

GOVERNMENT COLLEGE OF ENGINEERING JALGAON

Department of Civil Engineering.  
Scheme for B.Tech (Civil Engineering)

SEM I

Course Code	Name of the Course	Group	Teaching Scheme Hrs /week				Evaluation Scheme							Credits
			TH	TU	PR	Total	Theory				Practical			
							ISA	ISE1	ISE2	ESE	ICA	ESE	Total	
SH101	Engineering Mathematics-I	A	3	1	---	4	10	15	15	60	---	---	100	4
SH102	Applied Physics	A	4	---	---	4	10	15	15	60	---	---	100	4
CO101	Computer Fundamentals and C Programming	B	3	--	---	3	10	15	15	60	---	---	100	3
CE101	Engineering Mechanics	B	3	1	---	4	10	15	15	60	---	---	100	4
ET101	Basic Electronics Engineering	B	2	---	---	2	4	8	8	30	---	---	50	2
ME101	Workshop Practice-I	B	--	---	2	2	---	---	---	---	50	---	50	1
SH103	Applied Physics Lab	A	---	---	2	2	---	---	---	---	50	---	50	1
CO102	Computer Fundamentals and C Programming Lab	B	---	---	4	4	---	---	---	---	50	---	50	2
CE102	Engineering Mechanics-Lab	B	---	---	2	2	---	---	---	---	50	---	50	1
ET102	Basic Electronics Engineering Lab	B	---	---	2	2	---	---	---	---	50	---	50	1
Total			15	02	12	29	44	68	68	270	250	---	700	23

SEM II

Course Code	Name of the Course	Group	Teaching Scheme Hrs /week				Evaluation Scheme							Credits
			TH	TU	PR	Total	Theory				Practical			
							ISA	ISE1	ISE2	ESE	ICA	ESE	Total	
SH151	Engineering Mathematics-II	A	3	1	---	4	10	15	15	60	---	---	100	4
SH152	Applied Chemistry	A	4	---	---	4	10	15	15	60	---	---	100	4
ME151	Engineering Graphics	B	3	---	---	3	10	15	15	60	---	---	100	3
EE151	Basic Electrical Engineering	B	2	---	---	2	4	8	8	30	---	---	50	2
SH153	Environmental Studies	A	3	---	---	3	10	15	15	60	---	---	100	3
ME152	Workshop Practice-II	B	--	---	2	2	---	---	---	---	50	--	50	1
SH154	Applied Chemistry Lab	A	---	---	2	2	---	---	---	---	50	--	50	1
ME153	Engineering Graphics Lab	B	---	---	4	4	---	---	---	---	50	--	50	2
EE152	Basic Electrical Engineering Lab	B	---	---	2	2	---	---	---	---	50	--	50	1
SH155	General Proficiency -I	C	1	---	2	3	---	---	---	---	50	--	50	2
Total			16	1	12	29	44	68	68	270	250	--	700	23

**TH: Theory Lecture**

**ISA: Internal Sessional Assessment**

**TUT: Tutorial**

**ISE : In Semester Examination**

**PR: Practical**

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SEM III

Course Code	Name of the Course	Group	Teaching Scheme Hrs /week				Evaluation Scheme							Credits
			TH	TU	PR	Total	Theory				Practical			
							ISA	ISE1	ISE2	ESE	ICA	ESE	Total	
CE201	Surveying-I	D	3	1	---	4	10	15	15	60	---	---	100	4
CE202	Engineering Geology and Hydrology	B	3	---	---	3	10	15	15	60	---	---	100	3
CE203	Strength of Material	D	3	1	---	4	10	15	15	60	---	---	100	4
CE204	Fluid Mechanics-I	D	3	---	---	3	10	15	15	60	---	---	100	3
CE205	Building Construction and Materials	D	3	---	---	3	10	15	15	60	---	---	100	3
CE255	Computer Applications in Civil Engineering-LAB	B	1	---	2	3	---	---	---	---	50	--	50	2
CE206	Engineering Geology and Hydrology-LAB	B	---	---	2	2	---	---	---	---	50	---	50	1
CE207	Surveying-I-LAB	D	---	---	2	2	---	---	---	---	25	25	50	1
CE208	Fluid Mechanics-I-LAB	D	---	---	2	2	---	---	---	---	25	25	50	1
CE209	Building Construction and Materials-LAB	D	---	---	2	2	---	---	---	---	25	25	50	1
Total			16	02	10	28	50	75	75	300	175	75	750	23

SEM IV

Course Code	Name of the Course	Group	Teaching Scheme Hrs /week				Evaluation Scheme							Credits
			TH	TU	PR	Total	Theory				Practical			
							ISA	ISE1	ISE2	ESE	ICA	ESE	Total	
SH252	Engineering Math-III	A*	3	1	---	4	10	15	15	60	---	---	100	4
CE251	Concrete Technology	D	3	1	---	4	10	15	15	60	---	---	100	4
CE252	Surveying-II	D	3	---	---	3	10	15	15	60	---	---	100	3
CE253	Building Design and Drawing	D	3	---	---	3	10	15	15	60	---	---	100	3
CE254	Engineering Economics and Humanities	C	3	---	---	3	10	15	15	60	---	---	100	3
SH204	General Proficiency-II	C	1	---	2	3	---	---	---	---	25	25	50	2
CE256	Concrete Technology -LAB	D	---	---	2	2	---	---	---	---	25	25	50	1
CE257	Surveying-II -LAB	D	---	---	2	2	---	---	---	---	25	25	50	1
CE258	Building Design and Drawing-LAB	D	---	---	2	2	---	---	---	---	25	25	50	1
CE259	Strength of Material -LAB	D	---	---	2	2	---	---	---	---	25	25	50	1
Total			16	02	10	28	50	75	75	300	125	125	750	23

**TH: Theory Lecture**

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SEM V

Course Code	Name of the Course	Group	Teaching Scheme Hrs /week				Evaluation scheme							Credits
			TH	TU	PR	Total	Theory				Practical			
							ISA	ISE1	ISE2	ESE	ICA	ESE	Total	
CE301	Basic Theory of Structures	D	3	---	---	3	10	15	15	60	---	---	100	3
CE302	Design of RCC Structures	D	3	---	---	3	10	15	15	60	---	---	100	3
CE303	Geotechnical Engineering	D	3	---	---	3	10	15	15	60	---	---	100	3
CE304	Environmental Engineering-I	D	3	---	---	3	10	15	15	60	---	---	100	3
CE305	Fluid Mechanics-II	D	3	---	---	3	10	15	15	60	---	---	100	3
CE306	Design of RCC Structures -LAB	D	---	---	2	2	---	---	---	---	25	25	50	1
CE307	Geotechnical Engineering -LAB	D	---	---	2	2	---	---	---	---	25	25	50	1
CE308	Environmental Engineering-I-LAB	D	---	---	2	2	---	---	---	---	25	25	50	1
CE309	Fluid Mechanics-II-LAB	D	--	---	2	2	---	---	---	---	50	--	50	1
CE310	Testing of Materials-LAB	B	1	---	2	3	---	---	---	---	25	25	50	2
CE311	Self Study(CE301/CE302/CE303/CE304/CE305)	D	---	---	--	--	---	---	---	---	--	--	50**	2
Total			16		10	26	50	75	75	300	150	100	800	23

**TH: Theory Lecture**

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**TUT: Tutorial**

**ISE : In Semester Examination**

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- **\*\*Marks and hence grade of course Self Study shall be based on one test each conducted on 20% syllabus of five subjects - CE301, CE302, CE303, CE304, CE305. One faculty member should be appointed as course coordinator for the course 'self study' to compile the marks of all tests and enter in to MIS.**
- **The 20% syllabus for self - study shall be declared by subject teacher at the beginning of semester and he/she shall conduct the test examination for that course, assess answer papers of test examination and submit the marks to course coordinator**

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SEM VI

Course Code	Name of the Course	Group	Teaching Scheme Hrs /week				Evaluation Scheme						Credits	
			TH	TU	PR	Total	Theory				Practical			
							ISA	ISE1	ISE2	ESE	ICA	ESE		Total
CE351	Advanced Theory of Structures	D	3	---	---	3	10	15	15	60	---	---	100	3
CE352	Design of Steel Structures	D	3	---	---	3	10	15	15	60	---	---	100	3
CE353	Foundation Engineering	D	3	---	---	3	10	15	15	60	---	---	100	3
CE354	Environmental Engineering-II	D	3	---	---	3	10	15	15	60	---	---	100	3
CE355	Construction Management	C	3	---	---	3	10	15	15	60	---	---	100	3
CE356	Design of Steel Structures -LAB	D	---	---	2	2	---	---	---	---	25	25	50	1
CE357	Foundation Engineering -LAB	D	---	---	2	2	---	---	---	---	50	--	50	1
CE358	Environmental Engineering-II-LAB	D	---	---	2	2	---	---	---	---	25	25	50	1
CE359	Software's in Civil Engineering-LAB	B	---	---	2	2	---	---	---	---	25	25	50	1
CE360	Mini Project	D	---	---	2	2	---	---	---	---	25	25	50	2
CE361	Self Study(CE351/CE352/CE353/CE354/CE355)	D	---	---	---	---	---	---	---	---	--	---	50**	2
CE362	Industrial Lecture	D	1	---	---	1	---	---	---	---	--	---	--	---
Total			16	---	10	26	50	75	75	300	150	100	800	23

**TH: Theory Lecture**

**TUT: Tutorial**

**PR: Practical**

**ISA: Internal Sessional Assessment**

**ISE : In Semester Examination**

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\*Evaluation of the course CE362 Industrial Lectures shall be done in VIII th semester along with the subject CE460 Industrial Lectures

- **\*\*Marks and hence grade of course Self Study shall be based on one test each conducted on 20% syllabus of five subjects-CE351,CE352,CE353, CE354, CE355. One faculty member should be appointed as course coordinator for the course 'self study' to compile the marks of all tests and enter in to MIS.**
- **The 20% syllabus for self - study shall be declared by subject teacher at the beginning of semester and he/she shall conduct the test examination for that course, assess answer papers of test examination and submit the marks to course coordinator.**

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SEM VII

Course Code	Name of the Course	Group	Teaching Scheme Hrs /week				Evaluation Scheme							Credits
			TH	TU	PR	Total	Theory				Practical			
							ISA	ISE1	ISE2	ESE	ICA	ESE	Total	
CE401	Estimating and Costing	D	3	---	---	3	10	15	15	60	---	---	100	3
CE402	Water Resources Engineering-I	D	3	---	---	3	10	15	15	60	---	---	100	3
CE403	Construction Safety and Disaster Management	C	2	---	---	2	4	8	8	30	---	---	50	2
CE404	(Elective-I)	E	3	---	---	3	10	15	15	60	---	---	100	3
CE405	(Inter disciplinary elective)	E	3	---	---	3	10	15	15	60	---	---	100	3
CE406	Estimating and Costing-LAB	D	---	---	2	2	---	---	---	---	25	25	50	1
CE407	Water Resources Engineering-I-LAB	D	---	---	2	2	---	---	---	---	25	25	50	1
CE408	(Elective) -LAB	E	---	---	2	2	---	---	---	---	25	25	50	1
CE409	Project phase I	D	---	---	2	2	---	---	---	---	50	50	100	2
CE410	Seminar	D	---	---	2	2	---	---	---	---	25	25	50	2
CE411	Self Study-3(CE401/CE402/CE403/CE404/CE405)	D	---	---	---	---	---	---	---	---	---	---	50**	2
Total			14	---	10	24	44	68	68	270	150	150	800	23

**TH: Theory Lecture**

**ISA: Internal Sessional Assessment**

**TUT: Tutorial**

**ISE : In Semester Examination**

**PR: Practical**

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**Interdisciplinary Elective**

- A Town and Country Planning
- B Industrial Pollution and Control
- C Operation Research
- D Safety and Disaster Management

**Elective I**

- A Advanced Structural Analysis
- B Matrix Analysis of Structures
- C Advanced Soil Mechanics
- D Hydraulic Structures

- **\*\*Marks and hence grade of course Self Study shall be based on one test each conducted on 20% syllabus of five subjects–CE401,CE402,CE403,CE404,CE405. One faculty member should be appointed as course coordinator for the course ‘self study’ to compile the marks of all tests and enter in to MIS.**
- **The 20% syllabus for self - study shall be declared by subject teacher at the beginning of semester and he/she shall conduct the test examination for that course, assess answer papers of test examination and submit the marks to course coordinator.**

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SEM VIII

Course Code	Name of the Course	Group	Teaching Scheme Hrs /week				Evaluation Scheme							Credits
			TH	TU	PR	Total	Theory				Practical			
							ISA	ISE1	ISE2	ESE	ICA	ESE	Total	
CE451	Water Resources Engineering-II	D	3	---	---	3	10	15	15	60	---	---	100	3
CE452	Transportation Engineering	D	3	---	---	3	10	15	15	60	---	---	100	3
CE453	(Elective-II)	E	3	---	---	3	10	15	15	60	---	---	100	3
CE454	(Elective-III)	E	3	---	---	3	10	15	15	60	---	---	100	3
CE455	Water Resources Engineering-II-LAB	D	---	---	2	2	---	---	---	---	25	25	50	1
CE456	Transportation Engineering-LAB	D	---	---	2	2	---	---	---	---	25	25	50	1
CE457	(Elective-II) -LAB	E	---	---	2	2	---	---	---	---	25	25	50	1
CE458	Project Phase II	D	---	---	4	4	---	---	---	---	50	100	150	4
CE459	Industrial Visit	D	---	---	---	---	---	---	---	---	25	---	25	1
CE460	Industrial Lecture	D	1	---	---	1	---	---	---	---	25	---	25	1
CE461	Self Study- 4 (CE451/CE452/CE453/CE454)	D	---	---	---	---	---	---	---	---	--	---	50**	2
Total			13		10	23	40	60	60	240	175	175	800	23

**TH: Theory Lecture**

**ISA: Internal Sessional Assessment**

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**Elective II**

- A Advanced Design of Steel Structures
- B Pavement Design
- C Advanced Wastewater Treatment
- D Advanced Foundation Engineering

**Elective III**

- A Earthquake Resistant Design
- B Advanced Fluid Mechanics
- C Remote Sensing & Geographical Information system
- D Railway, Tunnel and Airport Engineering

- **\*\*Marks and hence grade of course Self Study shall be based on one test each conducted on 20% syllabus of four subjects – CE451, CE452,CE453,CE454. One faculty member should be appointed as course coordinator for the course ‘self study’ to compile the marks of all tests and enter in to MIS.**
- **The 20% syllabus for self - study shall be declared by subject teacher at the beginning of semester and he/she shall conduct the test examination for that course, assess answer papers of test examination and submit the marks to course coordinator.**
- **In the course Industrial Lecture, at least 12 lectures from industrial expert should be arranged and continuously assessed (6 lectures in VIth and VIIIth semester each)**