as per given specifications. CO5. Examine advanced technologies of satellite launching and describe the Indian satellite system.
16	VLSI Design	KEC-072	
17	Wireless & Mobile Communication		CO1. Express the basic knowledge of mobile radio & cellular communication fundamentals and their application to propagation mechanisms, path loss models and multi-path phenomenon. CO2. Analyze the performance of various voice coding and diversity techniques. CO3. Apply the knowledge of wireless transmission basics to understand the concepts of equalization and multiple access techniques. CO4. Examine the performance of cellular systems being employed such as GSM, CDMA and LTE using various theoretical and mathematical aspects. CO5. Express basic knowledge of Mobile Adhoc networks and the existing & upcoming data communication networks in wireless and mobile communication domain.

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Fundamenta Electronics Engineering	BEC-201	CO1. Describe the concept of PN Junction and devices. CO2. Explain the concept of BJT, FET and MOFET. CO3. Apply the concept of Operational amplifier to design linear and non-linear applications. CO4. Perform number systems conversions, binary arithmetic and minimize logic functions. CO5. Describe the fundamentals of communication technologies.
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Mr. Manas Singhal Assistant Professor

Dr. Kshirij Shinghal H.o.D.-ECE

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DEPARTMENT OF MECHANICAL ENGINEERING

Course Outcomes:

S. No	Subject Name	Subject Code	Course Outcome
1.	Universal Human Values	KVE-301	CO1: Understand the significance of value inputs in a classroom and start applying in their life and profession. CO2: Distinguish between values and skills, happiness and accumulation of physical facilities, the Self and the Body, Intention and Competence of an individual etc. CO3: Understand the value of harmonious relationship based on trust and respect in their life and profession. CO4: Understand the role of human being in ensuring harmony in society and nature. CO5: Distinguish between ethical and unethical practices, and start working out the strategy to actualize a harmonious environment wherever they work.
2.	Thermodynamics	KME-301	To Explain fundamental concepts of thermodynamics and apply the concept of first law of thermodynamics to open and closed systems To apply the concept of second law of thermodynamics and entropy To apply the concept of availability and irreversibility and thermodynamic relations To apply the properties of pure substance and airwater vapour mixture. To Analyze air and vapour compression refrigeration systems.
3.	Fluid Mechanics & Fluid Machines	KME-302	Introduce fundamental aspects of fluid flow behavior, properties and analyzing flow systems in venturimeter, orifice meter, pitot tube and notches Recognize different types of flows with relevant equations Calculate flow through pipes in different types of flow characteristics Study and analyze the forces, power and efficiency on vanes, hydraulic turbines with Performance characteristics Study and analyze the Work done & Efficiencies of different types of pumps with Performance characteristics
4.	Material Science	KME-303	Identify crystal structures for various materials and understand the defects in such structures. Quantify mechanical integrity and failure in materials.

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			 Provide a detailed interpretation of equilibrium phase diagrams. Learning about different phases and heat treatment methods to tailor the properties of Fe-C alloys. Understand how to tailor material properties of ferrous and non-ferrous alloys.
5.	Heat & Mass Transfer	KME-501	 To be able and analyze the steady state conduction mode of heat transfer in one dimension flow through composite plane wall, cylinder and sphere for steady state heat conduction problem. To be able to learn, understand need, application and to analyze the performance of fins of uniform cross sections. To provide the knowledge on the principles of free and forced convection and analyze the Convection heat transfer coefficient in different convection environments. To learn and understand thermal radiation in black, grey and real surfaces. Planks distribution law, vein's law, Stephen', Boltzmann law, Kirchhoff's law, radiations shield and shape factors and understand basic concept and types of heat exchanges and their recent applications. To learn about diffusion and convective mass transfer & to understand the construction, Working and performance of different heat exchangers
6.	Strength of Materials	KME-502	 Understand the concept of stress - strain and theories for failure under various loading conditions and analyze principal stresses and strain in structural members. Analyze the stresses and deflection in the beam due to various loading conditions and understand the concept of torsion. Analyze the moment and stress developed in different types of spring and buckling in column and strut under different loading conditions. Understand the various stresses and design factors of thick and thin pressure vessels. Analyze the stresses developed in curved beams of different cross sections and determine the shear and deflection in unsymmetrical bending.
7.	Industrial Engineering	KME-503	Understand the concept of production system, productivity, facility and process planning in various industries. Apply the various forecasting and project management techniques. Apply the concept of break-even analysis, inventory control and resource utilization using





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			queuing theory. 4. Apply principles of work study and ergonomics for design of work systems. 5. Formulate mathematical models for optimal solution of industrial problems using linear programming approach
8.	Computer Integrated Manufacturing	KME-051	 Understand the basic concepts of automation, computer numeric control machining. Develop CNC program for simple operations. Understand group technology, computer aided process planning, flexible manufacturing, Industry 4.0, robotics. Understand information system and material handling in CIM environment, rapid Prototyping. Understand and Apply the algorithms of line generation, circle generation, transformation, curve, surface modeling and solid modelling.
9.	Advance Welding	KME-055	Understanding the physics of arc welding process and various operating characteristics of welding power source. Analyse various welding processes and their applications. Apply the knowledge of welding for repair & maintenance along with the weldability of different materials. Apply the concept of quality control and testing of weldments in industrial environment. Evaluate heat flow in welding and physical metallurgy of weldments,
10.	Mathematical modelling of manufacturing processes	KME-073	Understand the fundamentals of manufacturing processes, mathematical models and their solutions Understand unconventional and conventional machining, their discrete-time linear, non-linear models and solutions Analyze the mechanism of forming and heat transfer in welding Apply the principles of casting, powder metallurgy, coating and additive Manufacturing Understand the fundamental of heat treatment, micro / nano manufacturing and processing of non-metallic materials
11.	Vehicle body engineering and safety	KAU-073	Understand the classification of the vehicle on the basis of body. Understand the importance of material selection in designing automotive bodies. Understand the concept of aerodynamics used in designing automobiles. Understand the importance of interior and exterior

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			ergonomics while designing the vehicle. 5. Identify various sources of noise and methods of noise separation and various safety aspects in a given vehicle.
12.	Additive Manufacturing	KME-071	Understand the basics of additive manufacturing/rapid prototyping and its advantages and disadvantages. Understand the role of additive manufacturing in the design process and the implications for design. Understand the processes used in additive manufacturing for a range of materials and applications Understand the various software tools, processes and techniques that enable advanced/additive manufacturing and personal fabrication. Apply knowledge of additive manufacturing for various real-life applications
13.	Hybrid Vehicle Propulsion	KAU-072	 Understand the basics of the hybrid electric vehicles and its types. Understand the types of drive trains used in hybrid vehicles. Understand the propulsion units used in Hybrid Vehicles and their efficiency. Understand the requirements and devices of energy storage used in hybrid vehicles. Understand the concept of downsizing of IC engines in case of hybrid vehicles AND the principles of energy management and issues related to these strategies.
14.	Energy Science and Engineering	KOE-043	Define the basic energy concepts through thermodynamics applications. Discuss the nuclear energy concepts and nuclear power plant. Describe the solar energy phenomena, basic concepts, principle and advancement in solar cells. Explain wind, ocean and geothermal energy basic concepts and power plants based on them. Justify the need of sustainable development and discuss various tools for environmental management.
15.	Applied Thermodynamics	KME-401	Understand the concept of fuels and their analysis and heat calculations, and analyze air standard cycles. Analyze the vapor power cycles and their method of improvement and learn the concept of combustion and various heats involved. Understand the working of boiler and its mounting and accessories and condenser and

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			analyze their performance Analyze the dynamics of flow through nozzle and understand the principles of steam turbine and analyze the energy conversion in steam turbine. Understand the principles and operation of gas turbine and jet propulsion and analyze the performance parameters in reciprocating compressors.
16.	Engineering Mechanics	KME-402	 Understand the concept of resultant & equilibrium of coplanar and non-coplanar forces and effect of friction on equilibrium. Apply the equation of static equilibrium in analysis of beam and trusses. Understand the concept of centroid and moment of inertia of various planar as well as solid bodies. Understand and apply the equations of general plane motion to analyze impact of elastic bodies on collision. Understand and apply the concepts of stress and strains at a point to calculate the stresses and strains in axially loaded members, circular torsion members and members subjected to flexural loadings.
17.	Manufacturing Processes	KME-403	 Select suitable casting process for manufacturing of component and design mould tooling. Acquire fundamental knowledge of various metal forming processes and apply to select suitable process for manufacturing sheet metal products. Utilize fundamental knowledge of various welding processes and select suitable process and parameters for welding components of different thicknesses and materials. Apply fundamental knowledge of various cutting operations, tools and machines for machining and surface finishing of components. Understand the principles and applications of different unconventional machining processes and advance manufacturing techniques.
18.	Refrigeration and Air conditioning	KME-601	Familiarise you with the terminology associated with refrigeration and air-conditioning. To cover the basic principle of psychrometric and applied psychrometric. Familiarise you with load calculation and duct design. To cover the basic principle of psychrometric and load calculation and duct design. Explain the construction and working of various components in Refrigeration & Air-Conditioning systems.

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19.	Machine Design	KME-602	 Student will able to identify the design requirement and design procedure and able to calculate the dimensions of five different machine elements such as shaft, Rivet, spring, key and coupling. Student will able to design the machine elements subjected to static as well as fluctuating load. Student will able to analyse the cause of failure of shafts and able to design the shaft on strength and rigidity bases. Students will able to solve stresses and deflection of helical springs and also able to design helical springs subjected to static and fluctuating load. Student will able to calculate the efficiency of square threads and able to analyse the stresses in the screw.
20.	Theory of Machine	KME-603	 Students will able to do velocity and acceleration analysis of four bar and slider crank mechanism. Students will be able to compute the problems of the simple, compound and epicylic gear train. Analyze dynamic force analysis of slider crank mechanism and design of flywheel. Analyse analytical and graphical methods for calculating balancing of rotary and reciprocating masses. Balancing of reciprocating and rotary masses. Compute frictional losses, torque transmission of mechanical systems.
21.	Non Destructive Testing	KME-061	Understand the concept of destructive and Non-destructive testing methods. Explain the working principle and application of die penetrate test and magnetic particle inspection. Apply the principle of radiographic techniques for testing of various fields. Apply the principle of Ultrasonic testing and applications in medical and Engineering areas. Understand the working principle of special NDT techniques like eddy current inspection.
22.	Human Values in Buddha & Jain Darshan	KOE-097	Understand the basic concepts of Buddha and Jain Darshan Understand the human being, the needs and activities of human being through Bauddha and Jain Darshan Understand the whole existence Understand the role of human being in the entire existence, thus getting clarity about values at all levels of living and human conduct Understand the foundation of human society and human tradition.

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23.	Entrepreneurship Development	KOE-083	 Students will be able to have understanding of the basic concepts in the area of entrepreneurship and to know the importance of various levels of industries. Developing the personal creativity in the field of entrepreneurship and taking entrepreneurial initiative. Adoption of the key steps in the elaboration of business ideas. Understanding the stages of the entrepreneurial process and the resources needed for the successful development of entrepreneurial ventures. Understanding the importance of various acts and laws of entrepreneurship for economic development.
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MBA

PO1: Cross-Disciplinary Integration and Strategic Perspective: Conceptualize, organize and resolve complex business problems or issues by using the resources available under their discretion.

PO2: Critical Thinking and Problem Solving: Apply the perspective of their chosen specialized area of study to develop fully-reasoned opinions on such contemporary issues as the need for integrity, leading and managing change, globalization and technology management.

PO3: Teamwork: Able to determine the effectiveness with which goals are defined and achieved in team environments to assess the contributions made by themselves as well as by their peers within those environments and to identify and resolve conflicts.

PO4: Leadership Skills: Able to document their participation and contribution to student organizations, business or consulting projects, internship opportunities or other MBA sanctioned initiatives.

PO5: Modern Tool Usage: Create, select, and apply appropriate techniques, resources and modern management and IT tools including prediction and modeling to complex management activities with an understanding of the limitations.

PO6: Environment and Sustainability: Understand the impact of the professional management solutions in societal and environmental contexts and demonstrate the knowledge of and need for sustainable development.

PO7: Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the management practice.

PO8: Entrepreneurial Perspective: Able to identify, assess and shape entrepreneurial opportunities and to evaluate their potential for business success.

PO9: Global Perspective: Able to demonstrate their ability to assess and evaluate the dynamic internal and external elements of the competitive global environment.

	SEMESTER I				
S. N	- Subject Name	Subject Code	Course Outcomes		
1	MANAGEMENT CONCEPTS & ORGANISATIONAL BEHAVIOUR	KMBN101	CO 1: Developing understanding of managerial practices and their perspectives. CO2: Understanding and Applying the concepts of organizational behaviour CO 3: Applying the concepts of management and analyze organizational behaviors in real world situations CO 4: Comprehend and practice contemporary issues in management. CO 5: Applying managerial and leadership skills among students		

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2	MANAGERIAL ECONOMICS	KMBN102	CO1: Students will be able to remember the concepts of micro economics and also able to understand the various micro economic principles to make effective economic decisions under conditions of risk and uncertainty. CO2: The students would be able to understand the law of demand & supply & their elasticities, evaluate & analyse these concepts and apply them in various changing situations in industry. Students would be able to apply various techniques to forecast demand for better utilization of resources. CO3: The students would be able to understand the production concept and how the production output changes with the change in inputs and able to analyse the effect of cost to business and their relation to analyze the volatility in the business world CO4: The students would be able to understand & evaluate the different market structure and their different equilibriums for industry as well as for consumers for the survival in the industry by the application of various pricing strategic CO5: The students would be able to analyse the macroeconomic concepts & their relation to micro economic concept & how they affect the business & economy.
3	FINANCIAL ACCOUNTING & ANALYSIS	KMBN103	CO1.Understand and apply accounting concepts, principles and conventions for their routine monetary transaction. CO2. Understand about IFRS, Ind AS and IAS for preparation and reporting of financial statements. CO3. Create and prepare financial statements and Cash flow in accordance with Generally Accepted Accounting Principles CO4. Analyse, interpret and communicate the information contained in basic financial statements and explain the limitations of such statements. CO5. Recognising various types of accounting and utilize the technology and social responsibility in facilitating and enhancing accounting and financial
4	BUSINESS STATISTICS & ANALYTICS	KMBN104	reporting processe CO1. Gaining Knowledge of basic concept /fundamentals of business statistics. CO2. To compute various measures of central tendency, Measures of Dispersion, Time Series Analysis, Index Number, Correlation and Regression analysis and their implication on Business performance. CO3. Evaluating basic concepts of probability and perform probability theoretical distributions CO4. To apply Hypothesis Testing concepts and able to apply inferential statistics- t, F, Z Test and Chi Square Test CO5. To perform practical application by taking managerial decision and evaluating the Concept of Business Analytics.
5	MARKETING MANAGEMENT	KMBN105	CO1. Remember and Comprehend basic marketing concepts. CO2. Understand marketing Insights on application of basic marketing concepts.

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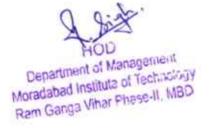
1				CO3. Able to Apply and develop Marketing Strategies and Plans
		KMBN106		CO4. Understand and Analyzing Business/ Consumer Markets and ability Identify & evaluate Market Segments and Targeting
				CO5. Develop skills to understand the current global and digital aspect of marketing.
6	DESIGN THINKING			CO1. Gain in depth knowledge about creative thinking and design thinking in every stage of problem CO2. Applying design thinking to your real life problems / situations in order to evolve an innovative and workable solutions CO3. Understand and implement design thinking to your real life problems / situations in order to evolve an innovative and workable solutions
7	BUSINESS COMMUNICATION	KMBN107		CO1. Apply business communication strategies and principles to prepare effective communication for domestic and international business situations. CO2. Analyse ethical, legal, cultural, and global issues affecting business Communication. CO3. Develop an understanding of appropriate organizational formats and channels used in business communications CO4. Gaining an understanding of emerging electronic modes of communication. CO5. Developing effective verbal and non verbal communication skills.
8	IT SKILLS LAB-1	KMBN151		CO1. Gain in depth knowledge about the functioning of computers and its uses for managers
				CO2. Learn to use Internet and its applications
				CO3. Understand and implement Word processing software CO4. Learn applications on Spread sheet softwares CO5. Analyse and learn Presentation software
9	MINI PROJECT -1 KMBN152		52	CO1. Gain in depth knowledge on innovative idea for product or services in form of a project report. CO2. To apply innovative idea, its feasibilities and detail descriptions.
			SEN	MESTER II
S.	Paper Name	Pap	CC	
N o.		er Cod		
1	BUSINESS ENVIRONMENT & LEGAL ASPECT OF BUSINESS	KMB		. Develop understanding and fundamental knowledge about
		N 201	CO2	ness environment 2. Develop understanding on the concepts of Business ironment and international business environment.
			CO	Develop basic understanding of law of contract
			CO4	 understanding of provisions of Companies Act concerning orporation and regulation of business organizations
				 Able to analyze case laws in arriving at conclusions litating business decisions.

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2	HUMAN RESOURCE MANAGEMENT	KMB N 202	CO1. Synthesize the role of human resources management as it supports the success of the organization including the effective development of human capital as an agent for organizational change.
			CO2. Demonstrate knowledge of laws that impact behaviour in relationships between employers and employees that ultimately impact the goals and strategies of the organization.
			CO3. Understand the role of employee benefits and compensation as a critical component of employee performance productivity and organizational effectiveness.
			CO4.Show evidence of the ability to analyze, manage and problem solve to deal with the challenges and complexities of the practice of collective bargaining.
			CO5. Demonstrate knowledge of practical application of training and employee development as it impacts organizational strategy and competitive advantage.
3	BUSINESS RESEARCH METHODS	KMB N 203	CO1. Knowledge of concept / fundamentals for different types of research.
			CO2. Applying relevant research techniques.
			CO3. Understanding relevant scaling & measurement techniques and should use appropriate sampling techniques
			CO4.Synthesizing different techniques of coding, editing, tabulation and analysis in doing research.
			CO5.Evaluating statistical analysis which includes ANOVA technique and prepare research report.
4	FINANCIAL MANAGEMENT &	KMB N 204	CO1 Understand the different basic concept / Models of Corporate Finance and Governance
	CORPORATE FINANCE		CO2 Understand the practical application of time value of money and evaluating long term investment decisions
			CO3 Develop analytical skills to select the best source of capital, structure and leverage.
			CO4 Understand the use and application of different models for firm's optimum dividend pay-out.
			CO5 Understand the recent trends of mergers and acquisition and its valuation
5	OPERATIONS MANAGEMENT	KMB N 205	CO1.Understand the role of Operations in overall Business Strategy of the firm - the application of OM policies and techniques to the service sector as well as manufacturing firms.
			CO2.Understand and apply the concepts of Material Management, Supply Chain Management and TQM perspectives.
			CO3.Identify and evaluate the key factors and their interdependence of these factors in the design of effective operating systems.
			CO4.Analyze / understand the trends and challenges of Operations Management in the current business environment.





	a a		CO5.Apply techniques for effective utilization of operational resources and managing the processes to produce good quality products and services at competitive prices.
6	QUANTITATIVE TECHNIQUES FOR MANAGERS	KMB N 206	making approaches and tools to be used in each type. CO2.To formulate linear programming problem and to find
			Co3.Be able to build and solve Transportation Models and Assignment Models also to solve game theory problems by understanding pure and mix strategies. Co4.To assign optimal sequence of difference jobs on different machines and develop understanding of queuing theory concepts.
7	DIGITAL MARKETING & E COMMERCE	KMB N 207	Co5.To implement replacement of equipments at right time and able to implement project management concepts like CPM, PERT to reduce cost and time. CO1.Be able to understand the concept of Digital Marketing & E-commerce in today's scenario.
			CO2.To able to create and maintain a good website and blog posts. Co3.Be able to understand and apply SEO and Email Marketing in today's modern world Co4.To apply the Social Media Marketing techniques via various platforms
			Co5.To implement various Analytics tools of online marketing
8	MANAGEMENT INFORMATION SYSTEMS	KMB N 208	CO1.Be able to understand the importance of information management in business and management.
			Co2.To understand and formulate different types of information systems in business
			CO3.Be able to apply the theory and concepts in practical with help of software
			CO4.To apply various security and ethical issues with Information Systems
	Σ		CO5.To synthesize applications on Spread sheet and database software
9	IT SKILLS LAB-2	KMB N 251	CO1. To gain knowledge of pivot table and understand the validating & auditing techniques CO2. Learn to use different charting techniques in MS Excel
			CO3. Learn to use different formatting techniques in MS Excel
0	MINI PROJECT -2	KMB N 252	CO1. To gain knowledge of issues challenge of the industry
			CO2. Learn to prepare report on the application of emerging technologies in the selected industry
			SEMESTER III

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2	STRATEGIC MANAGEMENT INNOVATION AND ENTREPRENEURSHIP	KMB N301 KMB N302	CO 1: Formulate organizational mission, goals, and values vision, CO2. Develop strategies and action plans to achieve an organization's vision, mission, and goals. CO3. Develop powers of managerial judgment, how to assess business risk, and improve ability to make sound decisions and achieve effective outcomes. CO4. Evaluate and revise programs and procedures in order to achieve organizational goals; CO5. Consider the ethical dimensions of the strategic management process; CO 1: Remember and comprehend basic concepts of entrepreneurship CO2: Develop
			knowledge on Entrepreneurial Finance, Assistance and role of Entrepreneurial Development Agencies CO3: Develop understanding of converting an Idea to an opportunity and develop understanding of various funding sources CO4: Gain in depth knowledge of innovation and its various sources CO5: Develop understanding of various dimensions of innovation along with current trends and general awareness of innovation and startup
3	Universal Human Values and Professional Ethics	KVE 301	CO1- Understand the significance of value inputs in a classroom, distinguish between values and skills, understand the need, basic guidelines, content and process of value education, explore the meaning of happiness and prosperity and do a correct appraisal of the current scenario in the society 2. Distinguish between the Self and the Body, understand the meaning of Harmony in the Self the Co-existence of Self and Body. 3. Understand the value of harmonious relationship based on trust, respect and other naturally Acceptable feelings in human-human relationships and explore their role in ensuring a harmonious society 4. Understand the harmony in nature and existence, and work out their mutually fulfilling participation in the nature. 5. Distinguish between ethical and unethical practices, and start working out the strategy to actualize a harmonious environment wherever they work
4	Talent Management	KMB NHR 01	CO 1: Knowledge of Talent Management Processes CO 2: Understanding for analysis of the impacts of Talent management in the organization CO 3: Competency to implement Talent Management practices CO 4: Competency to develop leadership qualities among subordinate CO 5: Knowledge about the reward system to support Talent management
5	Employee Relations & Labour Laws	KMB NHR 02	CO1: Knowledge of Industrial Relation framework CO2: Competency to understand the importance of Employee Relation within the perspective of Industrial Relation CO3: Knowledge about relevant Laws of HR management CO4: Competency to interpreted and implement the Labor Laws within organization CO5: Competency to use Collective Bargaining and Grievance redressal Mechanism

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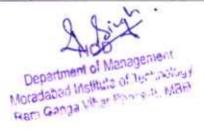
6	CONSUMER BEHAVIOUR AND MARKETING COMMUNICATION	KMB NMK 01	CO1. Understand the three major influences on customer choice: the process of human decision making in a marketing context; the individual customers make up; the environment in which the customer is embedded. CO2. Develop the cognitive skills to enable the application of the above knowledge to marketing decision making and activities CO3. Be able to demonstrate how concepts may be applied to marketing strategy. CO4. Apply an IMC approach in the development of an overall advertising and promotional plan. CO5. Enhance creativity, critical thinking and analytical ability through developing an integrated marketing communication campaign
7	MARKETING ANALYTICS	KMB NMK 02	CO1. Students will develop the skill in marketing analytics CO2. Students will be acquainted with better understanding of real life marketing data and its analysis CO3. Students will develop analytical skill for effective market decision making in real life environment.
8	INVESTMENT ANALYSIS AND PORTFOLIO MANAGEMENT	KMB NFM 01	CO 1: Understand about various investment avenues. CO 2: Understand the value of assets and manage investment portfolio. CO 3: Understand various Models of Investment and its application CO 4: Understand and create various investment strategies on the basis of various market conditions. CO 5: Measure riskiness of a stock or a portfolio position.
9	FINANCIAL PLANNING AND TAX MANAGEMENT	KMB NFM 02	CO1: Understand about various tax provision and planning CO2: Understand the scope tax planning concerning various business and managerial and strategic activities can be explored CO3: Have Know about various Tax Dates Rates and Forms CO4: Have Knowledge of Financial Planning and its Process CO5: Have knowledge about asset allocation and retirement planning process
10	Summer Training Project report & Viva Voce	KMB N308	At the end of the second semester examination, it is mandatory for every student of MBA to undergo on-the-job practical training in any manufacturing, service or financial organization. The training will be of 6 to 8 weeks duration. The college/institute will facilitate this compulsory training for students. During the training, the student is expected to learn about the organization and analyze and suggest solutions to a live problem. The objective is to equip the students with the knowledge of actual functioning of an organization and problems faced by them for exploring feasible solutions.
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,	Empreina Trabantantar in	KMB	CO1: To get an overview of the changing context of
	Emerging Technologies in Global Business Environment	N401	International Business in the wake of Industry 4.0





			CO 2 : Conceptual understanding of the new technologies that
			are driving change in business operations and strategy
			CO 3: Understand shifts in economic thought and its impact on business decisions.
			CO 4: Understand changing geo politics and analyses its impact on international Business
			CO 5: Critically think about issues and challenges in the Global World and find sustainable solutions
2	HR ANALYTICS	KMB NHR 03	CO 1: Apply HR Analytical techniques in the areas of HRP, recruitment and selection, Compensation and Benefits and Training etc.
			CO2: Demonstrate HR function in adding value in business terms.
			CO3: Utilise soft factors in a people management context and convert them into measurable variables
			CO4: Design a Metrics and Analysis index for recruitment, performance and or a training and development context
			CO5: Predict the issues using the available HR data and formulate the best strategies.
3	PERFORMANCE AND REWARD MANAGEMENT	KMB NHR	CO 1: Knowledge of Performance Management and Performance Appraisal
	KEWAKO WATAKIENEN	04	CO 2: Competency to understand the importance of Performance Management
			CO 3: Knowledge about the Compensation and Reward Systems
			CO 4: Competency to implement the effective reward systems in the organization
			CO 5: Ability to explain the relevance of competency mapping and understanding its linkage with career development
4	INTERNATIONAL HUMAN RESOURCE MANAGEMENT	KMB N HR05	CO 1: Understanding the Contexts of International HRM
			CO 2: Knowledge about the HR Processes in International Context
			CO 3: Able to evaluate the impacts of Globalization on HRM
	(S)		CO 4: Desired level of expertise on organizational
			CO 5: Understanding the International culture in SHRM
5	B2B & SERVICE MARKETING	KMB NMK 03	CO1.Understand and nature of B2B marketing
			CO2. Ability to create an integrated marketing communications plan which includes promotional strategies
			CO3.Define and apply knowledge of various aspects of managerial decision making related to pricing strategy and tactics.
			CO4. Be able to identify critical issues related to service design such as identifying and managing customer service experience, expectations, perceptions and outcomes.
			CO5. Use critical analysis to perceive service shortcomings in reference to ingredients to create service excellence.
6	SALES AND RETAIL MANAGEMENT	KMB NMK	CO1: Students will develop knowledge, understanding and skills in Sales force management
	Acceptation and the entire in the	04	CO2: Acquainted with better understanding of implementation of sales management strategies.
	*		CO3:Develop analytical skills for effective decision alternative in sales management problems





			CO4: Develop the knowledge, understanding and skills in retail management.
7	SOCIAL MEDIA AND AND AND AND AND AND AND AND AND AN		CO5: Acquainted with better understanding of implementation of retail management strategies and develop analytical skills for effective decision alternatives in retail operations.
	SOCIAL MEDIA AND WEB ANALYTICS	KMB NMK 05	CO1: Students will develop knowledge, understanding and skills in analysis of Social Media
			CO2: Acquainted with better understanding of implementation Web Analytics tool
			CO3:Develop analytical skills for effective decision alternatives in social media problems
			CO4: Develop the knowledge, understanding and skills in Facebook and google analytics.
0	FINANCIA		CO5: Acquainted with better understanding of implementation of web analytics strategies and develop analytical skills for effective decision alternatives in social media operations.
8	FINANCIAL DERIVATIVES	KMB N	COT: Understand about various derivatives instruments and derivative Market structure
	- 4	FM03	CO2 Understand the forward and future pricing mechanism and strategies for hedging using various futures products
			CO3 Understand the option pricing mechanism and using options strategies for mitigating risk
			CO4 Understand the Commodity derivative market
			CO5 Understand the Swaps derivatives and their mechanism
9	FOREIGN EXCHANGE & FOREX RISK MANAGEMENT	KMB N FM04	CO1 Understand the BOP and evaluation various exchange rate system
			CO2 Understand the theories of exchange rate determination
			CO3 Understand the foreign exchange transactions mechanism CO4 Understand the exchange dealings
			CO5 Understanding the various foreign exchange risk and its management
10	FINANCIAL CREDIT RISK ANALYTICS	KMB N FM 05	CO 1: Understand about various types of financial credit.
			CO 2: Understand the credit risk and its rating
			CO 3: Understanding of credit commitments and its application
			CO 4: Understanding of risk management and corporate governance.
			CO 5: Measure riskiness of a stock or a portfolio position.
11	Research Project Report & Viva Voce	KMB N408	In fourth semester, the candidates will have to submit a Research Project Report on a problem/topic (from the specialization areas) to be assigned by the MBA department under the supervision of a core faculty member of the department. The Research Project Report will carry 150 marks. The evaluation of the project report will be done by two examiners (external & internal). The evaluation will consist of (1) Evaluation of Project Report (2) Presentation and Viva

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