

Government College of Engineering, Karad

SCHEME OF INSTRUCTION & SYLLABI

Programme: Civil Engineering

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

Semester – VIII (**Mode-1-Internship**) (w.e.f. 2026-27)

Sr. No.	Course Category	Course Code	Course Title	L	T	P	Contact Hrs/Wk	Course Credits	EXAM SCHEME			
									MSE	ISE	ESE	TOTAL
1	PEC	CE3811	MOOC - I					3			100	100
2	PEC	CE3812	MOOC - II					3			100	100
3	EL	CE3813	Internship	--	--	--	-	12	-	250	250	500
4	MDM	##	Multi-disciplinary Minor – 06	2	--	--	2	2	20	20	60	100
			Total	2	0	0	2	20	20	270	510	800

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

L- Lecture

T-Tutorial

P-Practical

MSE- Mid Semester Examination

ISE- In Semester Evaluation

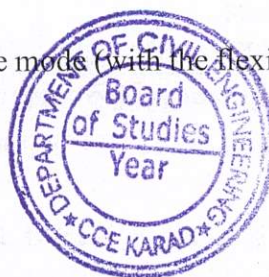
ESE- End Semester Examination (For Laboratory End Semester performance)

Course Category	Basic Science Courses (BSC)	Engineering Science Courses (ESC)	Programme Core Course (PCC)	Programme Elective Course (PEC)	Open Elective other than particular 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	-	-	-	06	02	-	-	12	-
Cumulative Sum	18	13	63	16	22	07	12	21	02

PROGRESSIVE TOTAL CREDITS: 154+20 =174

Note :

For MDM 6 Industry mode students, lectures will be conducted in online mode (with the flexibility of sharing recorded lectures) while MSE & ESE evaluation will be in offline mode.



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Government College of Engineering, Karad

SCHEME OF INSTRUCTION & SYLLABI

Programme: Civil Engineering

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

Semester – VIII (Mode-2-Academic) (w.e.f. 2026-27)

Sr. No.	Course Category	Course Code	Course Title	L	T	P	Contact Hrs/Wk	Course Credits	EXAM SCHEME			
									MSE	ISE	ESE	TOTAL
1	PCC	CE3801	Water Resources Engineering	3	--	--	3	3	20	20	60	100
2	PCC	CE3802	Design of RCC and pre-stressed Concrete structures	3	--	--	3	3	20	20	60	100
3	EL	RM3803	Research Methodology	3	--	--	3	3	20	20	60	100
4	PEC	CE38*4	Program Elective -02	2	--	--	2	2	20	20	60	100
5	MDM	##	Multi-disciplinary Minor - 06	2	--	--	2	2	20	20	60	100
6	PEC	CE38*6	Industry/ Program Elective -03	3	--	--	3	3	20	20	60	100
7	PCC	CE3807	Structural design and drawing II Lab	-	-	2	2	1		25	25	50
8	PEC	CE38*8	Industry/ Program Elective -03 Lab	-	-	2	2	1		25	-	25
9	EL	CE3809	Major project	--	--	08	08	4	-	25	100	125
			Total	15	1	12	28	22	120	195	485	800

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

L- Lecture

T-Tutorial

P-Practical

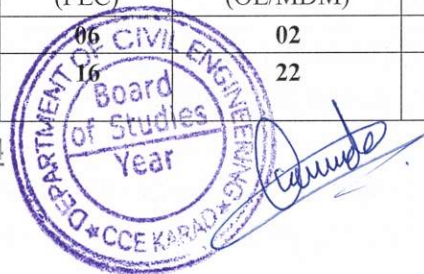
MSE- Mid Semester Examination

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 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	-	-	07	06	02	-	-	07	-
Cumulative Sum	18	13	63	16	22	07	12	21	02

PROGRESSIVE TOTAL CREDITS: 152+22 =174



Government College of Engineering, Karad

SCHEME OF INSTRUCTION & SYLLABI

Programme: Civil Engineering

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

Semester – VII (Mode-2-Internship) (w.e.f. 2026-27)

Sr. No.	Course Category	Course Code	Course Title	L	T	P	Contact Hrs/Wk	Course Credits	EXAM SCHEME			
									MSE	ISE	ESE	TOTAL
1	PEC	CE3711	MOOC - I					3			100	100
2	PEC	CE3712	MOOC - II					3			100	100
3	EL	CE3713	Internship	--	--	--	-	12	-	250	250	500
4	MDM	##	Multi-disciplinary Minor – 05	2	--	--	2	2	20	20	60	100
			Total	2	0	0	2	20	20	270	510	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 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	-	-	-	06	02	-	-	12	-
Cumulative Sum	18	13	56	10	20	07	12	14	02

PROGRESSIVE TOTAL CREDITS: 132+20 =152

Note :

1: Students must choose either Mode 1 or Mode 2 at the beginning of Semester VII.

2. For MDM 5 Industry mode students, lectures will be conducted in online mode (with the flexibility of sharing recorded lectures) while MSE & ESE evaluation will be in offline mode.



Government College of Engineering, Karad

SCHEME OF INSTRUCTION & SYLLABI

Programme: Civil Engineering

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

Semester – VII (Mode-1-Academic) (w.e.f. 2026-27)

Sr. No.	Course Category	Course Code	Course Title	L	T	P	Contact Hrs/Wk	Course Credits	EXAM SCHEME			
									MSE	ISE	ESE	TOTAL
1	PCC	CE3701	Water Resources Engineering	3	--	--	3	3	20	20	60	100
2	PCC	CE3702	Design of RCC and pre-stressed Concrete structures	3	--	--	3	3	20	20	60	100
3	EL	RM3703	Research Methodology	3	--	--	3	3	20	20	60	100
4	PEC	CE37*4	Program Elective -02	2	--	--	2	2	20	20	60	100
5	MDM	##	Multi-disciplinary Minor - 05	2	--	--	2	2	20	20	60	100
6	PEC	CE37*6	Industry/ Program Elective -03	3	--	--	3	3	20	20	60	100
7	PCC	CE3707	Structural design and drawing II Lab	-	-	2	2	1		25	25	50
8	PEC	CE37*8	Industry/ Program Elective -03 Lab	-	-	2	2	1		25	-	25
9	EL	CE3709	Major project	--	--	08	08	4	-	25	100	125
			Total	15	1	12	28	22	120	195	485	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)

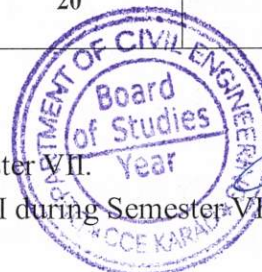
Course Category	Basic Science Courses (BSC)	Engineering Science Courses (ESC)	Programme Core Course (PCC)	Programme Elective Course (PEC)	Open Elective other than particular program (OE/MDM)	Vocational and Skill Enhancement Course (VSEC)	Humanities Social Science and Management (HSSM)	Experiential Learning (EL)	Co-curricular And Extracurricular Activities (CCA)
Credits	-	-	07	06	02	-	-	07	-
Cumulative Sum	18	13	63	10	20	07	12	09	02

PROGRESSIVE TOTAL CREDITS: 132+22 =154

Note :

1: Students must choose either Mode 1 or Mode 2 at the beginning of Semester VII.

2: Mode-1 students are permitted to enroll in MOOC courses of Semester VIII during Semester VII with prior approval of the respective Head of Department. The results of these MOOC courses will be considered in Semester VIII.



List of Program Elective subject:

Program Elective-I CE36*4	CE3614: Advanced Engineering Geology	CE3624: Building Services	CE3634: Analysis of Indeterminate Structure	CE3644: Traffic Engineering	CE3654: Structural Health monitoring	
Program Elective-I labCE36*0	CE3610: Advanced Engineering Geology Lab	CE3620: Building Services Lab	CE3630: Analysis of Indeterminate Structure lab	CE3640: Traffic Engineering Lab	CE3650: Structural Health monitoring Lab	
Program Elective-II CE37*3 / CE38*3	CE3714/ CE3814: Safety Engineering	CE3724/ CE3824: Sustainable Engineering	CE3734/ CE3834: Advanced Design of Concrete Structures	CE3744/ CE3844: Advanced Construction Practices	CE3754/ CE3854: Advanced Structural Analysis	
Program Elective-III CE37*6 / CE38*6	CE3716/ CE3816: Environmental auditing and management system	CE3726/ CE3826: Disaster management	CE3736/ CE3836: Remote Sensing and GIS	CE3746/ CE3846: Earthquake Engineering	CE3756/ CE3856: Repairs and Rehabilitation of Structures	CE3766/ CE3866: Industrial Practices in Civil Engineering (Industry Elective)
Program Elective-III Lab CE37*8 / CE38*8	CE3718/ CE3818: Environmental auditing and management system Lab	CE3728/ CE3828: Disaster management Lab	CE3738/ CE3838: Remote Sensing and GIS Lab	CE3748/ CE3848: Earthquake Engineering Lab	CE3758/ CE3858: Repairs and Rehabilitation of Structures Lab	CE3768/ CE3868: Industrial Practices in Civil Engineering Lab (Industry Elective)

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Basic Science Courses (BSC) Bucket for Semester I							
Sr. No.	Course Code	Name	Lecture	Tutorial	Practical	Credits	Semester
1	BSC-101	Physics	2	0	2	3	I
2	BSC-102	Electromagnetism and Optics	3	0	0	3	I
3	BSC-103	Biology for Engineering	2	0	2	3	I
4	BSC-104	Mathematics-I	2	1	0	3	I
5	BSC-105	Linear Algebra and Calculus	2	1	0	3	I

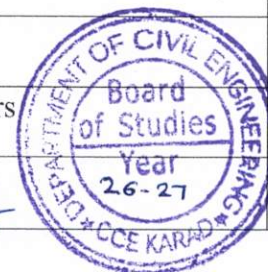
Basic Science Courses (BSC) Bucket for Semester II							
Sr. No.	Course Code	Name	Lecture	Tutorial	Practical	Credits	Semester
1	BSC-201	Mathematics-II	3	1	0	3	II
2	BSC-202	Probability Statistics and Random Processes	3	1	0	3	II
3	BSC-203	Complex Analysis & Differential Equation	3	1	0	3	II
4	BSC-204	Chemistry	3	0	0	3	II
5	BSC-205	Optimization Methods and Applications	2	0	0	2	II
6	BSC-206	Environmental Science	2	0	0	2	II
7	BSC-207	Computational Statistics	2	0	0	2	II

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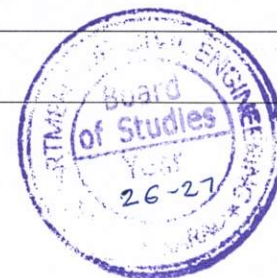


List of Multi-disciplinary Minor (Departmental)

Offered by Department	Sr.No.	Course category	Course code & Title	Semester
Civil Engineering	1	Multi-disciplinary Minor - 01	CE3305: Basic civil engineering	III
	2	Multi-disciplinary Minor – 02	CE3404: Building materials	IV
	3	Multi-disciplinary Minor – 03	CE3505: Building planning and drawing	V
	4	Multi-disciplinary Minor Lab – 03	CE3510: Building planning and drawing lab	V
	5	Multi-disciplinary Minor – 04	CE3606: Building services	VI
	6	Multi-disciplinary Minor – 05	CE3705: Smart building I	VII
	7	Multi-disciplinary Minor - 06	CE3805: Smart building II	VIII
Mechanical Engineering	1	Multi-disciplinary Minor - 01	ME3304: Material Science	III
	2	Multi-disciplinary Minor – 02	ME3405: Analysis of Mechanical elements	IV
	3	Multi-disciplinary Minor – 03	ME3505: Thermal and Energy Engineering	V
	4	Multi-disciplinary Minor Lab – 03	ME3509: Mechanical Engineering Lab	V
	5	Multi-disciplinary Minor – 04	ME3606: Manufacturing Engineering	VI
	6	Multi-disciplinary Minor – 05	ME3705: Energy Conservation and Management	VII
	7	Multi-disciplinary Minor - 06	ME3805: Mechanical System Design	VIII
Electrical Engineering	1	Multi-disciplinary Minor - 01	EE3304: DC Machines and Transformers	III
	2	Multi-disciplinary Minor – 02	EE3404: AC Machines	IV

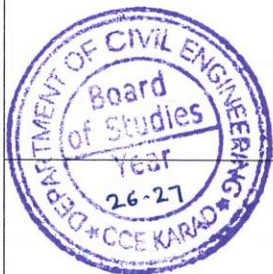


	3	Multi-disciplinary Minor – 03	EE3505: Basics of Power System	V
	4	Multi-disciplinary Minor Lab – 03	EE3510: Electrical Machine Lab	V
	5	Multi-disciplinary Minor – 04	EE3606: Electrical Drives	VI
	6	Multi-disciplinary Minor – 05	EE3705: Switchgear and Protection	VII
	7	Multi-disciplinary Minor - 06	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



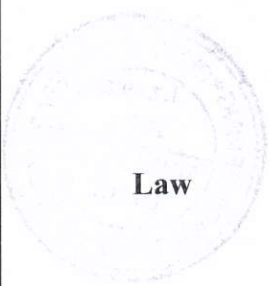
List of Multi-disciplinary Minor (Institute Level-Industrial)

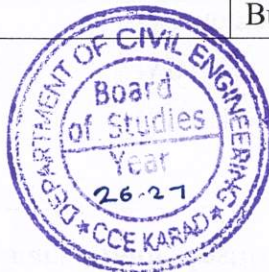
Stream/Technology	Sr.No.	Course category	Course code & Title	Semester
Electrical Vehicle (Electrical Engineering- Institute Level-Industrial)	1	Multi-disciplinary Minor - 01	IMI3311: Foundation of EV and Hybrid Vehicle	III
	2	Multi-disciplinary Minor – 02	IMI3412: EV Battery Technology and Powertrain 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: Electrical Vehicle Dynamics	VII
	7	Multi-disciplinary Minor - 06	IMI3837: Systems Engineering Approach to EV Design	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



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

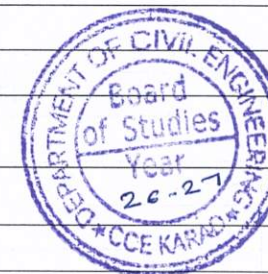
Electronics & Telecommunications Engineering Department

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

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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

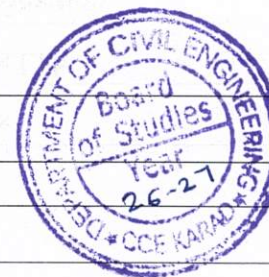
Open Elective	Course Code	Course Title	Sem
Open Elective-I	IOE3321	IoT Hardware and Sensors	III
Open Elective-I lab	IOE3322	IoT Hardware and Sensors lab	III
Open Elective-II	IOE3423	Fundamentals of AIoT	IV
Open Elective-III	IOE3524	Cloud Services for IoT	V

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

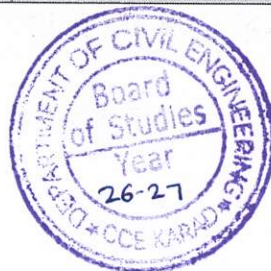
Open Elective	Course Code	Course Title	Sem
Open Elective-I	IOE3341	ABAP Programming for SAP HANA	III
Open Elective-I lab	IOE3342	ABAP programming in Eclipse LAB	III
Open Elective-II	IOE3443	SAP HANA	IV
Open Elective-III	IOE3544	SAP PROJECT	V



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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.	CE3111	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.	CE3211	Programming for problem solving Lab	-	-	2	1
TOTAL						13



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BASKET OF PROGRAMME ELECTIVE COURSE (PEC)

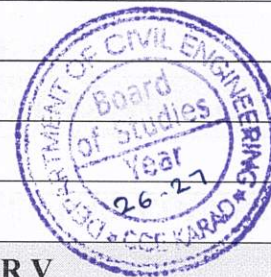
LIST OF PEC COURSES OFFERED SEMESTER WISE						
SEMESTER VI						
Sr no.	Course Code	Course	L	T	P	Credits
1.	CE36*4	Program Elective-01	3	--	--	3
2.	CE36*0	Program Elective -01 Lab	--	--	2	1
SEMESTER VII / VIII						
3.	CE37*4/ CE38*4	Program Elective -02	2	--	--	2
4.	CE37*6 / CE38*6	Industry/ Program Elective -03	3	--	--	3
5.	CE37*8 / CE38*8	Industry/ Program Elective -03 Lab	--	--	2	1
TOTAL						10



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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



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15.	CE3503	Transportation Engineering	3	--	--	3
16.	CE3504	Design of steel structure	3	--	--	3
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 / VIII						
27.	CE3701/ CE3801	Water Resources Engineering	3	--	--	3
28.	CE3702 / CE3802	Design of RCC and pre-stressed Concrete structures	3	--	--	3
29.	CE3707 / CE3807	Structural design and drawing II Lab	-	-	2	1
TOTAL						63



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						14



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BASKET OF Vocational And Skill Enhancement Course (VSEC)

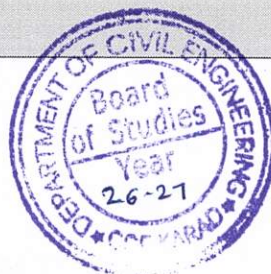
LIST OF VESC COURSES OFFERED SEMESTER WISE						
SEMESTER I						
Sr no.	Course Code	Course	L	T	P	Credits
1.	MS3112	Maker Space Lab-I	--	--	4	2
SEMESTER II						
2.	MS3212	Maker Space Lab-Ii	-	--	4	2
SEMESTER IV						
7.	CE3408	Geotechnical Engineering Lab	--	--	4	2
SEMESTER VI						
8.	CE3607	Mini Project	-	--	2	1
						07





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





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 / VIII						
3.	RM3703/ RM3803	Research Methodology	3	--	--	3
4.	CE3709 / CE3809	Major project	--	--	08	4
5.	CE3713 / CE3813	Internship	--	1	--	12
TOTAL						21



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 VII / VIII (Internship)						
Sr no.	Course Code	Course	L	T	P	Credits
1.	CE3808	MOOC – I	--	--	--	3
2.	CE3809	MOOC – II	--	--	--	3
TOTAL						06

