



Akhil Bharatiya Maratha Shikshan Parishad's
ANANTRAO PAWAR COLLEGE OF ARCHITECTURE

S. No : 103, Shahu College Campus, Parvati, Pune – 411009.

Office No.: 020-24219901 | 24213301

Web. : www.apcoapune.org

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Approved by Council of Architecture, New Delhi & Govt. of Maharashtra, Affiliated to Savitribai Phule Pune University

University Identification No. PU/PN/Arch / 462 /2014, Council of architecture code - MH 71, DTE code- AR6837

2.6.1

Programme Outcomes (POs) and Course Outcomes (COs)



NAAC

Criterion 2.6: Student Performance and Learning Outcomes

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2.6.1: Programme Outcomes (POs) and Course Outcomes (COs)

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Principal
Anantrao Pawar College of
Architecture Parvati, Pune-9

ABMSP's

ANANTRAO PAWAR COLLEGE OF ARCHITECTURE

Parvati, Pune.

FIRST YEAR

SEM – I



AKHIL BHARATIYA MARATHA SHIKSHAN PARISHAD'S
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Approved by Council of Architecture, New Delhi & Govt. of Maharashtra, Affiliated to University of Pune
University of Pune Identification No.: PU/PN/Arch/445/2014 DTE CODE : 6837

PROGRAMME: B. Arch (2019 PATTERN)

Academic Year: 2022-23
Year: First
Semester: I
Course: BASIC DESIGN
Course Code: 1201901 [SS]

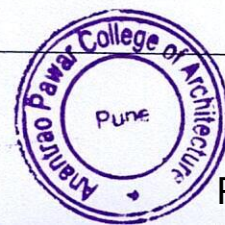
Teaching Scheme		Examination Scheme	
Total Contact		Sessional [CIA 125+ EA 125]	250
Hours per week		Viva	NIL
		In-semester exam	NIL
Lectures	1	End Semester exam	NIL
Studios	6	Total Marks	250
Total	7	Total Credits	10

COURSE OBJECTIVES:

1. To sensitise students to the basic aspects of Design & its terminologies
2. To help students to get familiar with the language of architecture – elements & principles, 2D & 3D objects & materials.
3. To help students use the 5 sensory skills, to improve creativity, understand the aspects of 3D space and inspire them for creative thinking.

COURSE OUTCOMES:

1. Inculcate within students a confidence to understand various spaces & their relations w.r.t. Design.
2. Students to create various 2D & 3D compositions and understand the interrelation between them.
3. Creation of space and its elements w.r.t psychology and representing them graphically.
4. Use of various techniques and scales to enhance an existing space / object.





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COURSE: B.ARCH (2019PATTERN)

Academic Year: **2022-23**

Year: **First**

Semester: **I**

Course: **BUILDING CONSTRUCTION AND MATERIALS I**

Course Code: **1201902 [THEORY]**

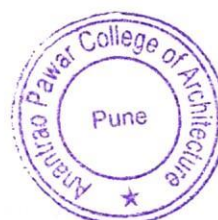
Teaching Scheme		Examination Scheme	
Total Contact		Sessional [CIA 25+ EA 25]	50
Hours per week		Viva	50
		In-semester exam	30
Lectures	1	End Semester exam	70
Studios	3	Total Marks	200
Total	5	Total Credits	07

COURSE OBJECTIVES:

1. To develop understanding of different basic materials used for construction w.r.t. its market forms, application and characteristics.
2. To Understand Load transfer mechanism in load bearing structure.
3. To demonstrate various ways of assembly of building elements for construction.

COURSE OUTCOMES:

1. Draw different basic building elements used for load bearing structure.
2. Student will be able to understanding application of bamboo as building material.
3. Preparing technical drawing for different types of walls in different construction materials such as brick, stone, rammed earth etc.
4. Understanding suitability of strip foundation and DPC.





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COURSE: B.ARCH (2019PATTERN)

Academic Year: **2022-22**

Year: **First**

Semester: **I**

Course: **BUILDING CONSTRUCTION AND MATERIALS I**

Course Code: **1201903 [SV]**

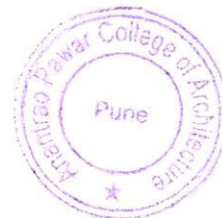
Teaching Scheme		Examination Scheme	
Total Contact		Sessional [CIA 25+ EA 25]	50
Hours per week		Viva	50
		In-semester exam	30
Lectures	1	End Semester exam	70
Studios	3	Total Marks	200
Total	5	Total Credits	07

COURSE OBJECTIVES:

1. To develop understanding of Structural & Non-structural Building elements in Load Bearing Structure
2. To Understand Load transfer mechanism in load bearing structure.
3. To demonstrate various ways of assembly of building elements for construction.

COURSE OUTCOMES:

1. Identify different basic building elements used for load bearing structure.
2. Draw and analyse typical load bearing structure graphically.
3. Determine various construction technologies to be used at various locations.
4. Understand use of various building material for construction.





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University of Pune Identification No.: PU/PN/Arch/445/2014 DTE CODE : 6837

Programme: Third Year B.Arch

Academic Year: **2022-23**
 Year: **First Year**
 Semester: **I**
 Course: **Theory of Structure I**
 Course Code:

Teaching Scheme		Examination Scheme	
Total Contact		Sessional [CIA 25+ EA 25]	Nil
Hours per week		Viva	Nil
		In-semester exam	30
Lectures	2	End Semester exam	70
Studios	0	Total Marks	100
Total	2	Total Credits	02

COURSE OBJECTIVES:

1. Introduction to Mechanics & Materials in building construction

COURSE OUTCOMES:

After completion of the course, a student will be able to

1. At the end of the course the students will have the ability to understand the effect of various forces on R C C Structure.





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Program: B. Arch. (2019 pattern)

Academic Year: 2022-23
Year: First
Semester: I
Subject: ARCHITECTURAL GRAPHICS & DRAWINGS I
Course Code: 1201905 [SS]

Teaching Scheme		Examination Scheme	
TotalContact		Sessional [CIA 50+ EA 50]	100
Hours per week		Viva	NIL
		In-semester exam	NIL
Lectures	1	End Semester exam	NIL
Studios	4	TotalMarks	100
Total	5	Total Credits	03

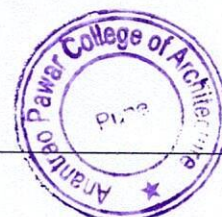
COURSE OBJECTIVES:

- 1.To develop and enhance drawing skills in various aspects of architecture, in various mediums & techniques.
2. Understanding the need and objectives of presentation of visual environment.
3. Developing an aptitude towards architectural and environmental assessment.
4. Learning visual presentation of statistical data.
5. Introduction to elementary Visual Communication Skills, such as, communication graphics (sketches, renderings, perspectives, architectural illustrations), scale models, photographs.

COURSE OUTCOMES:

After completion of this course, the students will be able to:

1. Demonstrate an understanding of basic form & develop perception, the ability to think graphically and utilize drawing as a language of communication.
2. Use the architectural rendering techniques for building exteriors and interiors by using pen & ink, color, values, tones, etc.
3. To communicate design ideas and concepts through graphical representation
4. Articulate an understanding of visual impact of colors, lines, shapes and textures used in design & construct conceptual and presentation models as a design presentation tool for aesthetic exploration
5. To draw inspiration and develop sense of observation from their surroundings, society and things happening around them.





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PROGRAMME (B. ARCH – 2019 Pattern)

Academic Year: 2022-23
Year: First
Semester: I
Course: HISTORY OF ARCHITECTURE AND CULTURE - I
Course Code: 1201906 V[SS]

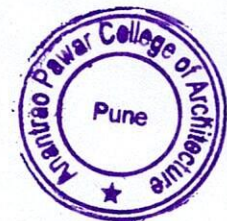
Teaching Scheme		Examination Scheme	
Total Contact		Sessional [CIA 25+ EA 25]	50
Hours per week		Viva	
		In-semester exam	-
Lectures	1	End Semester exam	-
Studios	2	Total Marks	50
Total	3	Total Credits	02

COURSE OBJECTIVES:

1. To introduce students to developments in architecture through social, political and geographical aspects.
2. To articulate students to development of typologies, forms, building techniques and features.
3. To compare and correlate integrated understanding of settlements, landscapes, and architecture as a representation of culture and geography.

COURSE OUTCOMES:

1. Understanding of ancient history and civilisation through hand drawn sketches understanding its location, scale, proportion and building elements and model to understand the scale and design.
2. Exploration through case study temple visit understanding scale, proportion, socio cultural aspects wrt to climatical, geographical and cultural aspect and generate documentation in form of study report.
3. Articulated through study of different community through literature study, videographic documentation, site visit, study tour and generate documentation in form of journal, presentation, model and photographic documentation.





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PROGRAMME: B.Arch (2019 Pattern)

Academic Year: 2022-23
Year: First
Semester: I
Course: COMMUNICATION SKILLS

Course Code: 1201907 [SS]

Teaching Scheme		Examination Scheme	
Total Contact		Sessional	50
Hours per week		Viva	Nil
		In-semester exam	Nil
Lectures	2	End Semester exam	Nil
Studios	1	Total Marks	50
Total	3	Total Credits	02

COURSE OBJECTIVES:

1. To enhance skills required for effective communication in Architectural education and practice.

COURSE OUTCOMES:

1. Expressing various modes of communication and their significance.
2. Classifying various methods and forms of technical writing in written communication.
3. Articulating various methods of graphical communication and its usage.
4. Expressing various methods of verbal communication and its usage.





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PROGRAMME: B.Arch (2019 Pattern)

Academic Year: 2022-23

Year: First

Semester: I

Course: WORKSHOP I

Course Code: 1201908 [SS]

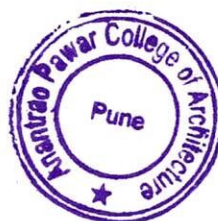
Teaching Scheme		Examination Scheme	
Total Contact		Sessional	100
Hours per week		Viva	Nil
		In-semester exam	Nil
Lectures	1	End Semester exam	Nil
Studios	2	Total Marks	100
Total	3	Total Credits	02

COURSE OBJECTIVES:

1. To Introduce students to the Significance of Model making in Architecture in exploring and representing Massing, form of buildings and spaces
2. Introduce to various basic model making techniques and materials their relationship.

COURSE OUTCOMES:

1. Exploring different types of materials and its feasibility in model making.
2. Understanding Limitation and advantages of various materials.
3. Getting hand son experience with materials like paper, boards, foam board etc.
4. Exploring model making in various other courses like Building Construction and material, History, Basic Design.



ABMSP's

ANANTRAO PAWAR COLLEGE OF ARCHITECTURE

Parvati, Pune.

FIRST YEAR

SEM – II



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PROGRAMME: B Arch (2019 PATTERN)

Academic Year: **2022-23**
Year: **First**
Semester: **II**
Course : **ARCHITECTURAL DESIGN I**
Course Code : **1201909 (SV)**

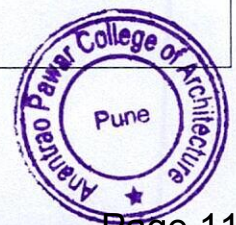
Teaching Scheme		Examination Scheme	
Total Contact		Sessional [CIA 100+ EA 100]	200
Hours per week		Viva [INT 25+EXT 25]	50
		In-semester exam	NIL
Lectures	1	End Semester exam	NIL
Studios	6	Total Marks	250
Total	7	Total Credits	10

COURSE OBJECTIVES:

1. To help students understand the process of Design.
2. To help students to get familiar with the attributes of anthropology, form, function, aesthetics, climate, socio-economics, materials
3. To help students understand the experiential quality of space.
4. To help students understand the social beginnings of human settlements via village studies.

COURSE OUTCOMES:

1. Students to be able to understand the factors affecting the process of design and its application in various situations.
2. Students would be able to design a small space after analysis of various factors with the help of tools like form, function & aesthetics.
3. Working in a group, students understand the Village Settlement study and the factors affecting it.
4. Techniques for presenting the graphics of the design and oral discourse.





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COURSE: B.ARCH (2019PATTERN)

Academic Year: **2022-23**

Year: **First**

Semester: **II**

Subject: **BUILDING CONSTRUCTION AND MATERIALS II**

Subject Code: **1201910 [THEORY]**

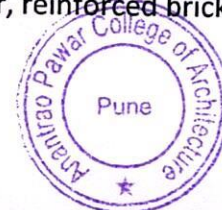
Teaching Scheme		Examination Scheme	
Total Contact		Sessional [CIA 25+ EA 25]	50
Hours per week		Viva	50
		In-semester exam	30
Lectures	1	End Semester exam	70
Studios	3	Total Marks	200
Total	5	Total Credits	07

COURSE OBJECTIVES:

1. To develop understanding of timber as a material used for construction in various building elements such as door, window, floor & staircase.
2. To understand basics of earthquake & its mitigation measures to be incorporated in construction of load bearing structures.
3. To study roofing assembly in timber with appropriate roofing materials wrt climatic and regional context.

COURSE OUTCOMES:

1. Produce technical drawing of timber door, window & staircase wrt technical data availability from market survey.
2. Suggest appropriate construction details for the mitigation of earthquake resistance.
3. Compare different roofing systems as per span requirements.
4. Elaborate advantages of materials such as timber, reinforced brick masonry etc.





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COURSE: B.ARCH (2019PATTERN)

Academic Year: **2022-23**

Year: **First**

Semester: **II**

Subject: **BUILDING CONSTRUCTION AND MATERIALS II**

Subject Code: **1201911 [SV]**

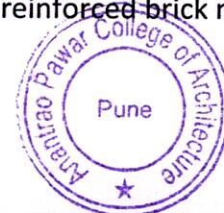
Teaching Scheme		Examination Scheme	
Total Contact		Sessional [CIA 25+ EA 25]	50
Hours per week		Viva	50
		In-semester exam	30
Lectures	1	End Semester exam	70
Studios	3	Total Marks	200
Total	5	Total Credits	07

COURSE OBJECTIVES:

1. To develop understanding of timber as a material used for construction in various building elements such as door, window, floor & staircase.
2. To understand basics of earthquake & its mitigation measures to be incorporated in construction of load bearing structures.
3. To study roofing assembly in timber with appropriate roofing materials wrt climatic and regional context.

COURSE OUTCOMES:

1. Understanding of timber door, window & staircase wrt technical data availability from market survey.
2. Suggest appropriate construction details for the mitigation of earthquake resistance.
3. Compare different roofing systems as per span requirements.
4. Elaborate advantages of materials such as timber, reinforced brick masonry etc.





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Programme: Third Year B.Arch

Academic Year: **2022-23**
 Year: **First Year**
 Semester: **II**
 Course: **Theory of Structure II**
 Course Code:

Teaching Scheme		Examination Scheme	
Total Contact		Sessional [CIA 25+ EA 25]	Nil
Hours per week		Viva	Nil
		In-semester exam	30
Lectures	2	End Semester exam	70
Studios	0	Total Marks	100
Total	2	Total Credits	02

COURSE OBJECTIVES:

1. This course will further student's understanding of the logic and details of construction technologies of complex systems and their impact on production of complex buildings.
2. This course will also bring in the aspect of environmental impact, energy intensiveness, carbon emissions and circularity (recyclability) of each material studied.

COURSE OUTCOMES:

After completion of the course, a student will be able to

1. The students will be able to understand the structural possibilities to cover large spans with different trusses.
2. The students will be able to appreciate and use different materials in building construction.





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Program: B. Arch. (2019 pattern)

Academic Year: **2022-23**
Year: **First**
Semester: **II**
Subject: **ARCHITECTURAL GRAPHICS & DRAWINGS II**
Course Code: **1201913 [SS]**

Teaching Scheme		Examination Scheme	
TotalContact		Sessional [CIA 50+ EA 50]	100
Hours per week		Viva	NIL
		In-semester exam	NIL
Lectures	1	End Semester exam	NIL
Studios	4	TotalMarks	100
Total	5	Total Credits	03

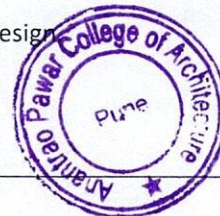
COURSE OBJECTIVES:

1. The course aims at developing the requisite level of proficiency in drawing, which is seen as a primary communication tool in the practice of architecture just like language.
2. Students shall be familiarized with a range of techniques of expression beginning with manual drawing.
3. To introduce the students to graphic treatment of three-dimensional drawings.
4. To develop perception and presentation of architectural forms and buildings.
5. To familiarize the students with preparation of perspectives by innovative methods. To introduce the students with perspectives of interiors.

COURSE OUTCOMES:

After completion of this course, the students will be able to:

1. Understanding the proficiency in drawing, which is seen as a primary communication tool in the practice of architecture just like language
2. Understand the perspective of the buildings.
3. Demonstrate an understanding of furniture, people and accessories in one and two point projected perspective drawing.
4. Articulate an understanding of volumetric drawings used in interior design.





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PROGRAMME (B. ARCH – 2019 Pattern)

Academic Year: 2022-23

Year: First

Semester: II

Course: HISTORY OF ARCHITECTURE AND CULTURE - II

Course Code: 1201914 V[SS]

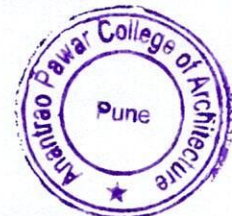
Teaching Scheme		Examination Scheme	
Total Contact		Sessional [CIA 25+ EA 25]	50
Hours per week		Viva	
		In-semester exam	-
Lectures	1	End Semester exam	-
Studios	2	Total Marks	50
Total	3	Total Credits	02

COURSE OBJECTIVES:

1. To introduce students to developments in architecture through social, political and geographical aspects.
2. To articulate architecture wrt form, technology and ornamental style.
3. To gain and correlate integrated understanding of settlements, landscapes, and architecture as a representation of culture and geography.

COURSE OUTCOMES:

1. Understanding of cultural aspects wrt to buildings through literature study, measure drawing understanding the details, scale and proportion. Achieved through hand drawn sketches understanding building elements and models.
2. Exploration of ideas through physically visiting historical buildings and representation of data through study report and presentation.
3. Articulated through study of different community through group discussion, literature study, videographic documentation, site visit, study tour and generate documentation in form of journal, presentation, model and photographic documentation and presentation.





**AKHIL BHARATIYA MARATHA SHIKSHAN PARISHAD'S
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Tel.: 020-24218901/8959 Tele Fax : 020-24213929

Web.: <http://www.apcoapune.com> Email : abmspcoa@rediffmail.com

Approved by Council of Architecture, New Delhi & Govt. of Maharashtra, Affiliated to University of Pune
University of Pune Identification No.: PU/PN/Arch/445/2014 DTE CODE : 6837

PROGRAMME: B. Arch (2019 PATTERN)

Academic Year: **2022-23**

Year: **First**

Semester: **II**

Course: **FUNDAMENTALS OF ARCHITECTURE**

Course Code: **1201915 [SS]**

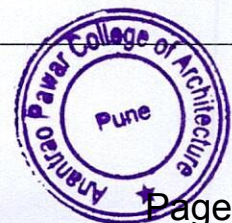
Teaching Scheme		Examination Scheme	
Total Contact		Sessional [CIA 25+ EA 25]	50
Teaching Hours per week (considered 45 mins lecture)		Viva	nil
		In-semester exam	nil
Lectures	3	End Semester exam	nil
Studios	1	Total Marks	50
Total in a Year	4	Total Credits	02

COURSE OBJECTIVES:

1. To introduce the students to the field of architecture, its scope & fundamentals
2. To familiarise the students about the various fundamental terminologies of architecture
3. To help students understand the profession of architecture and its basic ethics

COURSE OUTCOMES:

1. Students to understand the distinguishing characteristics of architecture as a profession.
2. Students are able to understand the concepts of function, form and aesthetics
3. Students comprehend the do's and don'ts in the profession.
4. Students get an overview of the five years of academics and the various courses which make up the fundamentals of architectural education.





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PROGRAMME: B.Arch (2019 Pattern)

Academic Year: 2022-23
Year: First
Semester: II
Course: WORKSHOP II
Course Code: 1201916 [SS]

Teaching Scheme		Examination Scheme	
Total Contact		Sessional	100
Hours per week		Viva	Nil
		In-semester exam	Nil
Lectures	1	End Semester exam	Nil
Studios	2	Total Marks	100
Total	3	Total Credits	02

COURSE OBJECTIVES:

1. To enable students to make Architectural models with various materials to express ideas.
2. Introduction to Digital modelling with basic softwares

COURSE OUTCOMES:

1. Exploring different types of materials and its feasibility in model making.
2. Understanding Architectural scale and proportion in physical mode.
3. Getting hand son experience with materials like brick, wood, stone, POP etc.
4. Visualization of basic architectural drawings and forms in 3D software like Sketchup, Lumion.



ABMSP's
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Parvati, Pune.

SECOND YEAR

SEM - III



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Programme: B. Arch. (2019 pattern)

Academic Year: **2022-23**

Year: **Second Year**

Semester: **III**

Course: **ARCHITECTURE DESIGN II**

2201917[SV]

Course Code:

Teaching Scheme		Examination Scheme	
Total Contact		Sessional [CIA 50+ EA 50]	200
Hours per week		Viva	50
		In-semester exam	NIL
Lectures	1	End Semester exam	NIL
Studios	3	Total Marks	250
Total	4	Total Credits	10

COURSE OBJECTIVES:

To understand Architectural Design as a process generating design brief and taking design decisions based on the following aspects:

- **Socio-Cultural Aspects:** To introduce students to socio-cultural aspects like lifestyle, culture, traditions, and their effect on architectural design etc.
- **Aesthetics:** To understand 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).
- **Anthropometry & Function:** To address 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)
- **Climate:** To understand the Climatic aspects those have a bearing on architectural design and address climatic concerns like adequate light, ventilation, protection from rain, insulation, shading, heat gain, through passive strategies.
- **Building Material and Construction Technology:** To study relevance of various building materials to a project, to get introduced to various expressions of a building material, to introduce a student to the construction technologies relevant to the



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Program: B.Arch. (2019 P)

Academic Year: 2022-23
Year: Second
Semester: III
Course: BUILDING CONSTRUCTION AND MATERIALS III
Course Code: 2201918 (P)

Teaching Scheme		Examination Scheme	
Total Contact		Sessional [CIA 25+ EA 25]	50
Hours per week		Viva	50
		In-semester exam	30
Lectures	2	End Semester exam	70
Studios	3	Total Marks	200
Total	5	Total Credits	07

COURSE OBJECTIVES:

1. To introduce students to soil study, its relevance to foundation.
2. Introduction to different types of shallow foundations and footings and their application in construction.
3. To introduce students to different building materials related to RCC construction & Introduction to concrete as a material--Study of its ingredients.
4. To understand basic principles of RCC construction w.r.t. smaller spans.

COURSE OUTCOMES:

1. Study of different types of soils and their bearing capacities; Concept of bulb of pressure and its significance for site investigation.
2. To study Types of shallow foundations and footings as per soil type & strata.
3. - Study of RCC ingredients, binding material, fine aggregate, coarse aggregate and water cement ratio, storage of materials on site, understanding good quality material; field & lab tests involved.
4. RCC frame structure for residential structures, along with earthquake resistant features, reference of a RCC drawing. Construction of columns, beams, slabs for various types of end.





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Program: B.Arch. (2019 P)

Academic Year: **2022-23**
Year: **Second**
Semester: **III**
Course: **BUILDING CONSTRUCTION AND MATERIALS III**
Course Code: **2201919 (SV)**

Teaching Scheme		Examination Scheme	
Total Contact		Sessional [CIA 25+ EA 25]	50
Hours per week		Viva	50
		In-semester exam	30
Lectures	2	End Semester exam	70
Studios	3	Total Marks	200
Total	5	Total Credits	07

COURSE OBJECTIVES:

1. To introduce students to soil study, its relevance to foundation.
2. Introduction to different types of shallow foundations and footings and their application in construction.
3. To introduce students to different building materials related to RCC construction & Introduction to concrete as a material--Study of its ingredients.
4. To understand basic principles of RCC construction w.r.t. smaller spans.

COURSE OUTCOMES:

1. Study of different types of soils and their bearing capacities; Concept of bulb of pressure and its significance for site investigation.
2. To study Types of shallow foundations and footings as per soil type & strata.
3. - Study of RCC ingredients, binding material, fine aggregate, coarse aggregate and water cement ratio, storage of materials on site, understanding good quality material; field & lab tests involved.
4. RCC frame structure for residential structures, along with earthquake resistant features, reference of a RCC drawing. Construction of columns, beams, slabs for various types of end.





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Programme: B.Arch

Academic Year: 2022-23

Year: Second Year

Semester: III

Course: Theory of Structure III

Course Code:

Teaching Scheme		Examination Scheme	
Total Contact		Sessional [CIA 25+ EA 25]	Nil
Hours per week		Viva	Nil
		In-semester exam	30
Lectures	2	End Semester exam	70
Studios	0	Total Marks	100
Total	2	Total Credits	02

COURSE OBJECTIVES:

1. To understand the concept of Buckling and Crushing in Columns.
2. To understand Fixity at supports and Concept of Continuity over supports and Negative Bending Moments
3. To understand the principles of Load Bearing Construction, Use of Arches and Lintels.
4. To Study the strength of one Material - Steel and the use of these material as Beams, and Columns or as members of a Truss

COURSE OUTCOMES:

After completion of the course, a student will be able to

1. Understand the concept of Buckling and Crushing in Columns.
2. Understand Fixity at supports and Concept of Continuity over supports and Negative Bending Moments
3. Understand the principles of Load Bearing Construction, Use of Arches and Lintels.
4. Study the strength of one Material - Steel and the use of these material as Beams, and Columns or as members of a Truss





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Programme : B. Arch. (2019 pattern)

Academic Year: 2022-23
Year: Second
Semester: III
Subject: Computer Aided Drawing and Graphics
Course Code: 2201921 [SS]

Teaching Scheme		Examination Scheme	
Total Contact		Sessional [CIA 25+ EA 25]	50
Hours per week		Viva	NIL
		In-semester exam	NIL
Lectures	1	End Semester exam	NIL
Studios	3	Total Marks	50
Total	4	Total Credits	02

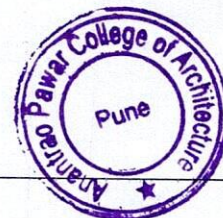
COURSE OBJECTIVES:

1. To initiate students into theory and practice of Computer Applications in Architecture.
2. To familiarize students with computers so as to understand complete management outlook of an architect's office besides architectural drawings.
3. To teach graphic applications specially 2Dimensional for fast and attractive presentation of theme and ideas.
4. To teach utilization of knowledge of 3D modelling and its application in design.

COURSE OUTCOMES:

After completion of this course, the students will be able to:

1. To introduce students and initiate into theory and practice of Computer Applications in Architecture.
2. To familiarize students with computers so as to understand complete management outlook of an architects' office besides architectural drawings.
3. To teach graphic applications specially 2Dimensional for fast and attractive presentation of theme and ideas.
4. To teach utilization of knowledge of 3D modelling and its application in design.





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PROGRAMME (B. ARCH – 2019 Pattern)

Academic Year: **2021-22**
Year: **Second Year**
Semester: **III**
Course: **HISTORY OF ARCHITECTURE AND CULTURE - III**
Course Code: **2201922 [SS]**

Teaching Scheme		Examination Scheme	
Total Contact		Sessional [CIA 25+ EA 25]	50
Hours per week		Viva	
		In-semester exam	-
Lectures	1	End Semester exam	-
Studios	2	Total Marks	50
Total	3	Total Credits	02

COURSE OBJECTIVES:

1. To introduce students to development of European architecture through the historical period.
2. To understand the relationship of religion and society with architecture.
3. To understand the drivers of change, revival, and evolution of architecture.

COURSE OUTCOMES:

1. Videographic Presentation to understand the development and architecture evolution of European architecture.
2. Literature study through documentation understanding various styles and architecture details of Rome, gothic etc.
3. Models to understand the scale and proportion.





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PROGRAM: B. Arch 2019 Pattern

Academic Year: 2022-23

Year: Second

Semester: III

Course: Building Services I

Course Code: 2201923 [P]

Teaching Scheme		Examination Scheme	
Total Hours		Sessional [CIA 25+ EA 25]	50
Hours per week		Viva	NIL
		In Semester exam	30
Lectures	2	End Semester exam	70
Studios	2	Total Marks	150
Total	4	Total Credits	03

COURSE OBJECTIVES:

1. To get the Knowledge of sources, treatment and supply of water from source.
2. To calculate requirement and design of underground water tank and overhead water tank.
3. To equip students about pipes and piping network, fittings and material used in water supply system.
4. To equip Students understand sanitary fitting pipes and pipes network used in drainage system.
5. Students understand septic tank, its function, types and Sewage Treatment Plant.

COURSE OUTCOME:

1. Student are able to know about the Sources of water supply, Treatment of water, Sizes of Underground tank and Overhead tank.
2. Student are understand control valves and their application, Pipes and piping network.
3. Student are understand Waste water treatment plant and sewage treatment plant.





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PROGRAM: B. Arch 2019 Pattern

Academic Year: 2022-23

Year: Second

Semester: III

Course: Building Services I

Course Code: 2201924 [SS]

Teaching Scheme		Examination Scheme	
Total Hours		Sessional [CIA 25+ EA 25]	50
Hours per week		Viva	NIL
		In Semester exam	30
Lectures	2	End Semester exam	70
Studios	2	Total Marks	150
Total	4	Total Credits	03

COURSE OBJECTIVES:

1. To get the Knowledge of sources, treatment and supply of water from source.
2. To calculate requirement and design of underground water tank and overhead water tank.
3. To equip students about pipes and piping network, fittings and material used in water supply system.
4. To equip Students understand sanitary fitting pipes and pipes network used in drainage system.

COURSE OUTCOME:

1. Student are able to know about the Sources of water supply, Treatment of water, Sizes of Underground tank and Overhead tank.
2. Student are understand control valves and their application, Pipes and piping network.
3. Student are understand Waste water treatment plant and sewage treatment plant.





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PROGRAM – B.Arch 2019 Pattern

Academic Year: 2022-23
Year: Second
Semester: III
Course: CLIMATOLOGY
Course Code: 2201917[SV]

Teaching Scheme		Examination Scheme	
Total Contact		Sessional [CIA 25 + EA 25]	
Hours per week: 3		In-semester exam	50
Lectures	1	End Semester exam	NIL
Studios	2	Total Marks	50
Total	3	Total Credits	02

COURSE OBJECTIVES:

To understand climate as a determinant of architectural design and to enable the students to evolve climate responsive design.

COURSE OUTCOME

- I: Understanding the Earth-Sun relation and context of what shapes climate. Elements of climate and understanding climate at different scales ie, global, regional, macro and micro.
- II: Global Climate classification 2. Climatic zones of India and its classifications
- III: Introduction to passive design strategies at various scales ie urban, building and building component scale. Unit
- IV: Introduction to concept of Thermal Comfort in buildings.



ABMSP's

ANANTRAO PAWAR COLLEGE OF ARCHITECTURE

Parvati, Pune.

SECOND YEAR

SEM - IV



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Programme: B. Arch. (2019 pattern)

Academic Year: 2022-23
Year: Second Year
Semester: IV
Course: ARCHITECTURE DESIGN III
Course Code: 2201926[SV]

Teaching Scheme		Examination Scheme	
Total Contact		Sessional [CIA 50+ EA 50]	200
Hours per week		Viva	50
		In-semester exam	NIL
Lectures	1	End Semester exam	NIL
Studios	6	Total Marks	250
Total	7	Total Credits	10

COURSE OBJECTIVES:

To understand Architectural Design as a process of generating design brief and taking design decisions based on the following aspects:

- Socio-Cultural Aspects:
- Aesthetics:
- Anthropometry & Function: Climate:
- Building Material and Construction Technology:
- Building Services:
- Site :
- Universal Design:
- Precedent Studies:

COURSE OUTCOMES:

1. Data collection and case, referral, live studies - process of observation, analysis, documentation and deriving inferences.
2. Analyzing the Design briefs with significance of creating environments that accommodate users' wants and preferences while taking into account their cultural and social context.
3. Design development portfolio : functional design solutions will take into account user activities, space efficiency, circulation patterns, light, ventilation, climate, various materials and the interaction between people.
- 4 A Settlement study report :Of particular region documentation covering details from whole to part and must include narratives, sketches, scale drawings, photographs





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Program: B.Arch. (2019 P)

Academic Year: **2022-23**
Year: **Second**
Semester: **IV**
Course: **BUILDING CONSTRUCTION AND MATERIALS IV**
Course Code: **2201928 (SV)**

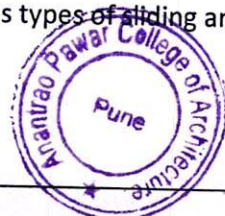
Teaching Scheme		Examination Scheme	
Total Contact		Sessional [CIA 25+ EA 25]	50
Hours per week		Viva	50
		In-semester exam	30
Lectures	2	End Semester exam	70
Studios	3	Total Marks	200
Total	5	Total Credits	07

COURSE OBJECTIVES:

1. To understand basic principles of RCC construction w.r.t. specila concrete. Cantilever slabs, Staircase.
2. To understand basic principles of RCC construction w.r.t. Cantilever slabs, Staircase.
3. Introduction to different types of Damp- & Water-Proofing.
4. To introduce students to vertical transportation systems & mechanism used.
5. To understand sliding & sliding folding door & building materials.

COURSE OUTCOMES:

1. Study of special concretes, along with understanding good quality material and field & lab tests.
2. R.C.C structural drawing with details for balcony slabs, canopies, staircases with with earthquake resistant features.
3. To Study Causes & application of Different methods or treatments of damp & water-proofing.
4. Study of elevators, escalators, conveyors – types, size, capacity, speed and Mechanical safety methods, provisions in civil work for installation of elevators and escalators.
5. Study and application of Various types of sliding and folding doors and building materials like Glass,Plastic,adhesive& sealant.





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Program: B.Arch. (2019 P)

Academic Year: 2022-23
Year: Second
Semester: IV
Course: BUILDING CONSTRUCTION AND MATERIALS IV
Course Code: 2201927 (P)

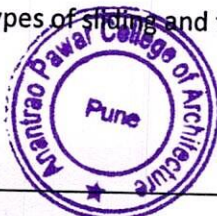
Teaching Scheme		Examination Scheme	
Total Contact		Sessional [CIA 25+ EA 25]	
Hours per week		Viva	50
		In-semester exam	30
Lectures	2	End Semester exam	70
Studios	3	Total Marks	200
Total	5	Total Credits	07

COURSE OBJECTIVES:

1. To understand basic principles of RCC construction w.r.t. special concrete. Cantilever slabs, Staircase.
2. To understand basic principles of RCC construction w.r.t. Cantilever slabs, Staircase.
3. Introduction to different types of Damp- & Water-Proofing.
4. To introduce students to vertical transportation systems & mechanism used.
5. To understand sliding & sliding folding door & building materials.

COURSE OUTCOMES:

1. Study of special concretes, along with understanding good quality material and field & lab tests.
2. R.C.C structural drawing with details for balcony slabs, canopies, staircases with with earthquake resistant features.
3. To Study Causes & application of Different methods or treatments of damp & water-proofing.
4. Study of elevators, escalators, conveyors – types, size, capacity, speed and Mechanical safety methods, provisions in civil work for installation of elevators and escalators.
5. Study and application of Various types of sliding and folding doors and building materials like Glass, Plastic, adhesive & sealant.





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Programme: B.Arch

Academic Year: 2022-23

Year: Second Year

Semester: IV

Course: Theory of Structure IV

Course Code:

Teaching Scheme		Examination Scheme	
Total Contact		Sessional [CIA 25+ EA 25]	Nil
Hours per week		Viva	Nil
		In-semester exam	30
Lectures	2	End Semester exam	70
Studios	0	Total Marks	100
Total	2	Total Credits	02

COURSE OBJECTIVES:

1. To Study Wood as a Material.
2. To Study Limit State Method
3. To Study Reinforced Cement Concrete as a Material
4. To Design Simple Compressive and Flexural Members in R.C.C.

COURSE OUTCOMES:

After completion of the course, a student will be able to

1. Understand the material Property.
2. Understand the concept of Limit State Method
3. Understand the concept Cement Concrete as a Material
4. Design Simple Compressive and Flexural Members in R.C.C.





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Approved by Council of Architecture, New Delhi & Govt. of Maharashtra, Affiliated to University of Pune
University of Pune Identification No.: PU/PN/Arch/445/2014 DTE CODE : 6837

Program: B. Arch. (2019 pattern)

Academic Year: **2022-23**
Year: **Second**
Semester: **II**
Course: **Environmental Science**
Course Code: **2201930 [SS]**

Teaching Scheme		Examination Scheme	
Total Contact		Sessional [CIA 25 + EA 25]	50
Hours per week: 3		In-semester exam	NIL
Lectures	1	End Semester exam	NIL
Studios	2	Total Marks	50
Total	3	Total Credits	02

COURSE OBJECTIVES:

Basic introduction to Multidisciplinary nature of environmental studies with focus on

- Natural Resources
- Eco Systems
- Biodiversity and its conservation
- Environmental Pollution
- Environment Legislation and Social aspects of environment
- Environment friendly buildings

COURSE OUTCOMES:

1. Students should be able to grasp the interdisciplinary nature of environment science and its interdependence on development and society.
2. To think holistically about the environment when taking architectural design decisions.





Programme: B.ARCH (2019PATTERN)

Academic Year: **2022-23**

Year: **Second**

Semester: **II**

Course: **HISTORY OF ARCHITECTURE AND CULTURE IV**

Course Code: **2201931 [SS]**

Teaching Scheme		Examination Scheme	
Total Contact		Sessional [CIA 25+EA 25]	50NIL
Hours per week		Viva	NIL
		In-semester exam	NIL
Lectures	1	End Semester exam	NIL
Studios	2	Total Marks	50
Total	3	Total Credits	02

COURSE OBJECTIVES:

1. To introduce students to the developments in architecture of the post-medieval Western World as a result of the cultural, political, and economic contexts.
2. To study the development of architecture with specific reference to form, technology, and ornament.
3. To understand contemporary architecture of the world with respect to historical precedents.

COURSE OUTCOMES:

1. An awareness of how numerous variables, such as technical advancements, colonisation, globalisation, economy, and urbanisation, have transformed architecture as a product.
2. Knowledge of the formal, structural, and aesthetic components of architectural evolution.
3. Knowledge of global current architecture in relation to historical predecessors and reactions to those precedents.





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PROGRAM: B. Arch 2019 Pattern

Academic Year: 2022-23

Year: Second

Semester: IV

Course: Building Services II

Course Code: 2201933 [SS]

Teaching Scheme		Examination Scheme	
Total Hours		Sessional [CIA 25+ EA 25]	50
Hours per week		Viva	NIL
		In Semester exam	30
Lectures	2	End Semester exam	70
Studios	2	Total Marks	150
Total	4	Total Credits	03

COURSE OBJECTIVES:

1. To introduce students to collection, treatment and disposal of organic and in-organic waste.
2. Students are understand passive design strategies of siting form and method daylight factor.
3. Students are understand the different sources of light, lighting system and designing of lighting.
4. Students will know the use of different switches, fuse and circuit breakers in building.

COURSE OUTCOME:

1. Students are able to design electrical layout Electrical layout in their Architectural Design Project
2. Students are able to design the opening sizes and shading devices of window.
3. Students are understand process of the collection, Treatment and disposal of solid waste.





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PROGRAM: B. Arch 2019 Pattern

Academic Year: 2022-23

Year: Second

Semester: IV

Course: Building Services II

Course Code: 2201932 [P]

Teaching Scheme		Examination Scheme	
Total Hours		Sessional [CIA 25+ EA 25]	50
Hours per week		Viva	NIL
		In Semester exam	30
Lectures	2	End Semester exam	70
Studios	2	Total Marks	150
Total	4	Total Credits	03

COURSE OBJECTIVES:

1. To introduce students to collection, treatment and disposal of organic and in-organic waste.
2. Students are understand passive design strategies of siting form and method daylight factor.
3. Students are understand the different sources of light, lighting system and designing of lighting.
4. Students will know the use of different switches, fuse and circuit breakers in building.
5. To introduce students to Wi-Fi, LAN network

COURSE OUTCOME:

1. Students are able to design electrical layout Electrical layout in their Architectural Design Project
2. Students are able to design the opening sizes and shading devices of window.
3. Students are understand process of the collection, Treatment and disposal of solid waste.





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PROGRAM: B. Arch 2019 Pattern

Academic Year: 2022-23

Year: Second

Semester: IV

Course: Site Survey and Analysis

Course Code: 2201934[SS]

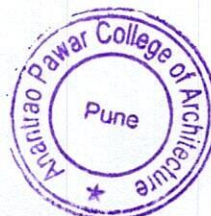
Teaching Scheme		Examination Scheme	
Total Hours		Sessional [CIA 25+ EA 25]	50
Hours per week		Viva	NIL
		In Semester exam	NIL
Lectures	1	End Semester exam	NIL
Studios	3	Total Marks	50
Total	4	Total Credits	02

COURSE OBJECTIVES:

1. To introduce students to the Principles of surveying and levelling.
2. To understand students Linear, Angular, Directional Measurement.
3. To understand and preparation contour maps.
4. To understand Students to the various factors related to Site Survey and Analysis relevant to Architecture site planning

COURSE OUTCOME:

1. Students able to comprehend the site characteristics, reading and interpreting survey drawings.
2. Students are able to handle equipment of used in surveying and levelling.
3. Students are able to site analysis and synthesis of their Architectural Project.



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ANANTRAO PAWAR COLLEGE OF ARCHITECTURE

Parvati, Pune.

THIRD YEAR

SEM - V



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University of Pune Identification No.: PU/PN/Arch/445/2014 DTE CODE : 6837

PROGRAMME : B.ARCH (2019 PATTERN)

Academic Year: 2022-23
Year: Third
Semester: V
Course: Architectural Design IV

Course Code: 3201935 [SV]

Teaching Scheme		Examination Scheme	
Total Contact		Sessional (internal)	100
		Sessional (external)	100
Hours per week: 7		Viva (internal)	25
		Viva (external)	25
		In-semester exam	NIL
Lectures	1	End Semester exam	NIL
Studios	6	Total Marks	250
Total	7		10

COURSE OBJECTIVES:

1. To understand Architectural Design as a process of generating design briefs and taking design decisions.
2. To develop the students' thinking w.r.t. all Architectural aspects.
3. To understand the fundamental concepts of site development for campus design projects.

COURSE OUTCOMES:

Build competency and ability to make communicative architectural drawings that are of readable scales, preferably in readable scale. Site level drawings & Model+ Campus level drawings+Appropriate details with understanding to resolve structural systems of various construction techniques and services.





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PROGRAMME : B.ARCH (2019 PATTERN)

Academic Year: **2022-23**

Year: **Third**

Semester: **V**

Course: **BUILDING CONSTRUCTION AND MATERIALS V**

Course Code: **3201936[P]**

Teaching Scheme		Examination Scheme	
Total Contact		Sessional [CIA 25+ EA 25]	50
Hours per week		Viva [Int 25 + Ext 25]	50
		In-semester exam	30
Lectures	2	End Semester exam	70
Studios	3	Total Marks	200
Total	5	Total Credits	06

COURSE OBJECTIVES:

4. To Understand foundations, retaining walls w.r.t. single basement construction along with water proofing techniques.
5. To study various types of R.C.C. slabs with latest construction technologies along with pre stressed technology.
6. To review various types of building materials used for partition, panelling & false ceiling along with various types of services involved.

COURSE OUTCOMES:

5. Elaborating single basement construction methodology with various waterproofing technologies.
6. Preparing technical drawings of non-timber partition, panelling & false ceiling wrt technical data with necessary details for execution.
7. Prepare working drawing for various furniture items using technical drawings and Market Survey.
8. Compare & suggest appropriate R.C.C. slabs for long span structures.





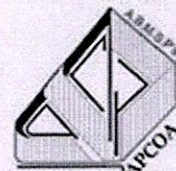
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PROGRAMME: B.ARCH (2019 PATTERN)

Academic Year: **2022-23**

Year: **Third**

Semester: **V**

Course: **BUILDING CONSTRUCTION AND MATERIALS V**

Course Code: **3201937 [SV]**

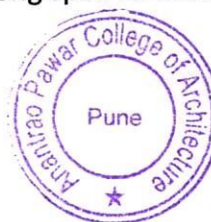
Teaching Scheme		Examination Scheme	
Total Contact		Sessional [CIA 25+ EA 25]	50
Hours per week		Viva [Int 25 + Ext 25]	50
		In-semester exam	30
Lectures	2	End Semester exam	70
Studios	3	Total Marks	200
Total	5	Total Credits	06

COURSE OBJECTIVES:

1. To Understand foundations, retaining walls w.r.t. single basement construction along with water proofing techniques.
2. To study various types of R.C.C. slabs with latest construction technologies along with pre stressed technology.
3. To review various types of building materials used for partition, panelling & false ceiling along with various types of services involved.

COURSE OUTCOMES:

1. Describe single basement construction methodology with various waterproofing technologies.
2. Produce technical drawings of non-timber partition, panelling & false ceiling wrt technical data availability from market survey.
3. Demonstrate various furniture items using models, technical drawings and Market Survey.
4. Compare & suggest appropriate R.C.C. slabs for long span structures.





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Programme: Third Year B.Arch

Academic Year: **2022-23**

Year: **Third Year**

Semester: **V**

Course: **Theory of Structure V**

Course Code:

Teaching Scheme		Examination Scheme	
Total Contact		Sessional [CIA 25+ EA 25]	Nil
Hours per week		Viva	Nil
		In-semester exam	30
Lectures	2	End Semester exam	70
Studios	0	Total Marks	100
Total	2	Total Credits	02

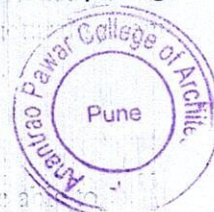
COURSE OBJECTIVES:

1. To understand the basic principles of structural mechanics, so that it can help in building a strong basis to understand study of structural design.
2. Developing in students, material skills to analyze and understand fundamentals and working of various parts of different structural systems.
3. Understanding structural design in RCC.

COURSE OUTCOMES:

After completion of the course, a student will be able to

1. Column: Design of axially and eccentrically loaded short and long columns by working stress and the limit state methods, use of design aids
2. Retaining Wall: Types, stability criteria, design of cantilever retaining wall. Staircase: effective span of staircase, distribution of loading on staircase, design of various types of staircase
3. Types, theory and design of isolated and combined column footings; raft and pile foundations,
4. Requirement or good detailing, cover to reinforcement, spacing of reinforcement, reinforcement requirements, reinforcement splicing, curtailment and bar bending schedule etc.





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PROGRAM – B'Arch 2019 Pattern

Academic Year: **2022-23**
 Year: **Third**
 Semester: **III**
 Course: **Landscape Architecture**
 Course Code: **3201939[SS]**

Teaching Scheme		Examination Scheme	
Total Contact		Sessional [CIA 50 + EA 50]	100
Hours per week: 3		In-semester exam	NIL
Lectures	1	End Semester exam	NIL
Studios	3	Total Marks	100
Total	4	Total Credits	03

COURSE OBJECTIVES: To introduce the students to Landscape Architecture and its scope.

- To understand the elements and principles of landscape design and role of landscape elements in design of outdoor environments on the site.
- To understand the Intent and content of designed landscapes.
- To develop understanding of site analysis and site planning and integrated design of spaces
- Creating awareness about using Landscape design as a tool to address environmental concerns in Architecture.

COURSE OUTCOMES:

- Unit 1. Introduction to Landscape Architecture and its scope ,elements(natural and manmade) and their application in achieving functional, aesthetic, environmental and cultural goals.
- Unit 2. Principles and approaches in Landscape Design. Illustrations can be from contemporary as well as historic landscapes for understanding various approaches of design.
- Unit 3. Study of Hard landscape (civil work) details with respect to materials and construction techniques..
- Unit 4. Study of Softscape (plant material), their characteristics and contribution in terms of creating and imparting character to outdoor spaces. • Unit 5 Introduction to basics of Site planning and process of site planning.





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Programme: B.ARCH (2019PATTERN)

Academic Year: **2022-23**

Year: **Third**

Semester: **V**

Course: **ELECTIVE I [CONTEMPORARY ARCHITECTURE]**

Course Code: **3201940 [SS]**

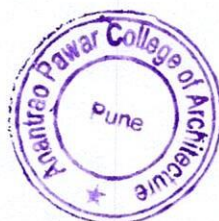
Teaching Scheme		Examination Scheme	
Total Contact		Sessional [CIA 50+EA 50]	100
Hours per week		Viva	NIL
		In-semester exam	NIL
Lectures	1	End Semester exam	NIL
Studios	2	Total Marks	50
Total	3	Total Credits	02

COURSE OBJECTIVES:

1. To analyse the contemporary trends/approaches in architectural production in terms of design, practices, its perception, appreciation, and critical discourses.
2. To critically reflect and comment on contemporary architecture across the world.

COURSE OUTCOMES:

1. Using what has been learned from studying architectural history to critique modern architecture.
2. Creation of a unique point of view and the development of an argument to support it.
3. The ability to speak about a chosen subject and start a discussion.





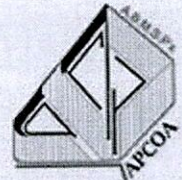
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PROGRAMME : B.ARCH (2019 PATTERN)

Academic Year: **2022-23**
Year: **Third**
Semester: **V**
Course: **BUILDING SERVICES III**
Course Code: **3201941 [P]**

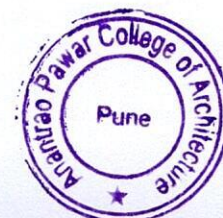
Teaching Scheme		Examination Scheme	
Total Contact		Sessional [CIA 25+ EA 25]	50
Hours per week		Viva	NIL
		In-semester exam	30
Lectures	2	End Semester exam	70
Studios	1	Total Marks	150
Total	3	Total Credits	03

COURSE OBJECTIVES:

1. To comprehend building services as an integral part of architectural design process
Understand Load transfer mechanism in load bearing structure.
2. To obtain knowledge of technical and design aspects of natural ventilation, heating, cooling and HVAC

COURSE OUTCOMES:

1. Principles of working of natural ventilation, heating, cooling and HVAC systems, components, materials and provisions in architectural design
2. Functional and aesthetical aspects of building services coordination in architectural design.
3. Schematic air-conditioning calculations and ducting layout.





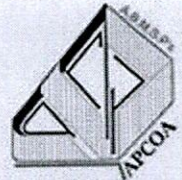
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PROGRAMME : B.ARCH (2019 PATTERN)

Academic Year: **2022-23**
Year: **Third**
Semester: **V**
Course: **BUILDING SERVICES III**
Course Code: **3201942 [SS]**

Teaching Scheme		Examination Scheme	
Total Contact		Sessional [CIA 25+ EA 25]	50
Hours per week		Viva	NIL
		In-semester exam	30
Lectures	2	End Semester exam	70
Studios	1	Total Marks	150
Total	3	Total Credits	03

COURSE OBJECTIVES:

1. To comprehend building services as an integral part of architectural design process.
2. To obtain knowledge of technical and design aspects of natural ventilation, heating, cooling and HVAC

COURSE OUTCOMES:

1. Principles of working of natural ventilation, heating, cooling and HVAC systems, components, materials and provisions in architectural design.
2. Onsite case study analysis with layout preparation of various HVAC systems.





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Program: B. Arch. (2019 pattern)

Academic Year: **2022-23**
Year: **Third Year**
Semester : **I**
Course: **WORKING DRAWING I**
Course Code: **3201943 [SS]**

Teaching Scheme		Examination Scheme	
Total Contact		Sessional [CIA 50+ EA 50]	100
Hours per week		In-semester exam	NIL
Lectures	1	End Semester exam	NIL
Studios	3	Total Marks	100
Total	4	Total Credits	02

COURSE OBJECTIVES:

To enable the students to prepare working drawings of an architectural project and imbibe the significance of working drawings from the point of view of execution of the work on site and as important component of tender documents.

COURSE OUTCOMES:

After completion of this course, the students will be able to:

1. Drawing Working Drawings: Students will learn the skills necessary to draft working drawings, such as floor plans, elevations, sections, and construction details, that are precise and comprehensive.
2. Students will have an understanding of the practical consequences of working drawings during the on-site implementation of architectural projects.
3. Interpreting Local Building Codes and Regulations: Students will become more familiar with their local building codes and regulations and learn how to incorporate these requirements into their working drawings to ensure compliance with applicable standards.



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THIRD YEAR

SEM - VI



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PROGRAMME : B.ARCH (2019 PATTERN)

Academic Year: 2022-23
Year: Third
Semester: VI
Course: Architectural Design V
Course Code: 3201944 [SV]

Teaching Scheme		Examination Scheme	
Total Contact		Sessional (internal)	100
		Sessional (external)	100
Hours per week: 7		Viva (internal)	25
		Viva (external)	25
		In-semester exam	NIL
Lectures	1	End Semester exam	100
Studios	6	Total Marks	350
Total	7		10

COURSE OBJECTIVES:

1. To understand Architectural Design as a process of generating design briefs and taking design decisions.
2. To develop the students' thinking w.r.t. all Architectural aspects.
3. To understand the fundamental concepts of campus design projects.

COURSE OUTCOMES:

Build competency and ability to make communicative architectural drawings that are of readable scales, preferably in readable scale. Site level drawings & Model+ Campus level drawings+Appropriate details with understanding to resolve structural systems of various construction techniques and services.





**AKHIL BHARATIYA MARATHA SHIKSHAN PARISHAD'S
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Approved by Council of Architecture, New Delhi & Govt. of Maharashtra, Affiliated to University of Pune
University of Pune Identification No.: PU/PN/Arch/445/2014 DTE CODE : 6837

Academic Year: **2022-23**
Year: **Third**
Semester: **VI**
Course: **Architectural Design V**

Course Code: **3201945 [P]**

Teaching Scheme		Examination Scheme	
Total Contact		Sessional (internal)	100
		Sessional (external)	100
Hours per week: 7		Viva (internal)	25
		Viva (external)	25
		In-semester exam	NIL
Lectures	1	End Semester exam	100
Studios	6	Total Marks	350
Total	7		10

COURSE OBJECTIVES:

1. To understand Architectural Design as a process of understanding design briefs and taking design time bound decisions (12 hr.)
2. To develop the students' thinking w.r.t. all Architectural aspects.
3. To understand the fundamental concepts of site development and campus projects.

COURSE OUTCOMES:

Build competency and ability to make communicative architectural drawings that are of readable scales, preferably in readable scale. Site level drawings & Model+ Campus level drawings+Appropriate details with understanding to resolve structural systems of various construction techniques and services.





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PROGRAMME: B.Arch (2019 Pattern)

Academic Year: 2022-23

Year: Third

Semester: VI

Course: **BUILDING CONSTRUCTION AND MATERIALS VI**

Course Code: 3201946 [SV]

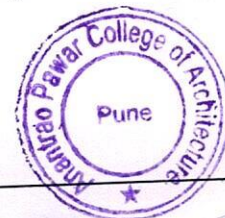
Teaching Scheme		Examination Scheme	
Total Contact		Sessional [CIA 50 + EA 50]	100
		Viva [Int 25 + Ext 25]	50
Hours per week		In-semester exam	Nil
Lectures	2	End Semester exam	Nil
Studios	3	Total Marks	150
Total	5	Total Credits	06

COURSE OBJECTIVES:

1. To introduce the design potential of steel as a material in building construction and its inherent structural benefits.
2. To create awareness with the best practices of steel as a construction material.
3. To understand the concept of modular co-ordination and industrialized building construction along with precast technology.
4. To understand issues and construction of earthquake resistant frame structures.

COURSE OUTCOMES:

1. Understanding of Types of steel used in building construction, Use of lightweight steel producing detail drawings of Market forms of structural and non-structural steel, Built-up sections.
2. Designing and sketching of various types of fencing and gates with details.
3. Understanding concepts of trusses for low rise mid span buildings.
4. Studying details of assembly with stanchion, beams and metal deck flooring along with earthquake resistant features, Moisture and fire protections.
5. Drafting of Precast floor and roof construction systems developed by CBRI using partially precast planks and joist, precast Waffle unit, proprietary precast systems.



1. Design of Multi basement and its Construction details such as Ramps, Parking areas natural Lighting, ventilation, surface water disposal, Fire fighting, etc.
2. Analyse Industrial Building with respect to advanced techniques for Types of roofing systems, PEB systems, Proprietary systems, Industrial flooring etc.
3. Design of Swimming Pool





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Programme: Third Year B.Arch

Academic Year: **2022-23**

Year: **Third Year**

Semester: **VI**

Course: **Theory of Structure VI**

Course Code:

Teaching Scheme		Examination Scheme	
Total Contact		Sessional [CIA 25+ EA 25]	Nil
Hours per week		Viva	Nil
		In-semester exam	30
Lectures	2	End Semester exam	70
Studios	0	Total Marks	100
Total	2	Total Credits	02

COURSE OBJECTIVES:

1. To Gain understanding of Steel Structural Systems including composite construction and fundamental principles and structural behaviour of steel buildings in withstanding gravity, lateral (seismic and wind), and other environmental forces.
2. To understand the process of the design of structural steel systems and the design of simple steel structures

COURSE OUTCOMES:

After completion of the course, a student will be able to

1. The students will be able to learn the importance of Structural steel in a building.
2. The students will be able to analyse structural steel system in buildings.
3. The students will be able to understand the IS Codes and expect the structural drawings for buildings are complied with the codes.





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University of Pune Identification No.: PU/PN/Arch/445/2014 DTE CODE : 6837

PROGRAMME (B. ARCH – 2015 Pattern)

Academic Year: 2022-23
Year: Third Year
Semester: VI
Course: RESEARCH IN ARCHITECTURE - I

Course Code:

Teaching Scheme		Examination Scheme	
Total Contact		Sessional [CIA 25+ EA 25]	50
Hours per week		Viva	
		In-semester exam	-
Lectures	1	End Semester exam	-
Studios	2	Total Marks	50
Total	3	Total Credits	02

COURSE OBJECTIVES:

1. To introduce students to research in architecture and its value in design
2. To adapt students to prepare research proposal.

COURSE OUTCOMES:

3. Articulate research subject through literature study, developing skill in writing and presentation skill and demonstrate through interpretation of the literature study in own words.
4. Evaluate the research paper through discussions, reviews and enhance the research knowledge through formulating research paper.





COURSE: B.ARCH (2019PATTERN)

Academic Year: **2022-23**
Year: **Third**
Term: **II**
Course: **ELECTIVE II**

Subject Code: **3201949 [SS]**

Teaching Scheme		Examination Scheme	
Total Contact		Sessional [CIA 50+EA 50]	100
Hours per week		Viva	NIL
		In-semester exam	NIL
Lectures	1	End Semester exam	NIL
Studios	3	Total Marks	100
Total	4	Total Credits	03

COURSE OBJECTIVES:

1. To assist students in pursuing a more in-depth study of a certain topic within the framework of architecture.
2. This elective focused on the overall understanding the ABMSP'S Campus with respect to its History, Architecture, Building Services, Landscape Architecture, Site Planning etc. which would help students study the concepts, principles tools & aids of campus planning in a holistic sense.

COURSE OUTCOMES:

1. Subjects are assigned to students in accordance with institute expertise. Students are taught how to conduct literature studies, learn specifics about a subject, visit relevant sites, and write reports.
2. Students gain a deeper understanding of the subject and formulate a conclusion on the issue under study.





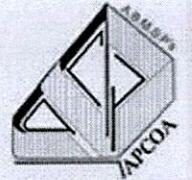
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University Identification No. PU/PN/Arch / 462 /2014, Council of architecture code - MH 71, DTE code- AR6837

PROGRAMME : B.ARCH (2019 PATTERN)

Academic Year: **2022-23**
Year: **Third**
Semester: **VI**
Course: **BUILDING SERVICES IV**
Course Code: **3201950[P]**

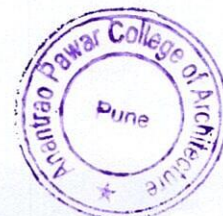
Teaching Scheme		Examination Scheme	
Total Contact		Sessional [CIA 25+ EA 25]	50
Hours per week		Viva	NIL
		In-semester exam	30
Lectures	2	End Semester exam	70
Studios	1	Total Marks	150
Total	3	Total Credits	03

COURSE OBJECTIVES:

1. To comprehend building services as an integral part of Architectural design process.
2. To obtain knowledge of fire safety provisions
3. To obtain knowledge of good acoustics in architectural design.

COURSE OUTCOMES:

1. Properties of sound, strategies for reducing noise, aspects of treatments for good acoustical conditions.
2. Provisions for fire prevention, life safety and fire protection as per NBC 2016-Par





PROGRAMME : B.ARCH (2019 PATTERN)

Academic Year: **2022-23**
Year: **Third**
Semester: **VI**
Course: **BUILDING SERVICES IV**
Course Code: **3201951 [SS]**

Teaching Scheme		Examination Scheme	
Total Contact		Sessional [CIA 25+ EA 25]	50
Hours per week		Viva	NIL
		In-semester exam	30
Lectures	2	End Semester exam	70
Studios	1	Total Marks	150
Total	3	Total Credits	03

COURSE OBJECTIVES:

1. To comprehend building services as an integral part of architectural design process.
2. To obtain knowledge of fire safety provisions
3. To obtain knowledge of good acoustics in architectural design.

COURSE OUTCOMES:

1. Properties of sound, strategies for reducing noise, aspects of treatments for good acoustical conditions.
2. Provisions for fire prevention, life safety and fire protection as per NBC 2016-Part 4





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University of Pune Identification No.: PU/PN/Arch/445/2014 DTE CODE : 6837

Program: B. Arch. (2019 pattern)

Academic Year: **2022-23**
Year: **Third Year**
Semester: **II**
Course: **WORKING DRAWING II**
Course Code: **3201952 [SS]**

Teaching Scheme		Examination Scheme	
Total Contact		Sessional [CIA 50+ EA 50]	100
Hours per week		In-semester exam	NIL
Lectures	1	End Semester exam	NIL
Studios	3	Total Marks	100
Total	4	Total Credits	02

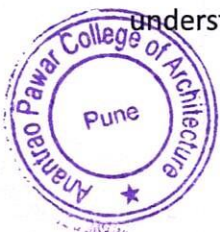
COURSE OBJECTIVES:

- To introduce the idea of Design Development and detailing and its relevance in converting 'concept design' to working drawing and hence the realization of design on site.
- To imbibe further the importance of working drawings as an essential tool for effective site execution and execution of a building contract.
- To expose to the standard methods, conventions, drawing annotations including International standards, IS codes, its application in working drawing set with material and component and schedules.

COURSE OUTCOMES:

After completion of this course, the students will be able to:

1. Understanding Design Development and Detailing: Students will understand that design development and detailing are essential steps in transforming an initial "concept design" into thorough functional drawings.
2. Students will have an understanding of the importance of design development and detailing in the successful completion of architectural projects on-site.
3. Working drawings are crucial tools for successful site execution, and students will understand their fundamental significance in this process.



ABMSP's

ANANTRAO PAWAR COLLEGE OF ARCHITECTURE

Parvati, Pune.

FOURTH YEAR

SEM - VII



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PROGRAMME: B.ARCH (2019 PATTERN)

Academic Year: **2021-22**

Year: **Fourth**

Semester: **VII**

Course: **DESIGN VI**

Course Code: **4201554 (SV)**

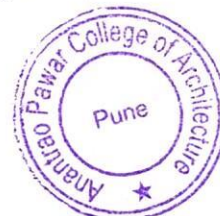
Teaching Scheme		Examination Scheme	
Total Contact		Sessional [Internal]	100
Hours per week		Sessional [External]	100
		Viva (Internal)	25
Lectures	3	Viva (External)	25
Studios	9	Total Marks	250
Total	12	Total Credits	08

COURSE OBJECTIVES:

1. To develop design solution for Multifamily residential development which will address the issues such as inclusiveness, green initiatives, economy, traffic management & site context etc.
2. To understand services and other issues related to high rise residential development.
3. To understand changing residential needs in current urban context.
4. To study regulations and byelaws for high rise residential development in urban context.

COURSE OUTCOMES:

1. Designing multifamily high rise residential development in urban settings.
2. Understanding importance of inclusiveness, open spaces, site context & site surroundings in residential development.
3. Designing layouts as per the local applicable bye laws.
4. Preparing presentation drawings for clients.





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PROGRAMME: B.Arch (2015 Pattern)

Academic Year: 2022-2

Year: Fourth

Semester: VII

Course: **ADVANCED BUILDING TECHNOLOGY AND SERVICES I**

Course Code: 4201954 (SV)

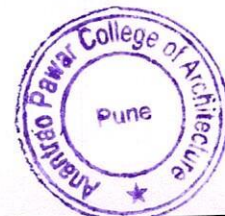
Teaching Scheme		Examination Scheme	
Total Contact		Sessional (Internal)	50
		Sessional (External)	50
Hours per week		Viva (Internal)	25
		Viva (External)	25
		In-semester exam	Nil
Lectures	1	End Semester exam	Nil
Studios	2	Total Marks	150
Total	3	Total Credits	04

COURSE OBJECTIVES:

1. To introduce design and advanced structural systems for Multi basement, Industrial Building, Swimming Pool and Long Span Structures.
2. To understand materials and services required in buildings with complex and special requirements.

COURSE OUTCOMES:

1. Understanding of Multi Basement through case study and Drawing technical drawings and details related to services.
2. Observing Industrial Buildings through site visit and producing detail drawings along with Architectural Plan, Section, and Elevations.
3. Studying different types of swimming pool and drafting its detailed drawings for Architecture and services.
4. Sketching of long span structures in RCC and Steel with an understanding of structural behaviour.





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PROGRAMME : B.ARCH (2019 PATTERN)

Academic Year: **2022-23**
Year: **Fourth**
Semester: **VII**
Course: **URBAN STUDIES - I**
Course Code: **4201955 [SS]**

Teaching Scheme		Examination Scheme	
Total Contact		Sessional (internal)	50
		Sessional (external)	50
Hours per week: 4		Viva (internal)	NIL
		Viva (external)	NIL
		In-semester exam	NIL
Lectures	2	End Semester exam	NIL
Studios	2	Total Marks	100
Total	4	Total Credits	03

COURSE OBJECTIVES:

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.
2. To introduce the students to urban studies and relevance of its learning in Architecture profession; various theories and concepts, facilitating the undertaking of planning and design of large-scale land development.

COURSE OUTCOMES:

Students will develop a basic understanding of urban planning, urban design, studying urban planning principles and application of the same. Students will know about housing types, concerns & issues related to it and strategies to resolve issues.





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COURSE: B Arch (2019 PATTERN)

Academic Year: **2022-23**
Year: **Fourth**
Semester: **I**
Course: **RESEARCH IN ARCHITECTURE II**
Subject Code: **4201956 (SS)**

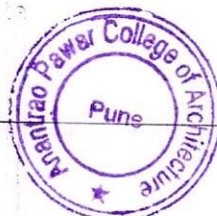
Teaching Scheme		Examination Scheme	
Total Contact		Sessional [CIA 25+ EA 25]	50
Hours per week		Viva	NIL
		In-semester exam	NIL
Lectures	1	End Semester exam	NIL
Studios	2	Total Marks	50
Total	3	Total Credits	02

COURSE OBJECTIVES:

1. To enable students to carry out research focused on an issue related to the built environment.
2. To prepare students to write a technical research paper.
3. To train students to present their research paper in front of an audience.

COURSE OUTCOMES:

1. Students to collect data – Qualitative & Quantitative and analyse the same.
2. Presentation of Qualitative & Quantitative data in form of Graphics, Visuals & Numericals.
3. Technical writing of a research paper & presentation of the same.





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Program: B. Arch. (2019 pattern)

Academic Year: **2022-23**

Year: **Fourth**

Semester: **I**

Course: **ELECTIVE III - DESIGN & TECHNOLOGY ELECTIVE**

Course Code: **5201970 [SS]**

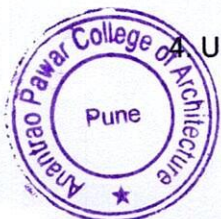
Teaching Scheme		Examination Scheme	
Total Contact		Sessional (internal)	50
		Sessional (external)	50
Hours per week: 4		Viva (internal)	NIL
		Viva (external)	NIL
		In-semester exam	NIL
Lectures	1	End Semester exam	NIL
Studios	3	Total Marks	100
Total	4	Total Credits	03

COURSE OBJECTIVES:

1. To sensitize students to the basic aspects of Design & its terminologies
2. To help students to get familiar with the language of architecture – elements & principles, 2D & 3D objects & materials.
3. To help students use the 5 sensory skills, to improve creativity, understand the aspects of 3D space and inspire them for creative thinking.

COURSE OUTCOMES:

1. Covers both theoretical and practical aspects by linking them to the field of architecture.
2. Inculcate within students a confidence to understand various spaces & their relations w.r.t. Design.
3. Students can create various 2D & 3D compositions and understand the interrelation between them.
3. Creation of space and its elements w.r.t psychology and representing them graphically.
4. Use of various techniques and scales to enhance an existing space / object.





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Program: B. Arch. (2019 pattern)

Academic Year: **2022-23**

Year: **Fourth Year**

Semester: **I**

Course: **QUANTITY SURVEYING & SPECIFICATION WRITING I**

Course Code: **4201958 [THEORY]**

Teaching Scheme		Examination Scheme	
Total Contact		Sessional	Nil
Hours per week		Viva	Nil
		In-semester exam	30
Lectures	2	End Semester exam	70
Studios	2	Total Marks	100
Total	4	Total Credits	03

COURSE OBJECTIVES:

- To Introduce Estimation as an important Subject for Architecture.
- To Understand Different methods of Computing Quantities for items of work in a structure.
- To acquaint students with methodology of writing specifications with reference to building trades, materials, workmanship & performance of different items of work.

COURSE OUTCOMES:

After completion of this course, the students will be able to:

- Demonstrate an understanding of Estimation.
- Utilize Different Methods for Computing Quantities
- Develop Proficiency in Specification Writing
- Apply Practical Knowledge to Real-World Projects





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PROGRAMME: B. Arch (2019 PATTERN)

Academic Year: **2022-23**

Year: **Fourth**

Semester: **I**

Course: **PROFESSIONAL PRACTICE**

Course Code: **4201959 [THEORY]**

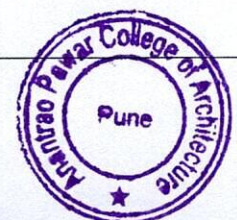
Teaching Scheme		Examination Scheme	
Total Contact		Sessional	NIL
45 mins. lecture considered as per course structure 2019 pattern		Viva	NIL
		In-semester exam	30
Lectures	1	End Semester exam	70
Studios	2	Total Marks	100
Total in Year	3	Total Credits	03

COURSE OBJECTIVES:

1. To help students understand the role of Architecture & Architects, along with duties, responsibilities, liabilities & professional conduct.
2. To help students to get familiar with the profession & its demands and help him / her with the various Avenues of Architecture.
3. To help students understand the students with the knowledge of office & site administration, documentation and procedures.

COURSE OUTCOMES:

1. Students comprehend the nature of Architecture as a profession and understands the limits and extend of the services and the various apex institutions.
2. Students understand the concurrent scenario in the professional field and is able to channelize the potential towards one / many of the varied Avenues of Architecture available.
3. Students are ready to intern out in the profession with adequate knowledge of administration and procedures.



ABMSP's

ANANTRAO PAWAR COLLEGE OF ARCHITECTURE

Parvati, Pune.

FOURTH YEAR

SEM - VIII



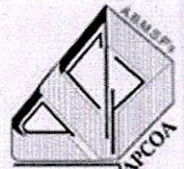
Akhil Bharatiya Maratha Shikshan Parishad's
ANANTRAO PAWAR COLLEGE OF ARCHITECTURE

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University Identification No. PU/PN/Arch / 462 /2014, Council of architecture code - MH 71, DTE code- AR6837

PROGRAMME: B.ARCH (2019 PATTERN)

Academic Year: **2021-22**
Year: **Fourth**
Semester: **VIII**
Course: **DESIGN VII**

Course Code: **4201562(SV)**

Teaching Scheme		Examination Scheme	
Total Contact		Sessional [Internal]	100
Hours per week		Sessional [External]	100
		Viva (Internal)	25
Lectures	3	Viva (External)	25
Studios	9	Total Marks	250
Total	12	Total Credits	08

COURSE OBJECTIVES:

1. To study various urban issues such as road network, built forms, character identity & open spaces.
2. To identify issues & develop design solution for the same.
3. To study multifunctional speciality building in terms of advance services, built character.

COURSE OUTCOMES:

1. Designing multifunctional speciality building in urban context.
2. Understanding end user needs and provide feasible design solution.
3. Study of regulation and bye laws & applicability of advance services in the built and unbuilt form.
4. Preparing Design Solution for complex urban forms catering the needs of users.





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University of Pune Identification No.: PU/PN/Arch/445/2014 DTE CODE : 6837

PROGRAMME: B.Arch (2015 Pattern)

Academic Year: 2022-23

Year: Fourth

Semester: VIII

Course: **ADVANCED BUILDING TECHNOLOGY AND SERVICES I**

Course Code: 4201961 (SV)

Teaching Scheme		Examination Scheme	
Total Contact		Sessional (Internal)	50
		Sessional (External)	50
Hours per week		Viva (Internal)	25
		Viva (External)	25
		In-semester exam	Nil
Lectures	1	End Semester exam	Nil
Studios	2	Total Marks	150
Total	3	Total Credits	04

COURSE OBJECTIVES:

1. To introduce design and advanced structural systems for Auditoriums, high rise buildings, Curtain walls.
2. To produce details of architectural features in design projects.
3. 3. To understand materials and services required in buildings with complex and special requirements.

COURSE OUTCOMES:

1. Understanding of Auditoriums through case study and Drawing technical drawings and details related to services.
2. Studying different types of Curtain walls and drafting its detailed drawings.
3. Drafting details of architectural features in design projects with reference to materials used and details of construction.





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PROGRAMME : B.ARCH (2019 PATTERN)

Academic Year: **2022-23**
Year: **Fourth**
Semester: **VIII**
Course: **URBAN STUDIES -II**

Course Code: **4201962 [SS]**

Teaching Scheme		Examination Scheme	
Total Contact		Sessional (internal)	50
		Sessional (external)	50
Hours per week: 4		Viva (internal)	NIL
		Viva (external)	NIL
		In-semester exam	NIL
Lectures	2	End Semester exam	NIL
Studios	2	Total Marks	100
Total	4	Total Credits	03

COURSE OBJECTIVES:

1. To introduce the students to the process of planning and urban development and associated legislation.
2. To understand the fundamental concepts and theories of urban design and apply them in their design projects.
3. To introduce the students to urban economics.

COURSE OUTCOMES:

Students will develop a basic understanding of Planning and Urban Design legislation; studying planning process, survey, and application of the same to know about issues like urban economics, transportation.





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Program: B. Arch. (2019 pattern)

Academic Year: **2022-23**
Year: **Fourth**
Semester: **II**
Course: **ELECTIVE IV**
Course Code: **4201963 [SS]**

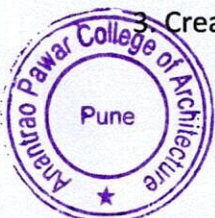
Teaching Scheme		Examination Scheme	
Total Contact		Sessional (internal)	25
		Sessional (external)	25
Hours per week: 3		Viva (internal)	NIL
		Viva (external)	NIL
		In-semester exam	NIL
Lectures	1	End Semester exam	NIL
Studios	2	Total Marks	50
Total	3	Total Credits	02

COURSE OBJECTIVES:

1. To allow the students to study and develop theoretical as well as practical understanding of architecture.
2. To help students to get familiar with the site and understand the working pattern.
3. To help students to nurture their area of interest and develop their expertise.

COURSE OUTCOMES:

1. Covers both theoretical and practical aspects by linking them to the field of architecture.
2. Inculcate within students a confidence to understand various spaces & their relations w.r.t. Design.
3. Developing hands-on workshop / field work/ review of literature / seminar or any suitable format of learning may be adopted.
3. Creation of space and its elements w.r.t psychology and representing them graphically.





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PROGRAMME: B. Arch (2019 PATTERN)

Academic Year: **2022-23**
Year: **Fourth**
Semester: **II**
Course: **ELECTIVE V**
Course Code: **4201964 [SS]**

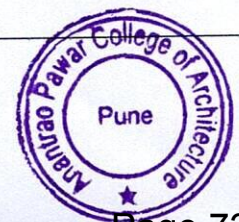
Teaching Scheme		Examination Scheme	
Total Contact		Sessional [INT 25 +EXT 25]	50
45 mins. lecture considered as per course structure 2019 pattern		Viva	NIL
		In-semester exam	NIL
Lectures	1	End Semester exam	NIL
Studios	2	Total Marks	50
Total	3	Total Credits	02

COURSE OBJECTIVES:

1. To help students undertake the study of a particular subject in greater detail within the context of Architecture.
2. This elective 'Road Safety & Civic Sense' would help students study the concepts, principles tools & aids of Road Safety & Civic sense.
3. To acquaint the students with the design & safety standards of roads & inculcate in them the practice of safe road behaviour.

COURSE OUTCOMES:

1. Students inculcate the skills of Literature study, details about the particular topic, site visits and Report writing skills.
2. Students understand subject in greater detail and come out with a conclusion of the topic under study.
3. Students understand the safety and civic sense related to the roads and their design.





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Program: B. Arch. (2019 pattern)

Academic Year: **2022-23**

Year: **Fourth Year**

Semester: **II**

Course: **QUANTITY SURVEYING & SPECIFICATION WRITING II**

Course Code: **4201965 [THEORY]**

Teaching Scheme		Examination Scheme	
Total Contact		Sessional	Nil
Hours per week		Viva	Nil
		In-semester exam	30
Lectures	2	End Semester exam	70
Studios	2	Total Marks	100
Total	4	Total Credits	03

COURSE OBJECTIVES:

- To enable students in preparation of rate analysis & indent preparation along With the concepts.
- To enable students in working out quantities of various items of work for an Industrial structure
- To acquaint students with methodology of writing specifications with reference to service installations of different items of work in construction.
- To enable students in different building trades & content, checklist.

COURSE OUTCOMES:

After completion of this course, the students will be able to:

- Understand the concept and significance of rate analysis in construction projects and Develop proficiency in calculating rates for materials, labour, and equipment required for specific tasks.
- Work with architectural and engineering drawings to extract relevant information for quantity calculations.
- Apply appropriate formulas and techniques to compute quantities of materials needed for industrial structures.
- Develop an understanding of various service installations, such as electrical, plumbing, HVAC, etc.





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Program: B.Arch. (2019 P)

Academic Year: **2022-23**
Year: **Fourth**
Semester: **VIII**
Course: **PROJECT MANAGEMENT**
Course Code: **4201966 (P)**

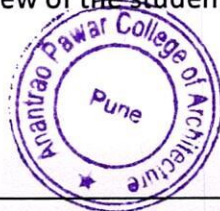
Teaching Scheme		Examination Scheme	
Total Contact		Sessional [CIA 25+ EA 25]	NIL
Hours per week		Viva	NIL
		In-semester exam	30
Lectures	2	End Semester exam	70
Studios	1	Total Marks	100
Total	3	Total Credits	03

COURSE OBJECTIVES:

1. Students need to understand reality of modern-day Project environment which is getting more complex and more collaborative due to ever demanding requirements of creative and unique design concepts and importance of Project Management to manage this dynamic environment.
2. Introducing to the students "Management Concepts" and the Role of an Architect as Project Manager in executing a project from conceptualization, design stage through the documentation and construction stage.
3. This course will be an introduction to basics of Project Management framework and Knowledge areas giving glimpses on best practices to manage collaborative project environment and roles and responsibilities of various stakeholders of Project and how Project manager leads to successful project completion within cost and time and meets or exceeds project quality standards.

COURSE OUTCOMES:

1. After completing this course student will be exposed to basic key concepts of Project Management and its importance in managing Project.
2. The student should be competent enough to handle and manage a small-scale project from conceptualization to completion (hand over).
3. Subject knowledge gain may help few of the students to pursue master's education in the field of Project Management.



ABMSP's

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FIFTH YEAR

SEM - IX



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Program: B.Arch. (2015 P)

Academic Year: **2022-23**
Year: **Fifth**
Semester: **IX**
Course: **PRACTICAL TRAINING**
Course Code: **5201570 (SV)**

Teaching Scheme	Examination Scheme	
Student should work for Total 120 working days in organization where architecture or its allied disciplines are practiced under supervision of a professional who is registered with COA India.	Sessional [INT 75+ EXT 75]	150
	Viva [INT 25+ EXT 25]	50
	In-semester exam	NIL
	End Semester exam	NIL
	Total Marks	200
	Total Credits	08

COURSE OBJECTIVES:

1. To undertake practical training under the guidance of experts / professionals.
2. To Learn about architect's office management and learn about the process of design, execution and management of a project.
3. Total duration of Professional Training will be 120 working days in IX sem.

COURSE OUTCOMES:

1. Prepare a separate report along with a formal log book & work diary.
2. Students will able to understand importance of documentation and records.



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FIFTH YEAR

SEM - X



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PROGRAMME: B.ARCH (2015 PATTERN)

Academic Year: **2022-23**
Year: **Fifth**
Semester: **■ X**
Course: **Architectural Design Project**
Course Code: **5201571 (SV)**

Teaching Scheme		Examination Scheme	
Total Contact		Sessional [Internal]	175
Hours per week		Sessional [External]	175
		Viva (Internal)	50
Lectures	4	Viva (External)	50
Studios	16	Total Marks	450
Total	20	Total Credits	12

COURSE OBJECTIVES:

To provide an opportunity to the students to apply the knowledge gained in earlier years to full-fledged Architectural Design project of student's choice with a holistic approach including background research, programme formulation, site selection investigations and design demonstration.

COURSE OUTCOMES:

1. Formulation of design programme
2. site investigation
3. Best Suitable Design Solution with reference to site context , services and budgeting.





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PROGRAMME: B.ARCH (2015 PATTERN)

Academic Year: **2022-23**
Year: **Fifth**
Semester: **X**
Course: **Elective IV (Environment and Energy management)**
Course Code: **5201572 (SS)**

Teaching Scheme		Examination Scheme	
Total Contact		Sessional [Internal]	25
Hours per week		Sessional [External]	25
		Viva (Internal)	Nil
Lectures	1	Viva (External)	Nil
Studios	2	Total Marks	50
Total	3	Total Credits	4

COURSE OBJECTIVES:

To Understand importance of Energy Management in Building practices.

To make students aware with Best Management practices.

COURSE OUTCOMES:

1. Understanding core knowledge of energy management through case studies.
2. Current trends in Green Building Practices.
3. Application of knowledge in Built Form.

