

Government College of Engineering, Karad

SCHEME OF INSTRUCTION & SYLLABI

Programme: Civil Engineering

Proposed Scheme of Instructions: Third Year B. Tech. in Civil Engineering

Semester – V (w.e.f. 2025-26)

Sr. No.	Course Category	Course Code	Course Title	L	T	P	Contact Hrs/Wk	Course Credits	EXAM SCHEME			
									MSE	ISE	ESE	TOTAL
1	PCC	CE3501	Structural Mechanics	3	--	--	3	3	20	20	60	100
2	PCC	CE3502	Building Planning and Design	3	--	--	3	3	20	20	60	100
3	PCC	CE3503	Transportation Engineering	3	-	--	3	3	20	20	60	100
4	PCC	CE3504	Design of steel structure	3	--	--	3	3	20	20	60	100
5	MDM	##	Multi-disciplinary Minor - 03	3	--	--	3	3	20	20	60	100
6	OE	\$D/O/I	Open Elective -03	2	--	--	2	2	20/NA/NA	20/NA/50	60/100/50	100
7	PCC	CE3507	Building Planning and Design Lab	--	--	2	2	1	-	25	25	50
8	PCC	CE3508	Transportation Engineering Lab	--	--	2	2	1	-	25	-	25
9	PCC	CE3509	Structural Mechanics Lab	--	--	2	2	1	-	25	25	50
10	MDM	##	Multi-disciplinary Minor – 03 Lab	--	--	2	2	1	-	50	-	50
11	EL	CE3511	Industrial Training	--	1	--	1	1	-	25	-	25
Total				17	1	8	26	22	120	270	410	800

*Note: Open Elective-03 (OE) can be offered as offline/Online mode (MOOC).

Note: \$ D/O/I- Any course offered by Department/Online/Institute OE bucket. ##:- Any Course offered from Dept. /Inst. level MDM buckets.

L- Lecture

T-Tutorial

P-Practical


MSE- Mid Semester Examination

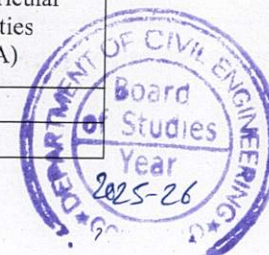
ISE - In Semester Evaluation

ESE- End Semester Examination (For Laboratory End Semester performance)

Course Category	Basic Science Courses (BSC)	Engineering Science Courses (ESC)	Programme Core Course (PCC)	Programme Elective Course (PEC)	Open Elective other than particular program (OE/MDM)	Vocational and Skill Enhancement Course (VSEC)	Humanities Social Science and Management (HSSM)	Experiential Learning (EL)	Co-curricular And Extracurricular Activities (CCA)
Credits	-	-	15	-	06	-	-	01	-
Cumulative Sum	18	13	41	-	16	06	12	02	02

PROGRESSIVE TOTAL CREDITS: 88+22=110


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Programme: Civil Engineering

Proposed Scheme of Instructions: Third Year B. Tech. in Civil Engineering

Semester – VI (w.e.f. 2025-26)

Sr. No.	Course Category	Course Code	Course Title	L	T	P	Contact Hrs/Wk	Course Credits	EXAM SCHEME			
									MSE	ISE	ESE	TOTAL
1	PCC	CE3601	Foundation Engineering	3	--	--	3	3	20	20	60	100
2	PCC	CE3602	Limit State Design of Concrete Structures	3	--	--	3	3	20	20	60	100
3	PCC	CE3603	Quantity Surveying and Valuation	3	--	--	3	3	20	20	60	100
4	PEC	CE36*4	Program Elective -01	3	--	--	3	3	20	20	60	100
5	PCC	CE3605	Environmental Engineering	3	--	--	3	3	20	20	60	100
6	MDM	##	Multi-disciplinary Minor - 04	2	--	--	2	2	20	20	60	100
7	VSEC	CE3607	Mini Project	-	--	2	2	1	-	50	-	50
8	PCC	CE3608	Structural design and drawing I Lab	--	--	2	2	1	-	25	25	50
9	PCC	CE3609	Quantity Surveying and Valuation Lab	--	--	2	2	1	-	25	25	50
10	PEC	CE36*0	Program Elective -01 Lab	--	--	2	2	1	-	25	-	25
11	PCC	CE3611	Environmental Engineering Lab	--	--	2	2	1	-	25	-	25
			Total	17	0	10	27	22	120	270	410	800

##:- Any Course offered from Dept. /Inst. level MDM buckets.

L- Lecture

T-Tutorial

P-Practical

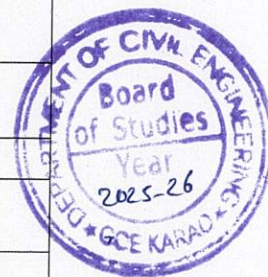
MSE- Mid Semester Examination

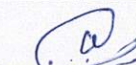
ISE - In Semester Evaluation

ESE- End Semester Examination (For Laboratory End Semester performance)

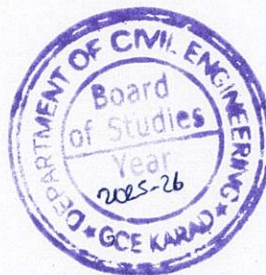
Course Category	Basic Science Courses (BSC)	Engineering Science Courses (ESC)	Programme Core Course (PCC)	Programme Elective Course (PEC)	Open Elective other than particular (OE/MDM)	Vocational and Skill Enhancement Course (VSEC)	Humanities Social Science and Management (HSSM)	Experiential Learning (EL)	Co-curricular And Extracurricular Activities (CCA)
Credits	-	-	15	04	02	01	-	-	-
Cumulative	18	13	56	04	18	07	12	02	02

PROGRESSIVE TOTAL CREDITS: 110+22 =132



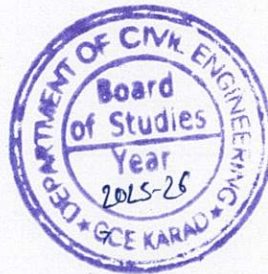

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Exit option : Award of B. Vocational in Major with 132 credits and an additional 8 credits from following Exit Courses				
Sr. No	Course Code	Course Title	Mode	Credits
1	CET-EC-0306	Construction Planning Management	Online/offline certification Course	8
		OR		
2	CE-EC-0307	Construction Practices		8
		OR		
3	CE-EC-0308	Industrial Internship		8




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	6	Multi-disciplinary Minor – 05	EE3705: Switchgear and Protection	VII
	7	Multi-disciplinary Minor - 06	EE3805: Energy Management and Audit /Electrical Vehicle	VIII
Information Technology	1	Multi-disciplinary Minor - 01	IT3305: Basics of Data Structure	III
	2	Multi-disciplinary Minor – 02	IT3404:Software Essentials (OS and Application Software)	IV
	3	Multi-disciplinary Minor – 03	IT3505:Database Management Systems	V
	4	Multi-disciplinary Minor Lab – 03	IT3511:Database Management Systems Lab	V
	5	Multi-disciplinary Minor – 04	IT3604:Basics of AI and ML	VI
	6	Multi-disciplinary Minor – 05	IT3705:Python Programming	VII
	7	Multi-disciplinary Minor - 06	IT3805:Web Technology	VIII
Electronics & Telecommunications Engineering	1	Multi-disciplinary Minor - 01	EX3304: Electronic Circuits	III
	2	Multi-disciplinary Minor – 02	EX3404: Digital Electronics	IV
	3	Multi-disciplinary Minor – 03	EX3505: Signals & Systems	V
	4	Multi-disciplinary Minor Lab – 03	EX3510: Signals & Systems Laboratory	V
	5	Multi-disciplinary Minor – 04	EX3606: Communication System	VI
	6	Multi-disciplinary Minor – 05	EX3706: Microprocessor & Microcontroller	VII
	7	Multi-disciplinary Minor - 06	EX3805: Mobile Communication	VIII




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List of Multi-disciplinary Minor (Institute Level-Industrial)

Stream/Technology	Sr.No.	Course category	Course code & Title	Semester
Electrical Vehicle (Electrical Engineering- Institute Level-Industrial)	1	Multi-disciplinary Minor - 01	IMI3311: Foundation of EV and Hybrid Vehicle	III
	2	Multi-disciplinary Minor – 02	IMI3412: EV Battery Technology and Powertrain Development	IV
	3	Multi-disciplinary Minor – 03	IMI3513: EV Power Electronics and Embedded System	V
	4	Multi-disciplinary Minor Lab – 03	IMI3514: Electric Vehicle Lab	V
	5	Multi-disciplinary Minor – 04	IMI3615: EV Charging Infrastructure, Vehicle Testing & Homologation	VI
	6	Multi-disciplinary Minor – 05	IMI3716: EV Vehicle Design, Analysis and Control	VII
	7	Multi-disciplinary Minor - 06	IMI3817: EV PCB Design & Data Analytics	VIII
Image Processing(ETC- Institute Level-Industrial)	1	Multi-disciplinary Minor - 01	IMI3321: Fundamentals of Image.	III
	2	Multi-disciplinary Minor – 02	IMI3422: Basics of Image Processing for Healthcare	IV
	3	Multi-disciplinary Minor – 03	IMI3523: Particle Size Analysis using Image Processing	V
	4	Multi-disciplinary Minor Lab – 03	IMI3524: Particle Size Analysis using Image Processing Lab	V
	5	Multi-disciplinary Minor – 04	IMI3625: Particle Characterization in Healthcare	VI
	6	Multi-disciplinary Minor – 05	IMI3726: Particle Characterization in Formulation and Reverse Engineering	VII
	7	Multi-disciplinary Minor - 06	IMI3827: Project	VIII
Electrical Vehicle (Mechanical Engineering- Institute Level-Industrial)	1	Multi-disciplinary Minor - 01	IMI3331: Foundation of EV and Hybrid Vehicle	III
	2	Multi-disciplinary Minor – 02	IMI3432: Automotive Mechanics for EV	IV
	3	Multi-disciplinary Minor – 03	IMI3533: EV Design, Development, Analysis and Control	V
	4	Multi-disciplinary Minor Lab – 03	IMI3534: 3D modelling and simulation Lab	V
	5	Multi-disciplinary Minor – 04	IMI3635: EV Product Development, Homologation and Hydrogen FCEV	VI
	6	Multi-disciplinary Minor – 05	IMI3736: EV FEA ANALYSIS	VII
	7	Multi-disciplinary Minor - 06	IMI387: CYBER SECURITY AND DATA ANALYSIS	VIII




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List of Multi-disciplinary Minor (Institute Level-Other Discipline)

Offered by Department	Sr.No.	Course category	Course code & Title	Semester
Law	1	Multi-disciplinary Minor - 01	IMO3311:Constitutional Law	III
	2	Multi-disciplinary Minor – 02	IMO3412:Human Rights & International Law	IV
	3	Multi-disciplinary Minor – 03	IMO3513:Environmental Law	V
	4	Multi-disciplinary Minor Lab – 03	IMO3514:Environmental Law Field Study	V
	5	Multi-disciplinary Minor – 04	IMO3615:Civil Procedure Code (CPC)	VI
	6	Multi-disciplinary Minor – 05	IMO3716:Intellectual Property Law	VII
	7	Multi-disciplinary Minor - 06	IMO3817:Cyber Law	VIII
Management & Finance	1	Multi-disciplinary Minor - 01	IMO3321: Microeconomics	III
	2	Multi-disciplinary Minor – 02	IMO3422: Corporate Social Responsibility	IV
	3	Multi-disciplinary Minor – 03	IMO3523: Principles of Accounting	V
	4	Multi-disciplinary Minor Lab – 03	IMO3524: Principles of Accounting Lab	V
	5	Multi-disciplinary Minor – 04	IMO3625: Business Intelligence	VI
	6	Multi-disciplinary Minor – 05	IMO3726: Marketing Research	VII
	7	Multi-disciplinary Minor - 06	IMO3827: Corporate Governance and Business Ethics	VIII




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Civil Engineering Department

List of Open Elective (Offline Mode)

Open Elective	Course Code	Course Title
Open Elective-I	CE3316	Environmental Chemistry
Open Elective-I lab	CE3321	Environmental Chemistry Lab
Open Elective-II	CE3415	Project Management
Open Elective-III	CE3516	Environmental Impact Assessment

List of Open Elective (MOOCs Mode)

Open Elective	Course Code	Course Title
Open Elective-I	CE3326	Environmental Chemistry
Open Elective-I lab	CE3331	Environmental Chemistry Lab
Open Elective-II	CE3425	Project Management
Open Elective-III	CE3526	Environmental Impact Assessment

Mechanical Engineering Department

List of Open Elective (Offline Mode)

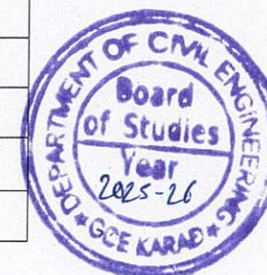
Open Elective	Course Code	Course Title
Open Elective-I	ME3315	Industrial Instrumentation
Open Elective-I lab	ME3312	Industrial Instrumentation Lab
Open Elective-II	ME3416	Industrial Safety
Open Elective-III	ME3516	Entrepreneurship Development

List of Open Elective (MOOCs Mode)

Open Elective	Course Code	Course Title
Open Elective-I	ME3325	Control systems
Open Elective-I lab	ME3322	Instrumentation and Control Lab
Open Elective-II	ME3426	Industrial Safety
Open Elective-III	ME3526	Entrepreneurship


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Electrical Engineering Department

List of Open Elective (Offline Mode)

Open Elective	Course Code	Course Title
Open Elective-I	EE3315	Sustainable Energy Systems
Open Elective-I lab	EE3316	Sustainable Energy Systems Lab
Open Elective-II	EE3417	Robotics and Automation
Open Elective-III	EE3518	Optimization Techniques or Electrical vehicle system

List of Open Elective (MOOCs Mode)

Open Elective	Course Code	Course Title
Open Elective-I	EE3325	Energy Systems Engineering
Open Elective-I lab	EE3326	Energy Systems Engineering Lab
Open Elective-II	EE3427	Power System Engineering
Open Elective-III	EE3528	Optimization Techniques

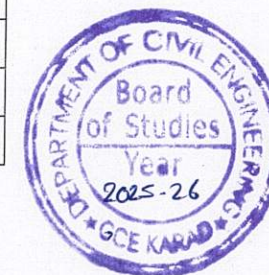
Electronics & Telecommunications Engineering Department


List of Open Elective (Offline Mode)

Open Elective	Course Code	Course Title
Open Elective-I	EX3315	Digital System Design
Open Elective-I lab	EX3310	Digital System Design Laboratory
Open Elective-II	EX3415	Microcontroller and Interfacing
Open Elective-III	EX3516	Embedded Systems and RTOS

List of Open Elective (MOOCs Mode)

Open Elective	Course Code	Course Title
Open Elective-I	EX3325	Digital Electronics
Open Elective-I lab	EX3320	Digital Electronics Laboratory
Open Elective-II	EX3425	Microprocessor and Microcontroller
Open Elective-III	EX3526	Embedded Systems




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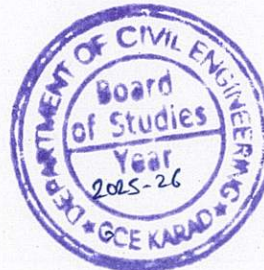
Information Technology Department


List of Open Elective (Offline Mode)

Open Elective	Course Code	Course Title
Open Elective-I	IT3316	Internet of Things
Open Elective-I lab	IT3311	Internet of Things Lab
Open Elective-II	IT3415	Robotics and Automation
Open Elective-III	IT3516	Augmented Reality and Virtual Reality

List of Open Elective (MOOCs Mode)

Open Elective	Course Code	Course Title
Open Elective-I	IT3326	Sensors and Internet of Things
Open Elective-I lab	IT3321	Sensors and Internet of Things Lab
Open Elective-II	IT3425	Robotics and Automation
Open Elective-III	IT3526	Multimedia and Reality




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Institute Level- Industrial orientated Open Elective

AIDSML

Open Elective	Course Code	Course Title	Sem
Open Elective-I	IOE3311	Foundations of AI, Data Science, and Data Engineering”	III
Open Elective-I lab	IOE3312	Foundations for AI, Data Science, and Data Engineering Lab”	III
Open Elective-II	IOE3413	Advanced AI Integration	IV
Open Elective-III	IOE3514	AI Applications and Emerging Technologies	V

AIOT

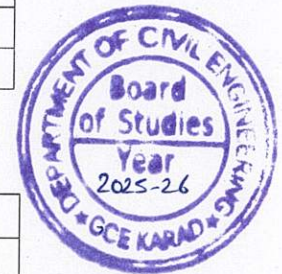
Open Elective	Course Code	Course Title	Sem
Open Elective-I	IOE3321	IoT Hardware and Sensors	III
Open Elective-I lab	IOE3322	IoT Hardware and Sensors lab	III
Open Elective-II	IOE3423	Fundamentals of AIoT	IV
Open Elective-III	IOE3524	Cloud Services for IoT	V

ARVR

Open Elective	Course Code	Course Title	Sem
Open Elective-I	IOE3331	AR/VR Application Development	III
Open Elective-I lab	IOE3332	AR/VR Application Development lab	III
Open Elective-II	IOE3433	Fundamentals of Real-time Rendering	IV
Open Elective-III	IOE3534	Game Development with Unreal Engine	V

ERP-SAP

Open Elective	Course Code	Course Title	Sem
Open Elective-I	IOE3341	ABAP Programming for SAP HANA	III
Open Elective-I lab	IOE3342	ABAP programming in Eclipse LAB	III
Open Elective-II	IOE3443	SAP HANA	IV
Open Elective-III	IOE3544	SAP PROJECT	V



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BASKET OF BASIC SCIENCES COURSES (BSC)

LIST OF BSC COURSES OFFERED SEMESTER WISE						
SEMESTER I						
Sr no.	Course Code	Course	L	T	P	Credits
1.	CE3101	Applied Physics	3	--	--	3
2.	CE3102	Applied Mathematics - I	3	1	--	4
3.	CE3106	Applied Physics Lab	--	--	2	1
SEMESTER II						
4.	CE3201	Applied Mathematics - II	3	1	--	4
5.	CE3202	Applied Chemistry	3	--	--	3
6.	CE3206	Applied Chemistry Lab	--	--	2	1
SEMESTER III						
7.	CE3301	Applied Mathematics-III	2	-	-	2
TOTAL						18





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BASKET OF ENGINEERING SCIENCE COURSES (ESC)

LIST OF ESC COURSES OFFERED SEMESTER WISE						
SEMESTER I						
Sr no.	Course Code	Course	L	T	P	Credits
1.	CE3103	Basics of Civil Engineering	3	--	--	3
2.	CE3104	Engineering Graphics	3	--	--	3
3.	CE3105	Design Thinking	1	--	2	2
4.	CE3107	Engineering Graphics Lab	--	--	2	1
SEMESTER II						
4.	CE3203	Programming for problem solving	3	--	--	3
5.	CE3207	Programming for problem solving Lab	-	-	2	1
TOTAL						13





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BASKET OF PROGRAMME ELECTIVE COURSE (PEC)

LIST OF PEC COURSES OFFERED SEMESTER WISE						
SEMESTER VI						
1.	CE36*4	Program Elective-01	3	--	--	3
2.	CE36*0	Program Elective -01 Lab	--	--	2	1
SEMESTER VII						
3.	CE37*3	Program Elective -02	2	--	--	2
SEMESTER VIII						
4.	CE38*3	Program Elective-03	2	--	--	2
5.	CE38*4	Program Elective-04	3	--	--	3
TOTAL						11




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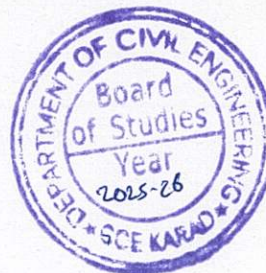
BASKET OF PROGRAMME CORE COURSE (PCC)


LIST OF BSC COURSES OFFERED SEMESTER WISE						
SEMESTER II						
Sr no.	Course Code	Course	L	T	P	Credits
1.	CE3204	Engineering Mechanics	3	1	--	4
2.	CE3208	Engineering Mechanics Lab	--	--	2	1
SEMESTER III						
3.	CE3302	Surveying	3	--	--	3
4.	CE3303	Geoscience	2	--	--	2
5.	CE3304	Mechanics of Materials	3	--	--	3
6.	CE3309	Surveying Lab	--	--	2	1
7.	CE3310	Mechanics of Materials Lab	--	--	2	1
SEMESTER IV						
8.	CE3401	Geotechnical Engineering	3	--	--	3
9.	CE3402	Concrete Technology	3	-	--	3
10.	CE3403	Fluid Mechanics	3	--	--	3
11.	CE3409	Concrete Technology Lab	--	--	2	1
12.	CE3412	Fluid Mechanics Lab	--	--	2	1
SEMESTER V						
13.	CE3501	Structural Mechanics	3	--	--	3
14.	CE3502	Building Planning and Design	3	--	--	3
15.	CE3503	Transportation Engineering	3	--	--	3
16.	CE3504	Design of steel structure	3	--	--	3



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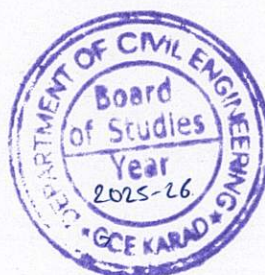
17.	CE3507	Building Planning and Design Lab	--	--	2	1
18.	CE3508	Transportation Engineering Lab	--	--	2	1
19.	CE3509	Structural Mechanics Lab	--	--	2	1
SEMESTER VI						
20.	CE3601	Foundation Engineering	3	--	--	3
21.	CE3602	Limit State Design of Concrete Structures	3	--	--	3
22.	CE3603	Quantity Surveying and Valuation	3	--	--	3
23.	CE3605	Environmental Engineering	3	--	--	3
24.	CE3608	Structural design and drawing I Lab	--	--	2	1
25.	CE3609	Quantity Surveying and Valuation Lab	--	--	2	1
26.	CE3611	Environmental Engineering Lab	--	--	2	1
SEMESTER VII						
27.	CE3701	Water Resources Engineering	3	--	--	3
28.	CE3702	Design of RCC and pre-stressed Concrete structures	3	--	--	3
29.	CE3706	Structural design and drawing II Lab	-	-	2	1
SEMESTER VIII						
30.	CE3801	Management for Civil Engineering	2	--	--	2
31.	CE3802	Earthquake Engineering	3	--	--	3
32.	CE3806	Software Lab	--	--	2	1
TOTAL						69





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BASKET OF OPEN ELECTIVE OTHER THAN PARTICULAR PROGRAM (OE)


LIST OF OE COURSES OFFERED SEMESTER WISE						
SEMESTER III						
Sr no.	Course Code	Course	L	T	P	Credits
1.	CE33*6	Open Elective -01	3	--	--	3
2.	CE33*1	Open Elective -01 Lab	--	--	2	1
SEMESTER IV						
4.	CE34*5	Open Elective -02	2	--	--	2
SEMESTER III						
5.	CE35*6	Open Elective -03	2	--	--	2
TOTAL						09

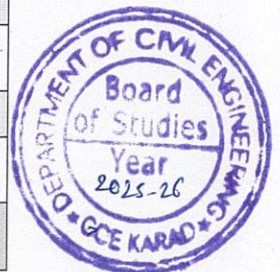



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BASKET OF MULTIDISCIPLINARY MINOR (MDM)

LIST OF BSC COURSES OFFERED SEMESTER WISE						
SEMESTER III						
Sr no.	Course Code	Course	L	T	P	Credits
1.	CE3305	Multi-disciplinary Minor - 01	2	--	--	2
SEMESTER IV						
2.	CE3404	Multi-disciplinary Minor - 02	2	--	--	2
SEMESTER V						
3.	CE3505	Multi-disciplinary Minor - 03	3	--	--	3
4.	CE3510	Multi-disciplinary Minor – 03 Lab	--	--	2	1
SEMESTER VI						
5.	CE3606	Multi-disciplinary Minor - 04	2	--	--	2
SEMESTER VII						
6.	CE3705	Multi-disciplinary Minor - 05	2	--	--	2
SEMESTER VIII						
7.	CE3805	Multi-disciplinary Minor - 06	2	--	--	2
TOTAL						13


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BASKET OF Vocational And Skill Enhancement Course (VSEC)

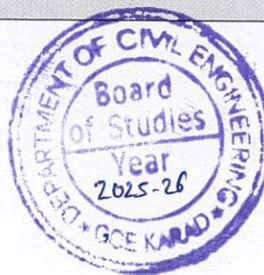
LIST OF VESC COURSES OFFERED SEMESTER WISE						
SEMESTER I						
Sr no.	Course Code	Course	L	T	P	Credits
1.	CE3109	Civil Workshop	--	--	4	2
SEMESTER II						
2.	CE3209	Experiential Learning Lab	-	--	4	2
SEMESTER IV						
7.	CE3408	Geotechnical Engineering Lab	--	--	4	2
SEMESTER VI						
8.	CE3607	Mini Project	-	--	2	1
						01




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BASKET OF HUMANITIES SOCIAL SCIENCE AND MANAGEMENT (HSSM)

LIST OF HSSM COURSES OFFERED SEMESTER WISE						
SEMESTER I						
Sr no.	Course Code	Course	L	T	P	Credits
1.	CE3108	Professional Communication Skills	1	--	2	2
SEMESTER II						
2.	CE3205	Indian Knowledge Systems (MOOC)	--	--	--	2
SEMESTER III						
3.	CE3307	Universal Human Values	2	--	--	2
4.	CE3308	Economics for Engineer	2	--	--	2
SEMESTER IV						
5.	CE3406	Strategic Management	2	--	--	2
6.	CE3407	Professional Ethics	2	--	--	2
TOTAL						12



(6)

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BASKET OF EXPERIENTIAL LEARNING (EL)

LIST OF EL COURSES OFFERED SEMESTER WISE						
SEMESTER IV						
Sr no.	Course Code	Course	L	T	P	Credits
1.	CE3410	Community Engagement Project	--	--	2	1
SEMESTER V						
2.	CE3511	Industrial Training	--	1	--	1
SEMESTER VII						
3.	CE3704	Research Methodology	3	--	--	3
4.	CE3707	Project Phase – I	--	--	14	7
5.	CE3708	Industrial Training	--	1	--	1
SEMESTER VIII						
6.	CE3807	Project Phase – II	--	--	18	9
TOTAL						21




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BASKET OF CO-CURRICULAR AND EXTRACURRICULAR ACTIVITIES(CCA)

LIST OF CCA COURSES OFFERED SEMESTER WISE						
SEMESTER I						
Sr no.	Course Code	Course	L	T	P	Credits
1.	CE3110	Yoga	--	--	2	1
SEMESTER II						
2.	CE3210	NCC/NSS/CSP/E-Cell	--	--	2	1
TOTAL						02




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BASKET OF MOOC

LIST OF MOOC COURSES OFFERED SEMESTER WISE						
SEMESTER VIII (Industry Mode)						
Sr no.	Course Code	Course	L	T	P	Credits
1.	CE3808	MOOC – I	--	--	--	4
2.	CE3809	MOOC – II	--	--	--	4
3.	CE3815	Multi-disciplinary Minor – 06 (MOOC)	2	--	--	2
SEMESTER VIII (Research Mode)						
4.	CE3812	MOOC – I	--	--	--	4
5.	CE3814	MOOC – II	--	--	--	4
TOTAL						18




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