

**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







			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	VII	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	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										
			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		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		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		





	B		CO-4	Implement Test RESTful web services and Test Frontend web application with Spring Boot	K2	3	3	3											3	1	
			BCS 452 - OBJECT ORIENTED PROGRAMMING WITH JAVA				3.00	3.00	3.00	1.00									2.50	2.50	1.33
36	BCS 453	IV	CO-1	Analysis of Packet using Wire Shark	K3	3	3	2	1										3		
			CO-2	Analyse network traffic and detect suspicious activity.	K3	3	3	3	2											2	
			CO-3	Analyse captured traffic to do malware traffic analysis.	K3	3	3	3	1											2	1
			CO-4	Capture and Analyse the packets for password sniffing.	K3	3	2	2												1	
			CO-5	Analyse the captured packets for ARP Poisoning Attack.	K3	3	2	2													
			BCS 453 - CYBER SECURITY WORKSHOP				3.00	2.60	2.40	1.33									3.00	1.67	1.00
			CO-1	apply fundamental Python programming concepts, including variables, basic operators, and Python block structures.	K2	2	1												1	2	
			CO-2	demonstrate proficiency in using conditional blocks, such as if-else statements, and implementing loop constructs like for and while loops for efficient program flow control.	K3	2	2	1											1	2	
			CO-3	manipulate complex data types in Python, including strings, lists, tuples, and dictionaries, utilizing built-in methods and operations.	K3	2	2	1	1										1	2	
			CO-4	implement file input/output operations in Python, including reading and writing files, understanding file functions, and manipulating file pointers.	K3	2	2	1	1										1	2	
			CO-5	utilize Python packages such as matplotlib, numpy, and pandas to perform data visualization and analysis, and develop graphical user interface (GUI) applications using Tkinter.	K3	2	2	1	1										1	2	
			BCC 402 - PYTHON PROGRAMMING				2.00	1.80	1.00										1.00	2.00	
			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												
			BVE 451 - SPORTS & YOGA - II							1.00	1.60	1.50							2.00		
			CO-1	Understand the different issues involved in the design and implementation of database system.	K3	3	1												1		
			CO-2	Apply database queries in SQL, Relational algebra, tuple and domain calculus.	K2	3	1	2	1											2	
			CO-3	Apply normalization techniques.	K2	3	3	2												2	
			CO-4	Examine the concepts of transaction processing and distributed database.	K3	3	3	3												2.00	
			CO-5	Compare the concurrency control protocols.	K1	3	3	2													
			KCS 501 - DATA BASE MANAGEMENT SYSTEMS				3.00	2.20	2.25	1.00									1.00	2.00	2.00
			CO-1	Acquire knowledge of different phases and passes.	K2	2	1		1										1	1	1
			CO-2	Understand the parsers and its type.	K2	2	1	1	1										1	1	1
			CO-3	Implement the compiler using syntax directed tree.	K3	2	1	1											1	1	1
			CO-4	Acquire the knowledge about run time data structure.	K2	2	1												1	1	1
			CO-5	Understand the target machines run time environment.	K2	2	1		1										1	1	1
			KCS 502 - COMPILER DESIGN				2.00	1.00	1.00	#DIV/0!									1.00	1.00	1.00
			CO-1	Design algorithms, prove them correct, and analyze their asymptotic and absolute runtime and memory demands.	K2	3	3	2											1		1
			CO-2	To analyze the performance of algorithms, find an algorithm to solve the problem	K2	3	3	2	1										1		
			CO-3	Able to understand and apply Divide and Conquer and Greedy methods.	K3	3	3	2	1											1	
			CO-4	Apply primitive sorting, searching and optimization problems	K3	3	2	2													2
			CO-5	Understand basic techniques for designing algorithms, including the techniques of recursion, divide and conquer, and greedy.	K2	3	2	1											1		



			<b>KCS 503 - DESIGN &amp; ANALYSIS OF ALGORITHMS</b>														1.00	1.00	1.50								
42	KCS 052	V	CO-1	Understand the principle of Web page design and about types of websites.	K2	3	2												1								
			CO-2	Visualize and Recognize the basic concept of HTML and application in web designing.	K3	3	2	1																			
			CO-3	Recognize and apply the elements of Creating Style Sheet (CSS).	K2	3	1	1													1						
			CO-4	Understand the basic concept of Java Script and its application.	K1	3	2															1					
			CO-5	Introduce the basics concept of Web Hosting and apply the concept of SEO	K2	3	2														1	1					
			<b>KCS 052 - WEB DESIGNING</b>								3.00	1.80	1.00									1.00	1.00	1.00			
43	KCS 055	V	CO-1	To understand the need for machine learning for various problem solving.	K2	3	2													1							
			CO-2	To understand a wide variety of algorithms and how to evaluate models generated from data.	K2	3	2														1						
			CO-3	To understand the latest trends in machine learning.	K3	3	2	2	1													1					
			CO-4	To design appropriate machine learning algorithms and apply the algorithms to a real-world problems.	K3	3	2																1	1			
			CO-5	To optimize the models learned and report on the expected accuracy that can be achieved by applying the models.	K2	3	2															1					
			<b>KCS 055 - MACHINE LEARNING TECHNIQUES</b>								3.00	2.00	2.00	1.00									1.00	1.00	1.00		
44	KCS551	V	CO-1	To apply database language commands to create & implement the database.	K3	3	3												3	3	2	2					
			CO-2	To apply aggregate operators and SQL queries to retrieve records from the database.	K2	3	3	3	3											3	3	2	2				
			CO-3	To apply the concepts of relational algebra, join and change it into SQL queries.	K2	3	3	3	2														2				
			CO-4	To apply PL/SQL for processing a database.	K3	3	3	3	2	2													2	0			
			CO-5	To develop software based sql.	K1	3	3	3	2	2														2	0		
			<b>KCS551 - DATA BASE MANAGEMENT SYSTEMS LAB</b>								3.00	3.00	3.00	2.25	2.00									3.00	2.50	1.20	2.00
45	KCS 552	V	CO-1	To understand Lexical analyzer for if statement and Arithmetic expressions	K3	3	3													3	3	1	2				
			CO-2	To implement DFA and NFA	K2	3	3	3	2				2								2	2	2	3			
			CO-3	To implement Shift Reduce Parser, Operator Precedence Parser and Recursive Decent Parser	K2	3	3	2	2													2	1	3	3		
			CO-4	To implement Code Generator and Code Optimization Techniques	K3	3	3	2	2	2													2	1	2	2	
			CO-5	To develop an application based DFA	K1	3	3	2	2	2													2	1	2	2	
			<b>KCS 552 - COMPILER DESIGN LAB</b>								3.00	3.00	2.25	2.00	2.00										2.00	2.20	1.60
46	KCS 553	V	CO-1	Analyze various sorting techniques..	K3	3	3														3	3	2	3			
			CO-2	Implement problems based on Divide and Conquer approach.	K2	3	3	3	2													3	3	2	3		
			CO-3	Implement problems based on using Greedy Approach.	K2	3	3	3	2														3	3	2	3	
			CO-4	Apply concepts of dynamic programming and Backtracking approach.	K3	3	3	3	2	2													3	3	2	3	
			CO-5	To develop an application based on sorting.	K1	3	3	3	2	2														3	3	2	3
			<b>KCS 553 - DESIGN &amp; ANALYSIS OF ALGORITHMS LAB</b>								3.00	3.00	3.00	2.00	2.00										3.00	3.00	2.00
47	KNC 501	V	CO-1	Identify and Explore the basic features and modalities about Indian Constitution	K3	3																2					
			CO-2	Differentiate and relate the functioning of Indian Parliamentary System at the center and state level	K4	3																		3			
			CO-3	Differentiate different aspects of Indian Legal System and its related bodies	K4	3	1																		3		
			CO-4	Discover and apply different laws and regulations related to engineering practices.	K3	3	1																		2		
			CO-5	Correlate role of Engineers with different organizations and governance models.	K3		3																			3	
			<b>KNC 501 - Constitution of India, Law and Engineering</b>								3.00	1.67														2.60	
			CO-1	Developing a technical artifact requiring new technical skills and effectively utilizing a new software tool to complete a task	K3	3.00	2.00	3.00	2.00						2.00	2.00							1.00				
			CO-2	Writing requirements documentation, Selecting appropriate technologies, identifying and creating appropriate test cases for systems.	K2	3.00	1.00	2.00	2.00							2.00	2.00							1.00			







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
			<b>KHU 801 - Rural Development: Administration &amp; Planning</b>						<b>3.00</b>	<b>2.80</b>	<b>2.00</b>	<b>3.00</b>	<b>3.00</b>	<b>2.60</b>						<b>1.50</b>
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	3	
			<b>KOE 083 - Entrepreneurship Development</b>										<b>2.00</b>							<b>3.00</b>
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													
			CO-5	Use social media analytics and integrative media strategie	K1	3	3												2	1
			<b>KOE 094 - Digital &amp; Social Media Marketing</b>						<b>2.60</b>	<b>2.80</b>	<b>1.00</b>									<b>2.00</b>
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
			<b>KCS 851 - PROJECT</b>						<b>3.00</b>	<b>2.75</b>	<b>2.00</b>	<b>2.00</b>	<b>2.25</b>	<b>3.00</b>			<b>2.33</b>	<b>2.00</b>	<b>2.00</b>	<b>2.00</b>



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54	2023-24	VI	KOE 068	Software Project Management															
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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 elet-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!	####	####	####	####