Meerut Institute of Engineering and Technology, Meerut

Statements of Course Outcomes (COs) and Mapping with Program Outcomes (POs) and Program Specific Outcomes (PSOs) : Dept. of CSE: 2019-23
(Batch passed-out in 2023; 2019-23) 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	KAS101/201	I/II	CO-1	Understand the concept of theory of relativity and their related cor	K2	3	2										3			
			CO-2	To solve the engineering problems based on Electromagnetic Field T	K3	3	3	2									3			
			CO-3	To solve the limiting problems of Classical Physics using concepts of	K3	3	2										3			
			CO-4	Understand the concept of wave nature related phenomenon and r	K2	3	3										3			
			CO-5	Understand basic concept of LASER and fiber optics.	K2	3	3	3									3			
				KAS101/201 (Engg. Physics)		3	2.6	2.5									3			
2	KAS151/251	I/II	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 bridg	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 c	K3	3		2					2							
				KAS151/251 (Engg. Physics Lab)		2.6	2	2					2	3			2			
3	KAS102/202	I/II	CO-1	Understanding atomic and molecular structure from nanoscale to n	K2	3											2			
			CO-2	Apply the concept of spectroscopy for compound identification and	K3	3	2													
			CO-3	Apply the concepts of electrochemistry to corrosion, batteries and	K3	3	2										2			
			CO-4	Analyse the water sample and coal samples for their hardness and	K3	3	2				2	2					2			
			CO-5	Attain the chemical knowledge on the concept of polymers and pol	K2	3					2	2					2			
				KAS102/202 (Engg. Chemistry)		3	2				2	2					2			
4	KAS152/252	I/II	CO-1	Perform experiments with different analytical instruments for chen	K3	2					2	2		2			2			
			CO-2	Compare molecular / system properties such as surface tension, vis	K3	2														
			CO-3	Measure alkalinity, hardness and chloride content of water.	K2	3	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 form	K2	2	2				2	2					2			
				KAS152/252 (Engg. Chemistry Lab)		2.2	2				2	2		2			2			
			CO-1	Apply the concept of matrices for solving the linear simultaneous e	K3	3	3	3	3								2			
			CO-2	Apply the concept of limit, continuity and differentiability in the stu	K3	3	3	3	3								2			

Meerut Institute of Engineering and Technology, Meerut

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5	KAS103	I	CO-3	Apply the concept of partial differentiation in finding extreme valu	K3	3	3	3	3								2			
			CO-4	Apply multiple integrals for finding area, volume, centre of mass an	K3	3	3	3	3								2			
			CO-5	Applying the concept of vector differentiation and integration to de	K3	3	3	3	3								2			
				KAS103 (Engg. Maths I)		3	3	3	3								2			
6	KAS203	II	CO-1	Apply the concept of differentiation for solving differential equatio	K3	3	3	3	3								2			
			CO-2	Apply the concept of definite integral for evaluating surface areas a	K3	3	3	3	3								2			
			CO-3	Application of identifying the convergence of sequence and series a	K3	3	3	3	3								2			
			CO-4	Application of complex functions to determine analytic functions	K3	3	3	3	3								2			
			CO-5	Apply the comlex functions for finding Taylor's series, Laurent's seri	K3	3	3	3	3								2			
				KAS203 (Engg. Maths II)		3	3	3	3								2			
7	KAS104/204	I/II	CO-1	Be acquainted with specific dimensions of communication skills.	K2	2		3						2	2					
			CO-2	Create substantial base by the formation of strong professional voc	K3	2											2			
			CO-3	Apply communication skills at their work place for writing purposes	K3		2	3												
			CO-4	Cultivate relevant technical style of communication & presentation	K3				2											
			CO-5	Apply techniques for developing interpersonal communication skill	K3		2	3	2					3	3	3				
				KAS104/204 (Professional English)		2	2	3	2					2.5	2.5	3	2			
8	KAS154/254	I/II	CO-1	Make use of conversational skills for effective group talks and inter	K3									2	2		2			
			CO-2	Develop communication and presentation skills for technical paper	K2										2		2			
			CO-3	Build conversational skills for public/individual speaking /conferen	K2										2		2			
			CO-4	Make use of comprehension skills based on reading and listening p	K3										2		2			
			CO-5	Execution social skills for a given work station.	K3										2		2			
				KAS154/254 (Professional English Lab)										2	2		2			
9	KEE101/201	I/II	CO-1	Apply the concepts of KVL/KCL and network theorems in solving DC	K3	3	3	3									2			
			CO-2	Analyze the steady state behavior of single phase and three phase A	K2	3	3	3									2			
			CO-3	Identify the application areas of a single phase two winding transfo	K2	3	2	3									2			
			CO-4	Illustrate the working principles of induction motor, synchronous m	K2	3	2										2			
			CO-5	Describe the components of low voltage electrical installations.	K2	3	2										3			
				KEE101/201 (Basic Electrical Engg.)		3	2.4	3									2.2			
10	KEE151/251	I/II	CO-1	Apply KVL/KCL and network theorums in DC circuits.	K3	2	2	2	2											
			CO-2	Demonstrate the behaviour of single phase and three phase AC circ	K3	3	2	2	2		2						2			
			CO-3	Illustrate and study the parameters of single phase transformer.	K3	3	3	2	2		2						2			
			CO-4	Analysing speed control of AC and DC Motor	K3	3	3	2	2		2						2			
			CO-5	Determine energy consumption (kWH)using single phase induction	K3	3	2	2	2								2			

Meerut Institute of Engineering and Technology, Meerut

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				KEE151/251 (Basic Electrical Engg. Lab)		**2.8**	**2.4**	**2**	**2**		**2**						**2**			
11	KCS101/201	I/II	CO-1	Translate the algorithms to programs & perform its execution in C l	K3	3											3			
			CO-2	Implement conditional branching, instructions along with operator	K3	3	3	3									3			
			CO-3	Use looping control instructions to decompose a problem into func	K3	3	3	3									3			
			CO-4	Apply arrays and structures to develop programs.	K3	3	3	3									3			
			CO-5	Utilize pointer, file handling, dynamic memory allocation to solve p	K3	3	3	3									3			
				KCS101/201		**3**	**3**	**3**									**3**			
12	KCS 151P/251P	I/II	CO-1	Solve simple problems based on arithmetic expressions using opera	K3	2	2	2												
			CO-2	Implement conditional branching instructions to develop programs	K3	3	3	3												
			CO-3	Use looping control instructions and functions to solve complex pro	K3	3	3	3									3			
			CO-4	Design solutions by using arrays and structures to develop program	K3	3	3	3									3			
			CO-5	Utilize pointer, file handling, dynamic memory allocation to solve p	K3	3	3	3									3			
				KCS 151P/251P		**2.8**	**2.8**	**2.8**									**3**			
13	KWS101/201	I/II	CO-1	Use various engineering materials, tools, machines and measuring	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 ca	K3	2					2		2	2			2			
			CO-4	Perform operations in welding, moulding and casting	K3	3					2	2	2	2			2			
			CO-5	Fabricate a job by 3D printing manufacturing technique.	K3	2				2	2		2	3			2			
				KWS101/201 (Workshop Practices)		**2.4**				**2**	**2**	**2**	**2**	**2.4**			**2**			
14	KCE101/201	I/II	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 usi	K2	3		2		3				2	2					
			CO-5	Apply AutoCAD software for creation of engineering drawing and m	K3	3		2		3				2	2		2			
				KCE101/201 (Engg. Graphics and Design)		**3**	**2**	**2**		**3**				**2**	**2**		**2**			
15	KBT101	I	CO-1	Apply the system of Linear inequatities and Quadratic Equations.	K3	2	2	2									2			
			CO-2	Apply the concept of Arithmetic and Geometric Progressions for fin	K3	2	2	2									2			
			CO-3	Apply the concept of Conic sections to find distance of a point.	K3	2	2	2									2			
			CO-4	Apply the conncept of limit, continuity and differentiablity.	K3	2	2	2									2			
			CO-5	Apply for finding the derivatives of different type of functions and	K3	3	3	2	2								2			
				KBT101		**2.2**	**2.2**	**2**	**2**								**2**			
16	'102	I	CO-1	To understand the basics of living systems.	K2						2	2	2				3			
			CO-2	To understand key common features of living organisms & its functi	K2						2		2				3			
			CO-3	To know the basic concepts of anatomy and functions of cells	K3						2						3			

Meerut Institute of Engineering and Technology, Meerut

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16	KBT	I	CO-4	To understand the concept of the alleles and genes.	K2						2	2					3			
			CO-5	Analyze the basics of plant physiology.	K5						2	2	2				2			
				KBT102							**2**	**2**	**2**				**2.8**			
17	KBT201	II	CO-1	Apply the basic concepts of Integration to find area between the cu	K3	3	3	2									2			
			CO-2	Apply the concept of differentiation for finding the solution of Diff	K3	2	2	2	2								2			
			CO-3	Apply with the concept of vector for finding direction cosines,Proje	K3	2	2	2									2			
			CO-4	Apply the concept of three dimensional geometry in engineering.	K3	2	2	2	2								2			
			CO-5	Apply the concept of Probability in Comprehensive Manner.	K3	3	3	3	2								2			
				KBT201		**2.4**	**2.4**	**2.2**	**2**								**2**			
18	KBT202	II	CO-1	To know the basic idea of Microbiology.	K2						2	2	2				3			
			CO-2	To Understand the functional anatomy of cells.	K2						2		2				3			
			CO-3	To know the energy production mechanism.	K2						2						3			
			CO-4	To understand the energy utilization.	K2						2	2					3			
			CO-5	Reproductive health and human welfare.	K5						2	2	2				2			
				KBT202							**2**	**2**	**2**				**2.8**			
19	KCS 301	III	CO-1	Describe Data types and Apply the Concept of Linked list and	K2	3	2	2										1	1	1
			CO-2	Apply the Concept of Stack and Queue	K3	2	2	2										1	1	1
			CO-3	Apply the Concept of Tree	K3	2	1	1										1		1
			CO-4	Apply the Concept of Graph	K3	2	1	1										1		1
			CO-5	Apply the Concept of Sorting, Searching, Hashing Technique and	K3	2	2	2										1	2	1
				KCS 301 - DATA STRUCTURE		**2**	**2**	**2**										**1**	**1**	**1**
20	KCS 302	III	CO-1	Understand the basic structure, operation of computer & its	K2	2	2	1									1			
			CO-2	Understand the different ways of communication among CPU, mem	K2	2	2	1									1	1		
			CO-3	Understand the parameters for the design of memory unit,	K2	2	1	1									1			1
			CO-4	Apply the different algorithms for arithmetic operations, logic	K3	2	2	2	1								1	2		
			CO-5	Compute the performance of different pipeline techniques.	K4	2	2										1			1
				KCS 302 - COMPUTER ORGANIZATION & ARCHITECTURE		**2**	**1.8**	**1.3**	**1**								**1**	**1.5**		**1**
21	KCS 303	III	CO-1	To understand & apply the fundamental concept of Discrete &	K2	2	2	1									2	3		3
			CO-2	To understand the fundamental concept of theory of logic and Grap	K2	2	2	2									2			3
			CO-3	To apply the concept of Discrete structure, Algebraic structure	K3		2	2	1											3
			CO-4	To apply the concept of Graph theory,Recurrence Relation &	K3	2	2	2	1									2		3
			CO-5	To validate the conclusion of propositional statements.	K4		2	2	1									3		3
				KCS 303 - DISCRETE STRUCTURES & THEORY OF LOGIC		**2**	**2**	**1.8**	**1**								**2**	66666		**3**
			CO-1	Apply the Concept of Arrays in Searching and Sorting	K3	3	2	2							1		2	3	2	2

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22	KCS 351	III	CO-2	Apply the concept of stacka and Queues to solve a problem.	K3	3	2	2							1		2	3	2	2
			CO-3	Apply the concept of Dynamic memory allocation	K3	3	2	2							1		2	3	2	2
			CO-4	Apply the Concept of Trees and Graphs.	K3	3	2	1							1		1	3	2	2
				KCS 351 - DATA STRUCTURES USING C LAB		**3**	**2**	**1.75**							**1**		**1.75**	**3**	**2**	**2**
23	KCS 352	III	CO-1	Implement adder circuits using basic gates	K3	1	2										2			
			CO-2	Understand the converter circuits using basic gates.	K2	1	2	1									2			
			CO-3	Understand the working of Multiplexer by using IC 74153	K2	1	2	2									2			2
			CO-4	Understand the various circuits for ALU, datapath and control	K2	1	2	1									2			2
				KCS 352 - COMPUTER ORGANIZATION LAB		**1.00**	**2.00**	**1.3**									**2.00**			**2.00**
24	KCS 353	III	CO-1	Implement basic discrete structures algorithms.	K3	2	2	2		2								2		2
			CO-2	Implement algebraic operations.	K3	2	2	2		2								2		2
			CO-3	Implement logical problems like Boolean algebra and birthday	K3		2			2							1			
			CO-4	Implement closed formula of recursive sequence.	K3		2			2							1	2		2
				KCS 353 - DISCRETE STRUCTURES & LOGIC LAB		**2**	**2**	**2**		**2**							**1**	**2**		**2**
25	KCS 354	III	CO-1	Developing a technical artifact requiring new technical skills and	K3	3	2	3	2					2	2		1			
			CO-2	Writing requirements documentation, Selecting appropriate techno	K2	3	1	2	2					2	2		1			
			CO-3	Writing requirements documentation, Selecting appropriate	K2	3	2	2	2					2	1					
			CO-4	Improving problem-solving, critical thinking skills and report	K3	3	3	3	2	1				2	2		1			
			CO-5	Learning professional skills like exercising leadership, behaving	K1	3	3	3	1					2	2		1			
				KCS 354 - MINI PROJECT		**3**	**2.2**	**2.6**	**1.8**	**1**				**2**	**1.8**		**1**			
26	KAS 402	IV	CO-1	Remember the concept of partial differential equation and to	K2	1	1		2								2			
			CO-2	Analyze the concept of partial differential equations to evaluate the	K3	1	1	1	2								2	1		
			CO-3	Understand the concept of correlation, moments, skewness and	K2	2	1		2								2			
			CO-4	Remember the concept of probability to evaluate probability	K1	2	1	1	2								2	1		1
			CO-5	Apply the concept of hypothesis testing and statistical quality	K2	2	2	1	2								2	1		
				KAS 402 - MATHS IV		**2**	**1**	**1**	**2**								**2**	**1**		**1**
27	KOE 038	IV	CO-1	Acquire basic knowledge of working principles & parameters	K2	3	3	3	2								2			2
			CO-2	Analyze the working of diode based electronic circuits, Rectifier,	K4	3	3	3	2								2			2
			CO-3	Apply OP-AMP principles to design different applications like	K3	3	3	3	2								2			2
			CO-4	Understand the purpose and working of power supplies,	K2	3	3	3	2								2			2
				KOE 038 - ELECTRONICS ENGG.		**3**	**3**	**3**	**2**								**2**			**2**
28	: 401	IV	CO-1	To understand about the need of value education and harmony in	K2						3	3	3	2	2		3			
			CO-2	To apply the understanding of value education to ensure	K3						3	3	3				3			
			CO-3	To analyze about self, feelings in relationship, society and	K4						3	3	3				3			

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28	KVE	IV	CO-4	To evaluate their participation (Thought, Behaviour, Work,	K5						3	3	3	2	2		3			
			CO-5	To develop their emotional, social and professional competence.	K3						3	3	3				3			
				KVE 401 - UNIVERSAL HUMAN VALUES							3	3	3	2	2		3			
29	KAS 401	IV	CO-1	Understand the nature and objectives of Technical	K2	2	2	2					2	2	2	2	2			
			CO-2	Utilize the technical writing for the purspose of Technical	K3	2	2	2					2	2	2	2	2			
			CO-3	Imbibe inputs by presentation skills to enhance confidence in face	K2	2	2	2					2	2	2	2	2			
			CO-4	Apply a vast know-how of application of the learning to	K3	2	2	1					2	2	2	2	2			
			CO-5	Analyse their efficacy as fluent & efficient communicators by	K4	2	2	1					2	2	2	2	2			
				KAS 401 - TECHNICAL COMMUNICATION		2.0	2	2					2	2	2	2	2			
30	KCS 401	IV	CO-1	To understand the operating system concepts and its layered	K3	2		2										2		
			CO-2	To understand the structure and organization of the file system	K2	3		2	2								2	2		
			CO-3	To apply various algorithms required for CPU and disk scheduling.	K2	2		2									2		2	3
			CO-4	To apply process synchronization, concurrency control and	K3	2	2	2									2	2		
			CO-5	To apply the memory management and page replacement	K1	3		3	2								2	2	2	2
				KCS 401 - OPERATING SYSTEMS		2	2	2	2								2	2	2	3
31	KCS 402	IV	CO-1	Understand and apply the fundamental concept in theory of	K2	2	1	1										2		
			CO-2	Identify different formal language classes and their relationships.	K4	2	2	1									2	2		2
			CO-3	Construct grammar for different formal languages.	K3	2	2	1									2	2		2
			CO-4	Design automata corresponding to given formal languages.	K4		2	2	1								2	2		2
			CO-5	Analyze the tractability and decidability with Turing machine.	K4	2	2	1									2	2		2
				KCS 402 - THEORY OF AUTOMATA & FORMAL LANGUAGES		2	2	1	1								2	2		2
32	KCS 403	IV	CO-1	To understand the basic architecture of 8085 micro-processor	K2	2	2		2								3			1
			CO-2	To do interfacing of 8085 microprocessor with memory and I/O	K2	2	2	1	2								3			2
			CO-3	To understand various instructions, software and hardware	K2	3	3	2	3								3			2
			CO-4	To demonstrate programming proficiency using the various	K3	3	3	1	3								3		1	2
			CO-5	To understand the architecture of 8086 micro-processor and	K2	3	3	2	3								3		1	2
				KCS 403 - MICROPROCESSOR		3	3	2	3								3		1	2
33	KCS 451	IV	CO-1	To apply the basic LINUX commands, process concepts and	K3	2	1										2	3		2
			CO-2	To implement various CPU scheduling algorithm for a given	K3	2	1	2	2								2		2	3
			CO-3	To implement the concepts of deadlock and multiprogramming	K3	2	1	2	2								2	2		
			CO-4	To implement various page replacement algorithms.	K3	2	1		2								2	1		2
				KCS 451 - OPERATING SYSTEM LAB		2	1	2	2								2	2	2	2
	52		CO-1	To learn the design aspects of I/O and Memory Interacing with	K2	3	3	3	2		2						3			
			CO-2	To understand 8251 architecture and its interfacing with 8085	K2	3	3	3	3		1				1	1	2	2		

Meerut Institute of Engineering and Technology, Meerut

Statements of Course Outcomes (COs) and Mapping with Program Outcomes (POs) and Program Specific Outcomes (PSOs) : Dept. of CSE: 2019-23
(Batch passed-out in 2023; 2019-23) 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
34	KCS 452	IV	CO-3	To understand Programmable interval timer architecture and its	K2	3	3	3	3		3						2	2	3	2
			CO-4	To understand interfacing of DAC with 8085 to gernerate various	K2	3	3	3	3	2	3				2		2	2	3	2
				KCS 452 - MICROPROCESSOR LAB		3	3	3	3	2	2				2	1	2	2	3	2
35	KCS 453	IV	CO-1	To implement the basic concepts of python programming like	K3	1	2	2		2							2			1
			CO-2	To implement the programs using conditional and loop	K3	1	2	2		2							2			1
			CO-3	To implement file handling techniques.	K3	1	1	1		2							2			
			CO-4	To implement searching, sorting and merging algorithms.	K3	1	1	1		1							1			1
			CO-5	To implement concepts of OOPS.	K3	1	2	2		2							2			1
				KCS 453 - PYTHON PROGRAMMING LAB		1	2	2		2							2			1
36	KNC401	IV	CO-1	Understand the software bugs that pose cybersecurity threats	K2	2	3	1	1								2		1	2
			CO-2	Understand the attack scenarios to web browsers, web servers and	K2	2	3	2	1								2			2
			CO-3	Understand the cyber security holes in standard networking	K2	2	3	2	1								2		1	2
			CO-4	Understand the difference between System Security, Network	K2	2	3	2	1								2	2		2
			CO-5	Analyze the cyber threats to Critical Infrastructures.	K4	2	2	2	1								2	2		3
				KNC401 - COMPUTER SYSTEM SECURITY		2.0	2.8	1.8	1.0								2.0	2.0	1.0	2.2
37	KNC 402	IV	CO-1	To Understand the concepts of python programmig	K2	1	2		1								1			1
			CO-2	To Understand the use of python data structures	K2	1	2		1								1			1
			CO-3	To Implement the programs using the functions,higher order	K3	1	2		1	2							1			1
			CO-4	To apply file handling techniques, Modules, Exception Handling	K3	1	2		1	2							1			1
			CO-5	To Implement searching ,sorting,merging, Sieve of Eratosthenes	K3	1	2		1	2							1			
				KNC 402 - PYTHON PROGRAMMING		1.00	2.00		1.00	2.00							1.00			1.00
38	KCS551	V	CO-1	To apply database language commands to create & implement the	K3	3	3										3	3	2	2
			CO-2	To apply aggregare operators and SQL queries to retrieve records fr	K2	3	3	3	3								3	3	2	2
			CO-3	To apply the concepts of relational algebra, join and change it into	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	
				KCS551 - DBMS LAB		3.00	3.00	3.00	2.25	2.00							3.00	2.50	1.20	2.00
39	KCS 552	V	CO-1	To understand Lexical analyzer for if statement and Arithmetic expr	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	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 a application based DFA	K1	3	3	2	2	2							2	1	2	2
				KCS 552 - CD LAB		3.00	3.00	2.25	2.00	2.00				2.00			2.20	1.60	2.00	2.40
			CO-1	Analyze various sorting techniques.	K3	3	3										3	3	2	3

Meerut Institute of Engineering and Technology, Meerut

Statements of Course Outcomes (COs) and Mapping with Program Outcomes (POs) and Program Specific Outcomes (PSOs) : Dept. of CSE: 2019-23
(Batch passed-out in 2023; 2019-23) BKL # K1 – Remember, K2 – Understand, K3 – Apply, K4 – Analyze, K5 – Evaluate, K6 – Create

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40	KCS 553	V	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 approac	K3	3	3	3	2	2							3	3	2	3
			CO-5	To develop a application based on sorting	K1	3	3	3	2	2							3	3	2	3
				KCS 553 - DAA LAB		3.00	3.00	3.00	2.00	2.00							3.00	3.00	2.00	3.00
41	KCS 051	V	CO-1	Understand the statistical concepts and inferences to analyse differ	K3	2	2	2	0								2	1		
			CO-2	To understand and apply Data Analysis Techniques.	K2	2	2	2	2								2	2		
			CO-3	To apply various Data streams algorithms	K2	2	2	2	2								2	2		2
			CO-4	To understand item sets, Clustering, frame works and Visualizations	K3	2	2	2	2								2	2		2
			CO-5	To understand the fundamental concepts of big data and acquire th	K1	2	2	2	2								2	1		
				KCS 051 - DATA ANALYTICS		2.00	2.00	2.00	1.60								2.00	1.60		2.00
42	KCS 052	V	CO-1	Understand principle of Web page design and about types of websi	K2	1	1	1										1		
			CO-2	Visualize and Recognize the basic concept of HTML and application	K3	1	1	1										1		
			CO-3	Recognize and apply the elements of Creating Style Sheet (CSS).	K2	1	1	1									1	1		
			CO-4	Understand the basic concept of Java Script and its application.	K1	1	1	1									1	1	1	
			CO-5	Introduce basics concept of Web Hosting and apply the concept of	K2	1	1	1									1	1		
				KCS 052 - WD		1.00	1.00	1.00									1.00	0.68	0.68	
43	KCS 055	V	CO-1	To understand the need for machine learning for various problem s	K2	2	2	2	1								2	1		
			CO-2	To understand a wide variety of learning algorithms.	K2	2	2	2	1								1	1		
			CO-3	To analyze the latest trends in machine learning in comparision to c	K3	2	2	2	1								1	2		1
			CO-4	To analyze the latest trends in machine learning in comparision to c	K3	2	2	2	1								2	1	1	1
			CO-5	To analyze the latest trends in machine learning in comparision to c	K2	2	2	2	1									1		
				KCS 055 - MLT		2.00	2.00	2.00	1.00								1.50	1.20	1.00	1.00
44	KCS 058	V	CO-1	To understand and analyze the common methods in the user-cente	K3	2	2	2									1			
			CO-2	To apply , adapt and extend classic design standards, guidelines, an	K2	2	2	2	1								1			
			CO-3	To apply design and evaluation methods at a basic level of compet	K2	2	2	2	1								1			2
			CO-4	To develop prototypes at varying levels of fidelity, from paper prot	K3	2	2	2	1								1			2
			CO-5	To demonstrate sufficient theory of human computer interaction, e	K1	2	2	2	1											2
				KCS 058 - HCI		2.00	2.00	2.00	1.00								1.00			1.53
45	KCS 501	V	CO-1	Understand the different issues involved in the design and impleme	K3	1	1	2										1		
			CO-2	Apply database queries in SQL, Relational algebra, tuple and domai	K2	2	1	2	1									2		
			CO-3	Apply normalization techniques.	K2	3	3	3	2											
			CO-4	Apply concepts of transaction processing and distributed database.	K3	2	3	2	2									2		
			CO-5	Apply the concurrency control protocols.	K1	3	3	2	0									0		

Meerut Institute of Engineering and Technology, Meerut

Statements of Course Outcomes (COs) and Mapping with Program Outcomes (POs) and Program Specific Outcomes (PSOs) : Dept. of CSE: 2019-23
(Batch passed-out in 2023; 2019-23) 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
				KCS 501 - DBMS		**2.20**	**2.20**	**2.20**	**1.25**									**1.25**		
46	KCS 502	V	CO-1	Understand the phases of Compiler Design and the formal attribute	K2	3	3	2	2									2		
			CO-2	Apply different Parsing Techniques and error recovery techniques t	K3	3	3	3	2	3								2		
			CO-3	Apply Syntax directed Translation scheme to generate annotated tr	K2	3	3	3	2	3								2		3
			CO-4	Analyze allocation scheme for table and various techniques for err	K1	3	3	3	2									2	1	3
			CO-5	Analyze different techniques for parsing, intermediate code genera	K2	3	3	3	2									2		
				KCS 502 - CD		**3.00**	**3.00**	**2.80**	**2.00**	**3.00**								**2.00**	**1.00**	**3.00**
47	KCS 503	V	CO-1	To understand the growth rate, performance measures and design	K2	2	2	2	2								2	1		
			CO-2	To apply advanced data structures and various sorting algorithms.	K2	2	2	2	2								2	2		
			CO-3	To apply string matching algorithms, greedy & dynamic programmi	K3	2	2	2	3								2	2		2
			CO-4	To interpret the approximation algorithms, randomized algorithms	K3	2	2	2	3								2			2
			CO-5	To analyze various problems, and compare appropriate algorithmic	K2	2	2	2	3								2	1		
				KCS 503 - DAA		**2**	**2**	**2**	**3**								**2**	**2**		**2**
48	KNC 501	V	CO-1	Identify and Explore the basic features and modalities about	K3	3												2		
			CO-2	Differentiate and relate the functioning of Indian Parlimentary Syst	K4	3												3		
			CO-3	Differentiate different aspects of Indian Legal System and its	K4	3	1											3		
			CO-4	Discover and apply different laws and regulations related to	K3	3	1											2		
			CO-5	Correlate role of Engineers with different organizations and	K3		3	2	2	1								3		
				KNC 501 - COI		**3**	**2**	**2**	**2**	**1**								**3**		
49	KCS 601	VI	CO-1	Understand the Software Engineering Concepts and Analyze	K3	3	3	2				2	2		2		2	2	3	2
			CO-2	Design SRS and explain Software Quality Assurance policies with a	K2	3	3	2	2	2		2	2	3	3	2	2	3	3	2
			CO-3	Design small software's and measure using software's metrics	K2	3	3	2	2							3	2	3	3	2
			CO-4	Apply different testing strategy for Software Systems.	K3	3	3	2	2					2	2	2	2	3	3	2
			CO-5	Use some Project Management Tools in applications with	K1	3	3	2	2	2				2	2	3	2	3	3	3
				KCS 601 - SOFTWARE ENGINEERING		**3**	**3**	**2**	**2**	**2**		**2**	**2**	**2**	**2**	**3**	**2**	**3**	**3**	**2**
50	KCS 602	VI	CO-1	Explain web development Strategies and Protocols governing	K3	3	3	2										2	3	2
			CO-2	Design web pages using HTML, XML, CSS and JavaScript.	K2	3	3	2	2	2						2	1	3	3	2
			CO-3	Creation of client-server environment using socket programming	K2	3	3	2	2							1	1	3	3	2
			CO-4	Building enterprise level applications and manipulate web	K3	3	3	2	2						2		1	3	3	2
			CO-5	Design interactive web applications using Servlets and JSP	K1	3	3	2	2	2				2			2	3	3	3
				KCS 602 - WEB TECHNOLOGY		**3**	**3**	**2**	**2**	**2**				**2**	**2**	**1**	**1**	**3**	**3**	**2**
51	603	VI	CO-1	To understand the fundamental concepts of data transmission.	K3	3	3	2	2									2		
			CO-2	To explain the Datalink Layer and protocols used in computer netw	K2	3	3	3	2									2		
			CO-3	To implement various techniques and protocols used in	K2	3	3	3	2	1							1	2		3

Meerut Institute of Engineering and Technology, Meerut

Statements of Course Outcomes (COs) and Mapping with Program Outcomes (POs) and Program Specific Outcomes (PSOs) : Dept. of CSE: 2019-23
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51	KCS	VI	CO-4	To apply the Transport Layer Protocols. .	K3	3	3	3	2									2	1	3
			CO-5	To analyze the different protocols used at Application Layer.	K1	3	3	3	2								2	2		
				KCS 603 - COMPUTER NETWORKS		**3.00**	**3.00**	**2.80**	**2.00**	**1.00**							**1.50**	**2.00**	**1.00**	**3.00**
52	KCS 061	VI	CO-1	To Understand the Basics of Big Data and its business	K2	2	2	2										1		
			CO-2	To Understand the basics of Hadoop and Map Reduce.	K3	2	2	2										2		
			CO-3	To Understand the concepts of Hadoop Distributed File System	K2	2	2	2										2		2
			CO-4	To Understand the Hadoop Eco System and YARN,NoSQL	K1	2	2	2									2	2		2
			CO-5	To Understand the Hadoop Eco System Frameworks, PIG, Hive	K2	2	2	2									2	1		
				KCS 061 - BIG DATA		**2.00**	**2.00**	**2.00**									**2.00**	**1.60**		**2.00**
53	KOE 068	VI	CO-1	Understand the Project planning Objectives, Methodologies,	K2	2	2	2	0									1		
			CO-2	Understand Project Life cycle, Process models and development m	K2	2	2	2									2	2		
			CO-3	Observe and manage project activity.	K3	2	2	2	2									2		2
			CO-4	Develop a strategy for software testing with the goal of meeting	K3	2	2	2	2									2		2
			CO-5	Utilize project management tools to configure modifications and	K2	2	2	2	2								2	1		
				KOE 068 - SOFTWARE PROJECT MANAGEMENT		**2.00**	**2.00**	**2.00**	**1.50**								**2.00**	**1.60**		**2.00**
54	KCS 651	VI	CO-1	Students will be able to design SRS document for various problem s	K3	3	3										3	2	3	3
			CO-2	Students will be able to apply Use Case, Activity and Class Diagram	K2	3	3	3	2								3	2	3	3
			CO-3	To describe various phases of SRS documents.	K2	3	3	3	2								3	2	3	3
			CO-4	Students able to apply Sequence, Collaboration, State Chart, Comp	K3	3	3	3	2	2							3	2	3	3
			CO-5	Students able to apply forward and reverse engineering concepts	K1	3	3	3	2	2							3	2	3	3
				KCS 651 - SOFTWARE ENGG LAB		**3**	**3**	**3**	**2**	**2**							**3**	**2**	**3**	**3**
55	KCS 652	VI	CO-1	Able to design static/dynamic web pages using HTML/DHTML/Jscri	K3	3	3										3	2	2	1
			CO-2	Able to implement programs to illustrate XML schemas and DTD	K2	3	3	3	0								3	2	2	2
			CO-3	To describe various phases of SRS documents.	K2	3	3	3	3								3	3	3	2
			CO-4	Able to implement database applications using JDBC and ODBC	K3	3	3	3	0	3							3	3	3	2
			CO-5	Able to implement server site web application	K1	3	3										3	2	3	2
				KCS 652 - WEB TECHNOLOGY LAB		**3**	**3**	**3**	**1**	**3**							**3**	**2**	**3**	**2**
56	KCS 653	VI	CO-1	To explain the concept of client server architecture, internet, socket	K2	3	3	3	2	3							2	2	2	1
			CO-2	To use the concept of client side programming languages(HTML,CSS	K3	3	3	3	2	3				2	2		2	2	2	2
			CO-3	To use the concept of server side programming languages.(JSP,SERV	K2	3	3	3	2	3				2	2		2	3	3	2
			CO-4	To implement the concept of core java to design the console based	K1	3	3	3	2	3				2	2		2	3	3	2
			CO-5	To implement concept of DBMS for connectivity between front-end	K2	3	3	3	2	3							2	2	3	2
				KCS 653 - COMPUTER NETWORKS LAB		**3**	**3**	**3**	**2**	**3**				**2**	**2**		**2**	**2**	**3**	**2**
			CO-1	Understand the society,state and polity in India.	K2	3												2		

Meerut Institute of Engineering and Technology, Meerut

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57	KNC 602	VI	CO-2	Sensitize the Indian Literature, Culture, Tradition and Practices.	K3	3												3		
			CO-3	Define the Indian Religion,Philosophy and Practices.	K2	3	1											3		
			CO-4	Explain the Conceptual knowledge of Management and Indian	K2	3	1											2		
			CO-5	Development and Contribution in Culture , Heritage and Arts.	K3		3	2	2	1								3		
				KNC 602 - ITCS		**3**	**2**	**2**	**2**	**1**								**3**		
58	KHU 702	VII	CO-1	Understand the theories of entrepreneurship and Entrepreneurial Development Programmes						2	2	3		2		2	1	1		3
			CO-2	Create innovative business ideas and market opportunities						2	2	3	2	2		2				3
			CO-3	Understand the importance of Project Management and Project's life cycle						2	2	3	2	2	2	2	1	1		3
			CO-4	Analyze Project Finance and project report.	1	2				3	3					2				3
			CO-5	Evaluate Social Sector Perspectives and Social Entrepreneurship						3	3		2	2	2					3
				Projet Mgmt and Entreprenurship(KHU 702)	**1**	**2**				**2**	**2**	**3**	**2**	**2**	**2**	**2**	**1**	**1**		**3**
59	KCS 071	VII	CO-1	Understand the basics of the theory and practice of Artificial	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	K2	3	2	2		1								1	1	
			CO-4	Student should be aware of techniques used for classification and	K3	3	1											2	1	
			CO-5	Student should aware of basics of pattern recognition and steps	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 understand the principles & basic concepts of distributed systems.	K3	3	3	2	1								1	1	1	1
			CO-2	To understand the concepts of Fault Tolerance and failure recovery of resources in distributed system.	K2	3	3	2	2								1	2	2	
			CO-3	To solve problems in distributed Mutual Exclusion using various algorithms and methods.	K2	3	3	3	3					2	2		1	2	2	2
			CO-4	To analyze different Protocols in Distributed Systems.	K3	3	2	2	2								1	2	2	
			CO-5	To analyze different distributed system transactions and concurrency controls.	K1	3	3	3	3					2	2		1	2	2	
				KCS 077 - DISTRIBUTED SYSTEMS		**3.00**	**2.80**	**2.40**	**2.20**					**2.00**	**2.00**		**1.00**	**1.80**	**1.80**	**1.50**
61	KCS 713	VII	CO-1	Describe architecture and underlying principles of cloud	K2	1	2	2	2							2	2	2	2	3
			CO-2	Explain need, types and tools of Virtualization for cloud.	K3	3	3	2	2							2	2	2	2	3
			CO-3	Describe Services Oriented Architecture and various types of	K2	3	3	2	2							2	2	2	2	3
			CO-4	Explain Inter cloud resources management cloud storage services	K1	3	3	2	2							2	2	2	2	3

Statements of Course Outcomes (COs) and Mapping with Program Outcomes (POs) and Program Specific Outcomes (PSOs) : Dept. of CSE: 2019-23
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			CO-5	Analyze advanced cloud technologies.	K2	3	3	2	2	3						2	2	2	2	3
				KCS 713 - CLOUD COMPUTING		2.60	2.80	2.00	2.00	3.00						2.00	2.00	2.00	2.00	3.00
62	KOE 074	VII	CO-1	Understand the different non-conventional sources and the power generation techniques to generate electrical energy.	K2	3	3	2					1				3			
			CO-2	Understanding of various possible mechanisms about solar thermal energy.	K2	3	2	2				1	1	3			3			
			CO-3	Understand other direct energy conversion systems like magneto hydrodynamics, fuel cell and geo-thermal.	K2	3	2	2												
			CO-4	Apply Engineering techniques to build thermos-electric, thermionic and wind power plant.	K3	3	2	2												
			CO-5	Understanding of bio-mass, ocean thermal energy conversion, wave and tidal energy resources.	K2	3	3	2	2								2			
				KOE 074 - RENEWABLE ENERGY		3.00	2.40	2.00	2.00			1.00	1.00	3.00			2.67			
63	KCS 751A	VII	CO-1	To learn different logic programming languages.	K2,K3	2	2	2	2	3							3			
			CO-2	To apply and analyse various problem solving techniques on artificial intelligent problems.	K2,K3	3	3	3	3	3	2						3			
			CO-3	To acquire skill to identify the given problem and design the rule based systems.	K2,K3	3	3	3	3	2	3						3			
			CO-4	To develop better understanding to represent various real life problem domains using logic based techniques and use this to perform inference or planning.	K2,K3	3	3	3	3	3	3	2	1	1		3	3			
			CO-5	To understand the working knowledge in Lisp and demonstrate that for solving the artificial intelligent problems.	K2,K3	3	3	3	3	3	2			2	2	3	3			
				KCS 751A - ARTIFICIAL INTELLIGENCE LAB		2.80	2.80	2.80	2.80	2.80	2.50	2.00	1.00	1.50	2.00	3.00	3.00			
64	KCS 752	VII	CO-1	Developing a technical artifact requiring new technical skills and	K3	3	2	3	2					2	2		1			
			CO-2	Writing requirements documentation, Selecting appropriate techno	K2	3	1	2	2					2	2		1			
			CO-3	Writing requirements documentation, Selecting appropriate	K2	3	2	2	2					2	1					
			CO-4	Improving problem-solving, critical thinking skills and report	K3	3	3	3	2	1				2	2		1			
			CO-5	Learning professional skills like exercising leadership, behaving	K1	3	3	3	1					2	2		1			
				KCS 752 - MINI PROJECT		3.00	2.20	2.60	1.80	1.00				2.00	1.80		1.00			
			CO-1	Suggest a product,research or application based project. It should	K2	3	3	3	3	2	2			2	2		1			
			CO-2	Identify and summarize the related work done earlier, analyse prev	K3	3	3	3	2	1	2						2			

Meerut Institute of Engineering and Technology, Meerut

Statements of Course Outcomes (COs) and Mapping with Program Outcomes (POs) and Program Specific Outcomes (PSOs) : Dept. of CSE: 2019-23
(Batch passed-out in 2023; 2019-23) 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
65	KCS 753	VII	CO-3	Design and implement a project on through analysis and	K2	3	3	3	3	2	1			2	2		1			
			CO-4	Present the project outlining, approach and expected results	K1	3	3	3	3	2	1			2	2					
			CO-5	Manage record and compile work done throughout the project.	K2	3	3	3	2	2	1			2	2		1			
				KCS 753 - PROJECT		**3**	**3**	**3**	**2.6**	**1.8**	**1.4**			**2**	**2**		**1.25**			
66	KHU 801	VIII	CO-1	Students are able to understand the definitions, concepts and components of Rural Development.	K2			2			2	2		2			2		2	
			CO-2	Students will be able to know the importance, structure, significance, resources of Indian rural economy & also able to identify & inspect, the importance of present policies & programs of Government of India to design & formulate	K3			2			2	2		2			2		2	
			CO-3	Students will have a clear idea about the area development programs and its impact.	K2			2			2	2		2			2		2	
			CO-4	Students will be able to acquire knowledge & Skills about rural entrepreneurship so that they will be able to opt entrepreneurship as major career option.	K1			2			2	2		2			2		2	
			CO-5	Students will be able to understand about the using of different methods for human resource planning in the rural areas especially.	K2			2			2	2		2			2		2	
				KHU 801 - Rural Development: Administration & Planning				**2**			**2**	**2**		**2**			**2**		**2**	
67	KOE 083	VIII	CO-1	Describe the concept and role of Entrepreneurship, Industrial Growth and Entrepreneurship Ecosystem	K3	2								2						
			CO-2	Demonstrate stage of Entrepreneurship Project and Functions Associated with Each Stage	K2	1	2		2	2	1			2					1	
			CO-3	Articulate an Entrepreneurial Project Proposal.	K2	1	1				1			2	2	2	1			
			CO-4	Carry out Project Planning, Monitoring and Control.	K3	1					1						1			
			CO-5	Assess the Project on Various Viability/Feasibility Aspects.	K1	1					2			2	1		1			
				KOE 083 - Entrepreneurship Devlopment		**1.2**	**1.5**		**2**	**2**	**1.25**			**2**	**1.5**	**2**	**1**		**1**	
68	KOE 094	VIII	CO-1	Explain the Evolution and Landscape of Digital Marketing.	K3	1	2	2	3	3	2					2	2	2	2	3
			CO-2	Analyze the Social Media Marketing Strategy for Consumer Engage	K2	3	3	2	3	3	3					2	2	2	2	3
			CO-3	Interpret the concepts of various Digital Promotion Strategies	K2	3	3	2	3	3	2					2	2	2	2	3
			CO-4	Evaluate the CRM and web analytics techniques	K3	3	3	2	3	3	3					2	2	2	2	3
			CO-5	Use social media analytics and integrative media strategie	K1	3	3	2	3	3	3					2	2	2	2	3
				KOE 094 - Digital & Social Media Marketing		**2.6**	**2.8**	**2**	**3**	**3**	**2.6**					**2**	**2**	**2**	**2**	**3**

Meerut Institute of Engineering and Technology, Meerut

Statements of Course Outcomes (COs) and Mapping with Program Outcomes (POs) and Program Specific Outcomes (PSOs) : Dept. of CSE: 2019-23
(Batch passed-out in 2023; 2019-23) BKL # K1 – Remember, K2 – Understand, K3 – Apply, K4 – Analyze, K5 – Evaluate, K6 – Create

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69	KCS 851	VIII	CO-1	Suggest a product,research or application based project. It should	K2	3				2	3			3	2	2	2	2	2	2
			CO-2	Identify and summarize the related work done earlier, analyse prev	K3	3	3								2	2			1	2
			CO-3	Design and implement a project on through analysis and	K2	3	3	2		3				3	2	2		2	3	3
			CO-4	Present the project outlining, approach and expected results	K1	3	3	2	2	3					2			1	3	2
			CO-5	Manage record and compile work done throughout the project.	K2	3								1	2				3	2
				KCS 851 - PROJECT		3	3	2	2	6666	3			2.3	2	2	2	6666	2.4	2.2
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Meerut Institute of Engineering and Technology, Meerut

Statements of Course Outcomes (COs) and Mapping with Program Outcomes (POs) and Program Specific Outcomes (PSOs) : Dept. of CSE: 2019-23
(Batch passed-out in 2023; 2019-23) BKL # K1 – Remember, K2 – Understand, K3 – Apply, K4 – Analyze, K5 – Evaluate, K6 – Create

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77																				
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81																				

Meerut Institute of Engineering and Technology, Meerut

Statements of Course Outcomes (COs) and Mapping with Program Outcomes (POs) and Program Specific Outcomes (PSOs) : Dept. of CSE: 2019-23
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82																				
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87																				

Meerut Institute of Engineering and Technology, Meerut

Statements of Course Outcomes (COs) and Mapping with Program Outcomes (POs) and Program Specific Outcomes (PSOs) : Dept. of CSE: 2019-23
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88																				