

# I.T.S Engineering College, Greater Noida

Department of Civil Engineering

BATCH (2019-23)

Subject CO Average

S.No	Subject Name	CO_Average
1	PROGRAMMING FOR PROBLEM SOLVING (KCS101/KCS201)	2.50
2	BASIC ELECTRICAL ENGINEERING ( KEE-101/201)	1.45
3	BASIC ELECTRONICS ENGINEERING ( KEC-101/201)	1.50
5	MATHEMATICS-I (KAS103)	2.60
6	ENGINEERING PHYSICS (KAS101/KAS201)	1.54
7	MECHANICAL WORKSHOP LAB (KWS151/KWS251)	2.30
8	ENGINEERING CHEMISTRY ( KAS102T/202T)	2.60
9	MATHEMATICS-II (KAS203)	1.70
10	PROGRAMMING FOR PROBLEM SOLVING LAB (KCS151/KCS251)	3.00
11	ENGINEERING PHYSICS LAB (KAS151/KAS251)	2.00
12	ENGINEERING CHEMISTRY LAB (KAS152P/252P)	3.00
13	BASIC ELECTRICAL ENGINEERING LAB( KEE-151/251)	2.30
14	ENGINEERING MECHANICS (KCE-301)	1.20
15	FLUID MECHANICS (KCE-303)	1.30
16	SURVEYING AND GEOMATICS (KCE-302)	1.05
17	TECHNICAL COMMUNICATION (KAS-301)	2.24
18	COMPUTER SYSTEM SECURITY (KNC-301)	1.30
19	ELECTRONICS ENGINEERING (KOE-038)	2.45
20	FLUID MECHANICS LAB (KCE-353)	2.30
21	SURVEYING AND GEOMATICS LAB (KCE-352)	3.00
22	BUILDING PLANNING AND DRAWING LAB (KCE-351)	3.00
23	MINI PROJECT OR INTERNSHIP ASSESSMENT (KCE-354)	3.00
24	MATHEMATICS-III (KAS-403)	2.46
25	UNIVERSAL HUMAN VALUES (KVE 401)	2.58
26	MATERIAL, TESTING & CONSTRUCTION PRACTICES (KCE 401)	2.26
27	INTRODUCTION TO SOLID MECHANICS (KCE 402)	2.14
28	HYDRAULIC ENGINEERING AND MACHINES (KCE 403)	2.30
29	MATERIAL TESTING LAB (KCE 451)	3.00
30	SOLID MECHANICS LAB (KCE 452)	3.00
31	HYDRAULIC & HYDRAULIC MACHINES LAB (KCE 453)	3.00
32	PYTHON PROGRAMMING (KNC 402)	1.80
33	GEOTECHNICAL ENGINEERING (KCE501)	1.75
34	STRUCTURAL ANALYSIS (KCE502)	1.34
35	CONSTITUTION OF INDIA, LAW AND ENGINEERING (KNC501)	2.57
36	QUANTITY ESTIMATION AND CONSTRUCTION MANAGEMENT (KCE503)	1.76
37	CONCRETE TECHNOLOGY (KCE051)	2.10
38	ENGINEERING HYDROLOGY (KCE055)	1.89
39	CAD LAB (KCE551)	3.00
40	GEOTECHNICAL ENGINEERING LAB (KCE552)	3.00
41	MINI PROJECT OR INTERNSHIP ASSESMENT (KCE554)	3.00
42	DESIGN OF CONCRETE STRUCTURES (KCE601)	1.38
43	TRANSPORTATION ENGINEERING (KCE-602)	2.07
44	ENVIRONMENTAL ENGINEERING (KCE-603)	1.68
45	RIVER ENGINEERING (KCE-062)	1.91
46	INDIAN TRADITION CULTURE & SOCIETY (KNC-602)	2.81
47	GIS & REMOTE SENSING (KOE066)	1.63
48	TRANSPORTATION ENGINEERING LAB (KCE 651)	3.00
49	ENVIRONMENTAL ENGINEERING LAB (KCE 652)	3.00
50	STRUCTURE DETAILING LAB (KCE 653)	3.00
51	PROJECT MANAGEMENT AND ENTREPRENEURSHIP (KHU702)	1.23
52	SOLID WASTE MANAGEMENT (KCE074)	1.62
53	DESIGN OF STEEL STRUCTURES (KCE075)	0.85
54	RENEWABLE ENERGY RESOURCES (KOE-074)	1.18
55	CONCRETE LAB (KCE 751)	3.00
56	MINI PROJECT OR INTERNSHIP ASSESSMENT(KCE 752)	3.00
57	PROJECT -1 (KCE 753)	3.00
58	RURAL DEVELOPMENT: ADMINISTRATION & PLANNING (KHU-801)	0.51
59	QUALITY MANAGEMENT (KOE085)	0.62
60	HUMAN VALUES IN BUDDHA AND JAIN DARSHAN (KOE098)	0.35
61	PROJECT II (KCE 851)	1.90
	AVERAGE	2.13

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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	1	2
CO3	1	2		1	2			2	1			2	2	1
CO4	1	2		1	2			2	1			2	2	1
CO5	1	3		2	2			1	1			1	2	1
AVG	1.2	2	-	1.33	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	-	1.33	-	-	-	-	-	-	-	1.2	2	1.6

3 **Basic Electronics Engineering ( KEC-101/201)**

CO-PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	1		1								1	2	1
CO2	3	2		1								1	2	3
CO3	2	1		1								1	3	1
CO4	2	1		1								1	1	2
CO5	3	1		1								1	2	1
AVG	2.6	1.2	-	1.00	-	-	-	-	-	-	-	1	2	1.6

4 **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

5 **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	1.33	-	-	-	-	-	-	-	1	1.6	1.5

6 **Mechanical Workshop Lab (KWS151/KWS251)**

CO-PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	2	-	1	-	-	-	-	-	-	-	-	-	2
CO2	3	1	-	1	-	-	-	-	-	-	-	-	-	2
CO3	2	2	-	1	-	-	-	-	-	-	-	-	-	2
CO4	3	1	-	2	-	-	-	-	-	-	-	-	-	2
CO5	3	1	-	1	-	-	-	-	-	-	-	-	-	2
AVG	2.8	1.4	-	1.2	-	-	-	-	-	-	-	-	-	2

7 **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	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	-	-	-	-	1.5	1	1

8 **MATHEMATICS-II (KAS203)**

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	2	3
CO3	3	2	-	-	-	-	-	-	-	-	-	2	2	1
CO4	3	2	-	-	-	-	-	-	-	-	-	2	1	2
CO5	3	2	-	-	-	-	-	-	-	-	-	2	2	3
AVG	3	2	-	-	-	-	-	-	-	-	-	2	1.8	2.2

9 **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	2
CO3	3	2	-	2	1	-	-	3	1	-	-	2	-	2
CO4	3	2	-	2	1	-	-	3	1	-	-	2	2	-
CO5	3	2	-	-	1	-	-	3	1	-	-	3	-	-
AVG	3	2	-	2	1	-	-	3	1	-	-	2.2	2	2

10 **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	2
CO2	1	-	-	-	-	-	-	-	-	-	-	1	-	-
CO3	2	-	-	-	-	-	-	-	-	-	-	1	3	1
CO4	-	-	-	-	-	-	-	-	-	-	-	1	2	2
CO5	-	-	-	-	-	-	-	-	-	-	-	1	2	1
AVG	1.666667	1	-	-	-	-	-	-	-	-	-	1	2.25	1.5

11 **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	-	-	-	-	-	-	-	-	-	1	-	-
CO3	2	2	-	-	-	-	3	-	-	-	-	1	-	-
CO4	2	-	-	-	-	-	-	-	-	-	-	-	-	-
AVG	2	2	-	-	-	-	3	-	-	-	-	1	-	-

12

**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										3	3	1
CO5	3	1		1								3	2	2
AVG	2.6	2	-	1	-	-	-	-	-	-	-	2.5	2	1.75

13

**Engineering Mechanics (KCE-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	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

14

**Fluid Mechanics (KCE-303)**

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

15

**Surveying and Geomatics (KCE-302)**

CO-PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	2	2	3	2						1	2	1	3
CO2	2	3	3	2								1	1	3
CO3	2	1	1	2	3							3	1	3
CO4	2	2	3	2	3						1	3	1	2
CO5	3	2	3	3	3						1	3	1	3
AVG	2.4	2	2.4	2.4	2.75	-	-	-	-	-	1	2.4	1	2.8

16

**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	-	-

17

**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	-	-

18 **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									
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	-	-

19 **Fluid Mechanics Lab (KCE-353)**

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

20 **Surveying and Geomatics Lab (KCE-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

21 **Building Planning And Drawing Lab (KCE-351)**

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	-	-

22 **Mini Project or Internship Assessment (KCE-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

23 **Mathematics-III (KAS-403)**

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

24 **Universal Human Values (KVE 401)**

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 **Material, Testing & Construction Practices (KCE 401)**

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												2
CO4	1	3		3										2
CO5	3	3		3										3
AVG	2.4	2.8	-	2.5	-	-	-	-	-	-	-	-	-	2.25

26 **Introduction to Solid Mechanics (KCE 402)**

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

27 **Hydraulic Engineering and Machines (KCE 403)**

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 **Material Testing Lab (KCE 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 **Solid Mechnics Lab (KCE 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 **Hydraulic & Hydraulic Machines Lab (KCE 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 **Python Programming (KNC 402)**

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 **GEOTECHNICAL ENGINEERING (KCE501)**

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 **STRUCTURAL ANALYSIS (KCE502)**

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 **QUANTITY ESTIMATION AND CONSTRUCTION MANAGEMENT (KCE503)**

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 **CONCRETE TECHNOLOGY (KCE051)**

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

CO1	3	1	2	2	2							3	2	2
CO2	3	1	2	2	2							3	2	2
CO3	3	1	2	2	2							3	2	2
CO4	2	1	2	2	2							3	2	2
CO5	2	1	2	2	2							3	2	2
AVG	2.6	1	2	2	2	-	-	-	-	-	-	3	2	2

37 **ENGINEERING HYDROLOGY (KCE055)**

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 **CAD LAB (KCE551)**

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 **GEOTECHNICAL ENGINEERING LAB (KCE552)**

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 OR INTERNSHIP ASSESMENT (KCE554)**

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 **Design of Concrete Structures (KCE601)**

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



42 **Transportation Engineering (KCE-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 **Environmental Engineering (KCE-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 **River Engineering (KCE-062)**

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 **GIS & Remote Sensing (KOE066)**

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 **Transportation Engineering Lab (KCE 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 **Environmental Engineering Lab (KCE 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 **Structure Detailing Lab (KCE 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 **SOLID WASTE MANAGEMENT (KCE074)**

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 **DESIGN OF STEEL STRUCTURES (KCE075)**

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

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**CONCRETE LAB (KCE 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

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**Mini Project or Internship Assessment(KCE 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

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**Project -1 (KCE 753)**

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
AVG	3	3	2.75	2.75	3	2.5	2.33	2	3	3	2.5	3	2.75	2.75

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**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	-	-

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**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	-	-

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**Human Values in Buddha and Jain Darshan (KOE098)**

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

**Project II (KCE 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 Civil 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	2.5	0.83
2	BASIC ELECTRICAL ENGINEERING ( KEE-101/201)	2.60	2.50	-	1.33	-	-	-	-	-	-	-	1.20	1.45	0.48
3	BASIC ELECTRONICS ENGINEERING ( KEC-101/201)	2.60	1.20	-	1.00	-	-	-	-	-	-	-	1.00	1.5	0.50
4	MATHEMATICS-I (KAS103)	3.00	2.00	-	-	-	-	-	-	-	-	-	2.00	2.6	0.87
5	ENGINEERING PHYSICS (KAS101/KAS201)	3.00	2.60	1.60	1.33	-	-	-	-	-	-	-	1.00	1.54	0.51
6	MECHANICAL WORKSHOP LAB (KWS151/KWS251)	2.80	1.40	-	1.20	-	-	-	-	-	-	-	1.00	2.3	0.77
7	ENGINEERING CHEMISTRY ( KAS102T/202T)	2.80	2.00	3.00	-	2.00	-	2.00	-	-	-	-	1.60	2.6	0.87
8	MATHEMATICS-II (KAS203)	3.00	2.00	-	-	-	-	-	-	-	-	-	2.00	1.7	0.57
9	PROGRAMMING FOR PROBLEM SOLVING LAB (KCS151/KCS251)	3.00	2.00	-	2.00	1.00	-	-	3.00	1.00	-	-	2.20	3	1.00
10	ENGINEERING PHYSICS LAB (KAS151/KAS251)	1.67	1.00	-	-	-	-	-	-	-	-	-	1.00	2	0.67
11	ENGINEERING CHEMISTRY LAB (KAS152P/252P)	2.00	2.00	-	-	-	-	3.00	-	-	-	-	1.00	3	1.00
12	BASIC ELECTRICAL ENGINEERING LAB( KEE-151/251)	2.60	2.00	-	1.00	-	-	-	-	-	-	-	2.50	2.3	0.77
13	ENGINEERING MECHANICS (KCE-301)	1.80	2.00	1.80	1.80	1.00	-	-	-	-	-	1.00	1.00	1.198333	0.40
14	FLUID MECHANICS (KCE-303)	2.00	2.00	2.20	2.00	1.00	-	-	-	-	-	2.60	2.40	1.3	0.43
15	SURVEYING AND GEOMATICS (KCE-302)	2.40	2.00	2.40	2.40	2.75	-	-	-	-	-	1.00	2.40	1.048333	0.35
16	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	2.24	0.75
17	COMPUTER SYSTEM SECURITY (KNC-301)	1.00	-	2.00	2.00	2.00	1.00	-	-	1.00	1.00	2.00	2.00	1.3	0.43
18	ELECTRONICS ENGINEERING (KOE-038)	1.60	1.40	2.20	2.00	2.00	-	-	-	-	-	2.00	2.00	2.45	0.82
19	FLUID MECHANICS LAB (KCE-353)	2.00	2.00	2.20	2.00	1.00	-	-	-	-	-	2.60	2.40	2.3	0.77
20	SURVEYING AND GEOMATICS LAB (KCE-352)	2.50	1.50	1.50	2.00	2.00	-	-	-	-	-	1.00	2.00	3	1.00
21	BUILDING PLANNING AND DRAWING LAB (KCE-351)	2.00	1.80	2.80	1.00	1.80	-	-	-	-	-	1.00	2.00	3	1.00
22	MINI PROJECT OR INTERNSHIP ASSESSMENT (KCE-354)	3.00	2.00	3.00	-	2.00	2.00	-	-	3.00	3.00	2.67	2.75	3	1.00
23	MATHEMATICS-III (KAS-403)	2.00	2.00	1.00	1.00	-	-	-	-	-	-	2.00	1.00	2.46	0.82
24	UNIVERSAL HUMAN VALUES (KVE 401)	2.00	2.00	2.60	2.00	1.40	-	-	-	-	-	2.00	2.00	2.58	0.86
25	MATERIAL, TESTING & CONSTRUCTION PRACTICES (KCE 401)	2.40	2.80	-	2.50	-	-	-	-	-	-	-	-	2.26	0.75
26	INTRODUCTION TO SOLID MECHANICS (KCE 402)	-	-	-	3.00	-	2.80	2.60	2.40	2.40	-	-	3.00	2.14	0.71
27	HYDRAULIC ENGINEERING AND MACHINES (KCE 403)	3.00	-	3.00	1.00	2.00	-	-	-	-	-	-	-	2.3	0.77
28	MATERIAL TESTING LAB (KCE 451)	2.00	2.00	1.00	1.00	0.00	-	0.00	-	-	-	2.00	1.00	3	1.00
29	SOLID MECHANICS LAB (KCE 452)	2.00	2.00	2.60	2.00	1.40	-	-	-	-	0.00	2.00	2.00	3	1.00
30	HYDRAULIC & HYDRAULIC MACHINES LAB (KCE 453)	2.00	1.80	2.80	1.00	1.80	-	-	-	-	-	1.00	2.00	3	1.00
31	PYTHON PROGRAMMING (KNC 402)	2.00	2.00	2.00	2.00	-	-	-	-	-	-	-	2.00	1.8	0.60
32	GEOTECHNICAL ENGINEERING (KCE501)	3.00	2.00	2.00	3.00	2.00	-	-	-	-	-	1.40	2.00	1.75	0.58
33	STRUCTURAL ANALYSIS (KCE502)	3.00	1.00	-	2.00	2.00	1.00	1.00	2.00	2.00	2.00	2.00	2.00	1.34	0.45
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	2.57	0.86
35	QUANTITY ESTIMATION AND CONSTRUCTION MANAGEMENT (KCE503)	2.00	2.60	2.80	1.00	2.80	0.00	-	-	-	-	1.80	1.80	1.76	0.59
36	CONCRETE TECHNOLOGY (KCE051)	2.60	1.00	2.00	2.00	2.00	-	-	-	-	-	3.00	3.00	2.1	0.70
37	ENGINEERING HYDROLOGY (KCE055)	2.00	2.00	2.00	2.00	0.00	-	-	-	0.00	-	-	2.00	1.89	0.63
38	CAD LAB (KCE551)	1.40	1.80	2.20	1.60	2.80	-	-	-	1.80	-	-	2.00	3	1.00
39	GEOTECHNICAL ENGINEERING LAB (KCE552)	2.40	2.20	2.40	2.40	2.33	0.00	0.00	-	1.80	2.50	3.00	2.20	3	1.00
40	MINI PROJECT OR INTERNSHIP ASSESSMENT (KCE554)	3.00	2.00	3.00	-	2.00	2.00	-	-	3.00	3.00	2.67	2.75	3	1.00
41	DESIGN OF CONCRETE STRUCTURES (KCE601)	3.00	2.80	2.20	2.20	1.20	-	2.00	-	-	-	1.80	2.80	1.38	0.46
42	TRANSPORTATION ENGINEERING (KCE-602)	3.00	2.00	3.00	2.00	-	-	-	-	-	-	2.00	2.00	2.07	0.69



## I.T.S Engineering College, Greater Noida

Department of Civil Engineering

BATCH (219-23)

S.No	Subject Name	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
1	PROGRAMMING FOR PROBLEM SOLVING (KCS11/KCS21)	1.00	1.67		1.11	1.50			1.17	0.83			1.17
2	BASIC ELECTRICAL ENGINEERING ( KEE-11/21)	1.26	1.28		0.64								0.58
3	BASIC ELECTRONICS ENGINEERING ( KEC-11/21)	1.30	0.60		0.50								0.50
4	MATHEMATICS-I (KAS13)	2.60	1.73										1.73
5	ENGINEERING PHYSICS (KAS11/KAS21)	1.54	1.33	0.82	0.68								0.51
6	MECHANICAL WORKSHOP LAB (KWS151/KWS251)	2.15	1.73		0.92								0.77
7	ENGINEERING CHEMISTRY ( KAS12T/22T)	2.43	1.73	2.60		1.73		1.73					1.39
8	MATHEMATICS-II (KAS23)	1.70	1.13										1.13
9	PROGRAMMING FOR PROBLEM SOLVING LAB (KCS151/KCS251)	3.00	2.00		2.00	1.00			3.00	1.00			2.20
10	ENGINEERING PHYSICS LAB (KAS151/KAS251)	1.11	0.67										0.67
11	ENGINEERING CHEMISTRY LAB (KAS152P/252P)	2.00	2.00					3.00					1.00
12	BASIC ELECTRICAL ENGINEERING LAB( KEE-151/251)	1.99	1.53		0.77								1.92
13	ENGINEERING MECHANICS (KCE-31)	0.72	0.80	0.72	0.72	0.40						0.40	0.40
14	FLUID MECHANICS (KCE-33)	0.87	0.87	0.95	0.87	0.43						1.13	1.40
15	SURVEYING AND GEOMATICS (KCE-32)	0.84	0.70	0.84	0.84	0.97						0.35	0.84
16	TECHNICAL COMMUNICATION (KAS-31)	1.19	1.45	1.45	0.75	0.90	1.64	1.45	1.49	1.45	2.24	0.90	1.49
17	COMPUTER SYSTEM SECURITY (KNC-31)	0.43		0.87	0.87	0.87	0.43			0.43	0.43	0.87	0.87
18	ELECTRONICS ENGINEERING (KOE-38)	1.37	1.14	1.80	1.63	1.63						1.63	1.63
19	FLUID MECHANICS LAB (KCE-353)	1.53	1.53	1.69	1.53	0.77						1.99	1.84
20	SURVEYING AND GEOMATICS LAB (KCE-352)	2.50	1.50	1.50	2.00	2.00						1.00	2.00
21	BUILDING PLANNING AND DRAWING LAB (KCE-351)	2.00	1.80	2.80	1.00	1.80						1.00	2.00
22	MINI PROJECT OR INTERNSHIP ASSESSMENT (KCE-354)	3.00	2.00	3.00		2.00	2.00			3.00	3.00	2.67	2.75
23	MATHEMATICS-III (KAS-43)	1.64	1.64	0.82	0.82							1.64	0.82
24	UNIVERSAL HUMAN VALUES (KVE 41)	1.72	1.72	2.24	1.72	1.24						1.72	1.72
25	MATERIAL, TESTING & CONSTRUCTION PRACTICES (KCE 41)	1.88	2.19		1.88								
26	INTRODUCTION TO SOLID MECHANICS (KCE 42)				2.14		2.00	1.85	1.71	1.71			2.14
27	HYDRAULIC ENGINEERING AND MACHINES (KCE 43)	2.30		2.30	0.77	1.53							
28	MATERIAL TESTING LAB (KCE 451)	2.00	2.00	1.00	1.00							2.00	1.00
29	SOLID MECHANICS LAB (KCE 452)	2.00	2.00	2.60	2.00	1.40						2.00	2.00
30	HYDRAULIC & HYDRAULIC MACHINES LAB (KCE 453)	2.00	1.80	2.80	1.00	1.80						1.00	2.00
31	PYTHON PROGRAMMING (KNC 42)	1.20	1.20	1.20	1.20								1.20
32	GEOTECHNICAL ENGINEERING (KCE51)	1.75	1.17	1.17	1.75	1.17						0.82	1.17
33	STRUCTURAL ANALYSIS (KCE52)	1.34	0.45		0.89	0.89	0.45	0.45	0.89	0.89	0.89	0.89	0.89
34	CONSTITUTION OF INDIA, LAW AND ENGINEERING (KNC51)			0.86		0.86	1.54	1.50	1.71	1.71	1.14	0.86	0.86
35	QUANTITY ESTIMATION AND CONSTRUCTION MANAGEMENT (KCE5)	1.17	1.53	1.64	0.59	1.64						1.56	1.56
36	CONCRETE TECHNOLOGY (KCE51)	1.82	0.70	1.40	1.40	1.40						2.10	2.10
37	ENGINEERING HYDROLOGY (KCE55)	1.26	1.26	1.26	1.26								1.26
38	CAD LAB (KCE551)	1.40	1.80	2.20	1.60	2.80				1.80			2.00
39	GEOTECHNICAL ENGINEERING LAB (KCE552)	2.40	2.20	2.40	2.40	2.33				1.80	2.50	3.00	2.20
40	MINI PROJECT OR INTERNSHIP ASSESSMENT (KCE554)	3.00	2.00	3.00		2.00	2.00			3.00	3.00	2.67	2.75
41	DESIGN OF CONCRETE STRUCTURES (KCE61)	1.38	1.29	1.12	1.12	0.55		0.92				0.83	1.29





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S.No	Subject Name	PSO1	PSO2	Att of CO	% Of Att of Co
1	PROGRAMMING FOR PROBLEM SOLVING (KCS11/KCS21)	1.8	1.2	2.50	0.83
2	BASIC ELECTRICAL ENGINEERING ( KEE-11/21)	2	1.6	1.45	0.48
3	BASIC ELECTRONICS ENGINEERING ( KEC-11/21)	2	1.6	1.50	0.50
4	MATHEMATICS-I (KAS13)	1.6	2	2.60	0.87
5	ENGINEERING PHYSICS (KAS11/KAS21)	1.6	1.5	1.54	0.51
6	MECHANICAL WORKSHOP LAB (KWS151/KWS251)	-	2	2.30	0.77
7	ENGINEERING CHEMISTRY ( KAS12T/22T)	1	1	2.60	0.87
8	MATHEMATICS-II (KAS23)	1.8	2.2	1.70	0.57
9	PROGRAMMING FOR PROBLEM SOLVING LAB (KCS151/KCS251)	2	2	3.00	1.00
10	ENGINEERING PHYSICS LAB (KAS151/KAS251)	2.25	1.5	2.00	0.67
11	ENGINEERING CHEMISTRY LAB (KAS152P/252P)	-	-	3.00	1.00
12	BASIC ELECTRICAL ENGINEERING LAB( KEE-151/251)	2	1.75	2.30	0.77
13	ENGINEERING MECHANICS (KCE-31)	3	1	1.20	0.40
14	FLUID MECHANICS (KCE-33)	2.60	1	1.30	0.43
15	SURVEYING AND GEOMATICS (KCE-32)	1	2.8	1.05	0.35
16	TECHNICAL COMMUNICATION (KAS-31)	-	-	2.24	0.75
17	COMPUTER SYSTEM SECURITY (KNC-31)	-	-	1.30	0.43
18	ELECTRONICS ENGINEERING (KOE-38)	-	-	2.45	0.82
19	FLUID MECHANICS LAB (KCE-353)	2.60	1.00	2.30	0.77
20	SURVEYING AND GEOMATICS LAB (KCE-352)	1	2.5	3.00	1.00
21	BUILDING PLANNING AND DRAWING LAB (KCE-351)	-	-	3.00	1.00
22	MINI PROJECT OR INTERNSHIP ASSESSMENT (KCE-354)	2.00	2.00	3.00	1.00
23	MATHEMATICS-III (KAS-43)	1	3	2.46	0.82
24	UNIVERSAL HUMAN VALUES (KVE 41)	1.6	2.4	2.58	0.86
25	MATERIAL, TESTING & CONSTRUCTION PRACTICES (KCE 41)	-	2.25	2.26	0.75
26	INTRODUCTION TO SOLID MECHANICS (KCE 42)	-	-	2.14	0.71
27	HYDRAULIC ENGINEERING AND MACHINES (KCE 43)	-	-	2.30	0.77
28	MATERIAL TESTING LAB (KCE 451)	1	3	3.00	1.00
29	SOLID MECHANICS LAB (KCE 452)	1.6	2.4	3.00	1.00
30	HYDRAULIC & HYDRAULIC MACHINES LAB (KCE 453)	-	-	3.00	1.00
31	PYTHON PROGRAMMING (KNC 42)	1	2.00	1.80	0.60
32	GEOTECHNICAL ENGINEERING (KCE51)	3	1.00	1.75	0.58
33	STRUCTURAL ANALYSIS (KCE52)	-	-	1.34	0.45
34	CONSTITUTION OF INDIA, LAW AND ENGINEERING (KNC51)	1	-	2.57	0.86
35	QUANTITY ESTIMATION AND CONSTRUCTION MANAGEMENT (KCE53)	2.80	1.80	1.76	0.59
36	CONCRETE TECHNOLOGY (KCE51)	2.00	2.00	2.10	0.70
37	ENGINEERING HYDROLOGY (KCE55)	1	2	1.89	0.63
38	CAD LAB (KCE551)	-	-	3.00	1.00
39	GEOTECHNICAL ENGINEERING LAB (KCE552)	-	-	3.00	1.00
40	MINI PROJECT OR INTERNSHIP ASSESSMENT (KCE554)	2	2	3.00	1.00
41	DESIGN OF CONCRETE STRUCTURES (KCE61)	2	3	1.38	0.46
42	TRANSPORTATION ENGINEERING (KCE-62)	1	1	2.07	0.69
43	ENVIRONMENTAL ENGINEERING (KCE-63)	3	1	1.68	0.56
44	RIVER ENGINEERING (KCE-62)	2	3	1.91	0.64
45	INDIAN TRADITION CULTURE & SOCIETY (KNC-62)	-	-	2.81	0.94
46	GIS & REMOTE SENSING (KOE66)	-	-	1.63	0.54
47	TRANSPORTATION ENGINEERING LAB (KCE 651)	2	3	3.00	1.00
48	ENVIRONMENTAL ENGINEERING LAB (KCE 652)	1	1	3.00	1.00
49	STRUCTURE DETAILING LAB (KCE 653)	3	1	3.00	1.00
50	PROJECT MANAGEMENT AND ENTREPRENEURSHIP (KHU72)	-	-	1.23	0.41
51	SOLID WASTE MANAGEMENT (KCE74)	2	2.2	1.62	0.54
52	DESIGN OF STEEL STRUCTURES (KCE75)	2.2	2.8	0.85	0.28
53	RENEWABLE ENERGY RESOURCES (KOE-74)	-	2	1.18	0.39
54	CONCRETE LAB (KCE 751)	-	3	3.00	1.00
55	MINI PROJECT OR INTERNSHIP ASSESSMENT(KCE 752)	3	3.00	3.00	1.00
56	PROJECT -1 (KCE 753)	2.75	2.75	3.00	1.00
57	RURAL DEVELOPMENT: ADMINISTRATION & PLANNING (KHU-81)	-	-	0.51	0.17
58	QUALITY MANAGEMENT (KOE85)	-	-	0.62	0.21
59	HUMAN VALUES IN BUDDHA AND JAIN DARSHAN (KOE98)	1.6	2.4	0.35	0.12
60	PROJECT II (KCE 851)	2.83	2.50	1.90	0.63
<b>Average</b>		1.9	2.0		
<b>Relevant No. of Courses</b>		40	43		
<b>No. of Courses not Mapped</b>		20	17		
<b>Total no. of Courses</b>		60	60		

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S.No	Subject Name	PSO1	PSO2
1	PROGRAMMING FOR PROBLEM SOLVING (KCS11/KCS21)	1.50	1.00
2	BASIC ELECTRICAL ENGINEERING ( KEE-11/21)	0.97	0.77
3	BASIC ELECTRONICS ENGINEERING ( KEC-11/21)	1.00	0.80
4	MATHEMATICS-I (KAS13)	1.39	1.73
5	ENGINEERING PHYSICS (KAS11/KAS21)	0.82	0.77
6	MECHANICAL WORKSHOP LAB (KWS151/KWS251)	-	1.53
7	ENGINEERING CHEMISTRY ( KAS12T/22T)	0.87	0.87
8	MATHEMATICS-II (KAS23)	1.02	1.25
9	PROGRAMMING FOR PROBLEM SOLVING LAB (KCS151/KCS251)	2.00	2.00
10	ENGINEERING PHYSICS LAB (KAS151/KAS251)	1.50	1.00
11	ENGINEERING CHEMISTRY LAB (KAS152P/252P)	-	-
12	BASIC ELECTRICAL ENGINEERING LAB( KEE-151/251)	1.53	1.34
13	ENGINEERING MECHANICS (KCE-31)	1.20	0.40
14	FLUID MECHANICS (KCE-33)	1.13	0.43
15	SURVEYING AND GEOMATICS (KCE-32)	0.35	0.98
16	TECHNICAL COMMUNICATION (KAS-31)	-	-
17	COMPUTER SYSTEM SECURITY (KNC-31)	-	-
18	ELECTRONICS ENGINEERING (KOE-38)	-	-
19	FLUID MECHANICS LAB (KCE-353)	1.99	0.77
20	SURVEYING AND GEOMATICS LAB (KCE-352)	1.00	2.50
21	BUILDING PLANNING AND DRAWING LAB (KCE-351)	-	-
22	MINI PROJECT OR INTERNSHIP ASSESSMENT (KCE-354)	2.00	2.00
23	MATHEMATICS-III (KAS-43)	0.82	2.46
24	UNIVERSAL HUMAN VALUES (KVE 41)	1.38	2.06
25	MATERIAL, TESTING & CONSTRUCTION PRACTICES (KCE 41)	-	1.70
26	INTRODUCTION TO SOLID MECHANICS (KCE 42)	-	-
27	HYDRAULIC ENGINEERING AND MACHINES (KCE 43)	-	-
28	MATERIAL TESTING LAB (KCE 451)	1.00	3.00
29	SOLID MECHNICS LAB (KCE 452)	1.60	2.40
30	HYDRAULIC & HYDRAULIC MACHINES LAB (KCE 453)	-	-
31	PYTHON PROGRAMMING (KNC 42)	0.60	1.20
32	GEOTECHNICAL ENGINEERING (KCE51)	1.75	0.58
33	STRUCTURAL ANALYSIS (KCE52)	-	-
34	CONSTITUTION OF INDIA, LAW AND ENGINEERING (KNC51)	0.86	-
35	QUANTITY ESTIMATION AND CONSTRUCTION MANAGEMENT (KCE53)	1.64	1.06
36	CONCRETE TECHNOLOGY (KCE51)	1.40	1.40
37	ENGINEERING HYDROLOGY (KCE55)	0.63	1.26
38	CAD LAB (KCE551)	-	-
39	GEOTECHNICAL ENGINEERING LAB (KCE552)	-	-

40	MINI PROJECT OR INTERNSHIP ASSESMENT (KCE554)	2.00	2.00
41	DESIGN OF CONCRETE STRUCTURES (KCE61)	0.92	1.38
42	TRANSPORTATION ENGINEERING (KCE-62)	0.69	0.69
43	ENVIRONMENTAL ENGINEERING (KCE-63)	1.68	0.56
44	RIVER ENGINEERING (KCE-62)	1.27	1.91
45	INDIAN TRADITION CULTURE & SOCIETY (KNC-62)	-	-
46	GIS & REMOTE SENSING (KOE66)	-	-
47	TRANSPORTATION ENGINEERING LAB (KCE 651)	2.00	3.00
48	ENVIRONMENTAL ENGINEERING LAB (KCE 652)	1.00	1.00
49	STRUCTURE DETAILING LAB (KCE 653)	3.00	1.00
50	PROJECT MANAGEMENT AND ENTREPRENEURSHIP (KHU72)	-	-
51	SOLID WASTE MANAGEMENT (KCE74)	1.08	1.19
52	DESIGN OF STEEL STRUCTURES (KCE75)	0.62	0.79
53	RENEWABLE ENERGY RESOURCES (KOE-74)	-	0.79
54	CONCRETE LAB (KCE 751)	-	3.00
55	MINI PROJECT OR INTERNSHIP ASSESSMENT(KCE 752)	3.00	3.00
56	PROJECT -1 (KCE 753)	2.75	2.75
57	RURAL DEVELOPMENT: ADMINISTRATION & PLANNING (KHU-81)	-	-
58	QUALITY MANAGEMENT (KOE85)	-	-
59	HUMAN VALUES IN BUDDHA AND JAIN DARSHAN (KOE98)	0.19	0.28
60	PROJECT II (KCE 851)	1.79	1.58
<b>SUM OF PSOS ATTAINMENT</b>		<b>53.93</b>	<b>62.18</b>
<b>PSO Attainment</b>		<b>1.348336</b>	<b>1.446106</b>
<b>PSO Attainment (%)</b>		<b>0.703816</b>	<b>0.721794</b>
<b>PSO ATTAINMENT LEVEL</b>		<b>2</b>	<b>2</b>

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S.No	Subject Name	TARGET LABEL	CO ATTAINMENT	% CO ATTAINMENT
1	PROGRAMMING FOR PROBLEM SOLVING (KCS11/KCS21)	3	2.50	83.33
2	BASIC ELECTRICAL ENGINEERING ( KEE-11/21)	3	1.45	48.33
3	BASIC ELECTRONICS ENGINEERING ( KEC-11/21)	3	1.50	50.00
4	MATHEMATICS-I (KAS13)	3	2.60	86.67
5	ENGINEERING PHYSICS (KAS11/KAS21)	3	1.54	51.33
6	MECHANICAL WORKSHOP LAB (KWS151/KWS251)	3	2.30	76.67
7	ENGINEERING CHEMISTRY ( KAS12T/22T)	3	2.60	86.67
8	MATHEMATICS-II (KAS23)	3	1.70	56.67
9	PROGRAMMING FOR PROBLEM SOLVING LAB (KCS151/KCS251)	3	3.00	100.00
10	ENGINEERING PHYSICS LAB (KAS151/KAS251)	3	2.00	66.67
11	ENGINEERING CHEMISTRY LAB (KAS152P/252P)	3	3.00	100.00
12	BASIC ELECTRICAL ENGINEERING LAB( KFF-151/251)	3	2.30	76.67
13	ENGINEERING MECHANICS (KCE-31)	3	1.20	39.94
14	FLUID MECHANICS (KCE-33)	3	1.30	43.33
15	SURVEYING AND GEOMATICS (KCE-32)	3	1.05	34.94
16	TECHNICAL COMMUNICATION (KAS-31)	3	2.24	74.67
17	COMPUTER SYSTEM SECURITY (KNC-31)	3	1.30	43.33
18	ELECTRONICS ENGINEERING (KOE-38)	3	2.45	81.67
19	FLUID MECHANICS LAB (KCE-353)	3	2.30	76.67
20	SURVEYING AND GEOMATICS LAB (KCE-352)	3	3.00	100.00
21	BUILDING PLANNING AND DRAWING LAB (KCE-351)	3	3.00	100.00
22	MINI PROJECT OR INTERNSHIP ASSESSMENT (KCE-354)	3	3.00	100.00
23	MATHEMATICS-III (KAS-43)	3	2.46	82.00
24	UNIVERSAL HUMAN VALUES (KVE 41)	3	2.58	86.00
25	MATERIAL, TESTING & CONSTRUCTION PRACTICES (KCE 41)	3	2.26	75.33
26	INTRODUCTION TO SOLID MECHANICS (KCE 42)	3	2.14	71.33
27	HYDRAULIC ENGINEERING AND MACHINES (KCE 43)	3	2.30	76.67
28	MATERIAL TESTING LAB (KCE 451)	3	3.00	100.00
29	SOLID MECHANICS LAB (KCE 452)	3	3.00	100.00
30	HYDRAULIC & HYDRAULIC MACHINES LAB (KCE 453)	3	3.00	100.00
31	PYTHON PROGRAMMING (KNC 42)	3	1.80	60.00
32	GEOTECHNICAL ENGINEERING (KCE51)	3	1.75	58.33
33	STRUCTURAL ANALYSIS (KCE52)	3	1.34	44.67
34	CONSTITUTION OF INDIA, LAW AND ENGINEERING (KNC51)	3	2.57	85.67
35	QUANTITY ESTIMATION AND CONSTRUCTION MANAGEMENT (KCE53)	3	1.76	58.67
36	CONCRETE TECHNOLOGY (KCE51)	3	2.10	70.00
37	ENGINEERING HYDROLOGY (KCE55)	3	1.89	63.00
38	CAD LAB (KCE551)	3	3.00	100.00
39	GEOTECHNICAL ENGINEERING LAB (KCE552)	3	3.00	100.00
40	MINI PROJECT OR INTERNSHIP ASSESSMENT (KCE554)	3	3.00	100.00
41	DESIGN OF CONCRETE STRUCTURES (KCE61)	3	1.38	46.00
42	TRANSPORTATION ENGINEERING (KCE-62)	3	2.07	69.00
43	ENVIRONMENTAL ENGINEERING (KCE-63)	3	1.68	56.00
44	RIVER ENGINEERING (KCE-62)	3	1.91	63.67
45	INDIAN TRADITION CULTURE & SOCIETY (KNC-62)	3	2.81	93.67
46	GIS & REMOTE SENSING (KOE66)	3	1.63	54.33
47	TRANSPORTATION ENGINEERING LAB (KCE 651)	3	3.00	100.00
48	ENVIRONMENTAL ENGINEERING LAB (KCE 652)	3	3.00	100.00
49	STRUCTURE DETAILING LAB (KCE 653)	3	3.00	100.00
50	PROJECT MANAGEMENT AND ENTREPRENEURSHIP (KHU72)	3	1.23	41.00
51	SOLID WASTE MANAGEMENT (KCE74)	3	1.62	54.00
52	DESIGN OF STEEL STRUCTURES (KCE75)	3	0.85	28.33
53	RENEWABLE ENERGY RESOURCES (KOE-74)	3	1.18	39.33
54	CONCRETE LAB (KCE 751)	3	3.00	100.00
55	MINI PROJECT OR INTERNSHIP ASSESSMENT(KCE 752)	3	3.00	100.00
56	PROJECT -1 (KCE 753)	3	3.00	100.00
57	RURAL DEVELOPMENT: ADMINISTRATION & PLANNING (KHU-81)	3	0.51	17.00
58	QUALITY MANAGEMENT (KOE85)	3	0.62	20.67
59	HUMAN VALUES IN BUDDHA AND JAIN DARSHAN (KOE98)	3	0.35	11.67
60	PROJECT II (KCE 851)	3	1.90	63.33