

I.T.S Engineering College, Greater Noida

Department of Mechanical Engineering

BATCH: 2019-23

Subject CO Average

S.No	Subject Name	CO_Average
1	PROGRAMMING FOR PROBLEM SOLVING (KCS101/KCS201)	2.74
2	BASIC ELECTRICAL ENGINEERING (KEE-101/201)	2.70
3	MATHEMATICS-I (KAS103)	2.59
4	ENGINEERING PHYSICS (KAS101/KAS201)	2.76
5	WORKSHOP PRACTICE (KWS 101/KWS201)	2.70
6	ENGINEERING CHEMISTRY (KAS102T/202T)	2.80
7	MATHEMATICS-II (KAS203)	2.76
8	PROGRAMMING FOR PROBLEM SOLVING LAB (KCS151/KCS251)	2.70
9	ENGINEERING PHYSICS LAB (KAS151/KAS251)	3.00
10	ENGINEERING CHEMISTRY LAB (KAS152P/252P)	3.00
11	BASIC ELECTRICAL ENGINEERING LAB(KEE-151/251)	2.70
12	Thermodynamics (KME-301)	1.61
13	Fluid Mechanics & Fluid Machines (KME-302)	1.41
14	Materials Engineering (KME-303)	1.02
15	TECHNICAL COMMUNICATION (KAS-301)	1.34
16	COMPUTER SYSTEM SECURITY (KNC-301)	1.89
17	Electronics Engineering (KOE-038)	1.64
18	Fluid Mechanics Lab (KME-351)	3.00
19	Material Testing Lab (KME-352)	2.80
20	Computer Aided Machine Drawing -I Lab (KME-352)	2.80
21	MINI PROJECT OR INTERNSHIP ASSESSMENT (KME-354)	3.00
22	Applied Thermodynamics (KME-401)	2.82
23	Engineering Mechanics (KME-402)	2.98
24	Manufacturing Processes (KME-403)	2.98
25	MATHEMATICS-IV (KAS-402)	2.23
26	UNIVERSAL HUMAN VALUES (KVE-401)	2.84
27	PYTHON PROGRAMMING (KNC-402)	2.66
28	Applied Thermodynamics Lab (KME-451)	3.00
29	Manufacturing Processes Lab (KME-452)	2.80
30	Computer Aided Machine Drawing-II Lab (KME-453)	3.00
31	Heat and Mass Transfer (KME-501)	1.87
32	Strength of Material (KME-502)	0.59
33	Industrial Engineering (KME-503)	0.80
34	CONSTITUTION OF INDIA, LAW AND ENGINEERING (KNC501)	1.94
35	Computer Integrated Manufacturing (KME051)	0.62
36	Advance Welding (KME-055)	1.20
37	Heat Transfer Lab (KME-551)	2.80
38	Python Lab (KME-552)	3.00
39	IoT Lab (KME-553)	3.00
40	MINI PROJECT (KME554)	3.00
41	Refrigeration and Air Conditioning (KME-601)	2.06
42	Machine Design (KME-602)	1.73
43	Theory of Machine (KME-603)	1.20
44	Non Destructive Testing (KME-061)	1.78

45	INDIAN TRADITION CULTURE & SOCIETY(KNC-602)	2.24
46	Computer Based Numerical Techniques (KOE-065)	1.47
47	Refrigeration and Air Conditioning Lab (KME 651)	3.00
48	Machine Design Lab (KME 652)	3.00
49	Theory of Machine Lab (KME 653)	3.00
50	PROJECT MANAGEMENT AND ENTREPRENEURSHIP(KHU702)	0.96
51	Additive Manufacturing (KME-071)	0.62
52	Mathematical modelling of manufacturing processes (KME-073)	0.13
53	RENEWABLE ENERGY RESOURCES (KOE-074)	0.62
54	Measurment and Metrology Lab (KME-751)	2.60
55	MINI PROJECT OR INTERNSHIP ASSESSMENT(KME-752)	2.60
56	PROJECT(KME-753)	2.60
57	RURAL DEVELOPMENT: ADMINISTRATION & PLANNING (KHU-801)	0.33
58	Quality Management (KOE085)	1.23
59	Automation and Robotics (KOE091)	0.57
60	PROJECT II(KME-851)	2.60
AVERAGE		2.16

(Signature)

I.T.S Engineering College, Greater Noida

Department of Mechanical Engineering

BATCH: 2019-23

1 Programming for Problem Solving (KCS101/KCS201)

CO-PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	1			2			1	1			1	2	1
CO2	1	2			1			1	1			1	2	1
CO3	1	2		1	2			2	1			1	1	2
CO4	1	2		1	2			2	1			2	2	1
CO5	1	3		2	2			2	1			2	2	1
AVG	1.2	2	-	1.333333	1.8	-	-	1.4	1	-	-	1.4	1.8	1.2

2 Basic Electrical Engineering (KEE-101/201)

CO-PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3										2	2	1
CO2	3	2		1								1	2	3
CO3	2											1	3	1
CO4	2			1								1	1	2
CO5	3			2								1	2	1
AVG	2.6	2.5	-	1.333333	-	-	-	-	-	-	-	1.2	2	1.6

3 MATHEMATICS-I (KAS103)

CO-PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	2										2	2	2
CO2	3	2										2	1	2
CO3	3	2										2	2	3
CO4	3	2										2	2	2
CO5	3	2										2	1	1
AVG	3	2	-	-	-	-	-	-	-	-	-	2	1.6	2

4 ENGINEERING PHYSICS (KAS101/KAS201)

CO-PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	2	1	-	-	-	-	-	-	-	-	1	1	2
CO2	3	2	1	1	-	-	-	-	-	-	-	1	2	
CO3	3	3	1	-	-	-	-	-	-	-	-	1	1	1
CO4	3	3	2	1	-	-	-	-	-	-	-	1	2	2
CO5	3	3	3	2	-	-	-	-	-	-	-	1	2	1
AVG	3	2.6	1.6	1.333333	-	-	-	-	-	-	-	1	1.6	1.5

5 Workshop Practice, (KWS 101/KWS201)

CO-PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	2	-	1	-	-	-	-	-	-	-	1		
CO2	3	1	-	1	-	-	-	-	-	-	-	1		
CO3	2	2	-	1	-	-	-	-	-	-	-	1		

CO4	3	1	-	2	-	-	-	-	-	-	-	1		
CO5	3	1	-	1	-	-	-	-	-	-	-	1		
AVG	2.8	1.4	-	1.2	-	-	-	-	-	-	-	1		

6 **Engineering Chemistry (KAS102T/202T)**

CO-PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	2	-	-	-	-	-	-	-	-	-	-	1	1
CO2	2	-	-	-	-	-	-	-	-	-	-	1	1	1
CO3	3	-	-	-	-	-	-	-	-	-	-	2	1	1
CO4	3	-	3	-	2	-	2	-	-	-	-	2	1	1
CO5	3	2	-	-	-	-	2	-	-	-	-	2	1	1
AVG	2.8	2	3	-	2	-	2	-	-	-	-	2	1	1

7 **MATHEMATICS-II (KAS203)**

CO-PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	2	-	-	-	-	-	-	-	-	-	-	2	2
CO2	3	2	-	-	-	-	-	-	-	-	-	2	2	2
CO3	3	2	-	-	-	-	-	-	-	-	-	2	2	3
CO4	3	2	-	-	-	-	-	-	-	-	-	2	2	1
CO5	3	2	-	-	-	-	-	-	-	-	-	2	1	2
AVG	3	2	-	-	-	-	-	-	-	-	-	2	2	3

8 **Programming for Problem Solving Lab (KCS151/KCS251)**

CO-PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	2	-	-	1	-	-	3	1	-	-	2	2	-
CO2	3	2	-	-	1	-	-	3	1	-	-	2	2	-
CO3	3	2	-	2	1	-	-	3	1	-	-	2	2	2
CO4	3	2	-	2	1	-	-	3	1	-	-	2	2	2
CO5	3	2	-	-	1	-	-	3	1	-	-	2	2	-
AVG	3	2	-	2	1	-	-	3	1	-	-	3	2	-

9 **ENGINEERING PHYSICS LAB (KAS151/KAS251)**

CO-PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	1	-	-	-	-	-	-	-	-	-	-	1	2
CO2	1	-	-	-	-	-	-	-	-	-	-	1	2	2
CO3	2	-	-	-	-	-	-	-	-	-	-	1	3	1
CO4	-	-	-	-	-	-	-	-	-	-	-	1	2	2
CO5	-	-	-	-	-	-	-	-	-	-	-	1	2	2
AVG	1.666667	1	-	-	-	-	-	-	-	-	-	1	2	1

10 **Engineering Chemistry Lab (KAS152P/252P)**

CO-PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	-	-	-	-	-	-	-	-	-	-	-	-	-
CO2	2	2	-	-	-	-	-	-	-	-	-	-	-	-
CO3	2	2	-	-	-	-	3	-	-	-	-	1	-	-
CO4	2	-	-	-	-	-	-	-	-	-	-	1	-	-

W

AVG	2	2	-	-	-	-	3	-	-	-	-	1	-	-
11 Basic Electrical Engineering Lab(KEE-151/251)														
CO-PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3										2	1	2
CO2	3	3		1								2	2	
CO3	2												2	2
CO4	2	1											2	2
CO5	3	1		1								3	3	1
AVG	2.6	2	-	1	-	-	-	-	-	-	-	2.5	2	1.75

12 Thermodynamics (KME-301)														
CO-PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	2	2	2							1	1	1	2
CO2	2	3	2	1							1	1	1	2
CO3	2	2	1	2							1	1	1	2
CO4	2	2	2	2							1	1	1	2
CO5	2	2	2	2							1	1	1	2
AVG	2.00	2.20	1.80	1.80	-	-	-	-	-	-	1.00	1.00	1.00	2.00

13 Fluid Mechanics & Fluid Machines (KME-302)														
CO-PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	2	1	2							3	2	3	1
CO2	2	2	2	2	1						2	2	2	1
CO3	2	2	2	2	1						2	2	2	1
CO4	2	2	3	2	1						3	3	3	1
CO5	2	2	3	2	1						3	3	3	1
AVG	2.00	2.00	2.20	2.00	1.00	-	-	-	-	-	2.60	2.40	2.60	1.00

14 Materials Engineering (KME-303)														
CO-PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	2	2	2	3						2	2	2	3
CO2	3	2	2	2								2	1	3
CO3	3	2	2	2								2	1	3
CO4	2	1	1	2	2						1	2	1	2
CO5	2	1	1	2	2						1	2	1	2
AVG	2.4	1.6	1.6	2	2.33	-	-	-	-	-	1.33	2	1.2	2.6

15 Technical Communication (KAS-301)														
CO-PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	1	2	1	1	1	3	2	2	2	3	1	2		
CO2	2	2	1	1	1	2	2	2	1	3	1	2		
CO3	2	1	2	1	1	3	1	2	2	3	1	2		
CO4	2	1	2	1	2	1	1	2	1	3	1	2		
CO5	1	1	1	1	1	2	1	2	1	3	2	2		

AVG	1.6	1.4	1.4	1	1.2	2.2	1.4	2	1.4	3	1.2	2	-	-
-----	-----	-----	-----	---	-----	-----	-----	---	-----	---	-----	---	---	---

16 Computer System Security (KNC-301)

CO-PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1					2				1		2	2		
CO2			2	1	1				1		2	2		
CO3				3					1		2	2		
CO4	1				3				1		2	2		
CO5			2	2		1			1	1	2	2		
AVG	1	-	2	2	2	1	-	-	1	1	2	2	-	-

17 Electronics Engineering (KOE-038)

CO-PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	1	1											
CO2	2	2	2	2	2						2	2		
CO3	2	2	3	2							2	2		
CO4	1	1	3	2	2						2	2		
CO5	1	1	2	2							2	2		
AVG	1.6	1.4	2.2	2	2	-	-	-	-	-	2	2	-	-

18 Fluid Mechanics Lab (KME-351)

CO-PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	2	1	2							3	2	3	1
CO2	2	2	2	2	1						2	2	2	1
CO3	2	2	2	2	1						2	2	2	1
CO4	2	2	3	2	1						3	3	3	1
CO5	2	2	3	2	1						3	3	3	1
AVG	2.00	2.00	2.20	2.00	1.00	-	-	-	-	-	2.60	2.40	2.60	1.00

19 Material Testing Lab (KME-352)

CO-PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	2	2	2								2	1	3
CO2	3	2	2	2								2	1	3
CO3	2	1	1	2	2						1	2	1	2
CO4	2	1	1	2	2						1	2	1	2
AVG	2.5	1.5	1.5	2	2	-	-	-	-	-	1	2	1	2.5

20 Computer Aided Machine Drawing -I Lab (KME-352)

CO-PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	1	2	1	3						1	2		
CO2	2	2	3	1	1						1	2		
CO3	2	2	3	1	1						1	2		
CO4	2	2	3	1	2						1	2		
CO5	2	2	3	1	2						1	2		
AVG	2	1.8	2.8	1	1.8	-	-	-	-	-	1	2		

W

21 **Mini Project or Internship Assessment (KME-354)**

CO-PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3		3		2	2			3	3	3	3	2	2
CO2	3	2								3	2	2	2	2
CO3	3	2							3	3		3	2	2
CO4										3	3	3	2	2
AVG	3	2	3	-	2	2	-	-	3	3	2.67	2.75	2	2

22 **Applied Thermodynamics (KME-401)**

CO-PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	2	1	1							2	1	1	3
CO2	2	2	1	1							2	1	1	3
CO3	2	2	1	1							2	1	1	3
CO4	2	2	1	1							2	1	1	3
CO5	2	2	1	1							2	1	1	3
AVG	2	2	1	1							2	1	1.00	3

23 **Engineering Mechanics (KME-402)**

CO-PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	2	2	2	1						1	1	3	1
CO2	2	2	2	2	1						1	1	3	1
CO3	1	2	1	1									1	1
CO4	2	2	2	2	1						1	1	3	1
CO5	2	2	2	2	1						1	1	3	1
AVG	1.8	2	1.8	1.8	1	-	-	-	-	-	1	1	3	1

24 **Manufacturing Processes (KME-403)**

CO-PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	2	2	2	2						2	2	1	3
CO2	2	2	2	2	2						2	2	1	3
CO3	2	2	3	2	1						2	2	2	2
CO4	2	2	3	2	1						2	2	2	2
CO5	2	2	3	2	1						2	2	2	2
AVG	2	2	2.6	2	1.40	-	-	-	-	-	2	2	1.6	2.4

25 **Mathematics-IV (KAS-402)**

CO-PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	2		2										2
CO2	3	3		2										2
CO3	3	3												
CO4	1	3		3										2
CO5	3	3		3										3
AVG	2.4	2.8		2.5	-	-	-	-	-	-	-	-	-	2.25

26 **Universal Human Values (KVE-401)**

(H)

CO-PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1						3	2	2	3			3		
CO2						3	2	2	3			3		
CO3						2	3	2	2			3		
CO4						3	3	3	2			3		
CO5						3	3	3	2			3		
AVG	-	-	-	-	-	2.8	2.6	2.4	2.4	-	-	3	-	-

27 Python Programming (KNC-402)

CO-PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3		3	1	2									
CO2	3		3	1	2									
CO3	3		3	1	2									
CO4	3		3	1	2									
CO5	3		3	1	2									
AVG	3	-	3	1	2	-	-	-	-	-	-	-		

28 Applied Thermodynamics Lab (KME-451)

CO-PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	2	1	1							2	1	1	3
CO2	2	2	1	1							2	1	1	3
CO3	2	2	1	1							2	1	1	3
CO4	2	2	1	1							2	1	1	3
CO5	2	2	1	1							2	1	1	3
AVG	2	2	1	1		-	-	-	-	-	2	1	1.00	3

29 Manufacturing Processes Lab (KME-452)

CO-PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	2	2	2	2						2	2	1	3
CO2	2	2	2	2	2						2	2	1	3
CO3	2	2	3	2	1						2	2	2	2
CO4	2	2	3	2	1						2	2	2	2
CO5	2	2	3	2	1						2	2	2	2
AVG	2	2	2.6	2	1.40	-	-	-	-	-	2	2	1.6	2.4

30 Computer Aided Machine Drawing-II Lab (KME-453)

CO-PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	1	2	1	3						1	2		
CO2	2	2	3	1	1						1	2		
CO3	2	2	3	1	1						1	2		
CO4	2	2	3	1	2						1	2		
CO5	2	2	3	1	2						1	2		
AVG	2	1.8	2.8	1	1.8	-	-	-	-	-	1	2		

31 Heat and Mass Transfer (KME-501)

W

CO-PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	2	2	2								2	1	2
CO2	2	2	2	2								2	1	2
CO3	2	2	2	2								2	1	2
CO4	2	2	2	2								2	1	2
CO5	2	2	2	2								2	1	2
AVG	2	2	2	2	-	-	-	-	-	-	-	2	1	2

32 Strength of Material (KME-502)

CO-PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	2	2	3	2						1	2	3	1
CO2	3	2	2	3	2						1	2	3	1
CO3	3	2	2	3	2						1	2	3	1
CO4	3	2	2	3	2						2	2	3	1
CO5	3	2	2	3	2						2	2	3	1
AVG	3	2	2	3	2		-	-	-	-	1.4	2	3	1

33 Industrial Engineering (KME-503)

CO-PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	1		2	2	1	1	2	2	2	2	2		
CO2	3	1		2	2	1	1	2	2	2	2	2		
CO3	3	1		2	2	1	1	2	2	2	2	2		
CO4	3	1		2	2	1	1	2	2	2	2	2		
CO5	3	1		2	2	1	1	2	2	2	2	2		
AVG	3	1		2	2	1	1	2	2	2	2	2		

34 CONSTITUTION OF INDIA, LAW AND ENGINEERING (KNC501)

CO-PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1					1	2	1	2	1					
CO2						1		2	2					
CO3			1		1	2	2	2	2	1	1			
CO4			1		1	2	2	2	2	1			1	
CO5			1			2	2	2	3	2	1	1		
AVG	-	-	1	-	1	1.8	1.75	2	2	1.33	1	1	1	-

35 Computer Integrated Manufacturing (KME051)

CO-PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	3	3	1	3						2	2	3	2
CO2	2	3	3	1	3						2	2	3	2
CO3	2	3	3	1	3						2	2	3	2
CO4	2	3	3	1	3						2	2	3	2
CO5	2	1	2	1	2						1	1	2	1
AVG	2	2.6	2.8	1	2.8		-	-	-	-	1.8	1.8	2.8	1.8

36 Advance Welding (KME-055)

W

CO-PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	1	2	2	2						3	3	2	2
CO2	3	1	2	2	2						3	3	2	2
CO3	3	1	2	2	2						3	3	2	2
CO4	2	1	2	2	2						3	3	2	2
CO5	2	1	2	2	2						3	3	2	2
AVG	2.6	1	2	2	2	-	-	-	-	-	3	3	2	2

37 Heat Transfer Lab (KME-551)

CO-PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	2	2	2								2	1	2
CO2	2	2	2	2								2	1	2
CO3	2	2	2	2								2	1	2
CO4	2	2	2	2								2	1	2
CO5	2	2	2	2								2	1	2
AVG	2	2	2	2		-	-	-	-	-	-	2	1	2

38 Python Lab (KME-552)

CO-PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	1	1	1	3				2			2		
CO2	2	2	1	1	3				1			2		
CO3	1	2	3	2	3				3			2		
CO4	1	2	3	3	3				1			2		
CO5	1	2	3	1	2				2			2		
AVG	1.4	1.8	2.2	1.6	2.8	-	-	-	1.8	-	-	2		

39 IoT Lab (KME-553)

CO-PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	1	2	2	1				1	3		2		
CO2	2	2	3	3					3		3	3		
CO3	2	3	3	3	3				1	2	3	2		
CO4	3	3	2	3					2	3		2		
CO5	2	2	2	1	3				2	2		2		
AVG	2.4	2.2	2.4	2.4	2.33			-	1.8	2.5	3	2.2		

40 Mini Project (KME554) Y

CO-PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3		3		2	2			3	3	3	3	2	2
CO2	3	2								3	2	2	2	2
CO3	3	2							3	3		3	2	2
CO4										3	3	3	2	2
AVG	3	2	3	-	2	2	-	-	3	3	2.67	2.75	2	2

41 Refrigeration and Air Conditioning (KME-601)

CO-PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
-------	-----	-----	-----	-----	-----	-----	-----	-----	-----	------	------	------	------	------

W

CO1	3	3	2	2	1		2				2	3	2	3
CO2	3	3	2	2	1		2				2	3	2	3
CO3	3	3	2	2	1		2				2	3	2	3
CO4	3	3	2	2	1		2				2	3	2	3
CO5	3	2	3	3	2		2				1	2	2	3
AVG	3	2.8	2.2	2.2	1.2	-	2				1.8	2.8	2	3

42 Machine Design (KME-602)

CO-PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	2	3	2							2	2	1	1
CO2	3	2	3	2							2	2	1	1
CO3	3	2	3	2							2	2	1	1
CO4	3	2	3	2							2	2	1	1
CO5	3	2	3	2							2	2	1	1
AVG	3	2	3	2		-		-			2	2	1	1

43 Theory of Machine (KME-603)

CO-PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	2	2	3							2	2		
CO2	3	2	2	2							2	2		
CO3	3	3	2	2							2	2	3	1
CO4	3	3	3	3							2	2	3	1
CO5	3	3	3	2							2	2	3	1
AVG	2.8	2.6	2.4	2.4							2	2	3	1

44 Non Destructive Testing (KME-061)

CO-PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	3	2	2	3						3	2	2	3
CO2	2	3	2	2	3						3	2	2	3
CO3	2	3	2	2	3						3	2	2	3
CO4	2	3	2	2	3						3	2	2	3
CO5	2	3	2	2	3						3	2	2	3
AVG	2	3	2	2	3			-			3	2	2	3

45 Indian Tradition Culture & Society (KNC-602)

CO-PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1						2	3	3	2	2		2		
CO2						1	2	2	2	1		2		
CO3						1	2	2	2	3		2		
CO4						1	1	1	1	2		2		
CO5						2	2	2	2	2		2		
AVG						1.4	2	2	1.8	2	-	2	-	-

46 Computer Based Numerical Techniques (KOE-065)

CO-PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
-------	-----	-----	-----	-----	-----	-----	-----	-----	-----	------	------	------	------	------

CO1	2	2	2	2	2										1		
CO2	2	2	3	2	1										1		
CO3	2	2	3	1	2										1		
CO4	2	2	3	2	2										2		
CO5	2	2	3	2	1										2		
AVG	2	2	2.8	1.8	1.6	-	-	-	-	-	-	-	-	-	1.4		

47 Refrigeration and Air Conditioning Lab (KME 651)

CO-PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	2	2	1		2				2	3	2	3
CO2	3	3	2	2	1		2				2	3	2	3
CO3	3	3	2	2	1		2				2	3	2	3
CO4	3	3	2	2	1		2				2	3	2	3
CO5	3	2	3	3	2		2				1	2	2	3
AVG	3	2.8	2.2	2.2	1.2	-	2		-		1.8	2.8	2	3

48 Machine Design Lab (KME 652)

CO-PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	2	3	2							2	2	1	1
CO2	3	2	3	2							2	2	1	1
CO3	3	2	3	2							2	2	1	1
CO4	3	2	3	2							2	2	1	1
CO5	3	2	3	2							2	2	1	1
AVG	3	2	3	2		-		-			2	2	1	1

49 Theory of Machine Lab (KME 653)

CO-PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	2	2	3							2	2		
CO2	3	2	2	2							2	2		
CO3	3	3	2	2							2	2	3	1
CO4	3	3	3	3							2	2	3	1
CO5	3	3	3	2							2	2	3	1
AVG	2.8	2.6	2.4	2.4			-		-		2	2	3	1

50 Project Management and Entrepreneurship (KHU702)

CO-PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1						2	2	3	3	2	3	3		
CO2		1				2	1	3	3	2	3	3		
CO3						2	2	3	3	2	3	3		
CO4		1				2		3	3	2	3	3		
CO5						2		3	3	2	3	3		
AVG	-	1	-	-	-	2	1.66	3	3	2	3	3	-	-

51 Additive Manufacturing (KME-071)

CO-PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
-------	-----	-----	-----	-----	-----	-----	-----	-----	-----	------	------	------	------	------

CO1	2	3		3	3						1	2	2	2
CO2	3	2	2	3	2						3	2	2	2
CO3	2	3	3	3	3						3	2	2	2
CO4	2	3	2	3	2						3	2	2	3
CO5	3	2			3						3	2	2	2
AVG	2.4	2.6	2.3	3.0	2.6						2.6	2	2	2.2

52 **Mathematical modelling of manufacturing processes (KME-073)**

CO-PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	3	3	3						3	3	2	3
CO2	2	2	2	2	2						2	2	2	2
CO3	1	1	2	2	2						2	2	3	3
CO4	3	3	3		3						3	3	2	3
CO5	2	2	2		3						2	2	2	3
AVG	2.2	2.2	2.4	2.33	2.6						2.4	2.40	2.2	2.8

53 **Renewable energy resources (KOE-074)**

CO-PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	3	2		1	2	3				2	2		2
CO2	2	3	2		1	2	3				2	2		2
CO3	2	3	2		1	2	3				2	2		2
CO4	2	3	2		1	2	3				2	2		2
CO5	2	3	2		1	2	3				2	2		2
AVG	2	3	2		1	2	3				2	2		2

54 **Measurement and Metrology Lab (KME 751)**

CO-PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	1	2	2	3							2		1
CO2	2	1	2	2	3							2		1
CO3	2	1	2	2	3							2		1
CO4	2	1	2	2	3							2		1
CO5	2	1	2	2	3							2		1
AVG	2	1	2	2	3							2		3

55 **Mini Project or Internship Assessment(KME 752)**

CO-PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	2	3	3	2	3	3	3	3	3	2	3	3	3
CO2	3	2	3	3	2	3	3	3	3	3	2	3	3	3
CO3	3	2	3	3	2	3	3	3	3	3	2	3	3	3
CO4	3	2	3	3	2	3	3	3	3	3	2	3	3	3
CO5	3	2	3	3	2	3	3	3	3	3	2	3	3	3
AVG	3	2	3	3	2	3	3	3	3	3	2	3	3	3

56 **Project (KME 753)**

CO-PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
-------	-----	-----	-----	-----	-----	-----	-----	-----	-----	------	------	------	------	------

2

CO1	3	3	2	2				2	3	3		3	3	3
CO2	3	3	3	3	3	2	2	2	3	3	3	3	3	3
CO3	3	3	3	3	3		2	2	3	3		3	2	3
CO4	3	3	3	3	3	3	3		3	3	2	3	3	2
AVG	3	3	2.75	2.75	3	2.5	2.33	2	3	3	2.5	3	2.75	2.75

57 Rural Development: Administration & Planning (KHU-801)

CO-PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	1	2			2	1	1	1	3	2	1	2		
CO2	3	3	2		2	1	1	1	3	2	1	2		
CO3				3			2	2	3		3	2		
CO4	1					2	3		2			2		
CO5			2		3	2						2		
AVG	1.66	2.5	2	3	2.33	1.5	1.75	1.33	2.75	2	1.66	2	-	-

58 Quality Management (KOE085)

CO-PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2			1		3	2	2	2	2	2	3		
CO2	1	2	2	2	1		1	1	2	1	3	3		
CO3	2			1	3	3	2	2	2	2	2	3		
CO4	1	3	2	2	2	1	2	2	2	2	3	3		
CO5	2			1	2	3	2	2	2	2	2	3		
AVG	1.6	2.5	2	1.4	2	2.5	1.8	1.8	2	1.8	2.4	3	-	-

59 Automation and Robotics (KOE091)

CO-PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	1	1	3	3				3		2	3	3
CO2	2	3	2	1	3	3				3		2	3	3
CO3	2	3	2	1	3	3				2	1	1	2	3
CO4	2	2	3	2	3	3					3	2	2	1
CO5	2	3	3	3	3	2				2	2	2	1	2
AVG	2.2	2.8	2.2	1.6	3	2.8	-	-	-	2.5	2	1.8	2.2	2.4

60 Project II (KME 851)

CO-PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	2	2				2	3	3		3	3	3
CO2	3	3	3	3	3	2	2	2	3	3	3	3	3	3
CO3	3	3	3	3	3		2	2	3	3		3	2	3
CO4	3	3	3	3	3	3	3		3	3	2	3	3	2
CO5	3	3	3	3	3	3	3		3	3	2	3	3	2
CO6	3	3	3	3	3	3	3		3	3	2	3	3	2
AVG	3.00	3.00	3.00	3.00	3.00	2.75	2.60	2.00	3.00	3.00	2.25	3.00	2.83	2.50

I.T.S Engineering College, Greater Noida

Department of Mechanical Engineering

BATCH: 2019-23

ARTICULATION MATRIX_Batch_2019-23

S.No	Subject Name	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	ATT of CO	% Of Att of Co
1	PROGRAMMING FOR PROBLEM SOLVING (KCS101/KCS201)	1.20	2.00		1.33	1.80			1.40	1.00			1.40	2.74	0.91
2	BASIC ELECTRICAL ENGINEERING (KEE-101/201)	2.60	2.50		1.33								1.20	2.7	0.90
3	MATHEMATICS-I (KAS103)	3.00	2.00										2.00	2.59	0.86
4	ENGINEERING PHYSICS (KAS101/KAS201)	3.00	2.60	1.60	1.33								1.00	2.76	0.92
5	WORKSHOP PRACTICE, (KWS 101/KWS201)	2.80	1.40		1.20								1.00	2.7	0.90
6	ENGINEERING CHEMISTRY (KAS102T/202T)	2.80	2.00	3.00		2.00		2.00					1.60	2.8	0.93
7	MATHEMATICS-II (KAS203)	3.00	2.00										2.00	2.76	0.92
8	PROGRAMMING FOR PROBLEM SOLVING LAB (KCS151/KCS251)	3.00	2.00		2.00	1.00			3.00	1.00			2.20	2.7	0.90
9	ENGINEERING PHYSICS LAB (KAS151/KAS251)	1.67	1.00										1.00	3	1.00
10	ENGINEERING CHEMISTRY LAB (KAS152P/252P)	2.00	2.00					3.00					1.00	3	1.00
11	BASIC ELECTRICAL ENGINEERING LAB(KEE-151/251)	2.60	2.00		1.00								2.50	2.7	0.90
12	Thermodynamics (KME-301)	2.00	2.20	1.80	1.80							1.00	1.00	1.61	0.54
13	Fluid Mechanics & Fluid Machines (KME-302)	2.00	2.00	2.20	2.00	1.00						2.60	2.40	1.41	0.47
14	Materials Engineering (KME-303)	2.40	1.60	1.60	2.00	2.33						1.33	2.00	1.02	0.34
15	TECHNICAL COMMUNICATION (KAS-301)	1.60	1.40	1.40	1.00	1.20	2.20	1.40	2.00	1.40	3.00	1.20	2.00	1.34	0.45
16	COMPUTER SYSTEM SECURITY (KNC-301)	1.00		2.00	2.00	2.00	1.00			1.00	1.00	2.00	2.00	1.89	0.63
17	Electronics Engineering (KOE-038)	1.60	1.40	2.20	2.00	2.00						2.00	2.00	1.64	0.55
18	Fluid Mechanics Lab (KME-351)	2.00	2.00	2.20	2.00	1.00						2.60	2.40	3	1.00
19	Material Testing Lab (KME-352)	2.50	1.50	1.50	2.00	2.00						1.00	2.00	2.8	0.93
20	Computer Aided Machine Drawing -I Lab (KME-352)	2.00	1.80	2.80	1.00	1.80						1.00	2.00	2.8	0.93
21	MINI PROJECT OR INTERNSHIP ASSESSMENT (KME-354)	3.00	2.00	3.00		2.00	2.00			3.00	3.00	2.67	2.75	3	1.00
22	Applied Thermodynamics (KME-401)	2.00	2.00	1.00	1.00							2.00	1.00	2.82	0.94
23	Engineering Mechanics (KME-402)	1.80	2.00	1.80	1.80	1.00						1.00	1.00	2.98	0.99
24	Manufacturing Processes (KME-403)	2.00	2.00	2.60	2.00	1.40						2.00	2.00	2.98	0.99
25	MATHEMATICS-IV (KAS-402)	2.40	2.80		2.50									2.23	0.74
26	UNIVERSAL HUMAN VALUES (KVE-401)						2.80	2.60	2.40	2.40			3.00	2.84	0.95
27	PYTHON PROGRAMMING (KNC-402)	3.00		3.00	1.00	2.00								2.66	0.89
28	Applied Thermodynamics Lab (KME-451)	2.00	2.00	1.00	1.00							2.00	1.00	3	1.00
29	Manufacturing Processes Lab (KME-452)	2.00	2.00	2.60	2.00	1.40						2.00	2.00	2.8	0.93
30	Computer Aided Machine Drawing-II Lab (KME-453)	2.00	1.80	2.80	1.00	1.80						1.00	2.00	3	1.00
31	Heat and Mass Transfer (KME-501)	2.00	2.00	2.00	2.00								2.00	1.87	0.62
32	Strength of Material (KME-502)	3.00	2.00	2.00	3.00	2.00						1.40	2.00	0.59	0.20
33	Industrial Engineering (KME-503)	3.00	1.00		2.00	2.00	1.00	1.00	2.00	2.00	2.00	2.00	2.00	0.8	0.27
34	CONSTITUTION OF INDIA, LAW AND ENGINEERING (KNC501)			1.00		1.00	1.80	1.75	2.00	2.00	1.33	1.00	1.00	1.94	0.65
35	Computer Integrated Manufacturing (KME051)	2.00	2.60	2.80	1.00	2.80						1.80	1.80	0.62	0.21
36	Advance Welding (KME-055)	2.60	1.00	2.00	2.00	2.00						3.00	3.00	1.2	0.40
37	Heat Transfer Lab (KME-551)	2.00	2.00	2.00	2.00								2.00	2.8	0.93
38	Python Lab (KME-552)	1.40	1.80	2.20	1.60	2.80				1.80			2.00	3	1.00
39	IoT Lab (KME-553)	2.40	2.20	2.40	2.40	2.33				1.80	2.50	3.00	2.20	3	1.00
40	MINI PROJECT (KME554)	3.00	2.00	3.00		2.00	2.00			3.00	3.00	2.67	2.75	3	1.00
41	Refrigeration and Air Conditioning (KME-601)	3.00	2.80	2.20	2.20	1.20		2.00				1.80	2.80	2.06	0.69
42	Machine Design (KME-602)	3.00	2.00	3.00	2.00							2.00	2.00	1.73	0.58
43	Theory of Machine (KME-603)	2.80	2.60	2.40	2.40							2.00	2.00	1.2	0.40

44	Non Destructive Testing (KME-061)	2.00	3.00	2.00	2.00	3.00						3.00	2.00	1.78	0.59
45	INDIAN TRADITION CULTURE & SOCIETY(KNC-602)						1.40	2.00	2.00	1.80	2.00		2.00	2.24	0.75
46	Computer Based Numerical Techniques (KOE-065)	2.00	2.00	2.80	1.80	1.60							1.40	1.47	0.49
47	Refrigeration and Air Conditioning Lab (KME 651)	3.00	2.80	2.20	2.20	1.20		2.00				1.80	2.80	3	1.00
48	Machine Design Lab (KME 652)	3.00	2.00	3.00	2.00							2.00	2.00	3	1.00
49	Theory of Machine Lab (KME 653)	2.80	2.60	2.40	2.40							2.00	2.00	3	1.00
50	PROJECT MANAGEMENT AND ENTREPRENEURSHIP(KHU702)		1.00				2.00	1.66	3.00	3.00	2.00	3.00	3.00	0.96	0.32
51	Additive Manufacturing (KME-071)	2.40	2.60	2.33	3.00	2.60						2.60	2.00	0.62	0.21
52	Mathematical modelling of manufacturing processes (KME-073)	2.20	2.20	2.40	2.33	2.60						2.40	2.40	0.13	0.04
53	RENEWABLE ENERGY RESOURCES (KOE-074)	2.00	3.00	2.00		1.00	2.00	3.00				2.00	2.00	0.62	0.21
54	Measurment and Metrology Lab (KME-751)	2.00	1.00	2.00	2.00	3.00							2.00	2.6	0.87
55	MINI PROJECT OR INTERNSHIP ASSESSMENT(KME-752)	3.00	2.00	3.00	3.00	2.00	3.00	3.00	3.00	3.00	3.00	2.00	3.00	2.6	0.87
56	PROJECT(KME-753)	3.00	3.00	2.75	2.75	3.00	2.50	2.33	2.00	3.00	3.00	2.50	3.00	2.6	0.87
57	RURAL DEVELOPMENT: ADMINISTRATION & PLANNING (KHU-801)	1.66	2.50	2.00	3.00	2.33	1.50	1.75	1.33	2.75	2.00	1.66	2.00	0.33	0.11
58	Quality Management (KOE085)	1.60	2.50	2.00	1.40	2.00	2.50	1.80	1.80	2.00	1.80	2.40	3.00	1.23	0.41
59	Automation and Robotics (KOE091)	2.20	2.80	2.20	1.60	3.00	2.80				2.50	2.00	1.80	0.57	0.19
60	PROJECT II(KME-851)	3.00	3.00	3.00	3.00	3.00	2.75	2.60	2.00	3.00	3.00	2.25	3.00	2.6	0.87
Average Of PO		2.34	2.07	2.24	1.90	1.95	2.08	2.12	2.15	2.16	2.34	1.99	2.01	2.16	0.72
No. of Not Related Courses		4	5	14	12	21	44	44	47	42	45	20	2		
No. of Related Courses		56	55	46	48	39	16	16	13	18	15	40	58		
Total number of Courses		60	60	60	60	60	60	60	60	60	60	60	60		

Wp

I.T.S Engineering College, Greater Noida

Department of Mechanical Engineering
Attainment of CO-PO BATCH: 2019-23

S.No	Subject Name	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
1	PROGRAMMING FOR PROBLEM SOLVING (KCS101/KCS201)	1.10	1.83		1.22	1.64			1.28	0.91			1.28
2	BASIC ELECTRICAL ENGINEERING (KEE-101/201)	2.34	2.25		1.20								1.08
3	MATHEMATICS-I (KAS103)	2.59	1.73										1.73
4	ENGINEERING PHYSICS (KAS101/KAS201)	2.76	2.39	1.47	1.23								0.92
5	WORKSHOP PRACTICE, (KWS 101/KWS201)	2.52	1.26		1.08								0.90
6	ENGINEERING CHEMISTRY (KAS102T/202T)	2.61	1.87	2.80		1.87		1.87					1.49
7	MATHEMATICS-II (KAS203)	2.76	1.84										1.84
8	PROGRAMMING FOR PROBLEM SOLVING LAB (KCS151/KCS251)	2.70	1.80		1.80	0.90			2.70	0.90			1.98
9	ENGINEERING PHYSICS LAB (KAS151/KAS251)	1.67	1.00										1.00
10	ENGINEERING CHEMISTRY LAB (KAS152P/252P)	2.00	2.00					3.00					1.00
11	BASIC ELECTRICAL ENGINEERING LAB(KEE-151/251)	2.34	1.80		0.90								2.25
12	Thermodynamics (KME-301)	1.07	1.18	0.97	0.97								0.54
13	Fluid Mechanics & Fluid Machines (KME-302)	0.94	0.94	1.03	0.94	0.47						1.22	1.13
14	Materials Engineering (KME-303)	0.82	0.54	0.54	0.68	0.79							0.68
15	TECHNICAL COMMUNICATION (KAS-301)	0.71	0.63	0.63	0.45	0.54	0.98	0.63					0.89
16	COMPUTER SYSTEM SECURITY (KNC-301)	0.63		1.26	1.26	1.26	0.63			0.63	0.63	1.26	1.26
17	Electronics Engineering (KOE-038)	0.87		1.20	1.09	1.09						1.09	1.09
18	Fluid Mechanics Lab (KME-351)	2.00	2.00	2.20	2.00	1.00						2.60	2.40
19	Material Testing Lab (KME-352)	2.33	1.40	1.40	1.87	1.87						0.93	1.87
20	Computer Aided Machine Drawing -I Lab (KME-352)	1.87	1.68	2.61	0.93	1.68						0.93	1.87
21	MINI PROJECT OR INTERNSHIP ASSESSMENT (KME-354)	3.00	2.00	3.00		2.00	2.00			3.00	3.00	2.67	2.75
22	Applied Thermodynamics (KME-401)	1.88	1.88	0.94	0.94							1.88	0.94
23	Engineering Mechanics (KME-402)	1.79	1.99	1.79	1.79	0.99							
24	Manufacturing Processes (KME-403)	1.99	1.99	2.58	1.99	1.39						1.99	1.99
25	MATHEMATICS-IV (KAS-402)	1.78	2.08		1.86								
26	UNIVERSAL HUMAN VALUES (KVE-401)						2.65	2.46	2.27	2.27			2.84
27	PYTHON PROGRAMMING (KNC-402)	2.66		2.66	0.89	1.77							
28	Applied Thermodynamics Lab (KME-451)	2.00	2.00	1.00	1.00								
29	Manufacturing Processes Lab (KME-452)	1.87	1.87	2.43	1.87	1.31						1.87	1.87
30	Computer Aided Machine Drawing-II Lab (KME-453)	2.00	1.80	2.80	1.00	1.80						1.00	2.00
31	Heat and Mass Transfer (KME-501)	1.25	1.25	1.25	1.25								1.25
32	Strength of Material (KME-502)	0.59	0.39	0.39	0.59	0.39						0.28	0.39
33	Industrial Engineering (KME-503)	0.80	0.27		0.53	0.53						0.53	0.53
34	CONSTITUTION OF INDIA, LAW AND ENGINEERING (KNC501)			0.65			1.16	1.13	1.29	1.29	0.86	0.65	0.65
35	Computer Integrated Manufacturing (KME051)	0.41	0.54	0.58	0.21	0.58							0.37
36	Advance Welding (KME-055)	1.04	0.40	0.80	0.80	0.80							
37	Heat Transfer Lab (KME-551)	1.87	1.87	1.87	1.87								
38	Python Lab (KME-552)	1.40	1.80	2.20	1.60	2.80				1.80			
39	IoT Lab (KME-553)	2.40	2.20	2.40	2.40	2.33				1.80	2.50	3.00	2.20
40	MINI PROJECT (KME554)	3.00	2.00	3.00		2.00	2.00			3.00	3.00	2.67	2.75
41	Refrigeration and Air Conditioning (KME-601)	2.06	1.92	1.51		0.82							1.24
42	Machine Design (KME-602)	1.73	1.15	1.73									1.15

43	Theory of Machine (KME-603)	1.12	1.04	0.96	0.96							0.80	
44	Non DeStructive Testing (KME-061)	1.19	1.78	1.19		1.78						1.78	1.19
45	INDIAN TRADITION CULTURE & SOCIETY(KNC-602)						1.05	1.49	1.49	1.34	1.49		
46	Computer Based Numerical Techniques (KOE-065)	0.98	0.98	1.37	0.88	0.78							1.49
47	Refrigeration and Air Conditioning Lab (KME 651)	3.00	2.80	2.20	2.20	1.20						1.80	2.80
48	Machine Design Lab (KME 652)	3.00	2.00	3.00								2.00	2.00
49	Theory of Machine Lab (KME 653)	2.80	2.60	2.40	2.40							2.00	2.00
50	PROJECT MANAGEMENT AND ENTREPRENEURSHIP(KHU702)		0.32				0.64	0.53	0.96	0.96	0.64	0.96	0.96
51	Additive Manufacturing (KME-071)	0.50	0.54	0.48	0.62	0.54						0.54	
52	Mathematical modelling of manufacturing processes (KME-073)	0.10	0.10	0.10	0.10	0.11						0.10	0.10
53	RENEWABLE ENERGY RESOURCES (KOE-074)	0.41	0.62	0.41		0.21	0.41						0.41
54	Measurment and Metrology Lab (KME-751)	1.73	0.87	1.73	1.73	2.60							1.73
55	MINI PROJECT OR INTERNSHIP ASSESSMENT(KME-752)	2.60	1.73	2.60	2.60	1.73	2.60	2.60	2.60	2.60	2.60	1.73	2.60
56	PROJECT(KME-753)	2.60	2.60	2.38	2.38	2.60	2.17	2.02	1.73	2.60	2.60	2.17	2.60
57	RURAL DEVELOPMENT: ADMINISTRATION & PLANNING (KHU-801)	0.18	0.28	0.22	0.33	0.26	0.17	0.19	0.15	0.30		0.18	0.22
58	Quality Management (KOE085)	0.66	1.03	0.82	0.57	0.82	1.03	0.74	0.74	0.82	0.74	0.98	1.23
59	Automation and Robotics (KOE091)	0.42	0.53	0.42	0.30	0.57	0.53				0.48	0.38	0.34
60	PROJECT II(KME-851)	2.60	2.60	2.60	2.60	2.60	2.38	2.25	1.73	2.60	2.60	1.95	2.60
SUM OF PO ATTAINMENT VALUES		96.03	79.92	72.58	55.87	49.08	20.40	18.91	16.95	26.84	21.67	43.80	70.69
PO ATTAINMENT		1.71	1.45	1.58	1.16	1.26	1.27	1.18	1.30	1.49	1.44	1.09	1.22
INDIRECT METHOD													
Programm EXIT SURVAY		2.42	2.27	2.42	2.19	2.38	2.31	2.42	2.27	2.31	2.38	2.38	2.38
Alumni Survey		2.45	2.65	2.50	2.65	2.55	2.45	2.65	2.55	2.55	2.65	2.45	2.45
Average - Indirect		2.44	2.46	2.46	2.42	2.47	2.38	2.54	2.41	2.43	2.52	2.42	2.42
Overall PO Attainment (80%D + 20% I)		1.86	1.65	1.75	1.42	1.50	1.50	1.45	1.52	1.68	1.66	1.36	1.46
PO ATTAINMENT (%)		79.45	79.82	78.21	74.33	76.77	71.98	68.58	70.98	77.58	70.82	68.23	72.65
PO ATTAINMENT LEVEL		3	3	3	3	3	3	3	3	3	3	3	3

[Handwritten signature]

I.T.S Engineering College, Greater Noida
Department of Mechanical Engineering
MAPPING OF PSO BATCH: 2019-23

S.No	Subject Name	PSO1	PSO2	Att of CO	% Of Att of Co
1	PROGRAMMING FOR PROBLEM SOLVING (KCS101/KCS201)	1.8	1.2	2.74	0.91
2	BASIC ELECTRICAL ENGINEERING (KEE-101/201)	2	1.6	2.7	0.90
3	MATHEMATICS-I (KAS103)	1.6	2	2.59	0.86
4	ENGINEERING PHYSICS (KAS101/KAS201)	1.6	1.5	2.76	0.92
5	WORKSHOP PRACTICE, (KWS 101/KWS201)			2.7	0.90
6	ENGINEERING CHEMISTRY (KAS102T/202T)	1	1	2.8	0.93
7	MATHEMATICS-II (KAS203)	1.8	2.2	2.76	0.92
8	PROGRAMMING FOR PROBLEM SOLVING LAB (KCS151/KCS251)	2	2	2.7	0.90
9	ENGINEERING PHYSICS LAB (KAS151/KAS251)	2.25	1.5	3	1.00
10	ENGINEERING CHEMISTRY LAB (KAS152P/252P)			3	1.00
11	BASIC ELECTRICAL ENGINEERING LAB(KEE-151/251)	2	1.75	2.7	0.90
12	Thermodynamics (KME-301)	1.00	2.00	1.61	0.54
13	Fluid Mechanics & Fluid Machines (KME-302)	2.60	1.00	1.41	0.47
14	Materials Engineering (KME-303)	1.20	2.60	1.02	0.34
15	TECHNICAL COMMUNICATION (KAS-301)			1.34	0.45
16	COMPUTER SYSTEM SECURITY (KNC-301)			1.89	0.63
17	Electronics Engineering (KOE-038)			1.64	0.55
18	Fluid Mechanics Lab (KME-351)	2.60	1.00	3	1.00
19	Material Testing Lab (KME-352)	1	2.5	2.8	0.93
20	Computer Aided Machine Drawing -I Lab (KME-352)			2.8	0.93
21	MINI PROJECT OR INTERNSHIP ASSESSMENT (KME-354)	2	2	3	1.00
22	Applied Thermodynamics (KME-401)	1.00	3.00	2.82	0.94
23	Engineering Mechanics (KME-402)	3	1	2.98	0.99
24	Manufacturing Processes (KME-403)	1.6	2.4	2.98	0.99
25	MATHEMATICS-IV (KAS-402)		2.25	2.23	0.74
26	UNIVERSAL HUMAN VALUES (KVE-401)			2.84	0.95
27	PYTHON PROGRAMMING (KNC-402)			2.66	0.89
28	Applied Thermodynamics Lab (KME-451)	1.00	3.00	3	1.00
29	Manufacturing Processes Lab (KME-452)	1.6	2.4	2.8	0.93

30	Computer Aided Machine Drawing-II Lab (KME-453)			3	1.00
31	Heat and Mass Transfer (KME-501)	1	2	1.87	0.62
32	Strength of Material (KME-502)	3	1	0.59	0.20
33	Industrial Engineering (KME-503)			0.8	0.27
34	CONSTITUTION OF INDIA, LAW AND ENGINEERING (KNC501)	1		1.94	0.65
35	Computer Integrated Manufacturing (KME051)	2.80	1.80	0.62	0.21
36	Advance Welding (KME-055)	2.00	2.00	1.2	0.40
37	Heat Transfer Lab (KME-551)	1	2	2.8	0.93
38	Python Lab (KME-552)			3	1.00
39	IoT Lab (KME-553)			3	1.00
40	MINI PROJECT (KME554)	2	2	3	1.00
41	Refrigeration and Air Conditioning (KME-601)	2	3	2.06	0.69
42	Machine Design (KME-602)	1	1	1.73	0.58
43	Theory of Machine (KME-603)	3	1	1.2	0.40
44	Non Destructive Testing (KME-061)	2	3	1.78	0.59
45	INDIAN TRADITION CULTURE & SOCIETY(KNC-602)			2.24	0.75
46	Computer Based Numerical Techniques (KOE-065)			1.47	0.49
47	Refrigeration and Air Conditioning Lab (KME 651)	2	3	3	1.00
48	Machine Design Lab (KME 652)	1	1	3	1.00
49	Theory of Machine Lab (KME 653)	3	1	3	1.00
50	PROJECT MANAGEMENT AND ENTREPRENEURSHIP(KHU702)			0.96	0.32
51	Additive Manufacturing (KME-071)	2	2.2	0.62	0.21
52	Mathematical modelling of manufacturing processes (KME-073)	2.2	2.8	0.13	0.04
53	RENEWABLE ENERGY RESOURCES (KOE-074)		2	0.62	0.21
54	Measurment and Metrology Lab (KME-751)		3	2.6	0.87
55	MINI PROJECT OR INTERNSHIP ASSESSMENT(KME-752)	3	3	2.6	0.87
56	PROJECT(KME-753)	2.75	2.75	2.6	0.87
57	RURAL DEVELOPMENT: ADMINISTRATION & PLANNING (KHU-801)			0.33	0.11
58	Quality Management (KOE085)			1.23	0.41
59	Automation and Robotics (KOE091)	2.20	2.40	0.57	0.19
60	PROJECT II(KME-851)	2.83	2.50	2.6	0.87
Average		1.91	2.01		
Relevant No. of Courses		40	42		
No. of Courses not Mapped		20	18		
Total no. of Courses		60	60		

I.T.S Engineering College, Greater Noida
Department of Mechanical Engineering
PSO ATTAINMENT BATCH: 2019-23

S.No	Subject Name	PSO1	PSO2
1	PROGRAMMING FOR PROBLEM SOLVING (KCS101/KCSS201)	1.64	1.10
2	BASIC ELECTRICAL ENGINEERING (KEE-101/201)	1.80	1.44
3	MATHEMATICS-I (KAS103)	1.38	1.73
4	ENGINEERING PHYSICS (KAS101/KAS201)	1.47	1.38
5	WORKSHOP PRACTICE, (KWS 101/KWS201)		
6	ENGINEERING CHEMISTRY (KAS102T/202T)	0.93	0.93
7	MATHEMATICS-II (KAS203)	1.66	2.02
8	PROGRAMMING FOR PROBLEM SOLVING LAB (KCS151/KCS251)	1.80	1.80
9	ENGINEERING PHYSICS LAB (KAS151/KAS251)	2.25	1.50
10	ENGINEERING CHEMISTRY LAB (KAS152P/252P)		
11	BASIC ELECTRICAL ENGINEERING LAB (KEE-151/251)	1.80	1.58
12	Thermodynamics (KME-301)	0.54	1.07
13	Fluid Mechanics & Fluid Machines (KME-302)	1.22	0.47
14	Materials Engineering (KME-303)	0.41	0.88
15	TECHNICAL COMMUNICATION (KAS-301)		
16	COMPUTER SYSTEM SECURITY (KNC-301)		
17	Electronics Engineering (KOE-038)		
18	Fluid Mechanics Lab (KME-351)	2.60	1.00
19	Material Testing Lab (KME-352)	0.93	2.33
20	Computer Aided Machine Drawing -I Lab (KME-352)		
21	MINI PROJECT OR INTERNSHIP ASSESSMENT (KME-354)	2.00	2.00
22	Applied Thermodynamics (KME-401)	0.94	2.82
23	Engineering Mechanics (KME-402)	2.98	0.99
24	Manufacturing Processes (KME-403)	1.59	2.38
25	MATHEMATICS-IV (KAS-402)		1.67
26	UNIVERSAL HUMAN VALUES (KVE-401)		
27	PYTHON PROGRAMMING (KNC-402)		
28	Applied Thermodynamics Lab (KME-451)	1.00	3.00
29	Manufacturing Processes Lab (KME-452)	1.49	2.24
30	Computer Aided Machine Drawing-II Lab (KME-453)		
31	Heat and Mass Transfer (KME-501)	0.62	1.25
32	Strength of Material (KME-502)	0.59	0.20
33	Industrial Engineering (KME-503)		
34	CONSTITUTION OF INDIA, LAW AND ENGINEERING (KNC501)	0.65	
35	Computer Integrated Manufacturing (KME051)	0.58	0.37
36	Advance Welding (KME-055)	0.80	0.80
37	Heat Transfer Lab (KME-551)	0.93	1.87
38	Python Lab (KME-552)		
39	IoT Lab (KME-553)		
40	MINI PROJECT (KME554)	2.00	2.00
41	Refrigeration and Air Conditioning (KME-601)	1.37	2.06
42	Machine Design (KME-602)	0.58	0.58
43	Theory of Machine (KME-603)	1.20	0.40
44	Non Destructive Testing (KME-061)	1.19	1.78
45	INDIAN TRADITION CULTURE & SOCIETY (KNC-602)		
46	Computer Based Numerical Techniques (KOE-065)		
47	Refrigeration and Air Conditioning Lab (KME 651)	2.00	3.00

48	Machine Design Lab (KME 652)	1.00	1.00
49	Theory of Machine Lab (KME 653)	3.00	1.00
50	PROJECT MANAGEMENT AND ENTREPRENEURSHIP(KHU702)		
51	Additive Manufacturing (KME-071)	0.41	0.45
52	Mathematical modelling of manufacturing processes (KME-073)	0.10	0.12
53	RENEWABLE ENERGY RESOURCES (KOE-074)		0.41
54	Measurement and Metrology Lab (KME-751)		2.60
55	MINI PROJECT OR INTERNSHIP ASSESSMENT(KME-752)	2.60	2.60
56	PROJECT(KME-753)	2.38	2.38
57	RURAL DEVELOPMENT: ADMINISTRATION & PLANNING (KHU-801)		
58	Quality Management (KOE085)		
59	Automation and Robotics (KOE091)	0.42	0.46
60	PROJECT II(KME-851)	2.45	2.17
SUM OF PSOS ATTAINMENT		55.31	61.84
PSO Attainment		1.38	1.47
PSO Attainment (%)		0.72	0.73
PSO ATTAINMENT LEVEL		3	3

I.T.S Engineering College, Greater Noida
Department of Mechanical Engineering
CO TARGET & ATTAINMENT BATCH: 2019-23

S.No	Subject Name	TARGET LEVEL	CO ATTAINMENT	% CO ATTAINMENT
1	PROGRAMMING FOR PROBLEM SOLVING (KCS101/KCS201)	3	2.74	91.33
2	BASIC ELECTRICAL ENGINEERING (KEE-101/201)	3	2.7	90.00
3	MATHEMATICS-I (KAS103)	3	2.59	86.33
4	ENGINEERING PHYSICS (KAS101/KAS201)	3	2.76	92.00
5	WORKSHOP PRACTICE, (KWS 101/KWS201)	3	2.7	90.00
6	ENGINEERING CHEMISTRY (KAS102T/202T)	3	2.8	93.33
7	MATHEMATICS-II (KAS203)	3	2.76	92.00
8	PROGRAMMING FOR PROBLEM SOLVING LAB (KCS151/KCS251)	3	2.7	90.00
9	ENGINEERING PHYSICS LAB (KAS151/KAS251)	3	3	100.00
10	ENGINEERING CHEMISTRY LAB (KAS152P/252P)	3	3	100.00
11	BASIC ELECTRICAL ENGINEERING LAB(KEE-151/251)	3	2.7	90.00
12	Thermodynamics (KME-301)	3	1.61	53.67
13	Fluid Mechanics & Fluid Machines (KME-302)	3	1.41	47.00
14	Materials Engineering (KME-303)	3	1.02	34.00
15	TECHNICAL COMMUNICATION (KAS-301)	3	1.34	44.67
16	COMPUTER SYSTEM SECURITY (KNC-301)	3	1.89	63.00
17	Electronics Engineering (KOE-038)	3	1.64	54.67
18	Fluid Mechanics Lab (KME-351)	3	3	100.00
19	Material Testing Lab (KME-352)	3	2.8	93.33
20	Computer Aided Machine Drawing -I Lab (KME-352)	3	2.8	93.33
21	MINI PROJECT OR INTERNSHIP ASSESSMENT (KME-354)	3	3	100.00
22	Applied Thermodynamics (KME-401)	3	2.82	94.00
23	Engineering Mechanics (KME-402)	3	2.98	99.33
24	Manufacturing Processes (KME-403)	3	2.98	99.33
25	MATHEMATICS-IV (KAS-402)	3	2.23	74.33
26	UNIVERSAL HUMAN VALUES (KVE-401)	3	2.84	94.67
27	PYTHON PROGRAMMING (KNC-402)	3	2.66	88.67

28	Applied Thermodynamics Lab (KME-451)	3	3	100.00
29	Manufacturing Processes Lab (KME-452)	3	2.8	93.33
30	Computer Aided Machine Drawing-II Lab (KME-453)	3	3	100.00
31	Heat and Mass Transfer (KME-501)	3	1.87	62.33
32	Strength of Material (KME-502)	3	0.59	19.67
33	Industrial Engineering (KME-503)	3	0.8	26.67
34	CONSTITUTION OF INDIA, LAW AND ENGINEERING (KNC501)	3	1.94	64.67
35	Computer Integrated Manufacturing (KME051)	3	0.62	20.67
36	Advance Welding (KME-055)	3	1.2	40.00
37	Heat Transfer Lab (KME-551)	3	2.8	93.33
38	Python Lab (KME-552)	3	3	100.00
39	IoT Lab (KME-553)	3	3	100.00
40	MINI PROJECT (KME554)	3	3	100.00
41	Refrigeration and Air Conditioning (KME-601)	3	2.06	68.67
42	Machine Design (KME-602)	3	1.73	57.67
43	Theory of Machine (KME-603)	3	1.2	40.00
44	Non Destructive Testing (KME-061)	3	1.78	59.33
45	INDIAN TRADITION CULTURE & SOCIETY(KNC-602)	3	2.24	74.67
46	Computer Based Numerical Techniques (KOE-065)	3	1.47	49.00
47	Refrigeration and Air Conditioning Lab (KME 651)	3	3	100.00
48	Machine Design Lab (KME 652)	3	3	100.00
49	Theory of Machine Lab (KME 653)	3	3	100.00
50	PROJECT MANAGEMENT AND ENTREPRENEURSHIP(KHU702)	3	0.96	32.00
51	Additive Manufacturing (KME-071)	3	0.62	20.67
52	Mathematical modelling of manufacturing processes (KME-073)	3	0.13	4.33
53	RENEWABLE ENERGY RESOURCES (KOE-074)	3	0.62	20.67
54	Measurment and Metrology Lab (KME-751)	3	2.6	86.67
55	MINI PROJECT OR INTERNSHIP ASSESSMENT(KME-752)	3	2.6	86.67
56	PROJECT(KME-753)	3	2.6	86.67
57	RURAL DEVELOPMENT: ADMINISTRATION & PLANNING (KHU-801)	3	0.33	11.00
58	Quality Management (KOE085)	3	1.23	41.00
59	Automation and Robotics (KOE091)	3	0.57	19.00
60	PROJECT II(KME-851)	3	2.6	86.67

I.T.S Engineering College, Greater Noida
Department of Mechanical Engineering
PSO ATTAINMENT BATCH: 2019-23

S.No	Subject Name	PSO1	PSO2
1	PROGRAMMING FOR PROBLEM SOLVING (KCS101/KCS201)	1.64	1.10
2	BASIC ELECTRICAL ENGINEERING (KEE-101/201)	1.80	1.44
3	MATHEMATICS-I (KAS103)	1.38	1.73
4	ENGINEERING PHYSICS (KAS101/KAS201)	1.47	1.38
5	WORKSHOP PRACTICE, (KWS 101/KWS201)		
6	ENGINEERING CHEMISTRY (KAS102T/202T)	0.93	0.93
7	MATHEMATICS-II (KAS203)	1.66	2.02
8	PROGRAMMING FOR PROBLEM SOLVING LAB (KCS151/KCS251)	1.80	1.80
9	ENGINEERING PHYSICS LAB (KAS151/KAS251)	2.25	1.50
10	ENGINEERING CHEMISTRY LAB (KAS152P/252P)		
11	BASIC ELECTRICAL ENGINEERING LAB(KEE-151/251)	1.80	1.58
12	Thermodynamics (KME-301)	0.54	1.07
13	Fluid Mechanics & Fluid Machines (KME-302)	1.22	0.47
14	Materials Engineering (KME-303)	0.41	0.88
15	TECHNICAL COMMUNICATION (KAS-301)		
16	COMPUTER SYSTEM SECURITY (KNC-301)		
17	Electronics Engineering (KOE-038)		
18	Fluid Mechanics Lab (KME-351)	2.60	1.00
19	Material Testing Lab (KME-352)	0.93	2.33
20	Computer Aided Machine Drawing -I Lab (KME-352)		
21	MINI PROJECT OR INTERNSHIP ASSESSMENT (KME-354)	2.00	2.00
22	Applied Thermodynamics (KME-401)	0.94	2.82
23	Engineering Mechanics (KME-402)	2.98	0.99
24	Manufacturing Processes (KME-403)	1.59	2.38
25	MATHEMATICS-IV (KAS-402)		1.67
26	UNIVERSAL HUMAN VALUES (KVE-401)		
27	PYTHON PROGRAMMING (KNC-402)		
28	Applied Thermodynamics Lab (KME-451)	1.00	3.00
29	Manufacturing Processes Lab (KME-452)	1.49	2.24
30	Computer Aided Machine Drawing-II Lab (KME-453)		
31	Heat and Mass Transfer (KME-501)	0.62	1.25
32	Strength of Material (KME-502)	0.59	0.20
33	Industrial Engineering (KME-503)		
34	CONSTITUTION OF INDIA, LAW AND ENGINEERING (KNC501)	0.65	
35	Computer Integrated Manufacturing (KME051)	0.58	0.37
36	Advance Welding (KME-055)	0.80	0.80
37	Heat Transfer Lab (KME-551)	0.93	1.87
38	Python Lab (KME-552)		
39	IoT Lab (KME-553)		
40	MINI PROJECT (KME554)	2.00	2.00
41	Refrigeration and Air Conditioning (KME-601)	1.37	2.06
42	Machine Design (KME-602)	0.58	0.58
43	Theory of Machine (KME-603)	1.20	0.40
44	Non Destructive Testing (KME-061)	1.19	1.78
45	INDIAN TRADITION CULTURE & SOCIETY(KNC-602)		
46	Computer Based Numerical Techniques (KOE-065)		
47	Refrigeration and Air Conditioning Lab (KME 651)	2.00	3.00

48	Machine Design Lab (KME 652)	1.00	1.00
49	Theory of Machine Lab (KME 653)	3.00	1.00
50	PROJECT MANAGEMENT AND ENTREPRENEURSHIP(KHU702)		
51	Additive Manufacturing (KME-071)	0.41	0.45
52	Mathematical modelling of manufacturing processes (KME-073)	0.10	0.12
53	RENEWABLE ENERGY RESOURCES (KOE-074)		0.41
54	Measurment and Metrology Lab (KME-751)		2.60
55	MINI PROJECT OR INTERNSHIP ASSESSMENT(KME-752)	2.60	2.60
56	PROJECT(KME-753)	2.38	2.38
57	RURAL DEVELOPMENT: ADMINISTRATION & PLANNING (KHU-801)		
58	Quality Management (KOE085)		
59	Automation and Robotics (KOE.091)	0.42	0.46
60	PROJECT II(KME-851)	2.45	2.17
SUM OF PSOS ATTAINMENT		55.31	61.84
PSO Attainment		1.38	1.47
PSO Attainment (%)		0.72	0.73
PSO ATTAINMENT LEVEL		3	3

I.T.S Engineering College, Greater Noida
Department of Mechanical Engineering
CO TARGET & ATTAINMENT BATCH: 2019-23

S.No	Subject Name	TARGET LEVEL	CO ATTAINMENT	% CO ATTAINMENT
1	PROGRAMMING FOR PROBLEM SOLVING (KCS101/KCS201)	3	2.74	91.33
2	BASIC ELECTRICAL ENGINEERING (KEE-101/201)	3	2.7	90.00
3	MATHEMATICS-I (KAS103)	3	2.59	86.33
4	ENGINEERING PHYSICS (KAS101/KAS201)	3	2.76	92.00
5	WORKSHOP PRACTICE, (KWS 101/KWS201)	3	2.7	90.00
6	ENGINEERING CHEMISTRY (KAS102T/202T)	3	2.8	93.33
7	MATHEMATICS-II (KAS203)	3	2.76	92.00
8	PROGRAMMING FOR PROBLEM SOLVING LAB (KCS151/KCS251)	3	2.7	90.00
9	ENGINEERING PHYSICS LAB (KAS151/KAS251)	3	3	100.00
10	ENGINEERING CHEMISTRY LAB (KAS152P/252P)	3	3	100.00
11	BASIC ELECTRICAL ENGINEERING LAB(KEE-151/251)	3	2.7	90.00
12	Thermodynamics (KME-301)	3	1.61	53.67
13	Fluid Mechanics & Fluid Machines (KME-302)	3	1.41	47.00
14	Materials Engineering (KME-303)	3	1.02	34.00
15	TECHNICAL COMMUNICATION (KAS-301)	3	1.34	44.67
16	COMPUTER SYSTEM SECURITY (KNC-301)	3	1.89	63.00
17	Electronics Engineering (KOE-038)	3	1.64	54.67
18	Fluid Mechanics Lab (KME-351)	3	3	100.00
19	Material Testing Lab (KME-352)	3	2.8	93.33
20	Computer Aided Machine Drawing -I Lab (KME-352)	3	2.8	93.33
21	MINI PROJECT OR INTERNSHIP ASSESSMENT (KME-354)	3	3	100.00
22	Applied Thermodynamics (KME-401)	3	2.82	94.00
23	Engineering Mechanics (KME-402)	3	2.98	99.33
24	Manufacturing Processes (KME-403)	3	2.98	99.33
25	MATHEMATICS-IV (KAS-402)	3	2.23	74.33
26	UNIVERSAL HUMAN VALUES (KVE-401)	3	2.84	94.67
27	PYTHON PROGRAMMING (KNC-402)	3	2.66	88.67

28	Applied Thermodynamics Lab (KME-451)	3	3	100.00
29	Manufacturing Processes Lab (KME-452)	3	2.8	93.33
30	Computer Aided Machine Drawing-II Lab (KME-453)	3	3	100.00
31	Heat and Mass Transfer (KME-501)	3	1.87	62.33
32	Strength of Material (KME-502)	3	0.59	19.67
33	Industrial Engineering (KME-503)	3	0.8	26.67
34	CONSTITUTION OF INDIA, LAW AND ENGINEERING (KNC501)	3	1.94	64.67
35	Computer Integrated Manufacturing (KME051)	3	0.62	20.67
36	Advance Welding (KME-055)	3	1.2	40.00
37	Heat Transfer Lab (KME-551)	3	2.8	93.33
38	Python Lab (KME-552)	3	3	100.00
39	IoT Lab (KME-553)	3	3	100.00
40	MINI PROJECT (KME554)	3	3	100.00
41	Refrigeration and Air Conditioning (KME-601)	3	2.06	68.67
42	Machine Design (KME-602)	3	1.73	57.67
43	Theory of Machine (KME-603)	3	1.2	40.00
44	Non Destructive Testing (KME-061)	3	1.78	59.33
45	INDIAN TRADITION CULTURE & SOCIETY(KNC-602)	3	2.24	74.67
46	Computer Based Numerical Techniques (KOE-065)	3	1.47	49.00
47	Refrigeration and Air Conditioning Lab (KME 651)	3	3	100.00
48	Machine Design Lab (KME 652)	3	3	100.00
49	Theory of Machine Lab (KME 653)	3	3	100.00
50	PROJECT MANAGEMENT AND ENTREPRENEURSHIP(KHU702)	3	0.96	32.00
51	Additive Manufacturing (KME-071)	3	0.62	20.67
52	Mathematical modelling of manufacturing processes (KME-073)	3	0.13	4.33
53	RENEWABLE ENERGY RESOURCES (KOE-074)	3	0.62	20.67
54	Measurment and Metrology Lab (KME-751)	3	2.6	86.67
55	MINI PROJECT OR INTERNSHIP ASSESSMENT(KME-752)	3	2.6	86.67
56	PROJECT(KME-753)	3	2.6	86.67
57	RURAL DEVELOPMENT: ADMINISTRATION & PLANNING (KHU-801)	3	0.33	11.00
58	Quality Management (KOE085)	3	1.23	41.00
59	Automation and Robotics (KOE091)	3	0.57	19.00
60	PROJECT II(KME-851)	3	2.6	86.67