

Sanjivani College of Engineering, Kopergaon

(An Autonomous Institute) Affiliated to Savitribai Phule Pune University.

At Sahajanandnagar, Post Shingnapur-423603, Ta.: Kopergaon, Dist.: Ahmednagar (MS)

Approved by AICTE, ISO 9001-2015 Certified, Accredited by NBA, Accredited 'A' Grade by NAAC,

Website: www.sanjivanicoe.org.in, Email: principalcoe@sanjivani.org.in,

Ph.No.: (+91) 9130191301, Fax: (02423)-222682



Department of Structural Engineering

B.Tech. (Structural Engineering) (2021-Pattern_Revised)

Members of Board of Studies (BoS)

Sr. No.	Designation	Name	Address
1	Chairman	Dr. A. S. Sayyad	Prof. & Head Department of Structural Engineering
2	Member	All Faculty	Department of Structural Engineering
3	Member (Subject Experts Outside Parent University)	Dr. Y. M. Ghugal	Prof. & Head, Department of Civil Engineering, Govt. COE Karad
4	Member (Subject Experts Outside Parent University)	Dr. S. S. Jamkar	Professor, Applied Mechanics Department, Govt. COE, Aurangabad
5	Co-opt Members (Subject Expert)	Dr. Mrs. S. N. Madhekar	Professor, Department of Applied Mechanics, College of Engineering, Pune (COEP)
6	Subject Expert (Parent University Nominated by VC)	Dr. M. S. Ranadive	Prof. & Head, Department of Civil Engineering, College of Engineering, Pune (COEP)
7	Industry Representative	Er. Ravindra Joshi	Director, PAN GULF Technologies Pvt. Ltd. Mumbai.
8	Industry Representative	Er. Shaikh M. Iqbal	Executive Engineer, PWD Maharashtra, Aurangabad.
9	Meritorious Alumni	Er. Sandhya Unde	Deputy Manager, Technimont Pvt. Ltd. , Mumbai

Course Structure w.e.f. 2021-22

List of Abbreviations			
Abbreviation	Full Form	Abbreviation	Full Form
ES	Engineering Science	HS	Humanity Science
PC	Professional Core	CA	Continuous Assessment
PE	Professional Elective	OR	Oral
OE	Open Elective	PR	Practical
ISE	In-Semester Evaluation	TW	Term work
ESE	End-Semester Evaluation	MLC	Mandatory Learning Course
BSC	Basic Science Course	PRJ	Project/Seminar/Internship/Online Course

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Semester-III

Cat	Course Code	Course Title	Teaching Scheme (Hrs./Week)			Credits	Evaluation Scheme (Marks)					
			L	T	P		Theory					Total
							CIA	ESE	OR	PR	TW	
PC	BS202	Engineering Mathematics-III	3	1	-	4	40	60	-	-	-	100
PC	ST202	Mechanics of Solids	3	1	-	4	40	60	-	-	-	100
PC	ST203	Python for Beginners	3	-	-	3	40	60	-	-	-	100
PC	ST204	Architectural Planning and Drawing	3	-	-	3	40	60	-	-	-	100
HS	HS205	Universal Human Values and Ethics	3	-	-	3	40	60	-	-	-	100
PC	ST206	Mechanics of Solids Lab.	-	-	2	1	-	-	50	-	-	50
PC	ST207	Python for Beginners Lab	-	-	2	1	-	-	-	-	25	25
PC	ST208	Architectural Planning and Drawing Lab	-	-	2	1	-	-	-	-	50	50
PRJ	ST209	Seminar	-	-	4	2	-	-	25	-	-	25
MLC	MLC210	Mandatory learning Course-III-(Constitution of India)	2	-	-	Pass/Fail	-	-	-	-	-	-
Total			17	2	10	22	200	300	75	-	75	650

Semester-IV

Cat	Course Code	Course Title	Teaching Scheme (Hrs./Week)			Credits	Evaluation Scheme (Marks)					
			L	T	P		Theory					Total
							CIA	ESE	OR	PR	TW	
PC	ST211	Mechanics of Fluids	3	-	-	3	40	60	-	-	-	100
PC	ST212	Concrete Technology	3	-	-	3	40	60	-	-	-	100
PC	ST213	Geotechnical Engineering	3	-	-	3	40	60	-	-	-	100
PC	ST214	Infrastructure Engineering	3	-	-	3	40	60	-	-	-	100
PC	ST215	Analysis of Determinate Structures	3	1	-	4	40	60	-	-	-	100
HS	HS216	Corporate Readiness-I	1	-	-	1	-	-	-	-	50	50
PC	ST217	Computer Aided Drawings Lab	-	-	2	1	-	-	-	-	25	25
PC	ST218	Geotechnical Engineering Lab	-	-	2	1	-	-	50	-	-	50
PC	ST219	Concrete Technology Lab	-	-	2	1	-	-	50	-	-	50
PC	ST220	Mechanics of Fluids Lab.	-	-	2	1	-	-	50	-	-	50
PRJ	ST221	Sports	-	-	2	1	-	-	-	25	-	25
MLC	MLC222	Mandatory Learning Course-IV (Innovation)	2	-	-	Pass/Fail	-	-	-	-	-	-
Total			18	1	10	22	200	300	150	25	75	750

Semester-V

Cat	Course Code	Course Title	Teaching Scheme (Hrs./Week)			Credits	Evaluation Scheme (Marks)					
			L	T	P		Theory		OR	PR	TW	Total
							CIA	ESE				
PC	ST301	Analysis of Indeterminate Structures	03	-	-	03	40	60	-	-	-	100
PC	ST302	Design of Steel Structures	03	1	-	04	40	60	-	-	-	100
PC	ST303	Foundation Engineering	03	-	-	03	40	60	-	-	-	100
PC	ST304	Construction Planning and Management	03	-	-	03	40	60	-	-	-	100
PE	ST305	Professional Elective-I	03	-	-	03	40	60	-	-	-	100
PC	ST306	Surveying	02	-	-	02	20	30	-	-	-	50
PC	ST307	Surveying Lab	-	-	02	01	-	-	-	50	-	50
PC	ST308	Computer Aided Analysis and Design -I	-	-	04	02	-	-	-	50	50	100
MLC	MLC309	Mandatory Learning Course-V (Sports)		-	2	Pass/Fail	-	-	-	-	-	-
Total			17	1	08	21	220	330	-	100	50	700

List of Professional Electives

Track	Professional Elective -I	Professional Elective -II	Professional Elective -III	Professional Elective -IV
Competitive Services	Advanced Surveying	Hydrology and Irrigation Engineering	Water Supply Engineering	Estimating, Costing and Valuation
Entrepreneur/ Private sector	Design of Formwork	Design of Equipment Foundation	International Design Standards	Structural Audit and Health monitoring
Higher Studies	Matrix Methods of Structural Analysis	Advanced Concrete Technology	Theory of Elasticity	Introduction to Theory of Plates and Shells

BOS Chairman

Dean Academics

Director

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Department of Structural Engineering

B.Tech. Honors

Honors Course –: Building Information Modeling

Semester	Course Code	Course Title	Teaching Scheme (Hrs./Week)			Credits	Evaluation Scheme (Marks)						
			L	T	P		Theory			OR	PR	TW	Total
							CIA	ISE	ESE				
V(I)	ST8101	Revit Architecture	04	-	-	04	40	-	-	-	60	-	100
VI(II)	ST8102	Revit Structure	04	-	-	04	40	-	-	-	60	-	100
VII(III)	ST8103	AutoCAD 3D	04	-	-	04	40	-	-	-	60	-	100
VIII (IV)	ST8104	Open Course	04	-	-	04	40	-	-	-	60	-	100
VII(III)	ST8105	BIM Lab-I	-	-	02	01	-	-	-	-	-	50	50
VIII(IV)	ST8106	BIM Lab-II	-	-	02	01	-	-	-	-	-	50	50
Total			16	-	04	18	160	-	-	-	240	100	500

BOS Chairman

Dean Academics

Director