



YSPM's
Yashoda College of Architecture

Subject-Theory of Structure - III
Subject Teacher: Er. Jadhav A.V.
Sem: III

Sub. Code: BS & AE-305
AY: 2021-22

Course Outcomes: At the end of the course, students will be able to:

BS & AE-305	Theory of Structure - III
CO 305.1	Understand the Theory of simple bending
CO 305.2	Understand Concept of shear stress in beams
CO 305.3	Analyse Deflection of beams
CO 305.4	Understand concept of Composite beam
CO 305.5	Apply concepts of Simple Tension and Compression members

CO-PO Mapping

POs	CO to PO Mapping	CO 305.1	CO 305.2	CO 305.3	CO 305.4	CO 305.5
Architectural knowledge	PO1	1	1	3	1	1
Problem analysis	PO2	2	2	3	2	2
Design/ development of solutions	PO3			3	3	
Conduct investigations of complex problems	PO4			2		
Modern tool usage	PO5					
Social responsibility of an architect	PO6					
Environment and sustainability	PO7					
Ethics	PO8					
Individual and team work	PO9					
Communication	PO10					
Project management and finance	PO11					
Life-long learning	PO12	1	1	3	1	1
Professional Skills	PSO1					
Collaborative Skills	PSO2					
Problem-Solving Skills	PSO3	2	2	3		2

CO Number	CO	PO
CO 305.1	Understand the Theory of simple bending	1,2,12
CO 305.2	Understand Concept of shear stress in beams	1,2,12
CO 305.3	Analyse Deflection of beams	1,2,3,4,12
CO 305.4	Understand concept of Composite beam	1,2,3,12
CO 305.5	Apply concepts of Simple Tension and Compression members	1,2,12

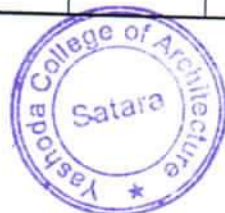


Test	Marks	CO	Based on	Remark
CA	20	CO 1 to CO 5	Assignments, Midterm exam, Viva, attendance and student performance	Subject teacher will decide evaluation mode
University Exam	80	CO 1 to CO 5	As per Ar. Curriculum structure	
Total	100			

CO Attainment process: Continous assessment, University Exam
a. Attainment Level 1: 45% students scoring more than the average marks
b. Attainment Level 2: 50% students scoring more than the average marks
c. Attainment Level 3: 55% students scoring more than the average marks

(Note: Faculty can decide the increment in levels considering the complexity of the subject)
Attainment is measured in terms of actual percentage of students getting set percentage of marks.

Name of Student	CA				Total	Un. Exam
	COs					CO 1 to 5
CO Mapped →	CO1 to 5	CO1 to 3				
Marks	10	5	2.5	2.5	20	80
Bartakke Poonam Rajesh	7.4	3.0	2.5	2.50	15	80
Chothe Mayur Hanmant	8.2	3.0	2.5	2.50	16	42
Deshmukh Sayali Vilas	8.2	3.0	2.5	2.12	16	67
Deshmukh Shivanjali Sunil	7.8	3.0	2.5	2.32	16	80
Ghanwat Aditya Maruti	7.6	2.0	2.5	2.50	15	80
Jadhav Abhinay Abhay	7.8	2.0	2.5	2.50	15	80
Khodke Aditya Santosh	6.8	2.0	1.0	1.31	11	42
Mandhare Snehal Deepak	8.8	4.0	2.5	2.50	18	80
Mulik Vaishnavi Sharad	8.6	3.0	2.5	2.32	16	80
Nangare Vrushali Sandeep	8.6	3.0	2.5	2.50	17	80
Nikam Saurabh Rajesh	9.6	4.0	2.5	2.50	19	74
Patil Akanksha Ravindra	8	3.0	2.5	2.12	16	45
Average Marks	8.12	2.92	2.38	2.31	15.72	69.17
No. of students above avg Marks	6	9	11	9	6	8
% of Students above avg Marks	50.00	75.00	91.67	75.00	50.00	66.67
Level	2	3	3	3	2	3



CO Attainment for Course						
Sr. No.	CO→	CO305.1	CO305.2	CO305.3	CO305.4	CO305.5
	Assesment Method↓					
Direct methods (80%)						
Internal Assesment (20% of Direct)						
1	CA	2.0	2.0	2.0	2.0	2.0
	Avg of Internal Assesment (A)	2.0	2.0	2.0	2.0	2.0
External Assesment (80% of Direct)						
1	Un. Exam	3.0	3.0	3.0	3.0	3.0
	Avg of Ext. Assesment (B)	3.0	3.0	3.0	3.0	3.0
Indirect methods (20%)						
1	Course Exit Survey	2.8	2.7	2.8	2.5	2.8
Average attainment		2.80	2.78	2.80	2.74	2.80

CO, PO and PSO Mapping						
POs	CO to PO Mapping	CO 305.1	CO 305.2	CO 305.3	CO 305.4	CO 305.5
Architectural knowledge	PO1	1	1	3	1	1
Problem analysis	PO2	2	2	3	2	2
Design/ development of solutions	PO3			3	3	
Conduct investigations of complex problems	PO4			2		
Modern tool usage	PO5					
Social responsibility of an architect	PO6					
Environment and sustainability	PO7					
Ethics	PO8					
Individual and team work	PO9					
Communication	PO10					
Project management and finance	PO11					
Life-long learning	PO12	1	1	3	1	1
Professional Skills	PSO1					
Collaborative Skills	PSO2					
Problem-Solving Skills	PSO3	2	2	3		2



PO/PSO Attainment

CO to PO Mapping	CO 305.1	CO 305.2	CO 305.3	CO 305.4	CO 305.5	BS&AE305
PO1	0.93	0.93	2.80	0.91	0.93	1.30
PO2	1.87	1.85	2.80	1.83	1.87	2.04
PO3			2.80	2.74		2.77
PO4			1.87			1.87
PO5						
PO6						
PO7						
PO8						
PO9						
PO10						
PO11						
PO12	0.93	0.93	2.80	0.91	0.93	1.30
PSO1						
PSO2						
PSO3	1.87	1.85	2.80		1.87	2.10

AK
Jadhav A.V.

Sme
A.S. Shedge



Talekar
Ar. Suresh Talekar



YSPM's
Yashoda College of Architecture

Subject-Building construction and material - III
Subject Teacher: Ar. Vrushali pawar.
Sem: III

Sub. Code: BS & AE-304
AY: 2021-22

Course Outcomes: At the end of the course, students will be able to:

BS & AE-304	Building construction and material - III
CO 304.1	Understand building components and construction methods
CO 304.2	Design specifications for various building and construction components.
CO 304.3	Prepare design of buildings with due consideration to construction technology & materials.
CO 304.4	Understanding of structural typology of building & knowledge of basic building materials.

CO-PO Mapping						
POs	CO to PO Mapping	CO 304.1	CO 304.2	CO 304.3	CO 304.4	
Architectural knowledge	PO1	1	1	3	1	
Problem analysis	PO2	2	2	3	2	
Design/ development of solutions	PO3			3	3	
Conduct investigations of complex problems	PO4			2		
Modern tool usage	PO5					
Social responsibility of an architect	PO6					
Environment and sustainability	PO7					
Ethics	PO8					
Individual and team work	PO9					
Communication	PO10					
Project management and finance	PO11					
Life-long learning	PO12	2	2	3	1	
Professional Skills	PSO1	3	3	3	3	
Collaborative Skills	PSO2	2	2	2	2	
Problem-Solving Skills	PSO3	2	2	2	2	

CO Number	CO	PO
CO 304.1	Understand building components and construction methods.	1,2,12
CO 304.2	Design specifications for various building and construction components.	1,2,12
CO 304.3	Prepare design of buildings with due consideration to construction technology & mat	1,2,3,4,12
CO 304.4	Understanding of structural typology of building & knowledge of basic building mater	1,2,3,12



Test	Marks	CO	Based on	Remark
CA	20	CO 1 to CO 5	Assignments, Midterm exam, Viva, attendance and student performance	Subject teacher will decide evaluation mode
University Exam	80	CO 1 to CO 5	As per Ar. Curriculum structure	
Total	100			

CO Attainment process: Continuous assessment, University Exam	
a. Attainment Level 1:45% students scoring more than the average marks	
b. Attainment Level 2:50% students scoring more than the average marks	
c. Attainment Level 3: 55% students scoring more than the average marks	

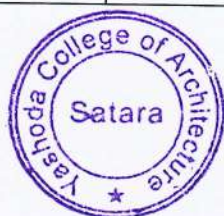
(Note: Faculty can decide the increment in levels considering the complexity of the subject)
 Attainment is measured in terms of actual percentage of students getting set percentage of marks.

Name of Student	COs			Total	Un. Viva CO 1 to 5	Un. Exam CO 1 to 5
	CO1 to 5	CO1 to 5	CO1 to 5			
CO Mapped →	CO1 to 5	CO1 to 5	CO1 to 5			
Marks	40	10	20	630	100	80
Bartakke Poonam Rajesh	33	7.0	12.0	52	55	42
Chothe Mayur Hanmant	34	7.0	14.0	55	62	66
Deshmukh Sayali Vilas	33	8.0	11.0	52	55	46
Deshmukh Shivanjali Sunil	35	8.0	10.0	53	48	42
Ghanwat Aditya Maruti	33	8.0	11.0	52	52	48
Jadhav Abhinay Abhay	32	7.0	10.0	49	54	51
Khodke Aditya Santosh	20	5.0	10.0	35	50	13
Mandhare Snehal Deepak	32	8.0	12.0	52	62	50
Mulik Vaishnavi Sharad	31	8.0	12.0	51	57	54
Nangare Vrushali Sandeep	30	7.0	10.0	47	53	43
Nikam Saurabh Rajesh	34	8.0	12.0	54	60	46
Patil Akanksha Ravindra	34	6.0	13.0	53	57	45
Average Marks	31.75	7.25	11.42	50.4	55.4	45.50
No. of students above avg Marks	7	6	6	9	5	7
% of Students above avg Marks	58.33	50.00	50.00	75.00	41.67	58.33
Level	3	2	2	3	0	3



CO Attainment for Course						
Sr. No.	CO→	CO305.1	CO305.2	CO305.3	CO305.4	
	Assesment Method↓					
Direct methods (80%)						
Internal Assesment (20% of Direct)						
1	CA	2.0	2.0	2.0	2.0	
	Avg of Internal Assesment (A)	3.0	3.0	3.0	3.0	
External Assesment (80% of Direct)						
1	Un. Exam	3.0	3.0	3.0	3.0	
2	viva	0.0	0.0	0.0	0.0	
	Avg of External	1.5	1.5	1.5	1.5	
Indirect methods (20%)						
1	Course Exit Survey	2.8	2.7	2.8	2.5	
Average attainment		2.00	1.98	2.00	1.94	

CO, PO and PSO Mapping						
POs	CO to PO Mapping	CO 304.1	CO 304.2	CO 304.3	CO 304.4	
Architectural knowledge	PO1	1	1	3	1	
Problem analysis	PO2	2	2	3	2	
Design/ development of solutions	PO3			3	3	
Conduct investigations of complex problems	PO4			2		
Modern tool usage	PO5					
Social responsibility of an architect	PO6					
Environment and sustainability	PO7					
Ethics	PO8					
Individual and team work	PO9					
Communication	PO10					
Project management and finance	PO11					
Life-long learning	PO12	2	2	3	1	
Professional Skills	PSO1	3	3	3	3	
Collaborative Skills	PSO2	2	2	2	2	
Problem-Solving Skills	PSO3	2	2	2	2	



PO/PSO Attainment

CO to PO Mapping	CO 304.1	CO 304.2	CO 304.3	CO 304.4		BS&AE305
PO1	0.67	0.66	2.00	0.65		0.99
PO2	1.33	1.32	2.00	1.29		1.49
PO3			2.00	1.94		1.97
PO4			1.33			1.33
PO5						
PO6						
PO7						
PO8						
PO9						
PO10						
PO11						
PO12	1.33	1.32	2.00	0.65		1.33
PSO1	2.00	1.98	2.00	1.94		1.98
PSO2	1.33	1.32	1.33	1.29		1.32
PSO3	1.33	1.32	1.33	1.29		1.32

V
Ar. Vrushali Pawar



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Ar. S. Gudge



YSPM's Yashoda College of Architecture

Subject-Architectural Design V	Sub. Code: PC- 501
Subject Teacher: Ar.Swarali D. Sagare	AY: 2021-22
Sem: V	

Course Outcomes: At the end of the course, students will be able to:

BS & AE-305	Theory of Structure - III
CO 501.1	Understanding and analysis of design requirements Analysis of proposed site
CO 501.2	Case study/ Book study/ Net study/ Site visits of similar design problem Analysis and presentation of case studies
CO 501.3	Data collection of the proposed design problem Site visits and site analysis i.e. Topography, Vegetation, etc
CO 501.4	Conceptual design with understanding of circulation within functional spaces, structural systems, study of forms and spaces, building materials and techniques, etc
CO 501.5	Final design presentation with supporting sketches, models and views
CO 501.6	Time bond problem – Conceptual design development and final drawings

CO-PO Mapping							
POs	CO to PO Mapping	CO 501.1	CO 501.2	CO 501.3	CO 501.4	CO 501.5	CO 501.6
Architectural knowledge	PO1	3	3	3	3	3	3
Problem analysis	PO2	3	3	3	3	3	3
Design/ development of solutions	PO3			3	3	3	3
Conduct Investigations of complex problems	PO4	3		3	3	3	3
Modern tool usage	PO5	2	3	2	3	3	3
Social responsibility of an architect	PO6	3	3	3	2	2	2
Environment and sustainability	PO7				3	2	3
Ethics	PO8						
Individual and team work	PO9	3	3	3	3	3	3
Communication	PO10	2	3	2	3	2	
Project management and finance	PO11						
Life-long learning	PO12	3	3	3	3	3	3
Professional Skills	PSO1	2	2	1	3	3	3
Collaborative Skills	PSO2	3	3	3	1	1	1
Problem-Solving Skills	PSO3		3	3	3		



CO Number	CO	PO
CO 501.1	Understanding and analysis of design requirements	1,2,4,5,6,9,10,12
	Analysis of proposed site	
CO 501.2	Case study/ Book study/ Net study/ Site visits of similar design problem	1,2,5,6,9,10,12
	Analysis and presentation of case studies	
CO 501.3	Data collection of the proposed design problem	1,2,3,4,5,6,9,10,12
	Site visits and site analysis i.e. Topography, Vegetation, etc	
CO 501.4	Conceptual design with understanding of circulation within functional spaces, structural systems, study of forms and spaces, building materials and techniques, etc	1,2,3,4,5,6,7,9,10
CO 501.5	Final design presentation with supporting sketches, models and views	1,2,3,4,5,6,7,9,10
CO 501.6	Time bond problem – Conceptual design development and final drawings	1,2,3,4,5,6,7,9

Test	Marks	CO	Based on	Remark
CA	100	CO 1 to CO 6	Assignments, Midterm exam, Viva, attendance and student performance	Subject teacher will decide evaluation mode
University Exam	100	CO 1 to CO 6	As per Ar. Curriculum structure	
Total	200			

CO Attainment process: Continuous assessment, University Exam

a. Attainment Level 1: 30% students scoring more than the average marks

b. Attainment Level 2: 40% students scoring more than the average marks

c. Attainment Level 3: 50% students scoring more than the average marks

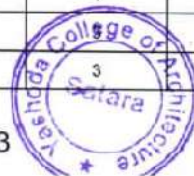
(Note: Faculty can decide the increment in levels considering the complexity of the subject)

Attainment is measured in terms of actual percentage of students getting set: percentage of marks.

Name of Student	CA					Un. Exam
	COs				Total	CO 1 to 6
CO Mapped →	CO1 to 6	CO1 to 4				Viva
Marks	20	60	10	10	100	100
Chavan Aishwarya Kiran	12	30.6	3.0	9.00	55	56
Deokar Akshay Sanjay	12	25.0	5.0	8.00	50	55
Chakankar Tanvi Manoj	17	38.1	2.0	8.00	65	62
Gandas Rutuja Sandeep	17	44.7	4.0	8.00	74	78
Gosavi Shubham Vijay	17	41.7	4.0	8.00	71	67
Jagtap Omkar Rajendra	17	49.2	3.0	8.00	77	80
Mane Tamanna Ashok	19	27.3	4.0	8.00	58	69
Rainak Manisha Ananda	17	28.8	4.0	8.00	58	64
Shinde Anuja Rajendra	18	40.5	7.0	7.22	73	83
Suryawanshi Apurva Sury	14	29.4	6.0	8.00	57	68
Thorat Sayali Sharad	19	46.5	6.0	8.00	79	77
Velhal Vaishnavi Nitin	19	28.8	7.0	6.67	61	70
Average Marks	16.38	35.88	4.58	7.91	64.75	69.08
No. of students above avg Marks	9	6	5	10	6	5
% of Students above avg Marks	75.00	50.00	41.67	83.33	50.00	41.67
Level	3	3	2	3	3	2



CO Attainment for Course							
Sr. No.	CO →	CO 501.1	CO 501.2	CO 501.3	CO 501.4	CO 501.5	CO 501.6
	Assesment Method ↓						
Direct methods (80%)							
Internal Assesment (20% of Direct)							
1	CA	3.0	3.0	3.0	3.0	3.0	3.0
	Avg of Internal Assesment (A)	3.0	3.0	3.0	3.0	3.0	3.0
External Assesment (80% of Direct)							
	viva	2.0	2.0	2.0	2.0	2.0	2.0
	Avg of External Assesment (B)	2.0	2.0	2.0	2.0	2.0	2.0
Indirect methods (20%)							
1	Course Exit Survey	2.67	2.67	2.75	2.58	2.83	2.92
Average attainment		2.29	2.29	2.31	2.28	2.33	2.34
CO to PO Mapping							
POs	CO to PO Mapping	CO 501.1	CO 501.2	CO 501.3	CO 501.4	CO 501.5	CO 501.6
Architectural knowledge	PO1	3	3	3	3	3	3
Problem analysis	PO2	3	3	3	3	3	3
Design/ development of solutions	PO3			3	3	3	3
Conduct investigations of complex problems	PO4	3		3	3	3	3
Modern tool usage	PO5	2	3	2	3	3	3
Social responsibility of an architect	PO6	3	3	3	2	2	2
Environment and sustainability	PO7				3	2	3
Ethics	PO8						
Individual and team work	PO9	3	3	3	3	3	3
Communication	PO10	2	3	2	3	2	
Project management and finance	PO11						
Life-long learning	PO12	3	3	3	3	3	3
Professional Skills	PSO1	2	2	1	3	3	3
Collaborative Skills	PSO2	3	3		1	1	1
Problem-Solving Skills	PSO3		3		3		



PO/PSO Attainment							
CO to PO Mapping	CO 501.1	CO 501.2	CO 501.3	CO 501.4	CO 501.5	CO 501.6	PC- 501
PO1	2.29	2.29	2.31	2.28	2.33	2.34	2.31
PO2	2.29	2.29	2.31	2.28	2.33	2.34	2.31
PO3			2.31	2.26	2.33	2.34	2.32
PO4	2.29		2.31	2.28	2.33	2.34	2.31
PO5	1.53	2.29	1.54	2.28	2.33	2.34	2.05
PO6	2.29	2.29	2.31	1.52	1.55	1.56	1.92
PO7				2.28	1.55	2.34	2.06
PO8							
PO9	2.29	2.29	2.31	2.28	2.33	2.34	2.31
PO10	1.53	2.29	1.54	2.28	1.55		1.84
PO11							
PO12	2.29	2.29	2.31	2.28	2.33	2.34	2.31
PSO1	1.53	1.53	0.77	2.28	2.33	2.34	1.80
PSO2	2.29	2.29	2.31	0.76	0.78	0.78	1.53
PSO3		2.29	2.31	2.28			2.29

Swarali

Prof. An. Swarali Sagare
Subject incharge.

Sure
As. S. Shedge



D. Talwar
Subhas Talekar