

Meerut Institute of Engineering and Technology, Meerut

List of Subjects and Concerned Course teachers # B Tech - CSE (2023-24)

S. No.	Year (session) of Study	Sem	Subject Code	Subject Name
1	2023-24	I/II	BAS101/201	Engg. Physics
2	2023-24	I/II	BAS102/202	Engg. Chemistry
3	2023-24	I	BAS103	Engg. Mathematics I
4	2023-24	I/II	BEE101/201	Fundamentals of Electrical Engineering
5	2023-24	I/II	BEC101/201	Fundamentals of Electronics Engg.
6	2023-24	I/II	BCS101/201	Programming for Problem Solving
7	2023-24	I/II	BME101/201	Fundamentals of Mechanical Engg.
8	2023-24	I/II	BAS104/204	Environment and Ecology
9	2023-24	I/II	BAS105/205	Soft Skills
10	2023-24	I/II	BAS151/251	Engg. Physics Lab
11	2023-24	I/II	BAS152/252	Engg. Chemistry Lab
12	2023-24	I/II	BEE151/251	Basic Electrical Engineering Lab
13	2023-24	I/II	BEC151/251	Basic Electronics Engg. Lab
14	2023-24	I/II	BCS151/251	Programming for Problem Solving Lab
15	2023-24	I/II	BAS155/255	English Language Lab
16	2023-24	I/II	BCE151/251	Engg. Graphics and Design Lab
17	2023-24	I/II	BWS151/251	Workshop Practice Lab
18	2023-24	II	BAS203	Engg. Mathematics II
19	2023-24	II	BVA251	Sports and Yoga
20	2023-24	III	BAS303	Maths -IV
21	2023-24	III	BVE301	Universal Human Values and Professional Ethics
22	2023-24	III	BCS301	Data Structure
23	2023-24	III	BCS302	Computer Organization & Architecture
24	2023-24	III	BCS 303	Discrete Structures & Theory of Logic
25	2023-24	III	BCS 351	Data Structures Lab
26	2023-24	III	BCS 352	Computer Organization and Architecture Lab
27	2023-24	III	BCS 353	Web Designing Workshop
28	2023-24	III	BCC 301	Cybersecurity
29	2023-24	III	BCC351	Mini Project / Internship Assessment
30	2023-24	IV	BOE 410	Science Based Open Elective(Digital Electronics)
31	2023-24	IV	BAS401	Technical Communication
32	2023-24	IV	BCS 401	Operating System
33	2023-24	IV	BCS 402	Theory of Automata & Formal Languages
34	2023-24	IV	BCS 403	Object Oriented Programming with Java
35	2023-24	IV	BCS 451	Operating System Lab
36	2023-24	IV	BCS 452	Object Oriented Programming with Java Lab
37	2023-24	IV	BCS 453	Cyber Security Workshop
38	2023-24	IV	BCC402	Python Programming
39	2023-24	IV	BVE451	Sports and Yoga - II
40	2023-24	V	KCS 501	Data Base Management Systems
41	2023-24	V	KCS 502	Compiler Design
42	2023-24	V	KCS 503	Design & Analysis of Algorithms
43	2023-24	V	KCS 052	Web Designing
44	2023-24	V	KCS 055	Machine Learning Techniques
45	2023-24	V	KCS551	Data Base Management Systems Lab
46	2023-24	V	KCS 552	Compiler Design Lab
47	2023-24	V	KCS 553	Design & Analysis of Algorithms Lab
48	2023-24	V	KCS554	Mini Project
49	2023-24	V	KNC501	Constitution of India, Law and Engineering
50	2023-24	VI	KCS 601	Software Engineering
51	2023-24	VI	KCS 602	Web Technology
52	2023-24	VI	KCS 603	Computer Networks
53	2023-24	VI	KCS061H	Department Elective - III
54	2023-24	VI	KOE068	Open Elective - I

55	2023-24	VI	KCS 651	Software Engg Lab
56	2023-24	VI	KCS 652	Web Technology Lab
57	2023-24	VI	KCS 653	Computer Networks Lab
58	2023-24	VI	KNC 602	Indian Tradition , Culture & Society
59	2023-24	VII	KHU 702	Project Management & Entrepreneurship
60	2023-24	VII	KCS 071	Artificial Intelligence
61	2023-24	VII	KCS 077	Distributed Systems
62	2023-24	VII	KCS 713	Cloud Computing
63	2023-24	VII	KOE 074	Renewable Energy
64	2023-24	VII	KCS 751A	Artificial Intelligence Lab
65	2023-24	VII	KCS 751A	Distributed Systems Lab
66	2023-24	VII	KCS 752	Mini Project/Internship Assessment
67	2023-24	VII	KCS 753	Project
68	2023-24	VIII	KHU 801	Rural Development: Administration & Planning
69	2023-24	VIII	KOE083	Open Elective - III
70	2023-24	VIII	KOE094	Open Elective - IV
71	2023-24	VIII	KCS 851	Project



Statements of Course Outcomes (COs) and Mapping with Program Outcomes (POs) and Program Specific Outcomes (PSOs) : Dept. of CSE: 2023-24
BKL # K1 – Remember, K2 – Understand, K3 – Apply, K4 – Analyze, K5 – Evaluate, K6 – Create

S. No.	Sub Code	Sem	COx	Statement of Course Outcomes (COs)	Kx	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3	
				Statement of Course Outcomes (COs) Upon completion of topic concerned, students will be able to :	Blooms Knowledge Level	Engineering knowledge	Problem Analysis	Design/development of solutions	Conduct investigations of complex problems	Modern tool usage	The Engineer and Society	Environment & sustainability	Ethics	Individual and team work	Communications	Project management and finance	Life Long Learning				
1	BAS101/ 201	VIII	CO-1	Understand the concepts of quantum mechanics.	K2	3	2										3				
			CO-2	Derive the expression for EM-wave using Maxwells equations.	K3	3	3	2										3			
			CO-3	Describe the different phenomena of light and its applications.	K2	3	3											3			
			CO-4	Understand the concepts and applications of fiber optics and LASER.	K2	3	3	3										3			
			CO-5	Understand the properties and applications of superconducting materials and nano materials.	K2	3	2	3										3			
			BAS101/ 201					3.00	2.60	2.67									3.00		
2	BAS151/ 251	VIII	CO-1	Make use of optical methods to determine the properties of light.	K2	3	2					2	3			2					
			CO-2	Assess the properties of semi conductor using electrical methods.	K3	2		2			2	3			2						
			CO-3	Determine specific resistance of material using Carey Foster's bridge method.	K3	3					2	3			2						
			CO-4	Examine the Stefan's law using electrical method.	K2	2	2				2										
			CO-5	Intrepret variation of magnetic field for a current carrying circular coil and ferro magnetic materials.	K3	3		2			2										
			BAS151/ 251 (Engg. Physics Lab)					2.60	2.00	2.00				2.00	3.00			2.00			
3	BAS102/ 202	VIII	CO-1	Understand atomic and molecular structure, chemistry of advanced Materials and green chemistry.	K2	3										2					
			CO-2	Apply spectroscopic techniques and stereochemistry to identify the compounds, elements etc.	K3	3	2														
			CO-3	Apply concepts of electrochemistry, batteries, corrosion and chemistry of engineering Materials like cement.	K3	3	2										2				
			CO-4	Apply concepts of impurities & hardness of water and boiler troubles used in industry & to analyse coal for its calorific values.	K3	3	2	2			2	2				2					
			CO-5	Understand polymers, polymerization, polymer blends, polymer composites and organometallic compounds.	K2	3					2	2				2					
			BAS102/ 202					3.00	2.00	2.00		2.00	2.00					2.00			
4	BAS152/ 252	VIII	CO-1	Perform experiments with different analytical instruments for chemical properties.	K3	2				2	2		2			2					
			CO-2	Compare molecular / system properties such as surface tension, viscosity with water.	K3	2															
			CO-3	Measure alkalinity, hardness and chloride content of water.	K2	3	2	2			2	2		2			2				
			CO-4	Determine the iron content and available chlorine in given sample.	K3	2						2									
			CO-5	Know the fundamental concepts of the preparation of phenol formaldehyde & urea formaldehyde resin	K2	2	2				2	2				2					
			BAS152/ 252 (Engg. Chemistry Lab)					2.20	2.00	2.00		2.00	2.00		2.00			2.00			
5	BAS103	I	CO-1	Apply the concept of matrices for solving linear simultaneous equations	K3	3	3	3								3					
			CO-2	derivative.	K3	3	3	3									3				
			CO-3	Apply partial differentiation for evaluating extreme values, expansion of function and Jacobian, approximation of errors.	K3	3	3	3									3				
			CO-4	Apply the methods of multiple integral and concept of beta and gamma functions for finding area, volume and mass	K3	3	3	3									3				
			CO-5	Apply the concept of vector for evaluating directional derivatives, line, surface and volume integrals	K3	3	3	3									3				
			BAS103					3.00	3.00	3.00								3.00			
6	BCS101/ 201	VIII	CO-1	Translate the algorithms to programs & perform its execution in C language.	K3	3										3					
			CO-2	Implement conditional branching, instructions along with operators.	K3	3	3	3									3				
			CO-3	Use looping control instructions, arrays and structures to develop programs.	K3	3	3	3									3				
			CO-4	Decompose a problem into functions and synthesize a complete program.	K3	3	3	3									3				
			CO-5	Utilize pointer, file handling, dynamic memory allocation to solve problems.	K3	3	3	3									3				
			BCS101/ 201					3.00	3.00	3.00								3.00			
			CO-1	Solve simple problems based on arithmetic expressions using operators.	K3	2	2	2													

7	BCS151/ 251	VIII	CO-2	Implement conditional branching instructions to develop programs.	K3	3	3	3																								
			CO-3	Use looping control instructions and functions to solve complex problems.	K3	3	3	3																	3							
			CO-4	Design solutions by using arrays and structures to develop programs.	K3	3	3	3																		3						
			CO-5	Utilize pointer, file handling, dynamic memory allocation to solve problems.	K3	3	3	3																			3					
			BCS151/ 251						2.80	2.80	2.80																3.00					
8	BEE101/ 201	VII	CO-1	Apply Kirchhoff's laws in solving DC Circuits.	K3	3	3	3																		2						
			CO-2	Understand the steady state behaviour of single phase and three phase AC circuits.	K2	3	3	3																			2					
			CO-3	efficiency.	K2	3	2	3																				2				
			CO-4	Elaborate the working principle of AC and DC machines with their applications.	K2	3	2																					2				
			CO-5	Explain the working of low voltage electrical installation equipment.	K2	3	2																						3			
BEE101/ 201						3.00	2.40	3.00																		2.20						
9	BEE151/ 251	VIII	CO-1	PERFORM EXPERIMENT ILLUSTRATING B-H CURVE OF MAGNETIC MATERIALS.	K2	2	2	2	2	2																						
			CO-2	APPLY KVL/KCL AND NETWORK THEOREMS IN DC CIRCUITS.	K3	2	2	2	2	2			2															2				
			CO-3	DEMONSTRATE THE BEHAVIOUR OF SINGLE PHASE AND THREE PHASE AC CIRCUITS.	K3	3	2	2	2	2			2																2			
			CO-4	CALCULATE EFFICIENCY OF TRANSFORMER AND ELECTRICAL MACHINES.	K3	3	2	2	2	2			2																	2		
			CO-5	DETERMINE ENERGY CONSUMPTION (KWH) USING SINGLE PHASE INDUCTION TYPE ENERGY METER.	K3	3	2	2	2	2			2																		2	
BEE151/ 251 (Basic Electrical Engg. Lab)						2.60	2.00	2.00	2.00		2.00																2.00					
10	BEC101/ 201	VII	CO-1	Apply the concept of P-N junction and devices in Electronic circuits.	K3	3		2											2							2						
			CO-2	Explain the concept of BJT, FET and MOFET.	K2	2																						2				
			CO-3	Apply the concept of Operational amplifier to design linear and non-linear applications.	K3	3		2																					2			
			CO-4	Perform number systems conversions, binary arithmetic and minimize logic functions.	K3	3																							2			
			CO-5	Describe the fundamentals of communication technologies.	K2	2																2										
BEC101/ 201						2.60		2.00											2.00							2.00						
11	BEC151/ 251	VIII	CO-1	Demonstrate the active & Passive components, PCBs & lab instruments.	K2	3												2		2						2						
			CO-2	Test the conditions of truth tables for logic gates.	K2	3	3													2		2					2					
			CO-3	Examine the functioning of diode application circuits.	K2	3	3	3												2		2					2					
			CO-4	Demonstrate the functioning of OP-AMP based circuits.	K2	3	3	3												2		2					2					
			CO-5	Conclude the characteristics of different semiconductor devices with their applications.	K2	3	3	3												2		2					2					
BEC151/ 251 (Basic Electronics Engg. Lab)						3.00	3.00	3.00										2.00		2.00					2.00							
12	BME101/ 201	VIII	CO-1	Apply the concept of force resolution and stress and strain to solve basic problems.	K3	3	2				2															2						
			CO-2	Understand the construction and working of internal combustion engines, electric vehicle and hybrid vehicles.	K2	3	2						2															2				
			CO-3	Explain the construction and working of refrigerator, heat pump and air conditioner.	K2	3	2						2																2			
			CO-4	Understand fluid properties, conservation laws and hydraulic machinery used in real life.	K2	3	2						2																2			
			CO-5	Understand the working principle of different measuring instrument and mechatronics with their advantages, scope and Industrial application.	K2	3	2					2	2																2			
BME101/ 201						3.00	2.00			2.00	2.00																2.00					
13	BWS151/ 251	VIII	CO-1	Use various engineering materials, tools, machines and measuring equipments.	K3	2					2			2	2													2				
			CO-2	Perform machine operations in lathe and CNC machine.	K3	3					2	2		2	3														2			
			CO-3	Perform manufacturing operations on components in fitting and carpentry shop.	K3	2						2			2	2														2		
			CO-4	Perform operations in welding, moulding and casting	K3	3						2	2	2	2	2														2		
			CO-5	Fabricate a job by 3D printing manufacturing technique.	K3	2						2	2		2	3															2	
BWS151/ 251						2.40				2.00	2.00	2.00	2.00	2.40														2.00				
14	BCE151/ 251	VIII	CO-1	Use scales and draw projections of objects.	K2	3																					2					
			CO-2	Explain views of solids and their sectional surfaces.	K2	3	2																					2				
			CO-3	Analyze and draw isometric projections of objects.	K3	3																							2			
			CO-4	Demonstrate orthographic representation of perspective views using modern tools.	K2	3		2			3											2		2								
			CO-5	Apply AutoCAD software for creation of engineering drawing and models.	K3	3		2			3											2		2					2			
BCE151/ 251						3.00	2.00	2.00		3.00									2.00		2.00					2.00						
15	BAS203	II	CO-1	Apply the mathematical concepts for solving differential equations.	K3	3	3	3																				3				
			CO-2	Apply the concept of Laplace Transform to solve differential equations.	K3	3	3	3																					3			
			CO-3	Apply the concept of convergence in sequence, series and expansion of the function by Fourier series.	K3	3	3	3																						3		
			CO-4	Apply the working methods of complex functions to find analytic functions.	K3	3	3	3																						3		
			CO-5	Apply the concept of Taylor's series and Laurent's series for complex function and evaluation of integrals.	K3	3	3	3																							3	

			BAS203			3.00	3.00	3.00								3.00							
16	BVA251	II	CO-1	To maintain mental and physical wellness upright.	K3						1.00		2.00										
			CO-2	To develop ability to cope with the stress arising in life.	K3						2.00		1.00										
			CO-3	To create space in the curriculum to nurture the potential of the students in sports, games, yoga, etc.	K3						2.00												
			CO-4	To take forward the previous course on the topic to the next advance level in terms of practice.	K3													2.00					
			CO-5	To enhance specialization in the subject matter.	K3					1.00													
			BVA251: Sports and Yoga									1.00	2.50		1.50				2.00				
17	BAS105/205	VIII	CO-1	Understand the concept of sentence formation and usefulness of enriched vocabulary.	K2				2		2				3		3						
			CO-2	Apply the skills of active listening and speaking on professional grounds.	K3					2		2		3		3							
			CO-3	Read as well as write clear and well structured official and business documents.	K3			2			2			2		3		3					
			CO-4	Acquire the skills necessary to deliver impactful presentations.	K3												2		3				
			CO-5	Equip themselves with work-place skills necessary to be a successful professional.	K3									2		3		3					
			BAS105/205 (Soft skills)							2.00	2.00		2.00		2.00	2.00	3.00	2.50	3.00				
18	BAS155/255	VIII	CO-1	Make use of conversational skills for effective group talks and interviews.	K3									2		2		2					
			CO-2	Develop communication and presentation skills for technical papers/project reports/proposals in seminars/conferences/workshops/theme presentations.	K2											2		2					
			CO-3	Build conversational skills for public/individual speaking /conferencing/role play/JAM /argumentation.	K2												2		2				
			CO-4	Make use of comprehension skills based on reading and listening practicals on model audio.	K3												2		2				
			CO-5	Execution social skills for a given work station.	K3												2		2				
			BAS155/ 255												2.00	2.00		2.00					
19	BAS104/204	VIII	CO-1	Understand basic concepts related to ecosystem, EIA and the need of sustainable development.	K2						2	3	3										
			CO-2	Understand about natural resources and impacts of human actions on natural resources.	K2						2	3	2										
			CO-3	Develop critical thinking for environmental pollution and environmental protection.	K4						2	3	2										
			CO-4	Understand various current environmental issues and concerns of National and global importance.	K2						2	3	2	2									
			CO-5	Develop sensitive attitude to adopt sustainability as a practice in life, society and industry.	K3						2	3	3	2				2					
			BAS104/ 204										2.00	3.00	2.40	2.00				2.00			
20	BAS 303	III	CO-1	Describe basic concepts related to partial differential equation, and solve certain simple linear and nonlinear equations.	K2	2	2										2						
			CO-2	Apply separation of variable and Fourier transforms to solve wave, heat, and Laplace equations.	K3	3	2												1				
			CO-3	Compute moments, skewness, and kurtosis of a univariate data, and apply correlation and regression in problems related to curve fitting.	K2	3		3	3	2										1			
			CO-4	Identify use of a discrete or continuous distribution to manipulate probabilities of random variables.	K1		3	2	3											3			
			CO-5	Apply hypothesis testing to draw statistical inferences, describe use of control charts in statistical quality control.	K2	3	2	2	3	2										3			
			BAS 303 - MATHS IV					2.75	2.25	2.33	3.00	2.00									2.00		
21	BVE 301	III	CO-1	Basic human aspirations and the program of its fulfillment and do a critical appraisal of current scenario in society regarding happiness and prosperity.	K2						3	3	3	2	2		3						
			CO-2	Apply the clarity of the content of value education to initiate a process of dialog within themselves so as to know what they really want to be in their life and profession, and also to ensure humanity at all the four levels of living and lead an ethical life.	K3						3	3	3						3				
			CO-3	To analyze about feelings in relationship in family, society and relevance of nature.	K4						3	3	3							3			
			CO-4	On completion of this course, the student will be able to get clarity of provision of harmony in nature and existence; workout and evaluate their mutual fulfilling participation at all the four levels of living.	K5						3	3	3	2	2					3			
			CO-5	On completion of this course, the student will be able to get clarity of ethical and unethical practices in profession; develop their emotional, social and professional competence and start working out the strategy to actualize a harmonious environment wherever they work.	K3						3	3	3							3			
			BVE 301 - UNIVERSAL HUMAN VALUES										3.00	3.00	3.00	2.00	2.00		3.00				
21	BCS 301	III	CO-1	To understand algorithm, complexity of algorithm and linear and nonlinear data structure and implementation of array.	K2	3	2	2															
			CO-2	To understand and apply linked list and its applications.	K3	3	3	2	1											1			
			CO-3	To implement the concept of stack and queues using array and linked list and use of stacks to solve various problems	K3	3	3	2													1		
			CO-4	To apply the concepts of searching, sorting and hashing.	K3	3	3	2													1	2.00	
			CO-5	To demonstrate the concepts of graphs and trees.	K3	3	3	2	1													1	2.00

			BCC 351 - MINI PROJECT/INTERNSHIP ASSESSMENT																3.00	2.20	2.60	1.80	1.00					2.00	1.80					2.50	2.00
29	BOE 410	IV	CO-1	Apply concepts of Digital Binary System and implementation of Gates.	K3	2	1	1	1																										
			CO-2	Analyze and design of Combinational logic circuits.	k4	3	2	1	2																										
			CO-3	Analyze and design of Sequential logic circuits with their applications.	k4	2	3	2	2																										
			CO-4	Implement the Design procedure of Synchronous & Asynchronous Sequential Circuits.	k3	2	2	1	1																										
			CO-5	Apply the concept of Digital Logic Families with circuit implementation.	k3	3	2	2	2	1																				2					
BOE 410 - Digital Electronics						2.40	2.00	1.40	1.60	1.00																2.00									
30	BAS 401	IV	CO-1	Students will be able to understand the nature and objective of Technical Communication relevant for the workplace as engineers.	K2	3	3												2	3	3														
			CO-2	Students will be able to develop an understanding of key concepts of writing, designing and speaking.	K3	3	3					3									3	2	3												
			CO-3	Students will be able to utilize the technical writing skills for the purposes of Technical Communication and its exposure in various dimensions.	K2	3	3															3		3											
			CO-4	Students will be able to build up interpersonal communication traits that will make the transition from institute to workplace smoother and help them excel in their jobs.	K2	3									3	3	3	3	3					3											
			CO-5	Students will be able to apply technical communication to build their personal brand and handle crisis communication.	K3	3																3		3											
BAS 401 - TECHNICAL COMMUNICATION						3.00	3.00										3.00	2.50	3.00	2.00	3.00														
31	BCS 401	IV	CO-1	To understand the operating system concepts and its layered architecture.	K3	2			2																					2					
			CO-2	To understand the structure and organization of the file system and device management policies.	K2	3	2	1																					2						
			CO-3	To apply various algorithms required for CPU and disk scheduling.	K2	3	2	2																							2	3			
			CO-4	To apply process synchronization, concurrency control and deadlock in real life scenarios.	K3	3	2	1																						2					
			CO-5	To apply the memory management and page replacement strategies.	K1	3	2	1																					2		2	2			
BCS 401 - OPERATING SYSTEMS						2.80	2.00	1.40																		2.00	2.00	2.00	2.50						
32	BCS 402	IV	CO-1	Understand formal language, translation logic, essentials of translation, alphabets, language representation and apply it to design Finite Automata and its variants.	K3	3	3	2	2	1	-	-	-	-	-	-	-	-	2																
			CO-2	Construct regular expression to present regular language and understand pumping lemma for RE.	K3	3	3	2	2	1	-	-	-	-	-	-	-	-	-	1															
			CO-3	Design Context Free Grammars and learn to simplify the grammar.	K3	3	3	2	2	1	-	-	-	-	-	-	-	-	-	1															
			CO-4	Construct Pushdown Automaton model for the Context Free Language	K4	3	3	3	2	1	-	-	-	-	-	-	-	-	-	1															
			CO-5	Design Turing Machine for the different requirements outlined by theoretical computer science and Understand different classes of problems, classify and analyze them.	k5	3	3	3	3	1	-	-	-	-	-	-	-	-	-	2															
BCS 402 - THEORY OF AUTOMATA & FORMAL LANGUAGES						3.00	3.00	2.40	2.20																	1.40									
33	BCS 403	IV	CO1	learn about essential programming structures in Java, including data types, variables, operators, control flow, arrays, and strings.	k2	3	2	2	1																			2	2	2	2				
			CO2	apply concepts of object-oriented programming, such as classes, objects, inheritance, polymorphism, encapsulation, and abstraction and develop Java programs efficiently.	k3	3	3	3	2	2																			3	1	1	2			
			CO3	learn to handle exceptions effectively, understanding various types of exceptions and will gain proficiency in input/output operations.	k3	2	2	1		3																			2	2	1	2			
			CO4	apply multithreading concepts and Java's latest features such as functional interfaces, lambda expressions, stream API etc.	k3	2	3	2	2	2																				3	1	1	1		
			CO5	apply Java Collections Framework, Spring Framework and Spring Boot for building RESTful web services and web applications	k3	2	2	3		2																				3	2	1	2		
BCS 403 - Objected Oriented Programming with JAVA						2.40	2.40	2.20	1.67	2.25																2.60	1.60	1.20	1.80						
34	BCS 451	IV	CO-1	To Execute the basic commands in different Operating Systems and Unix system calls.	K3	3	3	3	2																										
			CO-2	To implement various CPU scheduling algorithms.	K3	3	3	3	3	1																									
			CO-3	To implement File and Contiguous Allocation techniques , Fragmentations and Resource Allocation Graph	K3	3	3	3	3																										
			CO-4	To implement solutions to Dead Lock, Producer -Consumer and Readers_ Writers using inter process communication Techniques and Semaphore.	K3	3	3	3	3	1																									
			BCS 451 - OPERATING SYSTEM LAB						3.00	3.00	3.00	2.75	1.00																						
35	CS 452	IV	CO-1	Write and execute Java Program using OOPS concepts on Different Platforms	K2	3	3	3	1																				2		1				
			CO-2	Implement error handling techniques using exceptions and multithreading.	K2	3	3	3																							2				
			CO-3	Create and Construct Java Programs using Packages and Industry Orientd Application using Spring Boot.	K2	3	3	3	1																					3			2		

			CO-5	Use modern engineering tools for specification, design, implementation and testing of software.	K1	3	3	3	2	2							2				
				KCS 651 - SOFTWARE ENGG LAB		3.00	3.00	2.80	1.60	1.33							2.00	1.00	1.00		
55	KCS 652	VI	CO-1	Able to design static/dynamic web pages using HTML/DHTML/Jscript.	K3	3	3	2	1	1							1		1		
			CO-2	Able to implement programs to illustrate XML schemas and DTD.	K2	3	3	3	1									1			
			CO-3	To describe various phases of SRS documents.	K2	3	3	3	1							1	2				
			CO-4	Able to implement database applications using JDBC and ODBC.	K3	3	3	3	1	1							1			1	
			CO-5	Able to implement server site web application.	K1	3	3	2	1	1								2		2	
				KCS 652 - WEB TECHNOLOGY LAB		3.00	3.00	2.60	1.00	1.00									1.00	1.67	1.00
56	KCS 653	VI	CO-1	To understand the basic concepts of network devices and connectivity.	K2	3	3	3	1	1									1		
			CO-2	Implement some important concepts of computer networks using C programming.	K3	3	3	3	1	1				2	1			2			
			CO-3	Implement in C: IPv4 addresses into binary and vice versa.	K2	3	3	3	1					2	1				2		
			CO-4	Implement a client/server chatting program using socket programming.	K1	3	3	3						2	1					1	
			CO-5	Design and configure a network using CISCO Packet Tracer and analyze network traffic using Wireshark Tool.	K2	3	3	3	2								1	2		2	
				KCS 653 - COMPUTER NETWORKS LAB		3.00	3.00	3.00	1.25	1.00					2.00	1.00		1.00	2.00	2.00	1.33
57	KNC 602	VI	CO-1	Identify and Explore Society state and Polity in India	K2	3					1		1	1	1	1					
			CO-2	To Understand Indian Literature, Culture and Tradition	K3	3					1		1	1		2	1				
			CO-3	To Understand the basis of Indian religion and Philisopy	K2	3	1				1	3	1			2		1			
			CO-4	To Understand the basis of Science, Management and Indian Knowledge System	K2	3	1				3	2	1	3	2	1	3				
			CO-5	Perspective of Cultural heritage and Performing Arts	K3		3	2	2	1	3	2	3	2			1	3			
				KNC 602 - INDIAN TRADITION CULTURE & SOCIETY		3.00	1.67	2.00	2.00	1.00	1.80	2.33	1.40	1.75	1.67	1.33	1.80				
58	KHU 702	VII	CO-1	Describe the key concepts and attributes that make a successful Entrepreneur	K2	1	2											2			
			CO-2	Illustrate the function of an entrepreneur in a successful, commercial application of innovation	K2	3	1												1	1	
			CO-3	Integrating the learning techniques for project planning and execution control.	K3	3	1												1		
			CO-4	Identify the financing process of the entrepreneurial business.	K3	3	1												2		
			CO-5	Identify areas of our economy /society where social entrepreneurs work.	K2	3	1													1	1
				KHU 702 - PROJECT MANAGEMENT & ENTREPRENEURSHIP		2.60	1.20													1.50	1.33
59	KCS 071	VII	CO-1	Understand the basics of the theory and practice of Artificial Intelligence as a discipline and about intelli	K3	2	2											2	1		
			CO-2	Understand search techniques and gaming theory.	K2	3	2	2											2	1	
			CO-3	The student will learn to apply knowledge representation techniques and problem solving strategies to																1	1
			CO-4	Student should be aware of techniques used for classification and clustering.	K2	3	2	2		1										2	1
			CO-5	Student should aware of basics of pattern recognition and steps required for it.	K3	3	1													2	1
				K1	2															1	
			KCS 071 - ARTIFICIAL INTELLIGENCE		2.60	1.75	2.00		1.00									1.60	1.00	1.00	
60	KCS 077	VII	CO-1	To provide hardware and software issues in modern distributed systems.	K3	3	2	2										1	1	1	
			CO-2	To get knowledge in distributed architecture, naming, synchronization, consistency and replication, fault tolerance, security, and distributed file systems.	K2	3	3	1											1	1	1
			CO-3	To analyze the current popular distributed systems such as peer-to-peer (P2P) systems will also be analy	K2	3	3	2											1	1	1
			CO-4	To know about Shared Memory Techniques and have Sufficient knowledge about file access	K3	3	3	1											1	1	1
			CO-5	Have knowledge of Synchronization and Deadlock.	K1	3	3	1											1	1	1
				KCS 077 - DISTRIBUTED SYSTEMS		3.00	2.80	1.40												1.00	1.00
63			CO-1	Describe architecture and underlying principles of cloud computing.	K2	1	2										1				
			CO-2	Explain need, types and tools of Virtualization for cloud.	K3	3	3													1	
			CO-3	Describe Services Oriented Architecture and various types of cloud services	K2	3	3														1

68	KHU 801	VIII	CO-3	There are ample of opportunities to the Master degree holder to get employment in the Dept. of rural development and panchyatraj of both State and central	K2	3	3	2	3	3	2								1	
			CO-4	The Students will understand the nature of Indian Rural Economy	K1	3	3	2	3	3	3								2	
			CO-5	The rural development programme makes students to understand the socio economic conditions of rural folk	K2	3	3	2	3	3	3							2		
			KHU 801 - Rural Development: Administration & Planning					3.00	2.80	2.00	3.00	3.00	2.60						1.50	2.00
69	KOE 083	VIII	CO-1	Students will be able to describe the concept and role of Entrepreneurship and role of Small-Scale Industries in industrial development and government policies to support SSI	K3					2		2			3		3			
			CO-2	Students will be able to assess the project on various viability/feasibility aspects.	K2						2		2		3	3		3		
			CO-3	The students will be able to prepare the financial statement and project report for economic viability and decision-making to check project output and entrepreneurial project proposal	K2						2		2		3	3		3		
			CO-4	Students will be able to carry out the project planning, monitoring and control	K3						2		2		3	3		3		
			CO-5	The students will have a clarity of laws concerning entrepreneurship in different forms of ownership and laws concerning employees in such organizations	K1						2		2		3			3		
			KOE 083 - Entrepreneurship Development									2.00							3.00	
70	KOE 094	VIII	CO-1	Explain the Evolution and Landscape of Digital Marketing.	K3	1	2	1									1			
			CO-2	Analyze the Social Media Marketing Strategy for Consumer Engagement	K2	3	3	1										2		
			CO-3	Interpret the concepts of various Digital Promotion Strategies	K2	3	3	1											2	
			CO-4	Evaluate the CRM and web analytics techniques	K3	3	3	3												
			CO-5	Use social media analytics and integrative media strategie	K1	3	3										2		1	
			KOE 094 - Digital & Social Media Marketing					2.60	2.80	1.00								2.00	1.50	1.50
71	KCS 851	VIII	CO-1	Suggest a product, research or application based project. It should be presented in clear and concise way.	K2	3				2	3		3	2	2	2	2	2		
			CO-2	Identify and summarize the related work done earlier, analyse previous researchers' work and relate them to current project.	K3	3	3						2	2			1	2		
			CO-3	Design and implement a project on through analysis and interpretation of data using various modern tools and techniques.	K2	3	3	2		3		3	2	2		2	3	3		
			CO-4	Present the project outlining, approach and expected results using good oral and written presentation skills.	K1	3	3	2	2	3			2			1	3	2		
			CO-5	Manage record and compile work done throughout the project.	K2	3	2	2		1		1	2				3	2		
			KCS 851 - PROJECT					3.00	2.75	2.00	2.00	2.25	3.00		2.33	2.00	2.00	2.00	1.67	2.40

Meerut Institute of Engineering and Technology, Meerut

Compiled Record of Mapping of Course Outcomes (COs) with Program Outcomes (POs) and Program Specific Outcomes (PSOs)

Dept of CSE : 2023-24

[illegible]

34	2023-24	IV	BCS 451	Operating System Lab														
35	2023-24	IV	BCS 452	Object Oriented Programming with Java Lab														
36	2023-24	IV	BCC 402	Python Programming														
37	2023-24	IV	BOE 410	Digital Electronics (Science based open elect)														
38	2023-24	IV	BCS 453	Cybersecurity Workshop														
39	2023-24	IV	BVE451	Sports and Yoga														
40	2023-24	V	KCS551	Data Base Management Systems Lab														
41	2023-24	V	KCS 552	Compiler Design Lab														
42	2023-24	V	KCS 553	Design & Analysis of Algorithms Lab														
43	2023-24	V	KCS 052	Web Designing														
44	2023-24	V	KCS 055	Machine Learning Techniques														
45	2023-24	V	KCS 554	Mini Project														
46	2023-24	V	KCS 501	Data Base Management Systems														
47	2023-24	V	KCS 502	Compiler Design														
48	2023-24	V	KCS 503	Design & Analysis of Algorithms														
49	2023-24	V	KNC 501	Constitution of India, Law and Engg														
50	2023-24	VI	KCS 601	Software Engineering														
51	2023-24	VI	KCS 602	Web Technology														
52	2023-24	VI	KCS 603	Computer Networks														
53	2023-24	VI	KCS 061 H	Big Data														
54	2023-24	VI	KOE 068	Software Project Management														
55	2023-24	VI	KCS 651	Software Engg Lab														
56	2023-24	VI	KCS 652	Web Technology Lab														
57	2023-24	VI	KCS 653	Computer Networks Lab														
58	2023-24	VI	KNC 602	Indian Tradition , Culture & Science														
59	2023-24	VII	KHU 702	Project Management & Entrepreneurship														
60	2023-24	VII	KCS 071	Artificial Intelligence														
61	2023-24	VII	KCS 077	Distributed Systems														
62	2023-24	VII	KCS 713	Cloud Computing														
63	2023-24	VII	KOE 074	Renewable Energy														
64	2023-24	VII	KCS 751A	Artificial Intelligence Lab														
65	2023-24	VII	KCS 751A	Distributed Systems Lab														
66	2023-24	VII	KCS 752	Mini Project/Internship Assessment														
67	2023-24	VII	KCS 753	Project														
68	2023-24	VIII	KHU 801	Rural Development: Administration & Planning														
69	2023-24	VIII	KOE 083	Entrepreneurship Development (Open elect-III)														
70	2023-24	VIII	KOE 094	Digital & Social Media Marketing (Open elect-IV)														
71	2023-24	VIII	KCS 851	Project														
Overall			PO - TARGET		####	####	####	####	####	####	####	#DIV/0!	####	####	#DIV/0!	####	####	####