Government College of Engineering, Karad

(An Autonomous Institute of Government of Maharashtra)

B. Tech. Fourth year - Civil Engineering

Curriculum Structure- Semester -VII

Sr. No.	Course Category	Course Code	Course Title	L	T	P	Contact Hrs/Wk	Credits	EXAM SCHEME				
									CT1	CT2	TA/ CA	ESE	TOTAL
1	PC	CE1701	Quantity Surveying & Valuation	3	-	-	3	3	15	15	10	60	100
2	PC	CE1702	Construction Planning and Management	3	1	-	4	4	15	15	10	60	100
3	PC	CE1703	Structural Dynamics and Earthquake Engineering	3	-	-	3	3	15	15	10	60	100
4	PC	CE 1704	Limit State Design of Concrete Structures	3	1	-	4	4	15	15	10	60	100
5	PE	CE 17*5	Elective I	4	1	-	5	5	15	15	10	60	100
6	PC	CE 1706	Quantity Surveying & Valuation Lab	-	-	2	2	1	-	-	25	25	50
7	PC	CE1707	Limit State Design of Concrete Structures Lab	-	-	2	2	1	-	-	25	25	50
8	PC	CE1708	Seminar	1	-	-	1	1	-	-	50	-	50
9	PC	CE1709	Construction Equipment and Techniques	3	-	-	3	3	15	15	10	60	100
10	PC	CE1710	Industrial Training Presentation	-	-	1	1	2			50		50
			Total	17	2	07	28	27	75	75	250	400	800

*Elective- I list is provided at the end of the structure

 # SEMINAR: There will be two presentations, first will be based on Industrial training and another on topic to be selected in consultation with guide.

CT1- ClassTest1 TA/CA- Teacher Assessment/Continuous Assessment

CT2- ClassTest2 ESE- End Semester Examination (For Laboratory End SemesterPerformance)

Credits Distribution

Course Category	HS (Hum. And So. Sic)	BS (Basic Sc.)	ES (Eng. Sc.)	PC (Programme Core)	PE(Programme Electives)	OE (Open Elective)	MC (Mandatory Course)
Credits	-	-	-	22	5	-	-
Cumulative Sum	9	22	28	106	5	3	-

Government College of Engineering, Karad

(An Autonomous Institute of Government of Maharashtra)

B. Tech. Fourth year - Civil Engineering

Curriculum Structure

Semester –VIII

(Academic track)

Sr. No.	Course Category	Course Code	Course Title	L	T	P	Contact Hrs/Wk	Credits	EXAM SCHEME				
									CT1	CT2	TA/CA	ESE	TOTAL
1	PC	CE1801	Design of Concrete Structure	4	-	--	4	4	15	15	10	60	100
2	PE	CE18*2	Elective II	3	-	-	3	3	15	15	10	60	100
3	PE	CE18*3	Elective III	3	-	-	3	3	15	15	10	60	100
4	PE	CE18*5	Elective II Lab	-	-	2	2	1	-	-	50	50	100
5	PC	CE1806	Design & Drawing of RC Structures	-	-	4	4	2	-	-	50	50	100
6	PC	CE1808	Project	-	-	10	10	12	-	-	100	200	300
			Total	15	00	16	26	25	60	60	230	480	800

*Elective- II and Elective III list is provided at the end of the structure

*Any failure students in course code CE804 shall appear along with the VIIth semester students.

CT1- ClassTest1 TA/CA- Teacher Assessment/Continuous Assessment

CT2- ClassTest2 ESE- End Semester Examination (For Laboratory End SemesterPerformance)

Credits Distribution

Course Category	HS (Hum. And So. Sic)	BS (Basic Sc.)	ES (Eng. Sc.)	PC (Programme Core)	PE(Programme Electives)	OE (Open Elective)	MC (Mandatory Course)
Credits				18	7		
Cumulative Sum	9	22	28	124	12	3	0

Government College of Engineering, Karad

(An Autonomous Institute of Government of Maharashtra)

B. Tech. Fourth year - Civil Engineering

Curriculum Structure

Semester - VIII

(Industry track)

Sr. No.	Course Category	Course Code	Course Title	L	T	P	Contact Hrs./Wk.	Credits	EXAM SCHEME				
									CT1	CT2	TA/CA	ESE	TOTAL
1	PE	CE1804*	MOOC-1	-	-	-	-	3	-	-	-	-	-
2	PE	CE1807*	MOOC-2	-	-	-	-	3	-	-	-	-	-
3	PC	CE1809	Industry Project	-	-	24	24	19	-	-	100	200	300
			Total	-	-	24	24	25	-	-	-	-	300

* CE1804*andCE1807*- Any subject related to project and approved by guide.

CT1- Class Test 1 TA/CA- Teacher Assessment/Continuous Assessment

CT2- Class Test 2 ESE- End Semester Examination (For Laboratory: End Semester Performance)

Credits distribution

Course Category	HS (Hum. And So. Sci)	BS (Basic Sc.)	ES (Eng. Sc.)	PC (Programme Core)	PE (Programme Electives)	OE (Open Elective)	MC (Mandatory Course)
Credits	-	-	-	19	6	-	-
Cumulative Sum	9	22	28	124	12	3	-

Programme: Civil Engineering
List of Elective offered by Civil Engineering Department

Open Elective	Elective-I	Elective-II	Elective- II Lab	Elective-III
Semester – VI	**Semester - VII**	**Semester - VIII**	**Semester - VIII**	**Semester - VIII**
OE611 Building Services	**CE1715** Advanced Structural Analysis	**CE1812** Advanced Design of Concrete Structure	**CE1815** Advanced Design of Concrete Structure Lab	**CE1813** Repairs & Rehabilitation of Structures
	CE1725 Hydraulic Structures	**CE1822** Channel and River Hydraulics	**CE1825** Channel and River Hydraulics Lab	**CE1823** Water Distribution Systems
	CE1735 Advanced Foundation Design	**CE1832** Pre-Stressed Concrete Design	**CE1835** Pre-Stressed Concrete Design Lab	**CE1833** Rock Mechanics
	CE1745 Remote Sensing	**CE1842** Advanced Engineering Geology	**CE1845** Advanced Engineering Geology Lab	**CE1843** Advanced Construction Techniques
	CE1755 Traffic Engineering	**CE1852** Pavement Design	**CE1855** Pavement Design Lab	**CE1853** Legal Aspects in Civil Engineering
	CE1765 Advanced Water Treatment	**CE1862** Industrial Wastewater Treatment	**CE1865** Industrial Wastewater Treatment Lab	**CE1863** Solid Waste Management
	CE1775 Finite Element Method	**CE1872** Bridge Engineering	**CE1875** Bridge Engineering Lab	**CE1873** Ground Improvement Techniques
	CE1785 Hydropower Engineering	**CE1882** Watershed Development and Management	**CE1885** Watershed Development and ManagementLab	

Note: -Maximum number of students should be 30 or 50% of class strength, whichever is greater. Also, minimum number of students shall be 15 to offer any elective