



LOKNETE. DR. BALASAHEB VIKHE PATIL  
(PADMA BHUSHAN AWARDEE)  
PRAVARA RURAL EDUCATION SOCIETY'S  
**PRAVARA RURAL COLLEGE  
OF ARCHITECTURE LONI**

Sadatpur Road, LoniKd., Tal.: Rahata, Dist.: Ahmednagar 413 736, (M.S.)  
Ph:(02422)274295 Email: [principalprca@yahoo.co.in](mailto:principalprca@yahoo.co.in) Web: [www.pravaracoaloni.in](http://www.pravaracoaloni.in)  
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& Council of Architecture, New Delhi


## Criteria 2 – Teaching Learning and Evaluation (350)

### 2.6 Student Performance and Learning Outcome (90)

#### 2.6.2 Attainment of POs and COs are evaluated

Sr.no	Content
1	First Year (First Semester (Second semester result not yet declared))
2	Second Year (Third Semester and Fourth Semester)
3	Third Year (Fifth Semester and Sixth Semester)
4	Fourth Year (Seventh Semester and Eighth Semester)
5	Fifth Year (Ninth Semester and Tenth Semester)



  
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## Criteria 2 – Teaching Learning and Evaluation (350)

### 2.6 Student Performance and Learning Outcome (90)

#### 2.6.2 Attainment of POs and COs are evaluated

FIRST YEAR: SEMESTER I: ATTAINMENT OF POs AND COs		
Sr. No.	COURSE TITLE	COURSE CODE
1	Basic Design	1201901
2	Building Construction & Materials - I	1201902 (P), 1201903 (SV)
3	Theory of Structure - I	1201904
4	Architectural Graphics and Drawing - I	1201905
5	History of Arch. & Culture - I	1201906
6	Communication Skills	1201907
7	Workshop - I	1201908







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## FIRST YEAR: SEMESTER I





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Department	Architecture	Name of the Course	Basic Design (1201901)
Class	First Year B. Arch.	Semester	I
Name of the Faculty Member	Ar. Dipeeka Arbatti, Ar. Charuta Sonparote		

### Course Outcomes (CO's) SV (Sessional & Viva)

CO	Level	Course Outcome
CO1	L1 : Remember	Define the basic elements of Basic Design.
CO2	L2 : Understand	Explain the techniques of creativity, observation skills used in Basic Design.
CO3	L3 : Apply	Implement the various sources of inspiration for creativity which will be used in developing designing skills.
CO4	L4 : Analyse	Explain Scale, proportion, anthropometry and spatial experience.
CO5	L5 : Evaluate	Hypotheses Role of experience, memory, fantasy, reality, imagination in design.
CO6	L6 : Create	Compose Space making through basic elements of design.



  
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Name and Code of the Course	Programme	Class	Semester
Basic Design (1201901)	B.Arch.	First Year B.Arch.	I

**Mapping of Course Outcome (CO) with Program Outcome (PO) : SV (Sessional & Viva)**

Sr. No.	CO / PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8		Average
1	CO 1 : Define the basic elements of Basic Design.	0	3	3	3	3	3	0	0		1.88
2	CO 2 : Explain the techniques of creativity, observation skills used in Basic Design.	1	3	3	3	3	3	0	0		2.00
3	CO 3 : Implement the various sources of inspiration for creativity which will be used in developing designing skills.	1	3	3	3	3	3	3	0		2.38
4	CO 4 : Explain Scale, proportion, anthropometry and spatial experience.	1	3	3	3	3	0	3	0		2.00
5	CO 5 : Hypotheses Role of experience, memory, fantasy, reality, imagination in design.	0	3	3	3	3	3	1	3		2.38
6	CO 6 : Compose Space making through basic elements of design.	0	0	0	3	2	2	2	3		1.50
Average Po's		0.50	2.50	2.50	3.00	2.83	2.33	1.50	1.00		2.02

0: No Correlation, 1: Slight (Low), 2: Moderate (Medium), 3: Substantial (High)



  
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Department	Architecture	Name of the Course	Building Construction & Materials -I (1201902) PP & (1201903)SV
Class	First Year B. Arch.	Semester	I
Name of the Faculty Member	Ar. Dipeeka Arbatti, Ar. Ashwini Gholap		

**Course Outcomes (CO's): PP (Theory Exam ) and SV (Sessional & Viva)**

CO	Level	Course Outcome
CO1	L1 : Remember	Define the different types of timber and its derivatives used in construction.
CO2	L2 : Understand	Categorize the different types of doors and windows in timber.
CO3	L3 : Apply	Implement the different type of roofing material for the structure
CO4	L4 : Analyse	Select the different types of timber trusses according to the span of the structure.
CO5	L5 : Evaluate	Judge the single and double floor construction according to the span of the structure.
CO6	L6 : Create	Build the different types of timber staircase in the building.



  
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Name and Code of the Course	Programme	Class	Semester
Building Construction & Materials -I (1201902) PP & (1201903) SV	B.Arch.	First Year B.Arch.	I

**Mapping of Course Outcome (CO) with Program Outcome (PO) : PP (Theory Exam ) and SV (Sessional & Viva)**

Sr. No.	CO / PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8		Average
1	CO 1 : Define the different types of timber and its derivatives used in construction.	3	3	3	1	1	3	3	1		2.25
2	CO 2 : Categorize the different types of doors and windows in timber.	3	3	3	1	3	3	3	1		2.50
3	CO 3 : Implement the different type of roofing material for the structure	3	3	3	1	1	3	3	1		2.25
4	CO 4 : Select the different types of timber trusses according to the span of the structure.	3	3	3	1	1	3	3	1		2.25
5	CO 5 : Judge the single and double floor construction according to the span of the structure	3	3	3	1	1	3	3	1		2.25
6	CO 6 : Build the different types of timber staircase in the building.	3	0	0	1	1	2	2	1		1.25
Average Po's		3.00	2.50	2.50	1.00	1.33	2.83	2.83	1.00		2.13

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Department	Architecture	Name of the Course	TOS-I (1201904)
Class	First Year B. Arch.	Semester	I
Name of the Faculty Member	Er. Nikhil Vikhe		

### Course Outcomes (CO's): PP (Theory Exam )

CO	Level	Course Outcome
CO1	L1 : Remember	Define Force, couple, Lami's theorem, stress, strains, Poisson's Ratio, shear stress.
CO2	L2 : Understand	Explain the law of forces, Varignon's principal
CO3	L3 : Apply	Calculate Reactions in Beam at support, stress, strain, change in length, Young's modulus of Section, C.G, M.I of the section, the width of strip foundation.
CO4	L4 : Analyse	Draw Diagram of Shear Force and Bending Moment for Beam Element.
CO5	L5 : Evaluate	Evaluate Stress in Structure.
CO6	L6 : Create	Write notes on Principle of loads Transfer in Load Bearing and Framed Structure.





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Name and Code of the Course	Programme	Class	Semester
Theory Of Structure -I (1201904)	B.Arch.	First Year B.Arch.	I

### Mapping of Course Outcome (CO) with Program Outcome (PO) : PP (Theory Exam)

Sr. No.	CO / PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	Average
1	CO 1 : Define Force, couple, Lami's theorem, stress, strains, Poisson's Ratio, shear stress.	1	3	3	3	0	1	3	3	2.13
2	CO 2 : Explain the law of forces, Varignon's principal	1	3	3	3	0	1	3	0	1.75
3	CO 3 : Calculate Reactions in Beam at support, stress, strain, change in length, Young's modulus of Section, C.G, M.I of the section, the width of strip foundation.	1	3	3	3	0	1	3	3	2.13
4	CO 4 : Draw Diagram of Shear Force and Bending Moment for Beam Element.	1	3	3	3	0	1	3	0	1.75
5	CO 5 : Evaluate Stress in Structure.	1	3	3	3	0	1	3	3	2.13
6	CO 6: Write notes on Principle of loads Transfer in Load Bearing and Framed Structure.	1	3	3	2	0	1	0	0	1.25
Average Po's		1.00	3.00	3.00	2.83	0.00	1.00	2.50	1.50	1.85

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Department	Architecture	Name of the Course	Architectural Graphics & Drawing-I (1201905)
Class	First Year B. Arch.	Semester	I
Name of the Faculty Member	Ar. Kapil Burhade		

### Course Outcomes (CO's): SS (Sessional )

CO	Level	Course Outcome
CO1	L1 : Remember	Define elements of graphic techniques and presentation.
CO2	L2 : Understand	Interpret objects in projection systems used in Architectural drawing; such as Orthographic, Isometric and axonometric projections.
CO3	L3 : Apply	Sketch the building elements and the built environment.
CO4	L4 : Analyse	Explain Basics Projection Systems in Drawings and graphics.
CO5	L5 : Evaluate	Measure existing structures of architectural importance and prepare relevant drawings to the scale.
CO6	L6 : Create	Compose relevant drawings to the scale.







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Name and Code of the Course	Programme	Class	Semester
Architectural Graphics & Drawing-I (1201905)	B.Arch.	First Year B.Arch.	I

### Mapping of Course Outcome (CO) with Program Outcome (PO) : SS (Sessional )

Sr. No.	CO / PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8		Average
1	CO 1 : Define elements of graphic techniques and presentation.	1	3	3	0	2	1	3	3		2.00
2	CO 2 : Interpret objects in projection systems used in Architectural drawing; such as Orthographic, Isometric and axonometric projections.	1	3	3	0	2	1	3	0		1.63
3	CO 3 : Sketch the building elements and the built environment.	1	3	3	1	2	3	3	3		2.38
4	CO 4 : Explain Basics Projection Systems in Drawings and graphics.	1	3	3	1	2	3	3	0		2.00
5	CO 5 : Measure existing structures of architectural importance and prepare relevant drawings to the scale.	1	3	3	1	3	3	0	0		1.75
6	CO 6: Compose relevant drawings to the scale.	1	0	0	0	3	0	3	1		1.00
Average Po's		1.00	2.50	2.50	0.50	2.33	1.83	2.50	1.17		1.79

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Department	Architecture	Name of the Course	History Of Architecture & Culture -I (1201906)
Class	First Year B. Arch.	Semester	I
Name of the Faculty Member	Ar. Ashwini Gholap		

### Course Outcomes (CO's): SS (Sessional )

CO	Level	Course Outcome
CO1	L1 : Remember	State the ancient river valley civilization.
CO2	L2 : Understand	Discuss the tribal and nomadic architecture of India.
CO3	L3 : Apply	Sketch the different architectural styles in India.
CO4	L4 : Analyse	Examine forms, building techniques and features of the Indian subcontinent.
CO5	L5 : Evaluate	Predict different social, political and geographical conditions.
CO6	L6 : Create	Role-play the characters of historic monuments as well as people



  
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Name and Code of the Course	Programme	Class	Semester
History Of Architecture & Culture -I (1201906)	B.Arch.	First Year B.Arch.	I

### Mapping of Course Outcome (CO) with Program Outcome (PO) : SS (Sessional )

Sr. No.	CO / PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	Average
1	CO 1 : State the ancient river valley civilization.	3	3	3	0	3	3	3	0	2.25
2	CO 2 : Discuss the tribal and nomadic architecture of India.	3	3	3	0	3	3	3	0	2.25
3	CO 3 : Sketch the different architectural styles in India.	3	3	3	0	3	3	3	3	2.63
4	CO 4 : Examine forms, building techniques and features of the Indian subcontinent.	3	3	3	0	3	3	3	2	2.50
5	CO 5 : Predict different social, political and geographical conditions.	3	3	3	2	3	3	3	3	2.88
6	CO 6: Role-play the characters of historic monuments as well as people	3	0	0	0	0	3	0	0	0.75
Average Po's		3.00	2.50	2.50	0.33	2.50	3.00	2.50	1.33	2.21

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Department	Architecture	Name of the Course	Communication Skill (1201907)
Class	First Year B. Arch.	Semester	I
Name of the Faculty Member	Ar. Ashwini Gholap		

### Course Outcomes (CO's): SS (Sessional )

CO	Level	Course Outcome
CO1	L1 : Remember	Identify various modes of communications.
CO2	L2 : Understand	Express their ideas textually, verbally & graphically.
CO3	L3 : Apply	Prepare for 3D modelling, formal letters, applications & group discussions.
CO4	L4 : Analyse	Structure presentation skills by working on body language, appearance, gestures, voice modulation.
CO5	L5 : Evaluate	Experiment with digital tools to improve such skills.
CO6	L6 : Create	Compose their presentations fluently with the effective use of all such modes.



  
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Name and Code of the Course	Programme	Class	Semester
Communication Skill (1201907)	B.Arch.	First Year B.Arch.	I

**Mapping of Course Outcome (CO) with Program Outcome (PO) : SS (Sessional )**

Sr. No.	CO / PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	Average
1	CO 1 : Identify various modes of communications.	0	0	3	1	3	1	3	3	1.75
2	CO 2 : Express their ideas textually, verbally & graphically.	1	1	3	1	3	1	3	1	1.75
3	CO 3 : Prepare for 3D modelling, formal letters, applications & group discussions.	1	2	3	1	3	1	3	1	1.88
4	CO 4 : Structure presentation skills by working on body language, appearance, gestures, v	1	1	3	1	3	1	3	2	1.88
5	CO 5 : Experiment with digital tools to improve such skills.	1	2	3	1	3	1	3	1	1.88
6	CO 6: Compose their presentations fluently with the effective use of all such modes.	1	1	3	1	3	1	3	1	1.75
Average Po's		0.83	1.17	3.00	1.00	3.00	1.00	3.00	1.50	1.81

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Department	Architecture	Name of the Course	Workshop-I (1201908)
Class	First Year B. Arch.	Semester	I
Name of the Faculty Member	Ar. Kapil Burhade		

### Course Outcomes (CO's): SS (Sessional )

CO	Level	Course Outcome
CO1	L1 : Remember	Define techniques used in making architectural model making.
CO2	L2 : Understand	Categorize different materials and model making techniques available in the market.
CO3	L3 : Apply	Choose the right materials for making models of various scales.
CO4	L4 : Analyse	Correlate the model making in-process and communication of architectural design.
CO5	L5 : Evaluate	Experiment with various materials and techniques of model making by demonstration or presentation.
CO6	L6 : Create	Compose proportionate (to the scale) models with a better understanding of the 3rd dimension.





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Name and Code of the Course	Programme	Class	Semester
Workshop (1201908)	B.Arch.	First Year B.Arch.	I

**Mapping of Course Outcome (CO) with Program Outcome (PO) : SS (Sessional )**

Sr. No.	CO / PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	Average
1	CO 1 : Define techniques used in making architectural model making.	1	3	3	0	3	3	2	3	2.25
2	CO 2 : Categorize different materials and model making techniques available in the market.	1	3	3	0	3	3	1	0	1.75
3	CO 3 : Choose the right materials for making models of various scales.	0	3	3	0	3	3	1	1	1.75
4	CO 4 :Correlate the model making in-process and communication of architectural design.	2	3	3	2	3	0	1	1	1.88
5	CO 5 : Experiment with various materials and techniques of model making by demonstration or presentation.	1	3	3	2	3	3	0	2	2.13
6	CO 6: Compose proportionate (to the scale) models with a better understanding of the 3rd dimension.	0	1	3	3	2	2	2	3	2.00
Average Po's		0.83	2.67	3.00	1.17	2.83	2.33	1.17	1.67	1.96

0: No Correlation, 1: Slight (Low), 2 : Moderate (Medium), 3: Substantial (High)







## Criteria 2 – Teaching Learning and Evaluation (350)

### 2.6 Student Performance and Learning Outcome (90)

#### 2.6.2 Attainment of POs and COs are evaluated

SECOND YEAR: SEMESTER III: ATTAINMENT OF POs AND COs		
Sr. No.	COURSE TITLE	COURSE CODE
1	Architectural Design II	2201917
2	Building Construction & Materials III	2201918 (P), 2201919 (SV)
3	Theory of Structure III	2201920
4	Computer Aided Drawing and Graphics	2201921
5	History of Arch. & Culture III	2201922
6	Building Services I	2201923 (P), 2201924 (SS)
7	Climatology	2201925
SECOND YEAR: SEMESTER IV: ATTAINMENT OF POs AND COs		
Sr. No.	COURSE TITLE	COURSE CODE
1	Architectural Design III	2201926
2	Building Construction & Materials IV	2201927 (P), 2201928 (SV)
3	Theory of Structure IV	2201929
4	Environmental Science	2201930
5	History of Arch. & Culture IV	2201931
6	Building Services II	2201932 (P), 2201933 (SS)
7	Site Survey and Analysis	2201934





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## SECOND YEAR: SEMESTER IV





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Department	Architecture	Name of the Course	Architectural Design III (2201926)
Class	Second Year B. Arch.	Semester	IV
Name of the Faculty Member	Ar. Sonali S. Chaskar, Ar. Ashwini M. Gholap		

### Course Outcomes (CO's) Design- II (SV)

CO	Level	Course Outcome
CO1	L1 : Remember	Understand the role of context and site analysis in the design process.
CO2	L2 : Understand	Find out site suitability with reference to site analysis for various activities/functions.
CO3	L3 : Apply	Understand the role of socio-cultural, geographical and climatic context in evolution of design through settlement study.
CO4	L4 : Analyse	Understand the design process with respect to site context through settlement study.
CO5	L5 : Evaluate	Document a study with the help of mapping, narratives, sketches and streetscapes.
CO6	L6 : Create	Design a building with multiple built spaces of area up to 1000sqm. to 1500sqm.



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Name and Code of the Course	Programme	Class	Semester
Architectural Design III (2201926)	B.Arch.	Second Year B.Arch.	IV

**Mapping of Course Outcome (CO) with Program Outcome (PO) : Architectural Design - II (SV)**

Sr. No.	CO / PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	Average
1	CO 1 : Understand the role of context and site analysis in the design process.	3	3	3	3	3	3	3	3	3.00
2	CO 2 : Find out site suitability with reference to site analysis for various activities/functions.	3	3	2	2	3	2	3	0	2.25
3	CO 3 : Understand the role of socio-cultural, geographical and climatic context in evolution of design through settlement study.	3	3	3	3	3	3	3	1	2.75
4	CO 4 : Understand the design process with respect to site context through settlement	3	3	3	3	3	0	3	0	2.25
5	CO 5 : Document a study with the help of mapping, narratives, sketches and streetscapes.	3	3	3	3	3	3	3	1	2.75
6	CO 6: Design a building with multiple built spaces of area up to 1000sqm. to 1500sqm.	3	3	3	3	3	3	3	3	3.00
Average Po's		3.00	3.00	2.83	2.83	3.00	2.33	3.00	1.33	2.67

0: No Correlation, 1: Slight (Low), 2 : Moderate (Medium), 3: Substantial (High)



  
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Department	Architecture	Name of the Course	Building Construction & Materials-IV (2201927)PP, (2201928)SV
Class	Second Year B. Arch.	Semester	IV
Name of the Faculty Member	Ar. Kapil Burhade		

### Course Outcomes (CO's) PP(100), SV (100)

CO	Level	Course Outcome
CO1	L1 : Remember	Define different types of concrete used for speedy construction.
CO2	L2 : Understand	Categorize different types of structural members in foundation and superstructure.
CO3	L3 : Apply	Choose suitable materials used for foundation and flooring.
CO4	L4 : Analyse	Explain the process of installation for different building components such as flooring and fenestration.
CO5	L5 : Evaluate	Test the workability and compressive strength of RCC.
CO6	L6 : Create	Construct different building types of RCC and non-Timber structural elements.



  
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Name and Code of the Course	Programme	Class	Semester
Building Construcction & Materials-IV (2201927)PP, (2201928)SV	B.Arch.	Second Year B.Arch.	IV

**Mapping of Course Outcome (CO) with Program Outcome (PO) : PP (100), SV (100)**

Sr. No.	CO / PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8		Average
1	CO 1 : Define different types of concrete used for speedy construction.	0	2	1	0	3	1	3	1		1.38
2	CO 2 : Categorize different types of structural members in foundation and su	1	2	1	0	3	3	3	3		2.00
3	CO 3 : Choose suitable materials used for foundation and flooring.	3	2	2	0	3	3	3	3		2.38
4	CO 4 : Explain the process of installation for different building components such as flooring and fenestration.	1	3	2	3	3	3	3	3		2.63
5	CO 5 : Test the workability and compressive strength of RCC.	1	1	1	0	3	0	3	1		1.25
6	CO 6: Construct different building types of RCC and non-Timber structural elements.	3	3	3	0	3	3	3	3		2.63
Average Po's		1.50	2.17	1.67	0.50	3.00	2.17	3.00	2.33		2.04

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Department	Architecture	Name of the Course	Theory Of Structure -IV (2201929)
Class	Second Year B. Arch.	Semester	IV
Name of the Faculty Member	Er. Nikhil Vikhe		

### Course Outcomes (CO's) TOS-IV (Theory Exam)

CO	Level	Course Outcome
CO1	L1 : Remember	Write a note on Under reinforced, Balanced, over the reinforced section.
CO2	L2 : Understand	Explain the advantages and Disadvantages of Steel Structures. a. Calculate Moment of Resistance, safe
CO3	L3 : Apply	Explain the classification of Steel sections with Diagram.
CO4	L4 : Analyse	Evaluates internal Structural action in member.
CO5	L5 : Evaluate	Design cantilever slab, Beam, steel Girder and stanchions.
CO6	L6 : Create	



  
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Name and Code of the Course	Programme	Class	Semester
Theory Of Structure-IV : PP (2201929)	B.Arch.	Second Year B.Arch.	IV

### Mapping of Course Outcome (CO) with Program Outcome (PO) : TOS-IV (Theory Exam )

Sr. No.	CO / PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	Average
1	CO 1 : Write a note on Under reinforced, Balanced, over the reinforced section.	1	2	1	3	1	2	1	2	1.63
2	CO 2 : Explain the advantages and Disadvantages of Steel Structures. a. Calculate Moment of Resistance, safe UDL	1	2	1	3	1	2	1	1	1.50
3	CO 3 : Explain the classification of Steel sections with Diagram.	1	2	1	3	1	2	1	1	1.50
4	CO 4 : Evaluates internal Structural action in member.	1	2	1	3	1	2	1	1	1.50
5	CO 5 : Design cantilever slab, Beam, steel Girder and stanchions.	1	2	2	3	1	2	1	1	1.63
6	CO 6:	0	0	0	0	0	0	0	0	0.00
Average Po's		0.83	1.67	1.00	2.50	0.83	1.67	0.83	1.00	1.29

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Department	Architecture	Name of the Course	Environmental Science (2201930)
Class	Second Year B. Arch.	Semester	III
Name of the Faculty Member	Ar. Rahul Deshmukh, Ar. Charuta Sonparote		

### Course Outcomes (CO's) SS (Sessional)

CO	Level	Course Outcome
CO1	L1 : Remember	Describe environment legislations and social aspects of the environment
CO2	L2 : Understand	Associate different ecosystems (Forest ecosystem, grassland ecosystem, desert ecosystem, aquatic ecosystem, etc.) with built structure and function of it.
CO3	L3 : Apply	Determine consumptive, productive use, social, ethical and aesthetical values of biodiversity
CO4	L4 : Analyse	Analyse causes and effects of different sources of pollution
CO5	L5 : Evaluate	Evaluate building and site development as per the green building rating systems.
CO6	L6 : Create	Design 'Environment-Friendly Buildings'.



  
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Name and Code of the Course	Programme	Class	Semester
Environmental Science (2201930)	B.Arch.	Second Year B.Arch.	III

**Mapping of Course Outcome (CO) with Program Outcome (PO) : SS (50)**

Sr. No.	CO / PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	Average
1	CO 1 :Describe environment legislations and social aspects of the environment	3	1	2	1	3	1	3	3	2.13
2	CO 2 : Associate different ecosystems (Forest ecosystem, grassland ecosystem, desert ecosystem, aquatic ecosystem, etc.) with built structure and function of it.	3	1	2	3	3	1	3	3	2.38
3	CO 3 : Determine consumptive, productive use, social, ethical and aesthetical values of biodiversity	3	1	2	2	3	1	3	3	2.25
4	CO 4 :Analyse causes and effects of different sources of pollution	3	1	2	3	3	1	3	3	2.38
5	CO 5 :Evaluate building and site development as per the green building rating systems.	3	1	2	0	3	1	3	3	2.00
6	CO 6: Design 'Environment-Friendly Buildings'.	3	1	2	0	3	1	3	3	2.00
Average Po's		3.00	1.00	2.00	1.50	3.00	1.00	3.00	3.00	2.19

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Department	Architecture	Name of the Course	History Of Architecture & Culture-IV (2201931)
Class	Second Year B. Arch.	Semester	IV
Name of the Faculty Member	Ar. Tejaswini Gholap		

### Course Outcomes (CO's) SS (Sessional)

CO	Level	Course Outcome
CO1	L1 : Remember	Define the architecture of the post-medieval Western World as a result of the cultural, political, and economic contexts.
CO2	L2 : Understand	Group Industrial revolution and the resulting architecture of eighteenth, and nineteenth-century in Europe.
CO3	L3 : Apply	Sketch architecture with specific reference to form, technology and ornament.
CO4	L4 : Analyse	Categorize Revival architecture in Europe and America.
CO5	L5 : Evaluate	Experiment contemporary architecture of the world concerning historical precedents.
CO6	L6 : Create	Create measured drawing and digital documentation of any site/ building/ part or features of a building related to the historical monuments.



  
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Name and Code of the Course	Programme	Class	Semester
History Of Architecture & Culture-IV (2201931)	B.Arch.	Second Year B.Arch.	III

**Mapping of Course Outcome (CO) with Program Outcome (PO) : SS (50)**

Sr. No.	CO / PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	Average
1	CO 1 : Define the architecture of the post-medieval Western World as a result of the cultural, political, and economic contexts.	3	1	2	1	1	3	3	1	1.88
2	CO 2 : Group Industrial revolution and the resulting architecture of eighteenth, and nineteenth-century in Europe.	3	1	2	1	1	3	3	3	2.13
3	CO 3 : Sketch architecture with specific reference to form, technology and ornament.	3	1	2	1	1	3	3	2	2.00
4	CO 4 : Categorize Revival architecture in Europe and America.	3	1	2	1	1	3	3	2	2.00
5	CO 5 : Experiment contemporary architecture of the world concerning historical precedents.	3	1	2	1	1	3	1	2	1.75
6	CO 6: Create measured drawing and digital documentation of any site/ building/ part or features of a building related to the historical monuments.	3	1	2	1	3	3	3	2	2.25
Average Po's		3.00	1.00	2.00	1.00	1.33	3.00	2.67	2.00	2.00

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Department	Architecture	Name of the Course	Building Services- II P(2201932), SS (2201933)
Class	Second Year B. Arch.	Semester	IV
Name of the Faculty Member	Ar. Charuta Sonparote		

### Course Outcomes (CO's) SS AND PP (Theory Exam)

CO	Level	Course Outcome
CO1	L1 : Remember	Define integration of services in lighting and electrification
CO2	L2 : Understand	Explain Low Voltage electrical systems and its integration in BMS
CO3	L3 : Apply	Execute electrical layout and lighting plan of a building interior
CO4	L4 : Analyse	Recommend the appropriate electrical wiring systems for small and large installations
CO5	L5 : Evaluate	Calculate systems with special reference to levels of illumination for various uses and lumen method
CO6	L6 : Create	Integrate Wi-Fi and LAN network EPABX & Telecommunication system.



  
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Name and Code of the Course	Programme	Class	Semester
Building Services- II P(2201532), SS (2201933)	B.Arch.	Second Year B.Arch.	IV

### Mapping of Course Outcome (CO) with Program Outcome (PO) :SS/PP (Sessional / Theory Exam)

Sr. No.	CO / PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	Average
1	CO 1 :Define integration of services in lighting and electrification	3	3	3	3	3	3	3	3	
2	CO 2 : Explain Low Voltage electrical systems and its integration in BMS	3	3	3	1	3	3	3	3	
3	CO 3 : Execute electrical layout and lighting plan of a building interior	3	3	3	3	3	3	3	3	
4	CO 4 :Recommend the appropriate electrical wiring systems for small and large installations	3	3	3	2	3	3	3	3	
5	CO 5 :Calculate systems with special reference to levels of illumination for various uses and lumen method calculations	3	3	3	3	3	3	2	3	
6	CO 6: Integrate Wi-Fi and LAN network EPABX & Telecommunication system	3	3	3	3	3	3	3	3	
Average Po's		3.00	3.00	3.00	2.50	3.00	3.00	2.83	3.00	2.92

0: No Correlation, 1: Slight (Low), 2 : Moderate (Medium), 3: Substantial (High)



  
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**Architecture, Loni**



LOKNETE. DR. BALASAHEB VIKHE PATIL  
(PADMA BHUSHAN AWARDEE)  
PRAVARA RURAL EDUCATION SOCIETY  
**PRAVARA RURAL COLLEGE  
OF ARCHITECTURE LONI**

Sadatpur Road, LoniKd., Tal.: Rahata, Dist.: Ahmednagar 413 736, (M.S.)  
Phone:02422)274295 Email Id: [principal.prcarchloni@pravara.in](mailto:principal.prcarchloni@pravara.in) Web: [www.pravara.in](http://www.pravara.in)  
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Department	Architecture	Name of the Course	Site Survey & Analysis (2201934)
Class	Second Year B. Arch.	Semester	IV
Name of the Faculty Member	Er. Nikhil Vikhe		

### Course Outcomes (CO's) SS (Sessional)

CO	Level	Course Outcome
CO1	L1 : Remember	Define Linear Measurements, measurements in horizontal plane, survey stations, survey lines open and closed traverse.
CO2	L2 : Understand	Summarize Natural and Manmade aspects (such as microclimate, topography, hydrology and vegetation), physical and sociocultural context of the site. Site Analysis of the above parameters, Site Synthesis and Site Suitability.
CO3	L3 : Apply	Examine Dumpy level, auto and tilting level, principle lines of a levelling instrument, the axis of the telescope, the axis of bubble tube, line of collimation, vertical axis recording by collimation plane, method
CO4	L4 : Analyse	Explain Accessories used in plane tabling, methods of locating objects, methods of table orientation, Advantages and disadvantages. Use of Plano meter.
CO5	L5 : Evaluate	Review the contours plotting and profiles, interpolation of contours, contour interval, Characteristics of contours, understanding gradient, cut and fill for desired ground level, direct and indirect methods of contouring, block contour surveys.
CO6	L6 : Create	Compose survey drawings, contours and grading for Site development, site characteristics, reading and interpreting survey drawings, understanding equipment and methods of surveying levelling.



  
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Name and Code of the Course	Programme	Class	Semester
Site Survey and Analysis (2201934)	B.Arch.	Second Year B.Arch.	III

### Mapping of Course Outcome (CO) with Program Outcome (PO) : SS (50)

Sr. No.	CO / PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	Average
1	CO 1 : Define Linear Measurements, measurements in horizontal plane, survey stations, survey lines open and closed traverse.	3	1	2	1	1	3	3	1	1.88
2	CO 2 : Summarize Natural and Manmade aspects (such as microclimate, topography, hydrology and vegetation), physical and sociocultural context of the site. Site Analysis of the above parameters, Site Synthesis and Site Suitability.	3	1	2	1	1	3	3	3	2.13
3	CO 3 : Examine Dumpy level, auto and tilting level, principle lines of a levelling instrument, the axis of the telescope, the axis of bubble tube, line of collimation, vertical axis recording by collimation plane, method and rise-fall method.	3	1	2	1	1	3	3	2	2.00
4	CO 4 : Explain Accessories used in plane tabling, methods of locating objects, methods of table orientation, Advantages and disadvantages. Use of Plano meter.	3	1	2	1	1	3	3	2	2.00
5	CO 5 : Review the contours plotting and profiles, interpolation of contours, contour interval, Characteristics of contours, understanding gradient, cut and fill for desired ground level, direct and indirect methods of contouring, block contour surveys.	3	1	2	1	1	3	1	2	1.75
6	CO 6: Compose survey drawings, contours and grading for Site development, site characteristics, reading and interpreting survey drawings, understanding equipment and methods of surveying levelling.	3	1	2	1	3	3	3	2	2.25
Average Po's		3.00	1.00	2.00	1.00	1.33	3.00	2.67	2.00	2.00

0: No Correlation, 1: Slight (Low), 2 : Moderate (Medium), 3: Substantial (High)



  
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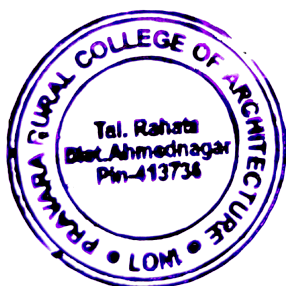


## Criteria 2 – Teaching Learning and Evaluation (350)

### 2.6 Student Performance and Learning Outcome (90)

#### 2.6.2 Attainment of POs and COs are evaluated

THIRD YEAR: SEMESTER V : ATTAINMENT OF POs AND COs		
Sr. No.	COURSE TITLE	COURSE CODE
1	Architectural Design IV	3201935
2	Building Construction & Materials V	3201936 (P), 3201937 (SV)
3	Theory of Structure V	3201938 (P)
4	Landscape architecture	3201939 (SS)
5	Elective – I (contemporary architecture)	3201940 (SS)
6	Building Services III	3201941 (P), 3201942 (SS)
7	Working drawing I	3201943 (SS)
THIRD YEAR: SEMESTER VI: ATTAINMENT OF POs AND COs		
Sr. No.	COURSE TITLE	COURSE CODE
1	Architectural Design V	3201944 (SV), 3201945 (P)
2	Building Construction & Materials VI	3201946(SV)
3	Theory of structures VI	3201947 (P)
4	Research in architecture I	3201948 (SS)
5	Elective II	3201949 (SS)
6	Building services IV	3201950 (P), 3201951 (SS)
7	Working drawing II	3201952 (SS)



  
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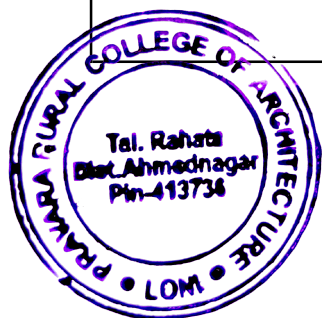
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Department	Architecture	Name of the Programme	Bachelors of Architecture (B.Arch.)
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### Programme Outcomes (PO's)

PO	Programme Outcome
PO1	<b>Knowledge</b> : After successful completion of Five-year degree program in B.Arch. student will be able to: Understand about role of various knowledge domains such as humanities, technology, and environment in design of built environment.
PO2	<b>Principles &amp; Theory</b> : After successful completion of Five-year degree program in B.Arch. student will be able to implement: Knowledge of principles of architecture & theoretical knowledge and its application in design.
PO3	<b>Creativity</b> : After successful completion of Five-year degree program in B.Arch. student will be able to develop: Creative and design thinking ability
PO4	<b>Practice</b> : After successful completion of Five-year degree program in B.Arch. student will be able to implement: Ability to understand real life situation of Architectural Practice and to work with ethical and professional responsibilities.
PO5	<b>Collaborative Working</b> : After successful completion of Five-year degree program in B.Arch. student will be able to develop: Ability to communicate effectively and work in interdisciplinary groups
PO6	<b>Inclusivity</b> : After successful completion of Five-year degree program in B.Arch. student will be able to incorporate: Sensitivity in design for inclusivity, equity, environment, diverse cultures, and heritage.
PO7	<b>Technological Knowhow</b> :After successful completion of Five-year degree program in B.Arch. student will be able to implement: Ability to review, comprehend and report technological developments in the profession of architecture and construction.
PO8	<b>Ability to choose Area of Specialisation or Practise</b> : After successful completion of Five-year degree program in B.Arch. student will be able to: Judge one's area of interest and accordingly choose the field of practice.



  
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**THIRD YEAR: SEMESTER V**



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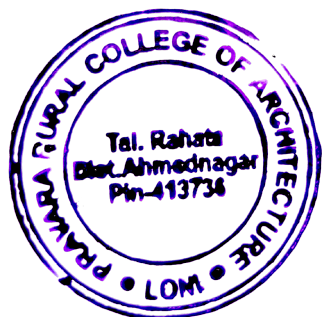
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Department	Architecture	Name of the Course	ARCHITECTURAL DESIGN IV 3201935 (S
Class	Third Year B. Arch.	Semester	V
Name of the Faculty Member	Ar.Meghna Joshi, Ar. Pradip Deshmukh		

**Course Outcomes (CO's): SV (Sessional & Viva)**

CO	Level	Course Outcome
CO1	L1 : Remember	. Define the concept and principles of universal design concerning the design of campuses developed in the past.
CO2	L2 : Understand	Summarize the Aesthetic aspects of Design (visual and experiential) along with spatial attributes (scale and proportions,
CO3	L3 : Apply	Present functional aspects of design (activity, use of space, adequacy and efficiency of space for a particular activity,
CO4	L4 : Analyse	Integrate functions, structure and services in a building with relevant structural system and its resultant effect on visual
CO5	L5 : Evaluate	Review location of site preferably in a different socio-geographic setting other than the Institute documents the study with
CO6	L6 : Create	Compose design of progressively complex spaces and buildings in terms of area, a specific community, typology, function



  
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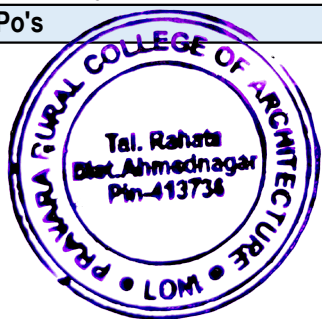
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Name and Code of the Course	Programme	Class	Semester
ARCHITECTURAL DESIGN IV 3201935 (SV)	B.Arch.	Third Year B.Arch.	V

### Mapping of Course Outcome (CO) with Program Outcome (PO) : SV (Sessional & Viva)

Sr. No.	CO / PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8		Average
1	CO 1 :. Define the concept and principles of universal design concerning the design of campuses developed in the past.	3	3	3	3	3	3	3	3		3.00
2	CO 2 :Summarize the Aesthetic aspects of Design (visual and experiential) along with spatial attributes (scale and proportions, volume, texture, light and shadows, etc.) and formal characteristics. (profile, base, corner, termination)	3	3	3	3	3	3	2	2		2.75
3	CO 3 :Present functional aspects of design (activity, use of space, adequacy and efficiency of space for a particular activity,essential adjacencies of spaces, ease and efficiency of circulation, light, ventilation, user-space relationship, vertical connections.	3	3	3	3	3	3	3	2		2.88
4	CO 4 :Integrate functions, structure and services in a building with relevant structural system and its resultant effect on visual form/character of the building.	3	3	3	3	3	3	3	3		3.00
5	CO 5 :Review location of site preferably in a different socio-geographic setting other than the Institute documents the study with emphasis on relevant aspects like climate, social structure, culture, architectural typology, construction technology, urban fabric, economy, etc.	3	3	3	3	3	3	3	3		3.00
6	CO 6: Compose design of progressively complex spaces and buildings in terms of area, a specific community, typology, function etc., with emphasis on either scale or complexity of the project, or both.	3	3	3	3	3	3	3	3		3.00
Average Po's		3.00	3.00	3.00	3.00	3.00	3.00	2.83	2.67		2.94

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Department	Architecture	Name of the Course	BUILDING CONSTRUCTION AND
Class	Third Year B. Arch.	Semester	V
Name of the Faculty Member	Ar.Abhijit Shinde , Ar. Tejaswini Gholap		

**Course Outcomes (CO's): PP (Theory Exam ) and SV (Sessional & Viva)**

CO	Level	Course Outcome
CO1	L1 : Remember	Define Characteristics, Properties and types of wood & wood derivative materials, other panel materials, finishing material and
CO2	L2 : Understand	Relate single basement construction concerning retaining wall, shallow deep foundation and high rise construction
CO3	L3 : Apply	Determine the use of flat plate, flat slab, ribbed slab, waffle slab along with earthquake-resistant features, reference of RCC
CO4	L4 : Analyse	Categorize Demountable Partition construction using proprietary and non-proprietary systems using all available materials
CO5	L5 : Evaluate	Experiment Suspended Ceiling construction using proprietary and non-proprietary systems using all available materials
CO6	L6 : Create	Create Furniture Design and assembly using timber and other material along with finishing and upholstery



  
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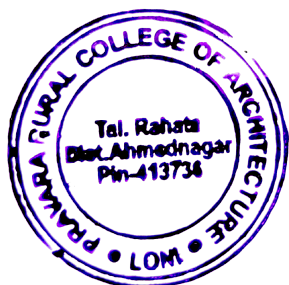
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Name and Code of the Course	Programme	Class	Semester
BUILDING CONSTRUCTION AND MATERIALS V 3201936 (P), 3201937 (SV)	B.Arch.	Third Year B.Arch.	V

**Mapping of Course Outcome (CO) with Program Outcome (PO) : PP (Theory Exam ) and SV (Sessional & Viva)**

Sr. No.	CO / PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8		Average
1	CO 1 :Define Characteristics, Properties and types of wood & wood derivative materials, other panel materials, finishing material and their application in interior design	3	3	3	3	2	3	3	3		2.88
2	CO 2 : Relate single basement construction concerning retaining wall, shallow deep found	3	3	3	3	2	3	3	3		2.88
3	CO 3 :Determine the use of flat plate, flat slab, ribbed slab, waffle slab along with earthquake-resistant features, reference of RCC drawing and architectural concept	3	3	2	3	2	3	3	3		2.75
4	CO 4 : Categorize Demountable Partition construction using proprietary and non-proprietary systems using all available materials	3	3	3	3	3	3	3	3		3.00
5	CO 5 : Experiment Suspended Ceiling construction using proprietary and non-proprietary systems using all available materials	3	3	3	3	3	3	3	3		3.00
6	CO 6: Create Furniture Design and assembly using timber and other material along with finishing and upholstery	3	3	3	3	3	3	3	3		3.00
Average Po's		3.00	3.00	2.83	3.00	2.50	3.00	3.00	3.00		2.92



  
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Department	Architecture	Name of the Course	THEORY OF STRUCTURES V
Class	Third Year B. Arch.	Semester	V
Name of the Faculty Member	Er.Nikhil Vikhe		

### Course Outcomes (CO's): PP (Paper)

CO	Level	Course Outcome
CO1	L1 : Remember	Write a note on Doubly Reinforced Beam, Flat slab, coffered slab.
CO2	L2 : Understand	Differentiate between Different Method of Design Philosophy.
CO3	L3 : Apply	Calculate Stress in Pre-Stressed Beam, Loads on the column,
CO4	L4 : Analyse	Explain Foundation on Black cotton soil
CO5	L5 : Evaluate	Evaluate Stability of Earth Retaining Structures.
CO6	L6 : Create	Design Doubly Reinforced Beam T, L beam, columns, Foundations, Steel Girder, stanchions, etc.



  
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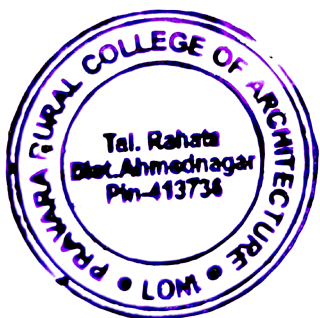
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Name and Code of the Course	Programme	Class	Semester
THEORY OF STRUCTURES V	B.Arch.	Third Year B.Arch.	V

**Mapping of Course Outcome (CO) with Program Outcome (PO) : PP (Paper)**

Sr. No.	CO / PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8		Average
1	CO 1 : Write a note on Doubly Reinforced Beam, Flat slab, coffered slab.	3	3	0	3	3	0	3	3		2.25
2	CO 2 : Differentiate between Different Method of Design Philosophy.	3	3	1	0	3	1	3	0		1.75
3	CO 3 : Calculate Stress in Pre-Stressed Beam, Loads on the column,	3	0	0	1	3	1	3	3		1.75
4	CO 4 : Explain Foundation on Black cotton soil	3	3	0	1	3	3	3	3		2.38
5	CO 5 : Evaluate Stability of Earth Retaining Structures.	3	3	0	3	3	3	3	3		2.63
6	CO 6: Design Doubly Reinforced Beam T, L beam, columns, Foundations, Steel Girder, stanchions, etc.	3	3	3	3	3	1	3	3		2.75
Average Po's		3.00	2.50	0.67	1.83	3.00	1.50	3.00	2.50		2.25



  
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Department	Architecture	Name of the Course	LANDSCAPE ARCHITECTURE
Class	Third Year B. Arch.	Semester	V
Name of the Faculty Member	Ar.Rahul Deshmukh, Ar.Charuta Sonparote		

### Course Outcomes (CO's): SS (Sessional)

CO	Level	Course Outcome
CO1	L1 : Remember	Understand the role of Landscape and identify the elements (Land, Water and Vegetation) of Landscape Design.
CO2	L2 : Understand	Discuss the intent and content of Landscape Design.
CO3	L3 : Apply	Integrate the design of open space and built space as a site planning through site analysis.
CO4	L4 : Analyse	Correlate Landscape Design and Environmental Concern.
CO5	L5 : Evaluate	Reflect Site Planning Principles in Design Problem.
CO6	L6 : Create	Develop Landscape Design Plan with Landscape Construction Details and Planting Policy.



  
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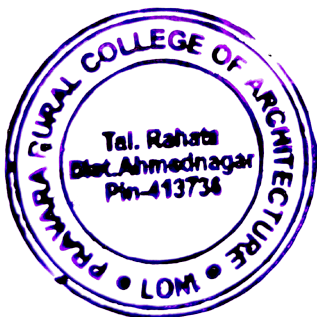
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Name and Code of the Course	Programme	Class	Semester
LANDSCAPE ARCHITECTURE	B.Arch.	Third Year B.Arch.	V

### Mapping of Course Outcome (CO) with Program Outcome (PO) : SS (Sessional)

Sr. No.	CO / PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8		Average
1	CO 1 : Understand the role of Landscape and identify the elements (Land, Water and Vegetation) of Landscape Design.	3	3	3	3	2	3	3	3		2.88
2	CO 2 : Discuss the intent and content of Landscape Design.	3	3	3	1	3	3	3	2		2.63
3	CO 3 :Integrate the design of open space and built space as a site planning through site analysis.	3	3	2	3	3	3	3	2		2.75
4	CO 4 :Correlate Landscape Design and Environmental Concern.	3	3	3	3	3	3	3	3		3.00
5	CO 5 : Reflect Site Planning Principles in Design Problem.	0	3	3	3	3	3	3	3		2.63
6	CO 6:Develop Landscape Design Plan with Landscape Construction Details and Planting Policy.	3	3	3	3	3	3	3	3		3.00
Average Po's		2.50	3.00	2.83	2.67	2.83	3.00	3.00	2.67		2.81



  
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Department	Architecture	Name of the Course	ELECTIVE – I (CONTEMPORARY
Class	Third Year B. Arch.	Semester	V
Name of the Faculty Member	Ar.Kapil Burhade , Ar. Tejaswini Gholap		

### Course Outcomes (CO's): SS (Sessional)

CO	Level	Course Outcome
CO1	L1 : Remember	Recall the background development of architecture since the second half of the 20th century.
CO2	L2 : Understand	Associate Post 2000 CE trends in architecture
CO3	L3 : Apply	Presenting contemporary trends/approaches in architectural production.
CO4	L4 : Analyse	Explain the architecture across the world.
CO5	L5 : Evaluate	Review critically and comment on contemporary architecture across the world
CO6	L6 : Create	Write and present the seminar report to focus on local and regional issues in architecture



  
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Name and Code of the Course	Programme	Class	Semester
ELECTIVE – I (CONTEMPORARY ARCHITECTURE)	B.Arch.	Third Year B.Arch.	V

### Mapping of Course Outcome (CO) with Program Outcome (PO) : SS (Sessional)

Sr. No.	CO / PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8		Average
1	CO 1 : Recall the background development of architecture since the second half of the 20th century.	3	3	1	3	1	2	3	3		2.38
2	CO 2 : Associate Post 2000 CE trends in architecture	3	3	2	3	1	2	3	3		2.50
3	CO 3 : Presenting contemporary trends/approaches in architectural production.	3	3	3	3	1	2	3	3		2.63
4	CO 4 : Explain the architecture across the world.	3	3	3	3	3	2	3	3		2.88
5	CO 5 : Review critically and comment on contemporary architecture across the world	3	3	1	3	3	2	3	3		2.63
6	CO 6: Write and present the seminar report to focus on local and regional issues in architecture	3	3	2	3	3	3	3	3		2.88
Average Po's		3.00	3.00	2.00	3.00	2.00	2.17	3.00	3.00		2.65



  
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Department	Architecture	Name of the Course	BUILDING SERVICES III
Class	Third Year B. Arch.	Semester	V
Name of the Faculty Member	Ar.Pradip Deshmukh		

**Course Outcomes (CO's): PP (Theory Exam ) and SV (Sessional & Viva)**

CO	Level	Course Outcome
CO1	L1 : Remember	Identify the different components of the air-conditioning system.
CO2	L2 : Understand	Categorize the conventional and non-conventional air-conditioning system in the building.
CO3	L3 : Apply	Implement the different type of air conditioning system in the building.
CO4	L4 : Analyse	Calculate the air-conditioning load.
CO5	L5 : Evaluate	Select the type of ventilation system for the building.
CO6	L6 : Create	Design the AC layout for the building.



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Name and Code of the Course	Programme	Class	Semester
BUILDING SERVICES III	B.Arch.	Third Year B.Arch.	V

**Mapping of Course Outcome (CO) with Program Outcome (PO) : PP (Theory Exam ) and SV (Sessional & Viva)**

Sr. No.	CO / PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8		Average
1	CO 1 :Identify the different components of the air-conditioning system.	3	2	1	3	1	0	1	3		1.75
2	CO 2 : Categorize the conventional and non-conventional air-conditioning system in the building.	3	3	2	3	2	0	2	3		2.25
3	CO 3 :Implement the different type of air conditioning system in the building.	3	3	3	3	3	0	3	3		2.63
4	CO 4 : Calculate the air-conditioning load.	3	2	1	3	3	1	3	3		2.38
5	CO 5 : Select the type of ventilation system for the building.	3	3	1	3	3	3	3	3		2.75
6	CO 6: Design the AC layout for the building.	3	3	1	3	3	3	3	3		2.75
Average Po's		3.00	2.67	1.50	3.00	2.50	1.17	2.50	3.00		2.42



  
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Department	Architecture	Name of the Course	WORKING DRAWING I
Class	Third Year B. Arch.	Semester	V
Name of the Faculty Member	Ar.Meghna Joshi , Ar. Pradip Deshmukh		

### Course Outcomes (CO's): SS (Sessional)

CO	Level	Course Outcome
CO1	L1 : Remember	Tabulate schedules of materials, finishes and hardware
CO2	L2 : Understand	Associate I.S. Codes, internationally accepted norms, oblique conventions in working.
CO3	L3 : Apply	Apply mode of the graphical presentation along with I.S code in working drawing.
CO4	L4 : Analyse	Examine working drawing as an important component of the tender document.
CO5	L5 : Evaluate	Recommend materials, finish & hardware.
CO6	L6 : Create	Produce a set of working drawing for load-bearing structure along with civil & interior detailing.



  
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Name and Code of the Course	Programme	Class	Semester
WORKING DRAWING I	B.Arch.	Third Year B.Arch.	V

### Mapping of Course Outcome (CO) with Program Outcome (PO) : SS (Sessional)

Sr. No.	CO / PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8		Average
1	CO 1 : Tabulate schedules of materials, finishes and hardware.	1	0	2	3	2	0	0	1		1.13
2	CO 2 : Associate I.S. Codes, internationally accepted norms, oblique conventions in working.	3	3	1	3	3	1	2	1		2.13
3	CO 3 : Apply mode of the graphical presentation along with I.S code in working drawing.	3	3	2	3	3	1	0	3		2.25
4	CO 4 :Examine working drawing as an important component of the tender document.	3	3	2	3	3	1	1	3		2.38
5	CO 5 : Recommend materials, finish & hardware.	3	2	0	3	1	3	0	2		1.75
6	CO 6:Produce a set of working drawing for load-bearing structure along with civil & interior detailing.	3	1	1	3	3	1	1	3		2.00
Average Po's		2.67	2.00	1.33	3.00	2.50	1.17	0.67	2.17		1.94



  
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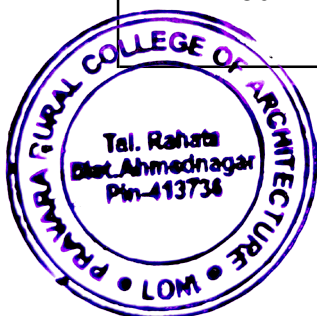
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Department	Architecture	Name of the Programme	Bachelors of Architecture (B.Arch.)
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### Programme Outcomes (PO's)

PO	Programme Outcome
PO1	<b>Knowledge</b> : After successful completion of Five-year degree program in B.Arch. student will be able to: Understand about role of various knowledge domains such as humanities, technology, and environment in design of built environment.
PO2	<b>Principles &amp; Theory</b> : After successful completion of Five-year degree program in B.Arch. student will be able to implement: Knowledge of principles of architecture & theoretical knowledge and its application in design.
PO3	<b>Creativity</b> : After successful completion of Five-year degree program in B.Arch. student will be able to develop: Creative and design thinking ability
PO4	<b>Practice</b> : After successful completion of Five-year degree program in B.Arch. student will be able to implement: Ability to understand real life situation of Architectural Practice and to work with ethical and professional responsibilities.
PO5	<b>Collaborative Working</b> : After successful completion of Five-year degree program in B.Arch. student will be able to develop: Ability to communicate effectively and work in interdisciplinary groups
PO6	<b>Inclusivity</b> : After successful completion of Five-year degree program in B.Arch. student will be able to incorporate: Sensitivity in design for inclusivity, equity, environment, diverse cultures, and heritage.
PO7	<b>Technological Knowhow</b> :After successful completion of Five-year degree program in B.Arch. student will be able to implement: Ability to review, comprehend and report technological developments in the profession of architecture and construction.
PO8	<b>Ability to choose Area of Specialisation or Practise</b> : After successful completion of Five-year degree program in B.Arch. student will be able to: Judge one's area of interest and accordingly choose the field of practice.



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**THIRD YEAR: SEMESTER VI**



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Department	Architecture	Name of the Course	ARCHITECTURAL DESIGN V
Class	Third Year B. Arch.	Semester	V
Name of the Faculty Member	Ar.Meghna Joshi, Ar. Pradip Deshmukh		

**Course Outcomes (CO's): SV (Sessional & Viva)**

CO	Level	Course Outcome
CO1	L1 : Remember	Define the concept and principles of socio-cultural aspects like lifestyle, culture, traditions, and their effect on architectural
CO2	L2 : Understand	Summarize the Aesthetic aspects of Design (visual and experiential) along with spatial attributes (scale and proportions,
CO3	L3 : Apply	Present functional aspects of design (activity, use of space, adequacy and efficiency of space for a particular activity,
CO4	L4 : Analyse	Integrate functions, structure and services in a building with relevant structural system and its resultant effect on visual
CO5	L5 : Evaluate	Review location of site preferably in a different socio-geographic setting other than the Institute documents the study with
CO6	L6 : Create	Compose design of System oriented project with emphasis on structural system, vertical and horizontal circulation, services like



  
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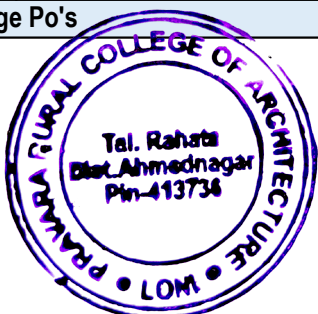
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Name and Code of the Course	Programme	Class	Semester
ARCHITECTURAL DESIGN V	B.Arch.	Third Year B.Arch.	V

### Mapping of Course Outcome (CO) with Program Outcome (PO) : SV (Sessional & Viva)

Sr. No.	CO / PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8		Average
1	CO 1 :Define the concept and principles of socio-cultural aspects like lifestyle, culture, traditions, and their effect on architectural design etc.	3	3	3	3	3	3	3	3		3.00
2	CO 2 :Summarize the Aesthetic aspects of Design (visual and experiential) along with spatial attributes (scale and proportions, volume, texture, light and shadows, etc.) and formal characteristics. (profile, base, corner, termination)	3	3	3	3	3	3	3	3		3.00
3	CO 3 :Present functional aspects of design (activity, use of space, adequacy and efficiency of space for a particular activity,essential adjacencies of spaces, ease and efficiency of circulation, light, ventilation, user-space relationship, vertical connections.	3	3	3	3	3	3	3	3		3.00
4	CO 4 :Integrate functions, structure and services in a building with relevant structural system and its resultant effect on visual form/character of the building.	3	3	3	3	3	3	3	3		3.00
5	CO 5 :Review location of site preferably in a different socio-geographic setting other than the Institute documents the study with emphasis on relevant aspects like climate, social structure, culture, architectural typology, construction technology, urban fabric, economy, etc.	3	3	3	3	3	1	2	2		2.50
6	CO 6: Compose design of System oriented project with emphasis on structural system, vertical and horizontal circulation, services like HVAC, electrical, fire-fighting systems, parking, rules & regulations.	3	3	3	3	3	3	3	3		3.00
Average Po's		3.00	3.00	3.00	3.00	3.00	2.67	2.83	2.83		2.92

0: No Correlation, 1: Slight (Low), 2 : Moderate (Medium), 3: Substantial (High)



  
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Department	Architecture	Name of the Course	BUILDING CONSTRUCTION AND
Class	Third Year B. Arch.	Semester	V
Name of the Faculty Member	Ar.Abhijit Shinde , Ar. Tejaswini Gholap		

**Course Outcomes (CO's): PP (Theory Exam ) and SV (Sessional & Viva)**

CO	Level	Course Outcome
CO1	L1 : Remember	Define Characteristics, Properties and types of various steel materials and their application in buildings.
CO2	L2 : Understand	Interpret the different types of fencing and gates and it's detailed with their drawings.
CO3	L3 : Apply	Prepare the drawing of steel trusses and its connections concerning low rise medium span building.
CO4	L4 : Analyse	Illustrate the steel structure construction for multi-storey building showing metal deck flooring.
CO5	L5 : Evaluate	Experiment locally available proprietary precast systems.
CO6	L6 : Create	Adapt Earthquake resistant frame structures technique in their work.



  
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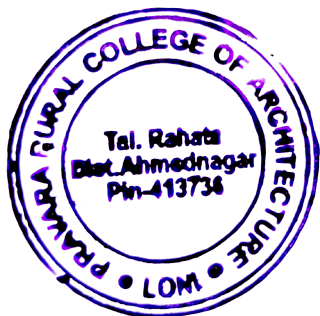
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Name and Code of the Course	Programme	Class	Semester
BUILDING CONSTRUCTION AND MATERIALS VI	B.Arch.	Third Year B.Arch.	V

**Mapping of Course Outcome (CO) with Program Outcome (PO) : PP (Theory Exam ) and SV (Sessional & Viva)**

Sr. No.	CO / PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8		Average
1	CO 1 :Define Characteristics, Properties and types of various steel materials and their application in buildings.	3	3	3	3	3	1	3	3		2.75
2	CO 2 : Interpret the different types of fencing and gates and it's detailed with their drawings.	3	3	3	2	3	2	2	3		2.63
3	CO 3 :Prepare the drawing of steel trusses and its connections concerning low rise medium span building.	3	3	1	3	3	2	3	3		2.63
4	CO 4 : Illustrate the steel structure construction for multi-storey building showing metal deck flooring.	3	3	3	3	3	3	3	3		3.00
5	CO 5 :Experiment locally available proprietary precast systems.	3	1	3	3	3	3	3	3		2.75
6	CO 6: Adapt Earthquake resistant frame structures technique in their work.	3	3	3	3	3	3	3	3		3.00
Average Po's		3.00	2.67	2.67	2.83	3.00	2.33	2.83	3.00		2.79



  
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Department	Architecture	Name of the Course	THEORY OF STRUCTURES VI
Class	Third Year B. Arch.	Semester	V
Name of the Faculty Member	Er.Nikhil Vikhe		

### Course Outcomes (CO's): PP (Paper)

CO	Level	Course Outcome
CO1	L1 : Remember	Write notes on counter fort Retaining wall, Joints in Water Tank.
CO2	L2 : Understand	Explain Reinforcement Detailing in the water tank.
CO3	L3 : Apply	Calculate internal stresses in Structural element.
CO4	L4 : Analyse	Analyse structure for wind load.
CO5	L5 : Evaluate	Evaluate internal forces in member.
CO6	L6 : Create	Design RCC Building, Compound stanchions.



  
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Name and Code of the Course	Programme	Class	Semester
THEORY OF STRUCTURES VI	B.Arch.	Third Year B.Arch.	V

**Mapping of Course Outcome (CO) with Program Outcome (PO) : PP (Paper)**

Sr. No.	CO / PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8		Average
1	CO 1 : Write notes on counter fort Retaining wall, Joints in Water Tank.	3	3	1	3	3	3	3	3		2.75
2	CO 2 : Explain Reinforcement Detailing in the water tank.	3	3	1	3	3	1	3	3		2.50
3	CO 3 :Calculate internal stresses in Structural element.	3	1	1	3	3	2	3	3		2.38
4	CO 4 : Analyse structure for wind load.	3	1	1	3	3	2	3	3		2.38
5	CO 5 : Evaluate internal forces in member.	3	3	1	3	3	2	3	3		2.63
6	CO 6: Design RCC Building, Compound stanchions.	3	3	2	3	3	3	3	3		2.88
Average Po's		3.00	2.33	1.17	3.00	3.00	2.17	3.00	3.00		2.58



  
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Department	Architecture	Name of the Course	RESEARCH IN ARCHITECTURE I
Class	Third Year B. Arch.	Semester	V
Name of the Faculty Member	Ar.Sonali Chaskar, Ar. Kapil Burhade, Ar.Dipeeka Arbatti		

### Course Outcomes (CO's): SS (Sessional)

CO	Level	Course Outcome
CO1	L1 : Remember	Understand the need for research in Architecture and its application in design.
CO2	L2 : Understand	Understand the need for research in Architecture and its application in design.
CO3	L3 : Apply	Predict the need for research on identified issues.
CO4	L4 : Analyse	Integrate various concepts such as types of variables, measurement of variables, sample selection and ethics in research.
CO5	L5 : Evaluate	Criticize and assess previous researches/literature studies.
CO6	L6 : Create	Generate a research proposal.



  
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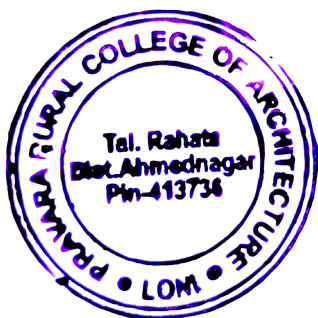
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Name and Code of the Course	Programme	Class	Semester
RESEARCH IN ARCHITECTURE I	B.Arch.	Third Year B.Arch.	V

### Mapping of Course Outcome (CO) with Program Outcome (PO) : SS (Sessional)

Sr. No.	CO / PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8		Average
1	CO 1 : Understand the need for research in Architecture and its application in design.	3	3	3	3	3	3	0	3		2.63
2	CO 2 : Identify issues related to architecture / built environment for research.	3	1	0	3	3	3	0	3		2.00
3	CO 3 :Predict the need for research on identified issues.	3	1	0	3	0	0	0	3		1.25
4	CO 4 :Integrate various concepts such as types of variables, measurement of variables, sample selection and ethics in research.	3	1	3	3	0	3	0	0		1.63
5	CO 5 :Criticize and assess previous researches/literature studies.	3	2	0	3	0	0	0	0		1.00
6	CO 6:Generate a research proposal.	3	3	3	3	2	3	0	0		2.13
Average Po's		3.00	1.83	1.50	3.00	1.33	2.00	0.00	1.50		1.77



  
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Department	Architecture	Name of the Course	ELECTIVE II
Class	Third Year B. Arch.	Semester	V
Name of the Faculty Member	Ar.Kapil Burhade , Ar. Tejaswini Gholap		

### Course Outcomes (CO's): SS (Sessional)

CO	Level	Course Outcome
CO1	L1 : Remember	Select a particular subject of interest in the larger context of the scope of Architectureentury.
CO2	L2 : Understand	Explore (theoretical as well as practical) the recent development in the selected subject
CO3	L3 : Apply	Prepare an initial report with observation, mapping and analysis of the particulars.
CO4	L4 : Analyse	Link findings and its possible application in Architectural Design
CO5	L5 : Evaluate	Reflect the study in Architectural Design Project
CO6	L6 : Create	Develop skills in the selected subject



  
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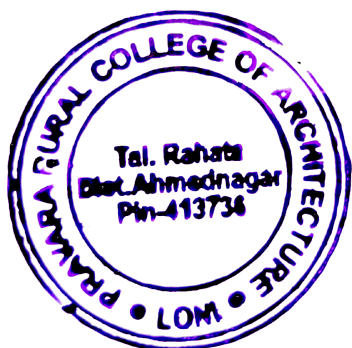
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Name and Code of the Course	Programme	Class	Semester
ELECTIVE II	B.Arch.	Third Year B.Arch.	V

### Mapping of Course Outcome (CO) with Program Outcome (PO) : SS (Sessional)

Sr. No.	CO / PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8		Average
1	CO 1 :Select a particular subject of interest in the larger context of the scope of Architecture	3	3	0	2	0	1	3	3		1.88
2	CO 2 : Explore (theoretical as well as practical) the recent development in the selected subject	3	2	1	3	3	2	3	3		2.50
3	CO 3 :Prepare an initial report with observation, mapping and analysis of the particulars..	2	2	0	3	2	2	3	3		2.13
4	CO 4 :Link findings and its possible application in Architectural Design	2	2	1	3	2	2	3	3		2.25
5	CO 5 : Reflect the study in Architectural Design Project	2	2	2	3	3	2	3	3		2.50
6	CO 6:Develop skills in the selected subject	3	3	2	3	3	2	3	3		2.75
Average Po's		2.50	2.33	1.00	2.83	2.17	1.83	3.00	3.00		2.33



  
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Department	Architecture	Name of the Course	BUILDING SERVICES IV
Class	Third Year B. Arch.	Semester	V
Name of the Faculty Member	Ar.Pradip Deshmukh		

**Course Outcomes (CO's): PP (Theory Exam ) and SV (Sessional & Viva)**

CO	Level	Course Outcome
CO1	L1 : Remember	Recall the fire safety codes, rules and regulation in the design.
CO2	L2 : Understand	Categorize the firefighting equipment.
CO3	L3 : Apply	Implement the different type of acoustical treatments for the room.
CO4	L4 : Analyse	Calculate the reverberation time.
CO5	L5 : Evaluate	Select the noise control methods for airborne and structure-borne noises.
CO6	L6 : Create	Design the Firefighting and Acoustical layout for the building.



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Name and Code of the Course	Programme	Class	Semester
BUILDING SERVICES IV	B.Arch.	Third Year B.Arch.	V

**Mapping of Course Outcome (CO) with Program Outcome (PO) : PP (Theory Exam ) and SV (Sessional & Viva)**

Sr. No.	CO / PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8		Average
1	CO 1 :Recall the fire safety codes, rules and regulation in the design.	3	3	1	3	3	3	3	3		2.75
2	CO 2 : Categorize the firefighting equipment.	1	3	0	1	3	0	3	3		1.75
3	CO 3 :Implement the different type of acoustical treatments for the room.	2	3	3	3	3	3	3	3		2.88
4	CO 4 : Calculate the reverberation time.	3	3	1	3	1	3	0	1		1.88
5	CO 5 : Select the noise control methods for airborne and structure-borne noises.	3	3	3	3	3	3	3	3		3.00
6	CO 6: Design the Firefighting and Acoustical layout for the building.	3	3	3	3	3	3	3	3		3.00
Average Po's		2.50	3.00	1.83	2.67	2.67	2.50	2.50	2.67		2.54



  
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Department	Architecture	Name of the Course	WORKING DRAWING II
Class	Third Year B. Arch.	Semester	V
Name of the Faculty Member	Ar.Meghna Joshi , Ar. Pradip Deshmukh		

### Course Outcomes (CO's): SS (Sessional)

CO	Level	Course Outcome
CO1	L1 : Remember	Tabulate schedules of materials, finishes and hardware.
CO2	L2 : Understand	Associate I.S. Codes, internationally accepted norms, oblique conventions in working.
CO3	L3 : Apply	Apply mode of the graphical presentation along with I.S code in working drawing.
CO4	L4 : Analyse	Examine working drawing as an important component of the tender document.
CO5	L5 : Evaluate	Recommend materials, finish & hardware.
CO6	L6 : Create	Produce a set of working drawings for R.C.C./ Composite structure along with civil & interior detailing.



  
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Name and Code of the Course	Programme	Class	Semester
WORKING DRAWING II	B.Arch.	Third Year B.Arch.	V

### Mapping of Course Outcome (CO) with Program Outcome (PO) : SS (Sessional)

Sr. No.	CO / PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8		Average
1	CO 1 : Tabulate schedules of materials, finishes and hardware.	1	0	2	3	2	0	0	1		1.13
2	CO 2 : Associate I.S. Codes, internationally accepted norms, oblique conventions in working.	3	3	1	3	3	1	2	1		2.13
3	CO 3 : Apply mode of the graphical presentation along with I.S code in working drawing.	3	3	2	3	3	1	0	3		2.25
4	CO 4 :Examine working drawing as an important component of the tender document.	3	3	2	3	3	1	1	3		2.38
5	CO 5 : Recommend materials, finish & hardware.	3	2	0	3	1	3	0	2		1.75
6	CO 6:Produce a set of working drawings for R.C.C./ Composite structure along with civil & interior detailing.	3	1	1	3	3	1	1	3		2.00
Average Po's		2.67	2.00	1.33	3.00	2.50	1.17	0.67	2.17		1.94



  
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## Criteria 2 – Teaching Learning and Evaluation (350)

### 2.6 Student Performance and Learning Outcome (90)

#### 2.6.2 Attainment of POs and COs are evaluated

FOURTH YEAR: SEMESTER VII: ATTAINMENT OF POs AND COs		
Sr. No.	COURSE TITLE	COURSE CODE
1	Architectural Design VI	4201953
2	Advance Building Construction & Services I	4201954
3	Urban Studies I	4201955
4	Research In Architecture II	4201956
5	Elective III	4201957
6	Quantity Surveying & Specification Writing I	4201958
7	Professional Practice	4201959
FOURTH YEAR: SEMESTER VIII: ATTAINMENT OF POs AND COs		
Sr. No.	COURSE TITLE	COURSE CODE
1	Architectural Design VIII	4201960
2	Advance Building Construction & Services II	4201961
3	Urban Studies II	4201962
4	Elective IV	4201963
5	Elective V	4201964
6	Quantity Surveying & Specification Writing II	4201965
7	Project Management	4201966





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## FOURTH YEAR: SEMESTER VII





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Department	Architecture	Name of the Course	Architectural Design VI (4201953)
Class	Fourth Year B. Arch.	Semester	VII
Name of the Faculty Member	Ar. Rahul Deshmukh, Ar. Tejashree Thangaokar, Ar. Jai Kshatriya		

### Course Outcomes (CO's) Sessional Viva (300)

CO	Level	Course Outcome
CO1	L1 : Remember	Remember the relation of Location/ Land values on Defining the Housing Product, Project being part of the City, Context, Green Initiatives, Efficient Planning of Services.
CO2	L2 : Understand	Understood the Multifamily Residential Development for Mixed Use Development, Development of Communities
CO3	L3 : Apply	Identify the scale and complexity of function in a design and associate challenges of physical issues in design.
CO4	L4 : Analyse	Case study analysis and Implement casestudy findings into a real-life solution.
CO5	L5 : Evaluate	Support their claims related to their design and justify its advantages concerning functionality.
CO6	L6 : Create	Propose a solution for various social, economic, physical, cultural, mix development community issues.



  
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Name and Code of the Course	Programme	Class	Semester
Architectural Design VI (4201953)	B.Arch.	Fourth Year B.Arch.	VII

**Mapping of Course Outcome (CO) with Program Outcome (PO) : SESSIONAL/VIVA**

Sr. No.	CO / PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	Average
1	CO 1 : Remember the relation of Location/ Land values on Defining the Housing Product, Project being part of the City, Context, Green Initiatives, Efficient Planning of Services.	3	3	3	3	2	3	3	3	2.88
2	CO 2 : Understood the Multifamily Residential Development for Mixed Use Development, Development of Communities	3	3	3	3	2	3	3	3	2.88
3	CO 3 : Identify the scale and complexity of function in a design and associate challenges of physical issues in design.	3	3	3	3	3	3	3	3	3.00
4	CO 4 : Case study analysis and Implement casestudy findings into a real-life solution.	3	3	3	3	3	2	2	2	2.63
5	CO 5 : Support their claims related to their design and justify its advantages concerning functionality.	3	3	3	3	2	3	2	2	2.63
6	CO 6: Propose a solution for various social, economic, physical, cultural, mix development community issues.	3	3	3	3	3	3	2	1	2.63
Average Po's		3.00	3.00	3.00	3.00	2.50	2.83	2.50	2.33	2.77

0: No Correlation, 1: Slight (Low), 2 : Moderate (Medium), 3: Substantial (High)



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Department	Architecture	Name of the Course	Advance Building Construction & Services - I (4201954)
Class	Fourth Year B. Arch.	Semester	VII
Name of the Faculty Member	Ar. Meghana Joshi, Ar. Suraj Ubale		

### Course Outcomes (CO's) SS / SV (Sessional + Sessional Viva)

CO	Level	Course Outcome
CO1	L1 : Remember	Tabulate various advance structural systems for Multi basements and Swimming Pools.
CO2	L2 : Understand	Interpret the types of Roofing Systems, PEB Systems, Proprietary systems along with industrial flooring.
CO3	L3 : Apply	Implement various construction techniques of long-span structures, industrial buildings, swimming pools and multi basements.
CO4	L4 : Analyse	Organize outline of the swimming pool and multi basement with all required construction details of natural lighting, ventilation and surface water disposal along with service details.
CO5	L5 : Evaluate	Review long-span structures with case study report and construction details.
CO6	L6 : Create	Produce concept development of multi basement and swimming pool along with all required services and architectural details.



  
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### Mapping of Course Outcome (CO) with Program Outcome (PO) : ABCS - II - SV ( Sessional + Viva Voce) 150

Sr. No.	CO / PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	Average
1	CO 1 : Tabulate various advance structural systems for Multi basements and Swimming Pools.	2	3	3	2	2	2	2	3	2.38
2	CO 2 : Interpret the types of Roofing Systems, PEB Systems, Proprietary systems along with industrial flooring.	3	3	3	3	2	2	2	3	2.63
3	CO 3 : Implement various construction techniques of long-span structures, industrial buildings, swimming pools and multi basements.	2	3	3	2	3	2	2	3	2.50
4	CO 4 : Implement various construction techniques of long-span structures, industrial buildings, swimming pools and multi basements.	3	2	3	2	2	3	2	3	2.50
5	CO 5 : Review long-span structures with case study report and construction details.	3	3	3	2	2	3	2	3	2.63
6	CO 6: Produce concept development of multi basement and swimming pool along with all required services and architectural details.	3	2	3	2	3	2	2	3	2.50
Average Po's		2.67	2.67	3.00	2.17	2.33	2.33	2.00	3.00	2.52

0: No Correlation, 1: Slight (Low), 2 : Moderate (Medium), 3: Substantial (High)



  
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Department	Architecture	Name of the Course	Urban Studies - I (4201955)
Class	Fourth Year B. Arch.	Semester	VII
Name of the Faculty Member	Ar. Tejashree Thangaokar, Ar. Suraj Ubale		

### Course Outcomes (CO's) SS / SV (Sessional + Sessional Viva)

CO	Level	Course Outcome
CO1	L1 : Remember	To enable students to understand the urban context of an Architectural Project beyond the site and understand the implications of various factors (such as traffic-transportation, socio-economics, urban landscape, spatial and visual
CO2	L2 : Understand	To introduce the students to urban planning and design theories and concepts and enable them to undertake planning and design of large-scale land development.
CO3	L3 : Apply	Introduction to urban studies and the relevance of its learning in the Architecture profession.
CO4	L4 : Analyse	To analyze principles and theories of Urban Planning, Urban Design and Various aspects of urban land.
CO5	L5 : Evaluate	To appraise urban residential developments such as neighborhood planning, high-rise housing, slum rehabilitation, public housing, town planning schemes etc. through case studies.
CO6	L6 : Create	To develop concept and policies for Affordable housing.



  
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**Mapping of Course Outcome (CO) with Program Outcome (PO) : US - I - SS (Sessional ) 100**

Sr. No.	CO / PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	Average
1	CO 1 : To enable students to understand the urban context of an Architectural Project beyond the site and understand the implications of various factors (such as traffic-transportation, socio-economics, urban landscape, spatial and visual aspects etc) influencing the development of an urban area.	3	3	3	3	3	6	2	2	3.13
2	CO 2 : To introduce the students to urban planning and design theories and concepts and enable them to undertake planning and design of large-scale land development.	3	3	1	3	3	1	3	1	2.25
3	CO 3 : Introduction to urban studies and the relevance of its learning in the Architecture profession.	3	3	2	2	2	2	0	6	2.50
4	CO 4 : To analyze principles and theories of Urban Planning, Urban Design and Various aspects of urban land.	3	3	3	2	3	3	3	0	2.50
5	CO 5 : To appraise urban residential developments such as neighborhood planning, high-rise housing, slum rehabilitation, public housing, town planning schemes etc. through case studies.	3	3	3	2	3	3	3	2	2.75
6	CO 6: To develop concept and policies for Affordable housing.	3	1	1	3	3	2	1	2	2.00
Average Po's		3.00	2.67	2.17	2.50	2.83	2.83	2.00	2.17	2.52

0: No Correlation, 1: Slight (Low), 2 : Moderate (Medium), 3: Substantial (High)



  
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Department	Architecture	Name of the Course	Research In Architecture -II (4201956)
Class	Fourth Year B. Arch.	Semester	VII
Name of the Faculty Member	Ar. Sonali Chaskar, Ar. Kapil Burhade, Ar. Dipeeka Arbatti		

### Course Outcomes (CO's) RIA - I (SV)

CO	Level	Course Outcome
CO1	L1 : Remember	To remember and revise the process of Research in Architecture and its value in design
CO2	L2 : Understand	To Identify the Research Methodology of identified Research issue.
CO3	L3 : Apply	To apply the understanding of research process to structure the research
CO4	L4 : Analyse	To prepare a research proposal focussed on an issue related to the built environment.
CO5	L5 : Evaluate	To write a technical research paper
CO6	L6 : Create	To present research paper in front of the audience.



  
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Name and Code of the Course	Programme	Class	Semester
Research In Architecture -II (4201956)	B.Arch.	Fourth Year B.Arch.	VII

### Mapping of Course Outcome (CO) with Program Outcome (PO) : Research in Architecture - I (SS)

Sr. No.	CO / PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	Average
1	CO 1 : To remember and revise the process of Research in Architecture and its value in design	3	3	3	3	1	3	3	3	2.75
2	CO 2 : To Identify the Research Methodology of identified Research issue.	3	3	2	3	2	3	3	3	2.75
3	CO 3 : To apply the understanding of research process to structure the research	3	3	3	3	3	3	3	1	2.75
4	CO 4 :To prepare a research proposal focussed on an issue related to the built environment.	3	3	3	3	3	3	3	3	3.00
5	CO 5 : To write a technical research paper	3	3	3	3	1	3	3	3	2.75
6	CO 6 : To present research paper in front of the audience.	3	3	3	3	1	3	3	3	2.75
Average Po's		3.00	3.00	2.83	3.00	1.83	3.00	3.00	2.67	2.79

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Department	Architecture	Name of the Course	Elective III (4201957)
Class	Fourth Year B. Arch.	Semester	VII
Name of the Faculty Member	Ar. Kapil Burhade, Ar. Tejaswini Gholap		

### Course Outcomes (CO's) Elective - V (SS) (50)

CO	Level	Course Outcome
CO1	L1 : Remember	To understand and remember particular subject of his/her liking in greater detail but in the larger context of overall scope of Architecture syllabus at undergraduate level.
CO2	L2 : Understand	
CO3	L3 : Apply	To apply and analyse recent developments in the field of architecture from point of view of building design, services and construction.
CO4	L4 : Analyse	
CO5	L5 : Evaluate	To evaluate design strategies for disaster resistance, accessibility, retrofitting, conservation, architectural design theories.
CO6	L6 : Create	Develop policies, strategies for selected topic.



  
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Name and Code of the Course	Programme	Class	Semester
Elective III (4201957)	B.Arch.	Fourth Year B.Arch.	VII

**Mapping of Course Outcome (CO) with Program Outcome (PO) : Elective - V (SS) (50)**

Sr. No.	CO / PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	Average
1	CO 1 : To understand and remember particular subject of his/her liking in greater detail	3	3	2	2	1	3	2	3	2.38
2	CO 2 : but in the larger context of overall scope of Architecture syllabus at undergraduate level.	3	3	2	2	1	3	2	3	2.38
3	CO 3 : To apply and analyse recent developments in the field of architecture from point	3	3	1	2	1	3	2	1	2.00
4	CO 4 : of view of building design, services and construction. To apply and analyse recent developments in the field of architecture	3	3	1	2	1	3	2	3	2.25
5	CO 5 : To evaluate design strategies for disaster resistance, accessibility, retrofitting, conservation, architectural design theories.	3	3	2	2	3	3	2	3	2.63
6	CO 6 : Develop policies, strategies for selected topic.	3	3	2	2	2	3	3	3	2.63
Average Po's		3.00	3.00	1.67	2.00	1.50	3.00	2.17	2.67	2.38

0: No Correlation, 1: Slight (Low), 2 : Moderate (Medium), 3: Substantial (High)



  
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Department	Architecture	Name of the Course	Quantity Surveying & Specification Writings -I (4201958)
Class	Fourth Year B. Arch.	Semester	VII
Name of the Faculty Member	Er. Nikhil Vikhe , Ar. Charuta Sonparote		

**Course Outcomes (CO's) PP (Theory Paper) (30+70 = 100)**

CO	Level	Course Outcome
CO1	L1 : Remember	To understand and remember estimation as an important Subject for Architecture.
CO2	L2 : Understand	To understand methodology of writing specifications with reference to building trades, materials, workmanship & performance of different items of work.
CO3	L3 : Apply	To apply and analyse Different methods of Computing Quantities for items of work in a structure.
CO4	L4 : Analyse	To analyse and evaluated the importance of specifications in contract document for any construction project.
CO5	L5 : Evaluate	To evaluate quantities of various items of work for simple load bearing and R.C.C. framed structure and acquaint them with various types of estimates including standard method of measurement on building works and mode of measurements as adopted by I.S 1200.
CO6	L6 : Create	To prepare estimate of the load bearing and R.C.C. project.



  
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**Mapping of Course Outcome (CO) with Program Outcome (PO) : QS & SW - I - PP (In-Sem + End Sem) (30+70=100)**

Sr. No.	CO / PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	Average
1	CO 1 : To understand and remember estimation as an important Subject for Architecture.	0	2	1	2	0	2	2	3	1.50
2	CO 2 : To understand methodology of writing specifications with reference to building trades, materials, workmanship & performance of different items of work.	1	2	1	2	2	2	2	3	1.88
3	CO 3 : To apply and analyse Different methods of Computing Quantities for items of work in a structure.	1	2	1	2	2	2	2	3	1.88
4	CO 4 : To analyse and evaluated the importance of specifications in contract document for any construction project.	1	2	1	2	2	2	2	3	1.88
5	CO 5 : To evaluate quantities of various items of work for simple load bearing and R.C.C. framed structure and acquaint them with various types of estimates including standard method of measurement on building works and mode of measurements as adopted by I.S 1200.	1	2	1	2	2	3	2	3	2.00
6	CO 6: To prepare estimate of the load bearing and R.C.C. project.	1	2	1	2	2	2	2	3	1.88
Average Po's		0.83	2.00	1.00	2.00	1.67	2.17	2.00	3.00	1.83

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Department	Architecture	Name of the Course	Professional Practice (4201959)
Class	Fourth Year B. Arch.	Semester	VII
Name of the Faculty Member	Ar. Abhijeet Shinde, Ar. Suraj Ubale		

**Course Outcomes (CO's) PP (Theory Paper) (30+70 = 100)**

CO	Level	Course Outcome
CO1	L1 : Remember	To understand and remember the Role and Stature of an Architect in Society, and understand the duties, responsibilities, liabilities and ethics as a professional.
CO2	L2 : Understand	
CO3	L3 : Apply	To analyse the Scope and Avenues of professional Architectural services, and the demands and Mode of professional practice
CO4	L4 : Analyse	
CO5	L5 : Evaluate	To visit and appraise Architect's office administration, documentation and procedures of office and site management to enhance his comprehension and utility during his professional training.
CO6	L6 : Create	



  
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**Mapping of Course Outcome (CO) with Program Outcome (PO) : Professional Practice - PP (In-Sem + End Sem) (30+70=100)**

Sr. No.	CO / PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	Average
1	CO 1 : To understand and remember the Role and Stature of an Architect in CO 2 : Society, and understand the duties, responsibilities, liabilities and ethics as a professional.	2	3	3	2	2	2	2	3	2.38
2		3	3	3	3	2	2	2	3	2.63
3	CO 3 : To analyse the Scope and Avenues of professional Architectural services, CO 4 : and the demands and Mode of professional practice	2	3	3	2	1	2	2	3	2.25
4		3	2	3	2	2	3	2	3	2.50
5	CO 5 : To visit and appraise Architect's office administration, documentation and procedures of office and site management to enhance his comprehension and utility during his professional training.	3	3	3	2	2	3	2	3	2.63
6	CO 6:	3	2	1	2	3	2	2	3	2.25
Average Po's		2.67	2.67	2.67	2.17	2.00	2.33	2.00	3.00	2.44

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## FOURTH YEAR: SEMESTER VIII







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Department	Architecture	Name of the Course	Design VII (4201960)
Class	Fourth Year B. Arch.	Semester	VIII
Name of the Faculty Member	Ar. Rahul Deshmukh, Ar. Tejashree Thangaokar, Ar. Jai Kshatriya		

### Course Outcomes (CO's) Sessional Viva (300)

CO	Level	Course Outcome
CO1	L1 : Remember	Identify the challenges of physical issues in design.
CO2	L2 : Understand	Associate the scale and complexity of function in a design.
CO3	L3 : Apply	Implement field study outcome into a real-life solution.
CO4	L4 : Analyse	Investigate the collected data (case study, market survey, literature study etc.) regarding the given design
CO5	L5 : Evaluate	Support their claims related to their design and justify its advantages concerning functionality.
CO6	L6 : Create	Propose a solution for various social, economic, physical, and cultural Mix Development.



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Name and Code of the Course	Programme	Class	Semester
Architectural Design VII (4201960)	B.Arch.	Fourth Year B.Arch.	VIII

**Mapping of Course Outcome (CO) with Program Outcome (PO) : SESSIONAL/VIVA**

Sr. No.	CO / PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	Average
1	CO 1 : Identify the challenges of physical issues in design.	3	3	3	3	3	3	3	3	6	3.33
2	CO 2 : Associate the scale and complexity of function in a design.	3	3	3	3	3	3	3	0	0	2.33
3	CO 3 : Implement field study outcome into a real-life solution	3	3	3	3	3	3	3	6	0	3.00
4	CO 4 : Investigate the collected data (case study, market survey, literature study etc.) regarding the given design topic.	3	3	3	3	3	0	0	0	0	1.67
5	CO 5 : Support their claims related to their design and justify its advantages concerning fu	3	3	3	3	3	3	0	0	0	2.00
6	CO 6: Propose a solution for various social, economic, physical, and cultural Mix Development.	3	0	0	2	2	2	2	0	0	1.22
Average Po's		3.00	2.50	2.50	2.83	2.83	2.33	1.83	1.50	1.00	2.26

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Department	Architecture	Name of the Course	Advance Building Construction & Services - II (4201961)
Class	Fourth Year B. Arch.	Semester	VIII
Name of the Faculty Member	Ar. Meghana Joshi, Ar. Suraj Ubale		

### Course Outcomes (CO's) SS / SV (Sessional + Sessional Viva)

CO	Level	Course Outcome
CO1	L1 : Remember	Tabulate various advance structural systems for Auditorium, curtain wall and high-rise buildings.
CO2	L2 : Understand	Produce concept development of Auditorium with balcony for 500 people with all required services and
CO3	L3 : Apply	Organize an outline of the auditorium with the provision of the balcony and all required services.
CO4	L4 : Analyse	Interpret the concepts of construction details of architectural features in design projects.
CO5	L5 : Evaluate	Implement various construction techniques of the auditorium and framing systems for curtain wall.
CO6	L6 : Create	Review high-rise structures under different loading conditions.



  
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**Mapping of Course Outcome (CO) with Program Outcome (PO) : ABCS - II - SS/SV (Sessional / Sessional + Viva Voce) 150**

Sr. No.	CO / PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	Average
1	<b>CO 1</b> :Tabulate various advance structural systems for Auditorium, curtain wall and high-rise buildings.	2	3	3	2	2	2	2	3	2.38
2	<b>CO 2</b> : Produce concept development of Auditorium with balcony for 500 people with all required services and architectural details.	3	3	3	3	2	2	2	3	2.63
3	<b>CO 3</b> : Organize an outline of the auditorium with the provision of the balcony and all required services.	2	3	3	2	1	2	2	3	2.25
4	<b>CO 4</b> : Interpret the concepts of construction details of architectural features in design pro	3	2	3	2	2	3	2	3	2.50
5	<b>CO 5</b> : Implement various construction techniques of the auditorium and framing systems for curtain wall.	3	3	3	2	2	3	2	3	2.63
6	<b>CO 6</b> :Review high-rise structures under different loading conditions.	3	2	1	2	3	2	2	3	2.25
<b>Average Po's</b>		2.67	2.67	2.67	2.17	2.00	2.33	2.00	3.00	<b>2.44</b>

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Department	Architecture	Name of the Course	Urban Studies - II (4201962)
Class	Fourth Year B. Arch.	Semester	VIII
Name of the Faculty Member	Ar. Tejashree Thangaokar, Ar. Tushar Parise		

#### Course Outcomes (CO's) SS / SV (Sessional + Sessional Viva)

CO	Level	Course Outcome
CO1	L1 : Remember	Memorize the Planning process and urban development, and concepts of urban economics.
CO2	L2 : Understand	Relate the Planning process with a relevant example with associated legislation.
CO3	L3 : Apply	Present identified the town as an example to study the town planning proposals for municipal council level
CO4	L4 : Analyse	Categorize different aspects of urban fabric into various physical layers.
CO5	L5 : Evaluate	Reflect on various issues related to aspects such as environment, traffic and transportation etc.
CO6	L6 : Create	Solve various urban issues through surveys and development control rules of local authorities.



  
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### Mapping of Course Outcome (CO) with Program Outcome (PO) : US - II - SS (Sessional ) 100

Sr. No.	CO / PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	Average
1	<b>CO 1</b> :Memorize the Planning process and urban development, and concepts of urban economics.	3	3	3	3	3	6	2	2	3.13
2	<b>CO 2</b> : Relate the Planning process with a relevant example with associate	3	3	1	3	3	1	3	1	2.25
3	<b>CO 3</b> : Present identified the town as an example to study the town planning proposals for municipal council level town.	3	3	2	2	2	2	0	6	2.50
4	<b>CO 4</b> : Categorize different aspects of urban fabric into various physical lay	3	3	3	2	3	3	3	0	2.50
5	<b>CO 5</b> : Reflect on various issues related to aspects such as environment, traffic and transportation etc.	3	3	3	2	3	3	3	2	2.75
6	<b>CO 6</b> : Solve various urban issues through surveys and development control rules of local authorities.	3	1	1	3	3	2	1	2	2.00
<b>Average Po's</b>		3.00	2.67	2.17	2.50	2.83	2.83	2.00	2.17	<b>2.52</b>

0: No Correlation, 1: Slight (Low), 2 : Moderate (Medium), 3: Substantial (High)



  
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Department	Architecture	Name of the Course	Elective IV (4201963)
Class	Second Year B. Arch.	Semester	VIII
Name of the Faculty Member	Ar. Dipeeka Arbatti		

### Course Outcomes (CO's) Elective - IV (SV)

CO	Level	Course Outcome
CO1	L1 : Remember	To understand and remember particular subject of his/her liking in greater detail but in the larger context of overall scope of Architecture syllabus at undergraduate level.
CO2	L2 : Understand	To identify the methodology to complete the study of chosen subject.
CO3	L3 : Apply	To apply and analyse recent developments in the field of architecture
CO4	L4 : Analyse	To analyse links of design with allied fields such as social sciences, visual art, performing arts, psychology, etc.
CO5	L5 : Evaluate	To justify the design / policy framework w. r. t. context, technology and standard data.
CO6	L6 : Create	To develop his/her skills in a subject they may opt, to make their career in future.



  
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Name and Code of the Course	Programme	Class	Semester
Elective IV (4201963)	B.Arch.	Fourth Year B.Arch.	VIII

**Mapping of Course Outcome (CO) with Program Outcome (PO) : Elective - IV (SV)**

Sr. No.	CO / PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	Average
1	CO 1 : To understand and remember particular subject of his/her liking in greater detail but in the larger context of overall scope of Architecture syllabus at undergraduate level.	3	3	3	3	3	3	3	3	3.00
2	CO 2 : To identify the methodology to complete the study of chosen subject.	3	3	3	3	3	3	3	3	3.00
3	CO 3 : To apply and analyse recent developments in the field of architecture	3	3	3	3	3	3	3	1	2.75
4	CO 4 :To analyse the aesthetical and functional aspect of selected case study	3	3	3	3	3	3	3	0	2.63
5	CO 5 : To justify the design / policy framework w. r. t. context, technology and standard data.	3	3	3	3	3	3	3	0	2.63
6	CO 6:To develop his/her skills in a subject they may opt, to make their career in	3	3	3	3	3	3	3	3	3.00
Average Po's		3.00	3.00	3.00	3.00	3.00	3.00	3.00	1.67	2.83

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Department	Architecture	Name of the Course	Elective V (4201964)
Class	Fourth Year B. Arch.	Semester	VIII
Name of the Faculty Member	Ar. Sonali S. Chaskar		

### Course Outcomes (CO's) Elective - V (SS) (50)

CO	Level	Course Outcome
CO1	L1 : Remember	To understand and remember particular subject of his/her liking in greater detail but in the larger context of overall scope of Architecture syllabus at undergraduate level.
CO2	L2 : Understand	To identify the methodology to complete the study of chosen subject.
CO3	L3 : Apply	To apply and analyse recent developments in the field of architecture
CO4	L4 : Analyse	To analyse links of design with allied fields such as social sciences, visual art, performing arts, psychology, etc.
CO5	L5 : Evaluate	To justify the design / policy framework w. r. t. context, technology and standard data.
CO6	L6 : Create	To develop his/her skills in a subject they may opt, to make their career in future.



  
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Name and Code of the Course	Programme	Class	Semester
Elective V (4201964)	B.Arch.	Fourth Year B.Arch.	VIII

### Mapping of Course Outcome (CO) with Program Outcome (PO) : Elective - V (SS) (50)

Sr. No.	CO / PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	Average
1	CO 1 : To understand and remember particular subject of his/her liking in greater detail but in the larger context of overall scope of Architecture syllabus at undergraduate level.	3	3	3	3	3	3	3	3	3.00
2	CO 2 : To identify the methodology to complete the study of chosen subject.	3	3	3	3	3	3	3	3	3.00
3	CO 3 : To apply and analyse recent developments in the field of architecture	3	3	3	3	3	3	3	1	2.75
4	CO 4 :To analyse the aesthetical and functional aspect of selected case study	3	3	3	3	3	3	3	0	2.63
5	CO 5 : To justify the design / policy framework w. r. t. context, technology and standard data.	3	3	3	3	3	3	3	0	2.63
6	CO 6:To develop his/her skills in a subject they may opt, to make their career in future.	3	3	3	3	3	3	3	3	3.00
Average Po's		3.00	3.00	3.00	3.00	3.00	3.00	3.00	1.67	2.83

0: No Correlation, 1: Slight (Low), 2 : Moderate (Medium), 3: Substantial (High)



  
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Department	Architecture	Name of the Course	Quantity Surveying & Specification Writings II
Class	Fourth Year B. Arch.	Semester	VIII
Name of the Faculty Member	Er. Nikhil Vikhe , Ar. Charuta Sonparote		

### Course Outcomes (CO's) QS & SW (Theory Exam)

CO	Level	Course Outcome
CO1	L1 : Remember	Understand and remember methodology of writing specifications and estimation of quantities with reference
CO2	L2 : Understand	To apply and analyse Different methods of Computing Quantities for items of work in a structure.
CO3	L3 : Apply	To evaluate for items of plumbing and sanitation work in a structure.
CO4	L4 : Analyse	To evaluate quantities of various items of work for an Industrial structure and acquaint them for preparing
CO5	L5 : Evaluate	Analyse and evaluate the importance of specifications in contract document for any construction
CO6	L6 : Create	To prepare estimate of the load bearing and R.C.C. project.



  
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Name and Code of the Course	Programme	Class	Semester
Quantity Surveying & Specification Writings II (4201965)	B.Arch.	Fourth Year B.Arch.	VIII

### Mapping of Course Outcome (CO) with Program Outcome (PO) : PP (Theory Exam)

Sr. No.	CO / PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	Average
1	<b>CO 1</b> :Understand and remember methodology of writing specifications and estimation of quantities with reference service installations of different items of work in construction.	1	2	2	2	2	3	3	3	2.25
2	<b>CO 2</b> : To apply and analyse Different methods of Computing Quantities for items of work in a structure.	2	2	2	3	3	3	3	0	2.25
3	<b>CO 3</b> : To evaluate for items of plumbing and sanitation work in a structure.	2	2	2	3	3	3	3	6	3.00
4	<b>CO 4</b> : To evaluate quantities of various items of work for an Industrial structure and acquaint them for preparing rate analysis and indent of material.	2	2	2	3	3	0	0	0	1.50
5	<b>CO 5</b> : Analyse and evaluate the importance of specifications in contract document for any construction project.	2	2	2	3	3	3	0	0	1.88
6	<b>CO 6</b> : To prepare estimate of the load bearing and R.C.C. project.	2	2	0	2	2	2	2	0	1.50
<b>Average Po's</b>		1.83	2.00	1.67	2.67	2.67	2.33	1.83	1.50	<b>2.06</b>

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Department	Architecture	Name of the Course	Project Management (4201966)
Class	Fourth Year B. Arch.	Semester	VIII
Name of the Faculty Member	Ar. Pradip Deshmukh		

### Course Outcomes (CO's) QS & SW (Theory Exam)

CO	Level	Course Outcome
CO1	L1 : Remember	Demonstrate a comprehensive understanding of the modern-day project environment and its complexities.
CO2	L2 : Understand	Understand the importance of project management in managing dynamic project environments.
CO3	L3 : Apply	Apply project management frameworks and knowledge areas in real-world scenarios.
CO4	L4 : Analyse	Analyse the leadership skills required for a project manager to lead a successful project completion.
CO5	L5 : Evaluate	Evaluate and apply techniques to manage projects within budget and time constraints.
CO6	L6 : Create	Formulate PM frame work for design project of the semester.



  
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Name and Code of the Course	Programme	Class	Semester
Project Management (4201966)	B.Arch.	Fourth Year B.Arch.	VIII

### Mapping of Course Outcome (CO) with Program Outcome (PO) : PP (Theory Exam)

Sr. No.	CO / PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	Average
1	CO 1 : Demonstrate a comprehensive understanding of the modern-day project environment and its complexities.	3	2	2	2	2	3	3	3	2.50
2	CO 2 : Understand the importance of project management in managing dynamic project environments.	2	2	2	3	3	3	3	1	2.38
3	CO 3 : Apply project management frameworks and knowledge areas in real-world scenarios.	3	2	2	3	3	3	3	3	2.75
4	CO 4 : Analyse the leadership skills required for a project manager to lead a successful project completion.	2	2	2	3	3	1	3	3	2.38
5	CO 5 : Evaluate and apply techniques to manage projects within budget and time constraints.	3	2	2	3	3	3	1	3	2.50
6	CO 6 : Formulate PM frame work for design project of the semester.	3	2	0	2	2	2	2	3	2.00
Average Po's		2.67	2.00	1.67	2.67	2.67	2.50	2.50	2.67	2.42



  
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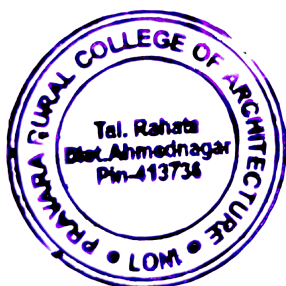
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## Criteria 2 – Teaching Learning and Evaluation (350)

### 2.6 Student Performance and Learning Outcome (90)

#### 2.6.2 Attainment of POs and COs are evaluated

FIFTH YEAR: SEMESTER IX: ATTAINMENT OF POs AND COs		
Sr. No.	COURSE TITLE	COURSE CODE
1	Practical training	5201570 (SV)
FIFTH YEAR: SEMESTER X: ATTAINMENT OF POs AND COs		
Sr. No.	COURSE TITLE	COURSE CODE
1	Elective IV	5201570 (SS)
2	Architectural design project	5201571 (SV)



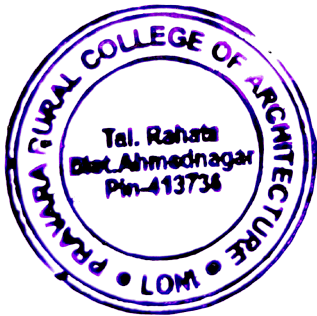
  
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**Pravara Rural Education Society's  
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Department	Architecture	Name of the Programme	Bachelors of Architecture (B.Arch.)
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**Programme Outcomes (PO's)**

PO	Programme Outcome
PO1	Understand the real-life situation in architectural practice and recognize the dialectic relationship between people and the built environment (especially with reference to the Indian sub-continent) with reference to their needs, values, behavioral norms, and social patterns.
PO2	Thrive in a rigorous intellectual climate which promotes inquiry through design research.
PO3	Work collaboratively toward synthetic design resolution which integrates an understanding of the requirements, contextual and environmental connections, technological systems and historical meaning with responsible approach to environmental, historical and cultural conservation.
PO4	Apply visual and verbal communication skills at various stages of the design and delivery process.
PO5	Produce professional quality graphic presentations and technical drawings/documents
PO6	Critically analyze building designs and conduct post-occupancy evaluations
PO7	Work in a manner that is consistent with the accepted professional standards and ethical responsibilities.
PO8	Work in collaboration with and as an integral member of multi-disciplinary/interdisciplinary design and execution teams in the building industry.
PO9	Conduct independent and directed research to gather information related to the problems in architecture and allied fields.



  
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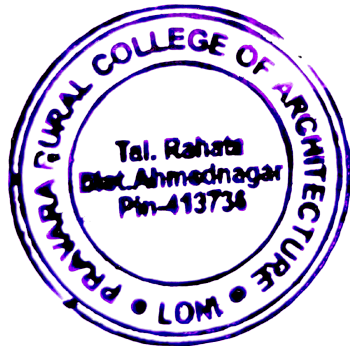
**FIFTH YEAR: SEMESTER IX**


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Department	Architecture	Name of the Course	PRACTICAL TRAINING
Class	Final Year B. Arch.	Semester	X
Name of the Faculty Member	Ar.Charuta Sonparote		

**Course Outcomes (CO's) PP (Theory Exam)**

CO	Level	Course Outcome
CO1	L1 : Remember	Select different ways of Practicing as an Architect
CO2	L2 : Understand	Express the management of Architects office and Architectural Design projects.
CO3	L3 : Apply	Present an Architectural Design Project professionally
CO4	L4 : Analyse	Examine the execution process of any Building typology
CO5	L5 : Evaluate	Estimate the project cost & time required for an Architectural Project.
CO6	L6 : Create	Formulate an Architectural Design Proposal from the initial to the final stage.



  
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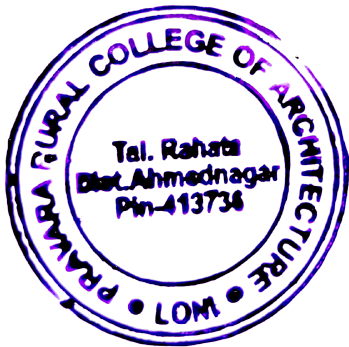
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Name and Code of the Course	Programme	Class	Semester
PRACTICAL TRAINING	B.Arch.	Fifth Year B.Arch.	IX

**Mapping of Course Outcome (CO) with Program Outcome (PO) : PP (Theory Exam)**

Sr. No.	CO / PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	Average
1	CO 1 :. Select different ways of Practicing as an Architect.	3	3	3	3	3	3	3	3	6	3.33
2	CO 2 :Express the management of Architects office and Architectural Design projects.	3	3	3	3	3	3	3	0	0	2.33
3	CO 3 :Present an Architectural Design Project professionally.	3	3	3	3	3	3	3	6	0	3.00
4	CO 4 :Examine the execution process of any Building typology.	3	3	3	3	3	0	0	0	0	1.67
5	CO 5 :Estimate the project cost & time required for an Architectural Project.	3	3	3	3	3	3	0	0	0	2.00
6	CO 6: Formulate an Architectural Design Proposal from the initial to the final stage.	3	0	0	2	2	2	2	0	0	1.22
<b>Average Po's</b>		3.00	2.50	2.50	2.83	2.83	2.33	1.83	1.50	1.00	<b>2.26</b>

0: No Correlation, 1: Slight (Low), 2 : Moderate (Medium), 3: Substantial (High)



  
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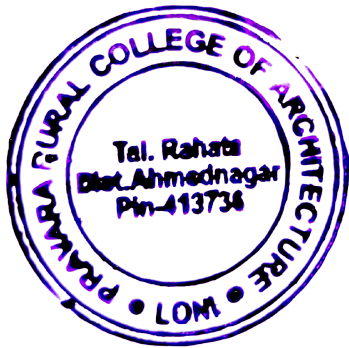



**Pravara Rural Education Society's  
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Department	Architecture	Name of the Programme	Bachelors of Architecture (B.Arch.)
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**Programme Outcomes (PO's)**

PO	Programme Outcome
PO1	Understand the real-life situation in architectural practice and recognize the dialectic relationship between people and the built environment (especially with reference to the Indian sub-continent) with reference to their needs, values, behavioral norms, and social patterns.
PO2	Thrive in a rigorous intellectual climate which promotes inquiry through design research.
PO3	Work collaboratively toward synthetic design resolution which integrates an understanding of the requirements, contextual and environmental connections, technological systems and historical meaning with responsible approach to environmental, historical and cultural conservation.
PO4	Apply visual and verbal communication skills at various stages of the design and delivery process.
PO5	Produce professional quality graphic presentations and technical drawings/documents
PO6	Critically analyze building designs and conduct post-occupancy evaluations
PO7	Work in a manner that is consistent with the accepted professional standards and ethical responsibilities.
PO8	Work in collaboration with and as an integral member of multi-disciplinary/interdisciplinary design and execution teams in the building industry.
PO9	Conduct independent and directed research to gather information related to the problems in architecture and allied fields.



  
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LOKNETE. DR. BALASAHEB VIKHE PATIL  
(PADMA BHUSHAN AWARDEE)  
PRAVARA RURAL EDUCATION SOCIETY'S

**PRAVARA RURAL COLLEGE  
OF ARCHITECTURE** **LONI**

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Affiliated to SavitribaiPhule Pune University, Pune Id No. PU/AN/ARCH/51/1996  
& Council of Architecture, New Delhi

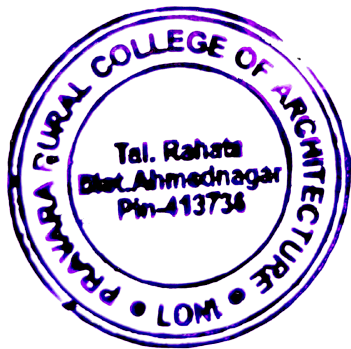
**FIFTH YEAR: SEMESTER X**

**Pravara Rural Education Society's  
Pravara Rural College Of Architecture, Loni**

Department	Architecture	Name of the Course	ELECTIVE IV
Class	Fifth Year B. Arch.	Semester	X
Name of the Faculty Member	Ar. Meghna Joshi		

**Course Outcomes (CO's) PP (Theory Exam)**

CO	Level	Course Outcome
CO1	L1 : Remember	Highlight the subject with the specific intention of study of a particular Subject of student liking in greater detail but the larger context of the overall scope of Architecture syllabus at the undergraduate level.
CO2	L2 : Understand	Interpret their skills in a subject they may opt, to make their career in future.
CO3	L3 : Apply	Implement architecture professional practice to deal with more and more complex buildings as well as organizational
CO4	L4 : Analyse	Correlate the Management Concepts to manage projects right from the design stage through the documentation and
CO5	L5 : Evaluate	Validate the Architectural Practice, which is a team effort and understanding the necessity of management in this field.
CO6	L6 : Create	Compose out the broad contour and sub aspects (including basic principles, case studies, application in building projects etc.)



  
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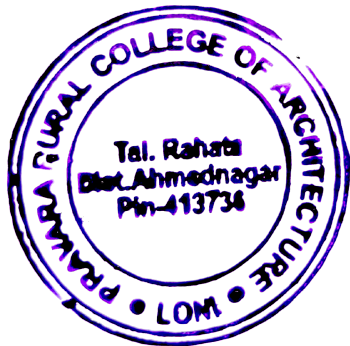
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Name and Code of the Course	Programme	Class	Semester
ELECTIVE IV	B.Arch.	Fifth Year B.Arch.	X

**Mapping of Course Outcome (CO) with Program Outcome (PO) : PP (Theory Exam)**

Sr. No.	CO / PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	Average
1	CO 1: Highlight the subject with the specific intention or study of a particular subject or student liking in greater detail but the larger context of the overall scene of Architecture.	3	3	3	3	3	3	3	3	3	3.00
2	CO 2: Interpret their skills in a subject they may opt, to make their career in future.	3	3	3	3	3	3	3	0	0	2.33
3	CO 3: Implement architecture professional practice to deal with more and more complex buildings as well as organizational.	3	3	3	3	3	3	3	6	0	3.00
4	CO 4: Correlate the Management Concepts to manage projects right from the design stage through the documentation and	3	3	3	3	3	0	0	0	0	1.67
5	CO 5: Validate the Architectural Practice, which is a team effort and understanding the need	0	3	3	3	3	3	0	0	0	1.67
6	CO 6: Compose out the broad contour and sub aspects (including basic principles, case studies, application in building projects etc.) and demonstration interactions of the elective	3	0	0	2	2	2	2	0	0	1.22
Average Po's		2.50	2.50	2.50	2.83	2.83	2.33	1.83	1.50	0.50	2.15

0: No Correlation, 1: Slight (Low), 2 : Moderate (Medium), 3: Substantial (High)



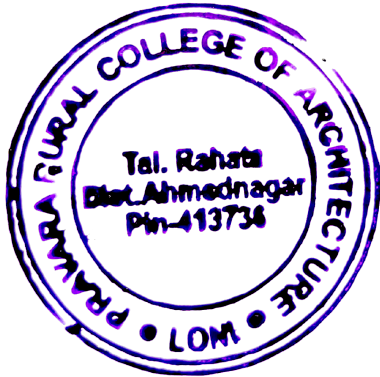
  
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Department	Architecture	Name of the Course	ARCHITECTURAL DESIGN PROJECT
Class	Fifth Year B. Arch.	Semester	IV
Name of the Faculty Member	Ar. T.Thangaokar, Ar. M.Joshi, Ar.Jay Khatriya		

**Course Outcomes (CO's) PP (Theory Exam)**

CO	Level	Course Outcome
CO1	L1 : Remember	Recall the background research related to an architectural design project.
CO2	L2 : Understand	Explain the design formulation process
CO3	L3 : Apply	Students should implement the knowledge in earlier years to architectural Design Project.
CO4	L4 : Analyse	Investigate the design project, site & existing building typology
CO5	L5 : Evaluate	Defend his architectural design proposal.
CO6	L6 : Create	Culminate the architectural Design Project.



  
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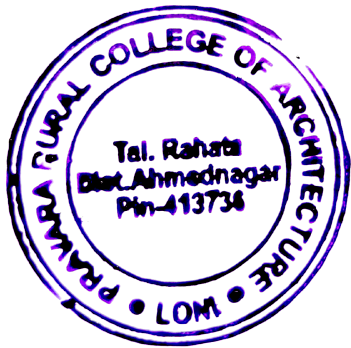
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Name and Code of the Course	Programme	Class	Semester
ARCHITECTURAL DESIGN PROJECT	B.Arch.	Fifth Year B.Arch.	IV

**Mapping of Course Outcome (CO) with Program Outcome (PO) : PP (Theory Exam)**

Sr. No.	CO / PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	Average
1	CO 1 :Recall the background research related to an architectural design project.	3	3	3	3	3	3	3	3	6	3.33
2	CO 2 :Explain the design formulation process	3	3	3	3	3	3	3	0	0	2.33
3	CO 3 :Students should implement the knowledge in earlier years to architectural Design Project.	3	3	3	3	3	3	3	6	0	3.00
4	CO 4 :Investigate the design project, site & existing building typology	3	3	3	3	3	0	0	0	0	1.67
5	CO 5 :Defend his architectural design proposal.	3	3	3	3	3	3	0	0	0	2.00
6	CO 6: Culminate the architectural Design Project.	3	0	0	2	2	2	2	0	0	1.22
<b>Average Po's</b>		3.00	2.50	2.50	2.83	2.83	2.33	1.83	1.50	1.00	<b>2.26</b>

0: No Correlation, 1: Slight (Low), 2 : Moderate (Medium), 3: Substantial (High)



  
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