

APPASAHEB BIRNALE COLLEGE OF ARCHITECTURE

Environmental Planning and Urban Design

Semester –07 Academic year 2022- 2023

Course Information

Course Title: Environmental Planning and Urban Design

Course Code: PC-702 Semester : VII Teaching Scheme : L: 01 St :02 Total:03 Credits : 3
Examination Scheme : Term Work - 100 Marks Viva-Voce - 100 Marks Total marks: 200 Marks

Course Objectives: • Developing student consciousness to understand all environmental aspects at the urban scale. • Developing an understanding of factors effecting built and open spaces at urban scale and methods not only to study user patterns, perceptions and behavior, but also record, document and analyze them. • Developing techniques to understand movement systems, activity patterns, visual and physical linkages. • Studying land use, building uses, social, physical and perceptual context and behavior. User patterns, perceptions and behavior.

Course Outcomes(COs): At the end of the course the student should be able to: • Work in a team to undertake studies related to neighborhood planning and large area Development and present the documentation before a group of experts. • Demonstrate understanding of campus planning, sustainable settlement planning, landscape design, and the statutory framework related to waste management, environmental protection, and sustainability through a large-scale urban design project/Housing case study. (Case studies, International/National) • Apply vernacular as well as modern urban design strategies that can mitigate the negative impacts of urban climate. • Appreciate the role of efficient resource (water, waste, materials, energy) management in the development of a sustainable neighborhood and Demonstrate an understanding of the concepts of Urban renewal, different government schemes of slum Upgradation. • Understand and implement URDPFI guidelines.

Teaching Scheme & Marking Evaluation

**FOURTH YEAR ARCHITECTURE
ENGINEERING – CBCS PATTERN**

SEMESTER – VII																				
Sr. No	Course (Subject Title)	TEACHING SCHEME									EXAMINATION SCHEME									
		THEORY			TUTORIAL			PRACTICAL/STUDIO			THEORY					VIVA-VOCE			TERM WORK	
		Credits	No. of Lecture	Hours	Credits	No. of Lecture	Hours	Credits	No. of Lecture	Hours	Hours	Mode	Marks	Total Marks	Min	Hours	Max	Min	Max	Min
1	PC – 701 ** Adv. Arch. Design	1	1	1				9	6	6							100	45	100	50
2	PC – 702 Env. Planning & Urban Design	1	1	1				2	3	3							100	45	100	50
3	PC-703 Adv. Bldg. Specification, Valuation and Project Management System	1	1	1				2	3	3	3	ESE	100	100	45	As per BOS Guide lines	50	23	50	25
4	BS & AE 704 Adv. Structure – I	3	3	3							3	ESE	100	100	45				50	25
5	PE – 705 ** Urban and Regional Planning	1	1	1				1	2	2	3	ESE	100	100	45				50	25

Criteria Based Assessment and Grading of Students Performance

Grade :

Grades	Interpretation
A	Clear attainment of all course objectives, showing complete and comprehensive understanding of the course content, with development or relevant skills and intellectual initiative to an extremely high level.
B	Substantial attainment of most course objectives, showing a high level of understanding of the course content, with development of relevant analytical and interpretive skills to a high level.
C	Sound attainment of some major course objectives, with understanding of most of the basic course content and development of relevant skills to a satisfactory level.
D	Some attainment of a range of course objectives, showing a basic understanding of course content with development of relevant skills

Grades	A	B	C	D	E
Major objectives achieved	ALL	ALL	MOST	SOME	FEW OR NONE
Minor objectives achieved	ALL	MOST	SOME	SOME	FEW OR NONE

Proposed Criteria Based Assessment in Architecture for Design Subject Specific (Over all)

- 1) Critical Explanation 2) Logical Development 3) Proposal & Recommendations 4) Oral & Graphic Presentation

Name of The Student	Sr.No	Assignment / Task	Time Frame	Criteria-Based Assessment and Grading of Student's Performance					
				Fail	Poor	Average	Good	Excellent	Grade
	A)	Study of Traditional Settlement and Modern Settlement							
Name of the student	01	Type of Planning							
	02	Planning process and Site Planning							
	03	Design Approach							
	04	Development of Settlement and Built Environment (various factors like Physiography, Soil, Geology, Vegetation, Microclimate, etc.)							
	05	Planning and Design standards – Area Distribution and density							
	06	Local Building Bye-laws i.e. UDCPR, NBC							
	b)	Macro and Microscale of Urban Design							
		Macro Scale study of Urban Morphology							
	01	Origin							
	02	Evolution							
	03	Growth							
	04	Development							
	05	Zoning							
	06	Land-use							
	07	Road Hierarchy							
	08	Activity and Circulation							
	09	Density							

	10	Heritage								
	11	Imageability								
	12.	Pattern								
	13	Grain								
	14.	Texture								
	15.	Urban Mass, Urban Scale, Urban space								
		Micro Scale study of Urban Morphology								
	01	Pattern, Grain and Texture								
	02	Heritage								
	03	Imageability with elements of Urban Design								
	04	Activity and Circulation								
	d)	Neighbourhood for 5000 population								
	01	Master Plan – include all necessary calculations								
	02	Master Plan with all services								
	03	Land use plans								
	04	Neighbourhood details								
	e)	Final Grade								

Note : Performance grade of the Student track under Poor and Good need to be mentor or accelerate on last phase of Design conclusion & Presentaion.
Performance grade of the Student track under Good and Excellent need not be more accelerate. Student is performing up to his level of confidence

	Fail Inadequate	Poor Developing	Average Adequate	Good Accomplished	Excellent	Obtained Grade Stage wise
	Marking Grade - E	Marking Grade - D	Marking Grade - C	Marking Grade - B	Marking Grade - A	
Continuous progress	Assessment Remarks					
Based on continuous communication with teachers	Not attempted.	Not consistent/irregular – affect the work progress	Regular but lack of clear understanding and process/Methodology	Regular and good understanding of the subject. Clear the conceptual thought.	Very good understanding about the subject and concepts. Good presentation of understanding with consistency in the class.	
Study of Traditional and Modern Settlement	Assessment Remarks					
Base understanding and representation of understanding Graphically	Being absent	Irregularity reflects in the understanding of process and concepts	Stepwise understanding of the process reflects	A clear understanding of the subject and method reflects in the work	Very clear and good thought process developed through process reflects in work and explanation.	
Macro and Microscale of Urban Design Study of Urban Morphology	Assessment Remarks					
Demonstrate the base of the subject through various points discussed in detail through understanding, analysis and conclusions	Not attempted	Irregular efforts reflects in work.	Tried and efforts shown to understand the topic through consistency efforts.	Understanding and analytical process reflects the understanding of the subject through journey.	Understanding, analysis and conclusions gives the remarkable consideration of work.	
Neighbourhood design	Assessment Remarks					

<p>Demonstrating an overall understanding of the whole syllabus should reflect in the work.</p>	<p>Not Attempted</p>	<p>Not complete and poor work with reference to correctness and understanding</p>	<p>Complete with little understanding reflects through work/presentation and explanation</p>	<p>Masterplan, land-use map, and neighborhood details understanding through presentation and explanation.</p>	<p>Overall approach towards the project the deep study, understanding, and analysis through design.</p>	
<p>100 % of Work Completed stage wise</p>						

APPASAHEB BIRNALE COLLEGE OF ARCHITECTURE

Course: Bachelor of Architecture
ARCHITECTURE DEGREE COURSE (PC – 303**)
ARCHITECTURAL DESIGN-III
Semester –03 Academic year 2021- 2022

Course Information

(PC – 303**)

ARCHITECTURAL DESIGN-III

CATEGORY	SUBJECT	TEACHING SCHEME			EXAMINATION SCHEME (MARKS)				CREDITS
		LECTURE	STUDIO	TOTAL	PAPER	SESSL.	VIVA	TOTAL	
STU	Architectural Design III	15	90	105	0	100	100	200	10

NOTE:- (**).Means combine passing for internal term work & theory paper & external oral as applicable.

OBJECTIVES

- The student will be confronted with progressively complex exercises involving spatial relations in two dimensions, three dimensions and time.
- Fundamental designs skills are taught in the context of the architect's wider responsibilities to society, culture and the environment.
- The course will stress experimentation while providing an analytical and creative framework to develop an understanding of principles of design, structure and materials, as well as necessary skills in drawing and model-making.

COURSE CONTENTS

- Scope of design, considering methods of construction, structure, site conditions, socio-economic factors, form and shapes.
- Study of planes, mass, forms and shapes Study of climatic responsive techniques and its applications.
- Case study of typical small scale settlement in town or village, for understanding evolution of design, use of material, Built – form characters ,B.T. material and technology and natural /surrounding environment
- Data collection and analysis including circulation, zoning ,activity distribution ,circulation and activity relationship ,study of building services.
- Design problems of medium complex function, low rise buildings.
- Site visits : Site visits to complete buildings pertaining to design problems, group discussions among students, special discussions shall also be arranged with senior students, students should also play roles of clients ,contractors and consultants.

- Study of groups of objects forms, masses with basic geometric forms, their compositions ,for two and three dimensional study in relation with Basic Design

OUTCOME

- An ability to plan a medium complex structures like residential buildings.
- An ability to plan complex structures after studying and following proper architectural design process from site analysis to final output.
- And ability to learn the background for the human settlement and understand the pattern of architectural styles in the small settlements.
- Learn the skills of making Block models, preliminary models with site development, human figures with using various model making materials and techniques.

Teaching Scheme & Marking Evaluation

• SECOND YEAR ARCHITECTURE ENGINEERING – CBCS PATTERN

SEMESTER – III																							
Sr. No	Course (Subject Title)	TEACHING SCHEME									EXAMINATION SCHEME												
		THEORY			TUTORIAL			PRACTICAL/STUDIO			THEORY					PRACTICAL			TERM WORK				
		Credits	No. of Lecture	Hours	Credits	No. of Lecture	Hours	Credits	No. of Lecture	Hours	Hours	Mode	Marks	Total Marks	Min	Hours	Max	Min	Hours	Max	Min		
1	PC - 301	1	1	1				1.5	3	3		CIE								3	50	20	
2	PE – 302	1	1	1				1	1	1		ESE								1	100	40	
3	PC – 303	1	1	1				3	6	6		CIE						Guidelines	100	40	6	100	40
4	BS & AE – 304 *	1	1	1				1.5	3	3		CIE	20	80	32	As per BOS	100	40	3	70	28		
5	BS & AE – 305 **	3	3	3							ESE	60	80	32						20	10		
6	PC - 306 **	1	1	1				1	2	2		CIE	20	80	32					2	20	10	
7	BS & AE – 307	1	1	1				1	2	2		ESE	60	80	32								
8	BS & AE – 308	2	2	2							CIE	30	100	40						2	50	20	
9	BA & AE – 309	2	2	2							ESE	70	100	40									
TOTAL		13	13	13				9	17	17				310			200				460		
SEMESTER – IV																							
1	PC – 401	1	1	1				1.5	3	3		CIE				As per BOS Guidelines				3	100	40	
2	PE – 402	1	1	1				1	1	1		ESE								1	100	40	
3	PC – 403	1	1	1				3	6	6		CIE	30	100	40			100	40	6	100	40	
4	BS & AE – 404 *	1	1	1				1.5	3	3		ESE	70	80	32			100	40	3	70	28	
5	BS & AE – 405 **	3	3	3							CIE	20	80	32							20	10	
6		1	1	1				1	2	2		ESE	60	80	32			50	20	2	50	20	

Criteria Based Assessment and Grading of Students Performance

Grade :

Grades	Interpretation
A	Clear attainment of all course objectives, showing complete and comprehensive understanding of the course content, with development or relevant skills and intellectual initiative to an extremely high level.
B	Substantial attainment of most course objectives, showing a high level of understanding of the course content, with development of relevant analytical and interpretive skills to a high level.
C	Sound attainment of some major course objectives, with understanding of most of the basic course content and development of relevant skills to a satisfactory level.
D	Some attainment of a range of course objectives, showing a basic understanding of course content with development of relevant skills

Grades	A	B	C	D	E
Major objectives achieved	ALL	ALL	MOST	SOME	FEW OR NONE
Minor objectives achieved	ALL	MOST	SOME	SOME	FEW OR NONE

Proposed Criteria Based Assessment in Architecture for Design Subject Specific (Over all)

- 1) Critical Explanation 2) Logical Development 3) Proposal & Recommendations 4) Oral & Graphic Presentation

Name of The Student	Sr.No	Assignment / Task	Time Frame	Criteria Based Assessment and Grading of Students Performance					
				Fail	Poor	Average	Good	Excellent	Grade
	a)	Graphical Presentation (Review over Literature)							
	01	Introduction to syllabus - architectural design - III and village and town settlement study	04.10.2021						
	02	Visit –village settlement study	06.10.2021						
	03	Residence -Data collection Presentation	11.10.2021						
	04	Residence-case study presentation	13.10.2021 18.10.2021						
	05	Residence-site analysis	20.10.2021						
	06	Residence- bubble diagram with zoning	20.10.2021 25.10.2021 27.10.2021						
	07	Settlement Study- Presentation	08.11.2021 10.11.2021						
	b)	Logical Development (Initial stage of Design)							
	04	Single line all footprints (floor) Schematic Sections & Elevation. Submission of final presentation sheets of site analysis. Scale – 1:100	15.11.2021 17.11.2021 24.11.2021 29.11.2021 01.12.2021						
	05	Assessment of double line floor foot prints along with final sections & final elevations Scale – 1:50	06.12.2021 08.12.2021						

			13.12.2021 15.12.2021 20.12.2021							
	c)	Critical Explanation (At Major Design Level)								
	06	Assessment of final double line floor foot prints along with all progressive heads. 1:50	22.12.2021							
	07	Progressive assessment continue for above heads. 3D Simulations / Residence-block model, sections and elevations on tracing- 1:50	27.12.2021							
	08	Time bound problem - 6 hrs. duration	29.12.2021							
	d)	Proposal & Recommendations (Final Design Output)								
	08	Pre final submission of all declared heads.(final portfolio and report)	03.01.2022 05.01.2022 10.01.2022 12.01.2022 17.01.2022 19.01.2022							
	09	final submission of portfolios for final marking with final model of residence - all Assignments	24.01.2022							
	e)	Final Grade								

Note : Performance grade of the Student track under Poor and Good need to be mentor or accelerate on last phase of Design conclusion & Presentaion.

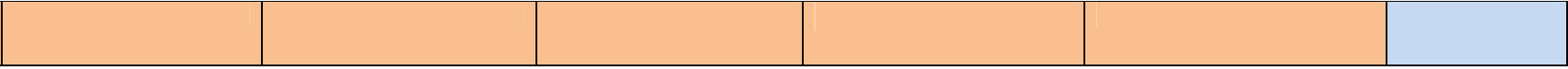
Course :- ARCHITECTURAL DESIGN -III Assessment Sheet based on criteria based performance evaluation

Name of the student	Fail Inadequate	Poor Developing	Average Adequate	Good Accomplished	Excellent Mastery	Obtained Grade Stage wise
	Marking Grade - E	Marking Grade - D	Marking Grade - C	Marking Grade - B	Marking Grade - A	
Design Solution	Assessment Remarks					
<p>40 %</p> <p>Originate successful design to fundamental architectural problems by integrating concepts, formal/visual principles and techniques.</p>	<ul style="list-style-type: none"> Does not attempt the studio and Unable to complete design solutions. 	<ul style="list-style-type: none"> Unsuccessful design solution due to lack of creative use of concept, Poor understanding of building construction technique Poor application of principles of design. Little efforts taken for the creative design resulting in poorly developed design solution. No complex thinking on composing the design. 	<ul style="list-style-type: none"> Fundamentally sound design solution with moderately creative use of concept, Fundamentally appropriate use of techniques, and adequate application of principles of design Better efforts taken to find out the design solution. Little complexity shown in the design composition. 	<ul style="list-style-type: none"> Interesting design solution showing consistently creative development of concept, Original development of technique and original application of principles of design. Solution shows creative application and exploration of design potential with largely effective results with complexity in composition of design. 	<ul style="list-style-type: none"> Composing design solution showing highly original creative development of concept, Innovative application of building techniques and intellectual use of design principles. Solution shows rigorous creative thinking and investigation throughout design process with highly successful results with intellectual complex composition in the making design. 	

Formal & Spatial Principles	Assessment Remarks					
<p>20 %</p> <p>Demonstrate fundamental understanding and application of architectural forms + patterns + spaces as well as design principles as they relate to human experience.</p>	<ul style="list-style-type: none"> Does not attempt or is unable to complete design solutions. 	<ul style="list-style-type: none"> Limited understanding of experimental quality of architectural form, pattern and spaces resulting in largely unsuccessful architectural solutions. Significant problems with scale, material knowledge, sequence, circulation, and observation skills 	<ul style="list-style-type: none"> Basic functional understanding of experimental quality of architectural form, pattern and spaces resulting in fundamentally sound architectural solutions. Moderate problems with scale, material knowledge, sequence, circulation, and observation skills 	<ul style="list-style-type: none"> Clear understanding of experimental quality of architectural form, pattern and space resulting in successful architectural solutions. Minor problems with scale, material knowledge, sequence, circulation, and observation skills 	<ul style="list-style-type: none"> Advanced understanding of experimental quality of architectural form, pattern and space resulting in intellectual architectural solutions. Effective use of scale, material knowledge, sequence, circulation, and observation skills 	
Design Process	Assessment Remarks					
<p>20 %</p> <p>Demonstrate a rigorous design process through critical idea of design production</p>	<ul style="list-style-type: none"> Does not attempt or is unable to complete critical iterative production. 	<ul style="list-style-type: none"> Inconsistent levels of critical idea of design production resulting in a flawed and uneven design development process. Regularly fails to meet daily progress of work, attendance and participation requirements. Does not document or respond to 	<ul style="list-style-type: none"> Consistent levels of critical idea of design production resulting in a basic design development process. Regularly meets daily progress, attendance and participation requirements. Usually shows evidence of 	<ul style="list-style-type: none"> High levels of critical idea of design production resulting in a mostly successful, thorough design development process. Consistently meets all daily progress, attendance and participation requirements. Consistently shows evidence of critical 	<ul style="list-style-type: none"> Excellent levels of critical idea of design production resulting in a highly successful, comprehensive design development process. Reliably fulfils and exceeds all daily progress, attendance and participation requirements. shows evidence of self-disciplined 	

		critical input from class presentations in design process.	critical response through basic level of continued research, sketchbook documentation and design development.	response through regular research, sketchbook documentation and design development.	critical response through sustained, relevant research, rigorous sketchbook use and exemplary thought process in design development.	
Communication	Assessment Remarks					
<p>20 %</p> <p>Communicate design solutions effectively using architectural presentation materials and techniques.</p>	<ul style="list-style-type: none"> Does not attempt, or is unable to complete design solutions. 	<ul style="list-style-type: none"> Significant problems with presentation materials and lack of understanding techniques resulting in unsuccessful level of design communication. Major errors, lapses, consistency or quality problems in drawings, process and models. Poor verbal communication inhibiting discussion beyond basic level. 	<ul style="list-style-type: none"> Basic competence in presentation materials and techniques resulting in an acceptable level of design communication of general completeness. Presentation materials showing basic elements of design organized and comprehensible. No major errors, lapses, consistency or quality problems in drawings, process or models. Verbal communication understandable 	<ul style="list-style-type: none"> Advanced achievement in presentation materials resulting in successful design communication of systematic consistency. Presentation materials comprehensive, detailed and well organized with minimal minor errors and requiring no further explanation. Verbal communication well planned and executed and effective resulting in further discussions. 	<ul style="list-style-type: none"> Exemplary presentation in materials and verbal presentation resulting in highly effective design communication of clarity, detail and precision. Presentation materials excellent portfolio quality suitable for transfer. No errors or lapses. Verbal communication highly effective resulting in advanced discussion for design solution. 	

**100 % Work
Completed stage wise**



APPASAHEB BIRNALE COLLEGE OF ARCHITECTURE

Bachelor of architecture (B-arch)
ARCHITECTURAL DESIGN STUDIO – V (PC-501)
Semester –05 Academic year 2022- 2023

Course Information

PC-501

ARCHITECTURAL DESIGN STUDIO – V

CATEGORY	SUBJECT	TEACHING SCHEME			EXAMINATION SCHEME (MARKS)				CREDITS
		LECTURE	STUDIO	TOTAL	PAPER	SESSL	VIVA	TOTAL	
STU	Architectural Design Studio-V	1	6	7	0	100	100	200	10

OBJECTIVES

The Architectural Design Deals with Aesthetics and Visual Arts, Basic design, Theory of Design by applying the knowledge of climatology, building construction and materials, structures, Collection and analysis for design of medium size buildings with multi level complex planning. Analysis of the site and the micro climate ,surroundings to understand the use of it while designing interior and exterior spaces Works of renowned architects on similar design problems to understand their philosophy and design approach through actual case studies, book reviews and internet studies. The student must be aware of psychological and sociological aspects of the design problem.

- To understand their philosophy and design approach by studying actual design problems and incorporating it in their design.
- To understand the socio-cultural aspects on Architectural design.
- To understand the psychological aspect of architectural space.
- The student should learn about collection of data, analysis of data and finalization of requirements of prescribed buildings with actual design problems.
- To understand the climatical considerations bearing on Architectural design.

OUTCOME

- To understand the philosophy of architects & the design approach students have to select One Indian & One International Architect, analysing the work of the architect through books, internet and actual case study and presenting it in the studio.
- TO Research of medium sized buildings with multi-levels & functional complexities through group discussion.
- Understanding and analyzing the selected city for the above built form. Studying the socio cultural aspect of the city.
- Selection of site area according to need and necessity of the project.
- Data collection of Anthropometric Data ,Data regarding handicapped persons ,Bye-laws & D.C .rules,
- NBC/Relevant norms, analysing and understanding the use of data in design process.

- two net case studies of the similar design problem understanding the functions ,users , space circulations ,interior, exterior spaces ,furniture , landscape and services with a thorough analysis .
- Student will be capable to carry out with one major (area up to 1000 Sq.mts.) which may include buildings of medium density and size, Bank with residence, post office with residence , Hostels, Row houses, Multistoried offices, Apartments, etc.and 1 minor problem (Time bound) which includes approximate duration to gauge the understanding and creative development of the student. A detailed design portfolio for major & minor project should be completed with the help of scaled drawings, processed drawings with supporting sketches, models and views. for external assessment by expert's panel.

Teaching Scheme & Marking Evaluation

THIRD YEAR ARCHITECTURE ENGINEERING – CBCS PATTERN

SEMESTER – V																					
Sr. No	Course (Subject Title)	TEACHING SCHEME									EXAMINATION SCHEME										
		THEORY			TUTORIAL			PRACTICAL/ST U			THEOR Y			VIVA-VOCE		TERM WORK					
		Credits	No. of Lectur	Hours	Credits	No. of Lectur	Hours	Credits	No. of Lectur	Hours	Hours	Mode	Marks	Total Mark	Min	Hours	Max	Min			
1	PC – 501**	1	1	1				9	6	6						100	45	6	100	50	
2	BS & AE –502 *	1	1	1				4.5	3	3	3	ESE	80	80	36	As per BOS Guidelines	100	45	3	70	35
3	BS & AE –503 **	3	3	3							3	ESE	80	80	36					20	10
4	PC – 504**	1	1	1				1	2	2	3	ESE	80	80	36				2	20	10
5	PC – 505**	1	1	1				1	2	2	3	ESE	80	80	36				2	20	10
6	BS & AE – 506	1	1	1				1	2	2	2	ESE	50	50	23				2	50	25
7	PC – 507	1	1	1				1.5	3	3		-	-	-				3	50	25	
8	PC – 508	1	1	1				1	2	2	2	ESE	50	50	23				2	50	25
	TOTAL	10	10	10				19	20	20			420				200			380	

Criteria Based Assessment and Grading of Students Performance

Grade :

Grades	Interpretation
A	Clear attainment of all course objectives, showing complete and comprehensive understanding of the course content, with development or relevant skills and intellectual initiative to an extremely high level.
B	Substantial attainment of most course objectives, showing a high level of understanding of the course content, with development of relevant analytical and interpretive skills to a high level.
C	Sound attainment of some major course objectives, with understanding of most of the basic course content and development of relevant skills to a satisfactory level.
D	Some attainment of a range of course objectives, showing a basic understanding of course content with development of relevant skills

Grades	A	B	C	D	E
Major objectives achieved	ALL	ALL	MOST	SOME	FEW OR NONE
Minor objectives achieved	ALL	MOST	SOME	SOME	FEW OR NONE

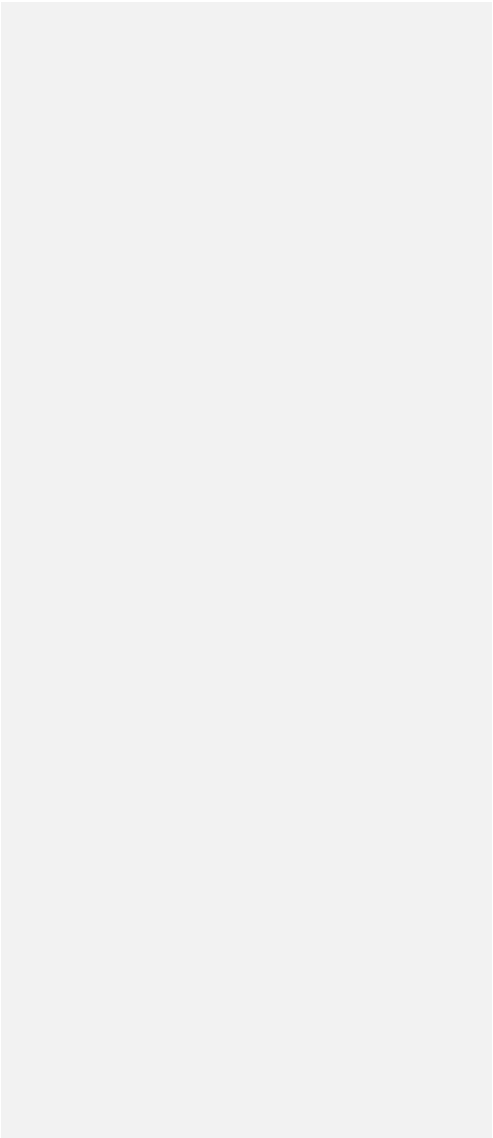
Proposed Criteria Based Assessment in Architecture for Design Subject Specific(Over all)

1) Critical Explanation 2) Logical Development 3) Proposal & Recommendations 4) Oral & Graphic Presentation

Name of The Student	Sr.No	Assignment / Task	Time Frame	Criteria Based Assessment and Grading of Students Performance					
				Fail	Poor	Average	Good	Excellent	Grade
	A)	Graphical Presentation (Review over Literature)							
	01	➤ Architects philosophy through case study and presentation							
	02	➤ Case Study							
	03	Case Study Presentation (Literature / Demographic Data)							
	04	Site Analysis /Area break up / Area foot prints / Zoning / Operational flow / Organisation structure etc. Discussion over Pre Design Scheme / Individual Strategies / Concept							
	05	Time bound minor problem- presentation and final portfolio.							
	b)	Logical Development (Initial stage of Design)							
	06	Conceptual development of the design with consideration of socio cultural, physical, psychological and climatic aspects study.							
	07	Single line all footprints (floor) Schematic Sections & Elevation. Submission of final presentation sheets of site analysis. Schematic Block model representing basic 3d concept .							
	08	Assessment of double line floor foot prints along with final sections & final elevations							
	c)	Critical Explanation (At Major Design Level)							
	09	Assessment of final double line floor foot prints along with all progressive heads.							

Demonstrate fundamental understanding and application of architectural formal + spatial principles as they relate to human experience.	design solutions.	experiential quality of architectural form and space resulting in largely unsuccessful architectural solutions. Significant problems with scale, materiality, sequence, circulation, enclosure or visual	understanding of experiential quality of architectural form and space resulting in fundamentally sound architectural solutions. Moderate problems with scale, materiality, sequence, circulation, enclosure and or	experiential quality of architectural form and space resulting in successful architectural solutions. Minor problems with scale, materiality, sequence, circulation, enclosure and or	experiential quality of architectural form and space resulting in exemplary architectural solutions. Effective use of scale, materiality, sequence, circulation, enclosure and visual perception.	
Design Process	Assessment Remarks					
20 % Demonstrate a rigorous design process through critical iterative production	Does not attempt or is unable to complete critical iterative production.	Inconsistent levels of critical iterative production resulting in a flawed and uneven design development process. Regularly fails to meet daily progress, attendance and participation requirements. Does not document or respond to critical input from class presentations in design iterations.	Consistent levels of critical iterative production resulting in a basic design development process. Regularly meets daily progress, attendance and participation requirements. Usually shows evidence of critical response through basic level of continued research, sketchbook documentation and iterative design development.	High levels of critical iterative production resulting in a mostly successful, thorough design development process. Consistently meets all daily progress, attendance and participation requirements. Consistently shows evidence of critical response through regular research, sketchbook documentation and iterative design development.	Excellent levels of critical iterative production resulting in a highly successful, comprehensive design development process. Reliably fulfills and exceeds all daily progress, attendance and participation requirements. Unfailingly shows evidence of self-disciplined critical response through sustained, relevant research, rigorous sketchbook use and exemplary iterative	
Communication	Assessment Remarks					
20 % Communicate design solutions effectively using architectural presentation materials and techniques.	Does not attempt, or is unable to complete design solutions.	Significant problems with presentation materials and/or techniques resulting in unsuccessful level of design communication. Major errors, omissions, consistency or quality problems in drawings, process and models. Poor verbal communication inhibiting discussion	Basic competence in presentation materials and techniques resulting in an acceptable level of design communication of general completeness. Presentation materials showing basic elements of design organized and	Advanced achievement in presentation materials resulting in successful design communication of systematic consistency. Presentation materials comprehensive, detailed and well organized with minimal minor errors and requiring no further explanation. Verbal	Exemplary presentation in materials and verbal presentation resulting in highly effective design communication of clarity, detail and precision. Presentation materials at portfolio quality suitable for transfer. No errors or omissions. Verbal communication highly effective resulting in	

		beyond rudimentary level.	comprehensible. No major errors, omissions, consistency or quality problems in drawings, process or models. Verbal communication understandable	communication well planned and executed and effective resulting in further discussion	advanced discussion of design solution.	
100 % Work Completed stage wise						



APPASAHEB BIRNALE COLLEGE OF ARCHITECTURE

Department of Bachelors (B-Arch)

ARCHITECTURAL CONSERVATION– VII (PC-708-A)

Semester –07 Academic year 2022- 2023

Course Information

PC-708-A

ARCHITECTURAL CONSERVATION– VII

CATEGORY	SUBECT	TEACHING SCHEME			EXAMINATION SCHEME (MARKS)				CREDITS
		LECTURE	STUDIO	TOTAL	PAPER	SESSI.	VIVA	TOTAL	
STU	Architectural Conservation– VII	1	2	3	0	50	50	100	2

Course description:

The aim of the course is to introduce the various issues and practices of Conservation, to familiarize the students with the status of conservation in India. To give a brief introduction of various agencies involved in the field of conservation worldwide and the policies. Students shall be briefed with the outline of the status of conservation and restoration practice in the country and the various guidelines for the preservation, conservation and restoration of buildings.

Course Objectives:

- To provide an overview of built heritage, its conservation and documentation.
- To study the principles of heritage conservation and documentation

Criteria Based Assessment and Grading of Students Performance

Grade:

Grades	Interpretation
A	Clear attainment of all course objectives, showing complete and comprehensive understanding of the course content, with development or relevant skills and intellectual initiative to an extremely high level.
B	Substantial attainment of most course objectives, showing a high level of understanding of the course content, with development of relevant analytical and interpretive skills to a high level.
C	Sound attainment of some major course objectives, with understanding of most of the basic course content and development of relevant skills to a satisfactory level.
D	Some attainment of a range of course objectives, showing a basic understanding of course content with development of relevant skills

Grades	A	B	C	D	E
Major objectives achieved	ALL	ALL	MOST	SOME	FEW OR NONE
Minor objectives achieved	ALL	MOST	SOME	SOME	FEW OR NONE

Proposed Criteria Based Assessment in ARCHITECTURAL CONSERVATION– VII

- 1) Critical Explanation 2) Logical Development 3) Proposal & Recommendations 4) Oral & Graphic Presentation

Note: Performance grade of the Student track under Poor and Good need to be mentor or accelerate on last phase of Design conclusion & Presentation.

Name of The Student	Sr.No	Assignment / Task	Time Frame	Criteria Based Assessment and Grading of Students Performance					
				Fail	Poor	Average	Good	Excellent	Grade
	A)	Graphical Presentation (Case Study of Heritage Structure)							
Ms.Anushka Hogade	01	Net Case Study (Ballard Bunder Gate Mumbai)	28/09/22				A		A
	02	Case Study Presentation of Conservation of Ballard Bunder Gate House Mumbai (Literature / Step by Step Procedure)	12/10/22			B			C
	03	<ul style="list-style-type: none"> • Identification of Heritage Residential Building, • Site Analysis – Context Study – History • Justification – Geographical Analysis • Introduction of Conservation- Identification of Grading. 	19/10/22					A	A
	b)	Logical Development (Documentation of Heritage Structure)							
	04	Photographic Documentation along with Existing Condition of the Structure. (Martin’s Family Residence)	02/11/22			B			D
	05	Documentation of Site Plan of Heritage Structure, Ground Floor Plan , First Floor Plan, Second Floor Plan, Terrace Floor Plan.	02/11/22 09/11/22 16/11/22				B		C
	06	Assessment of All Floor Plans comparing with Photographic Documentation.	16/11/22				B		B
	07	Documentation of Longitudinal & Lateral Sectional Elevations , All Elevations	23/11/22 30/11/22						
	c)	Critical Explanation (Analysis of Heritage Structure)							
	08	Documentation of Architectural Details, Aesthetic Features, Special Features etc. Analysis of History of Structure, Values in Conservation, Architectural History, Background Study of Structure.	07/12/22 14/12/22				A		A
09	Identification of Decays in Structural Elements, Condition Mapping, Identify & Apply any of Seven Degrees of Intervention Assessment of Analytical background Study	21/12/22			B			B	
d)	Proposal & Recommendations (Final Design Output)								

	08	Proposing Minimal Interventions for Identified Decays with Detailed report, Constructional Details, Labour Charges, Material identifications etc	28/12/22 04/01/23					A	A
	09	Final submission of all declared heads.(final portfolio and report)	11/01/23					A	B
	e)	Final Grade		E0	D0	3B	3A	A	

Name of The Student	Sr.No	Assignment / Task	Time Frame	Criteria Based Assessment and Grading of Students Performance					
				Fail	Poor	Average	Good	Excellent	Grade
	A)	Graphical Presentation (Case Study of Heritage Structure)							
Mr Amit Verma	01	Net Case Study (Ballard Bunder Gate Mumbai)	28/09/22				A		A
	02	Case Study Presentation of Conservation of Ballard Bunder Gate House Mumbai (Literature / Step by Step Procedure)	12/10/22			A			C
	03	<ul style="list-style-type: none"> • Identification of Heritage Residential Building, • Site Analysis – Context Study – History • Justification – Geographical Analysis • Introduction of Conservation- Identification of Grading. 	19/10/22					A	A
	b)	Logical Development (Documentation of Heritage Structure)							
	04	Photographic Documentation along with Existing Condition of the Structure. (Martin’s Family Residence)	02/11/22			A			D
05	Documentation of Site Plan of Heritage Structure, Ground Floor Plan , First Floor Plan, Second Floor Plan, Terrace Floor Plan.	02/11/22 09/11/22 16/11/22					A		C

Note: Performance grade of the Student track under Good and Excellent need not be more accelerate. Student is performing up to his level of confidence

06	Assessment of All Floor Plans comparing with Photographic Documentation.	16/11/22					B		B
07	Documentation of Longitudinal & Lateral Sectional Elevations , All Elevations	23/11/22 30/11/22							
c)	Critical Explanation (Analysis of Heritage Structure)								
08	Documentation of Architectural Details, Aesthetic Features, Special Features etc. Analysis of History of Structure, Values in Conservation, Architectural History, Background Study of Structure.	07/12/22 14/12/22					A		A
09	Identification of Decays in Structural Elements, Condition Mapping, Identify & Apply any of Seven Degrees of Intervention Assessment of Analytical background Study	21/12/22				A			B
d)	Proposal & Recommendations (Final Output)								
08	Proposing Minimal Interventions for Identified Decays with Detailed report, Constructional Details, Labour Charges, Material identifications etc.	28/12/22 04/01/23						A	A
09	Final submission of all declared heads.(final portfolio and report)	11/01/23						A	B
e)	Final Grade		E0	D0	3A	3A	A		

Course : Architectural Conservation-VII Assessment Sheet based on criteria based performance evaluation

Ar.Amit Verma	Fail Inadequate	Poor Developing	Average Adequate	Good Accomplished	Excellent Mastery	Obtained Grade Stage wise
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	Marking Grade - E	Marking Grade - D	Marking Grade - C	Marking Grade - B	Marking Grade - A	
Interventions for Heritage Structure	Assessment Remarks					
40 % Originate successful design to fundamental architectural problems by integrating concepts, formal/visual principles and techniques.	Does not attempt or is unable to complete design solutions.	Unsuccessful design solution due to lack of creative use of concept, limited exploration of technique and/or application of principles. Little effort to challenge creative boundaries resulting in obvious or poorly developed solution.	Fundamentally sound design solution with moderately creative use of concept, fundamentally appropriate technique, and adequate application of principles. Solution shows some effort to challenge creative boundaries with limited or uneven success.	Interesting design solution showing consistently creative development of concept, original development of technique and original application of principles. Solution shows ongoing creative inquiry and exploration of design potential with largely effective results.	Compelling design solution showing highly original creative development of concept, innovative application of techniques and exemplary use of principles . Solution shows rigorous creative inquiry and investigation throughout design process with highly successful results.	3A
Documenting Heritage Structure	Assessment Remarks					
30 % Demonstrate fundamental understanding and application of architectural formal + spatial principles as they relate to human experience.	Does not attempt or is unable to complete Documentation.	Limited understanding of experiential quality of architectural form and space resulting in largely unsuccessful architectural solutions. Significant problems with scale, materiality, sequence, circulation, enclosure or visual	Basic functional understanding of experiential quality of architectural form and space resulting in fundamentally sound architectural solutions. Moderate problems with scale, materiality, sequence, circulation, enclosure and or	Clear understanding of experiential quality of architectural form and space resulting in successful architectural solutions. Minor problems with scale, materiality, sequence, circulation, enclosure and or	Advanced understanding of experiential quality of architectural form and space resulting in exemplary architectural solutions. Effective use of scale, materiality, sequence, circulation, enclosure And visual perception.	3B
Analytical Study	Assessment Remarks					
20 % Demonstrate a rigorous Conservation process	Does not attempt or is unable to complete critical iterative production.	Inconsistent levels of critical iterative production resulting in a flawed and uneven design development process. Regularly fails to meet	Consistent levels of critical iterative production resulting in a basic design development process.	High levels of critical iterative production resulting in a mostly successful, thorough	Excellent levels of critical iterative production resulting in a highly successful, comprehensive design development	

through critical iterative production		daily progress, attendance and participation requirements. Does not document or respond to critical input from class presentations in design iterations.	Regularly meets daily progress, attendance and participation requirements. Usually shows evidence of critical response through basic level of continued research, sketchbook documentation and iterative design development.	design development process. Consistently meets all daily progress, attendance and participation requirements. Consistently shows evidence of critical response through regular research, sketchbook documentation and iterative design development.	process. Reliably fulfils and exceeds all daily progress, attendance and participation requirements. Unfailingly shows evidence of self-disciplined critical response through sustained, relevant research, rigorous sketchbook use and exemplary iterative	2B
Communication	Assessment Remarks					
20 % Communicate design solutions effectively using architectural presentation materials and techniques.	Does not attempt, or is unable to complete design solutions.	Significant problems with presentation materials and/or techniques resulting in unsuccessful level of design communication. Major errors, omissions, consistency or quality problems in drawings, process and models. Poor verbal communication inhibiting discussion beyond rudimentary level.	Basic competence in presentation materials and techniques resulting in an acceptable level of design communication of general completeness. Presentation materials showing basic elements of design organized and comprehensible. No major errors, omissions, consistency or quality problems in drawings, process or models. Verbal communication understandable	Advanced achievement in presentation materials resulting in successful design communication of systematic consistency. Presentation materials comprehensive, detailed and well organized with minimal minor errors and requiring no further explanation. Verbal communication well planned and executed and effective resulting in further discussion	Exemplary presentation in materials and verbal presentation resulting in highly effective design communication of clarity, detail and precision. Presentation materials at portfolio quality suitable for transfer. No errors or omissions. Verbal communication highly effective resulting in advanced discussion of design solution.	2B
100 % Work Completed stage wise						

APPASAHEB BIRNALE COLLEGE OF ARCHITECTURE
Bachelor of architecture (B-arch)
BUILDING CONSTRUCTION & MATERIAL – V (BS & AE – 502)
Semester –05 Academic year 2022- 2023

Course Information

BS & AE – 502

BUILDING CONSTRUCTION & MATERIAL – V

CATEGORY	SUBJECT	TEACHING SCHEME			EXAMINATION SCHEME (MARKS)				CREDITS
		LECTURE	STUDIO	TOTAL	PAPER	SESSL.	VIVA	TOTAL	
STU	Building construction & material -v	1	3	4	80	70	100	250	5.5

OBJECTIVES

The course intends to explore process of construction activities, supervision of construction, appropriate use of building materials and preparation of detailed drawings to be used for construction by understanding various structural concepts and properties of building materials. The course also includes site visits, case studies and measure drawings of various stages of construction.

- To introduce structural concepts of various parts of buildings
- To introduce construction techniques
- To explain construction details through case studies
- To explain process of construction and supervision

OUTCOME

- Students will understand the different construction detailing done on site as per the requirement of site ,scale of the project, various situations , climate and areas .This will give them a basic idea through which they can understand the construction process when they visit the site .
- Students come to know Various types of foundations in different soils ,retaining walls , staircases ,steel connections , excavations and dewatering methods , reinforcement details, formwork details, construction joint, water bars, waterproofing ,Details ,fixing details , connection details etc thoroughly.
- Will be able to explore and understand various building materials and their external and internal applications through Market survey.
- Students will be capable to supervise and check the construction sites as per given design and detailing by structural designer .

Teaching Scheme & Marking Evaluation

THIRD YEAR ARCHITECTURE ENGINEERING – CBCS PATTERN

SEMESTER – V																									
Sr. No	Course (Subject Title)	TEACHING SCHEME									EXAMINATION SCHEME														
		THEORY			TUTORIAL			PRACTICAL/ST U			THEOR Y					VIVA-VOCE			TERM WORK						
		Credits	No. of Lectur	Hours	Credits	No. of Lectur	Hours	Credits	No. of Lectur	Hours	Hours	Mode	Marks	Total Mark	Min	Hours	Max	Min	Hours	Max	Min				
1	PC – 501**	1	1	1				9	6	6															
2	BS & AE –502 *	1	1	1				4.5	3	3	3	ESE	80	80	36	As per BOS Guidelines	100	45	6	100	50	3	70	35	
3	BS & AE –503 **	3	3	3							3	ESE	80	80	36								20	10	
4	PC – 504**	1	1	1				1	2	2	3	ESE	80	80	36							2	20	10	
5	PC – 505**	1	1	1				1	2	2	3	ESE	80	80	36							2	20	10	
6	BS & AE – 506	1	1	1				1	2	2	2	ESE	50	50	23							2	50	25	
7	PC – 507	1	1	1				1.5	3	3		-	-	-								3	50	25	
8	PC – 508	1	1	1				1	2	2	2	ESE	50	50	23							2	50	25	
	TOTAL	10	10	10				19	20	20			420				200					380			

Criteria Based Assessment and Grading of Students Performance

Grade :

Grades	Interpretation
A	Clear attainment of all course objectives, showing complete and comprehensive understanding of the course content, with development or relevant skills and intellectual initiative to an extremely high level.
B	Substantial attainment of most course objectives, showing a high level of understanding of the course content, with development of relevant analytical and interpretive skills to a high level.
C	Sound attainment of some major course objectives, with understanding of most of the basic course content and development of relevant skills to a satisfactory level.
D	Some attainment of a range of course objectives, showing a basic understanding of course content with development of relevant skills

Grades	A	B	C	D	E
Major objectives achieved	ALL	ALL	MOST	SOME	FEW OR NONE
Minor objectives achieved	ALL	MOST	SOME	SOME	FEW OR NONE

Proposed Criteria Based Assessment in Architecture for building technology Specific(Over all)

1) Graphical detailing & structural concepts 2) construction techniques 3) Proposal & Recommendations 4) Exploring new material

Name of The Student	Sr.No	Assignment / Task	Time Frame	Criteria Based Assessment and Grading of Students Performance					
				Fail	Poor	Average	Good	Excellent	Grade
	A)	Graphical understanding and construction detailing. (Structural concepts)							
	01	Staircases <ul style="list-style-type: none"> • Timber staircase – joinery details. • R.C.C. staircase – various types (plain soffit, folded soffit, raker beam, cantilever etc.) • Composite staircase – constructional details • Steel staircase – various types. 							
	02	Pile foundation and its types							
	03	Retaining wall and its types							
	04	Steel connections and its market forms							
	05	Glass curtain wall and structural glazing							
	06	Material -thermal insulating material Ferrous and non-ferrous material Alloys and its types in notes format.							
	b)	Sketches (construction techniques , initial level Field visit analysis on sketch book)							
	07	Sketches of the construction details of the above mentioned topics with the understanding of the construction process on the field itself.							
	c)	Market survey analysis & presentation (exploring the new material in trends)							
	08	Claddings- Various cladding materials, Construction details of claddings and its application on site , trends in market.							

	d)	Proposal & Recommendations (Final Output)							
	09	Pre final submission of all declared heads.(final portfolio and report)							
	10	Final submission of all declared heads.(final portfolio and report)							
	e)	Final Grade							

Course : Building Construction And Material–V Assessment Sheet based on criteria based performance evaluation

	Fail Inadequate	Poor Developing	Average Adequate	Good Accomplished	Excellent Mastery	Obtained Grade Stage wise
	Marking Grade - E	Marking Grade - D	Marking Grade - C	Marking Grade - B	Marking Grade - A	
Sketches (construction techniques , initial level field visit analysis)	Assessment Remarks					
20 % Visualizing the different construction detailing done on site as per the requirement of site ,scale of the project, various situations , climate and areas through understanding the construction process by visiting the site.	Does not attempt or is unable to visit the sites .	Site visits done , no sketches presented and no understanding of the subject .	Site visit done with basic understanding and raw sketching .	Site visit done with understanding and need to develop to present it in the sketches .	Site visit done with sketches and detailing w.r.t to the subject and analysing the work and presenting it in class with a thorough understanding.	
Graphical detailing & structural concepts with excellent drafting skills	Assessment Remarks					
	Does not attempt or is	Limited understanding of	Basic structural	Clear understanding of	Advanced understanding of	

<p>40 %</p> <p>Preparation of the assigned sheets including Various types, reinforcement details, formwork details, construction Details ,fixing details , connection details etc by understanding of structural concepts on regular bases.</p>	<p>unable to complete the sheets.</p>	<p>the structural concepts and lack of drafting skills.</p>	<p>concepts understanding and limited skills to present it graphically on sheets.</p>	<p>structural concepts , limited constructional detailing and good drafting skills.</p>	<p>Of structural concepts and quality work of graphical presentations and quality drafting skills .</p>	
<p>Market survey analysis & presentation</p>	<p>Assessment Remarks</p>					
<p>20 %</p> <p>Market analysis through physical survey as well as online survey , urge for exploring new materials ,latest trends in markets and the methods of application of the same on construction sites.</p>	<p>Does not attempt or is unable to complete the survey.</p>	<p>Limited surveys and analysis, no attendance and participation in the class presentations of the same topic .</p>	<p>Basic analysis of the survey with no urge of exploring new trends and construction practices.</p>	<p>High levels of market analysis ,survey and exploration of new materials and understanding of its application.</p>	<p>Excellent levels market analysis ,survey and exploration of new materials and understanding of its application. Reliably fulfils and exceeds all daily progress, attendance and participation requirements. Unfailingly shows evidence of self-disciplined critical response through sustained, relevant research, rigorous sketchbook.</p>	
<p>Communication And final output</p>	<p>Assessment Remarks</p>					
<p>20 %</p> <p>Communicate the final solutions using architectural presentation materials and techniques.</p>	<p>Does not attempt, or is unable to complete the final sheet presentation.</p>	<p>Significant problems with presentation materials and/or techniques resulting in unsuccessful level of communication. Major errors, omissions and understanding of various structural concepts , consistency or quality problems in drawings & process. Poor verbal communication</p>	<p>Basic competence in presentation materials and techniques resulting in an acceptable level of general completeness. Presentation materials showing basic sheets and materials .No major errors, omissions, consistency or quality</p>	<p>Advanced achievement in presentation materials resulting in successful communication of systematic consistency. Presentation materials comprehensive, detailed and well organized with minimal minor errors and requiring no further explanation. Verbal</p>	<p>Exemplary presentation in materials and verbal presentation resulting in highly effective communication of clarity, detail and precision. Presentation materials at portfolio quality suitable for transfer. No errors or omissions. Verbal communication highly effective resulting in</p>	

		inhibiting discussion beyond rudimentary level.	problems in drawings, process or models. Verbal communication understandable	communication well planned and executed and effective resulting in further discussion	advanced discussion of design solution.	
100 % Work Completed stage wise						

**FOURTH YEAR ARCHITECTURE
ENGINEERING – CBCS PATTERN**

SEMESTER –VII																					
Sr. No	Course (Subject Title)	TEACHING SCHEME									EXAMINATION SCHEME										
		THEORY			TUTORIAL			PRACTICAL/STUDIO			THEORY					VIVA-VOCE			TERM WORK		
		Credits	No. of Lecture	Hours	Credits	No. of Lecture	Hours	Credits	No. of Lecture	Hours	Hours	Mode	Marks	Total Marks	Min	Hours	Max	Min	Max	Min	
1	PC – 701 ** Adv. Arch. Design	1	1	1				9	6	6								100	45	100	50
2	PC – 702 Env. Planning & Urban Design	1	1	1				2	3	3								100	45	100	50
3	PC-703 Adv. Bldg. Specification, Valuation and Project Management System	1	1	1				2	3	3	3	ESE	100	100	45			50	23	50	25
4	BS & AE 704 Adv. Structure – I	3	3	3							3	ESE	100	100	45					50	25
5	PE – 705 ** Urban and Regional Planning	1	1	1				1	2	2	3	ESE	100	100	45	As per BOS Guidelines				50	25

Criteria Based Assessment and Grading of Students Performance

Grade :

Grades	Interpretation
A	Clear attainment of all course objectives, showing complete and comprehensive understanding of the course content, with development or relevant skills and intellectual initiative to an extremely high level.
B	Substantial attainment of most course objectives, showing a high level of understanding of the course content, with development of relevant analytical and interpretive skills to a high level.
C	Sound attainment of some major course objectives, with understanding of most of the basic course content and development of relevant skills to a satisfactory level.
D	Some attainment of a range of course objectives, showing a basic understanding of course content with development of relevant skills

Grades	A	B	C	D	E
Major objectives achieved	ALL	ALL	MOST	SOME	FEW OR NONE
Minor objectives achieved	ALL	MOST	SOME	SOME	FEW OR NONE

Proposed Criteria Based Assessment in Architecture for Design Subject Specific (Over all)

- 1) Critical Explanation 2) Logical Development 3) Proposal & Recommendations 4) Oral & Graphic Presentation

Note : Performance grade of the Student track under Poor and Good need to be mentor or accelerate on last phase of Design conclusion & Presentaion.

Name of The Student	Sr.No	Assignment / Task	Time Frame	Criteria-Based Assessment and Grading of Student's Performance					
				Fail	Poor	Average	Good	Excellent	Grade
	A)	Assignments							
Name of the student	01	Urban, Regional, and Rural Planning Aim, objectives, and Principles of Planning							
	02	Ancient town planning - Sumerian, Egyptian, Greek, Roman, Indus Valley, Mauryan town planning							
	03	Types of Ancient patterns, Medieval cities in India, outside India Renaissance cities in India and outside India							
	04	Baroque city, Industrial Revolution, Impact of Factory town, City beautiful movement, Plan for the community, Garden city, Satellite town							
	05	Model town, Petric Geddes, Utopian cities, Evolution and classification of cities, density							
	06	Survey – definitions, types, methods							
	07	Zoning – Definition, types, etc.							
	08	Neighborhood – Stein and Perry, Jose Sert, Engelhart, Radburn Idea							
	09	Housing – types, definitions, Agencies for housing, etc.							
	10	Slum – definition, causes, effects, clearance methods							
	11	Transport planning – introduction, definition, form and networking, classification and hierarchy, intersections							
	12	Transport planning – grade separators, other roads, mode characteristics, transport survey, on-street and off-street parking							
	13	Master plan – planning laws and legislation – Eminent domain, police power, objectives of DC, Building bye-laws							
	14	Rural planning – Aim, objectives, need, five year plans, problems of Rural housing							
	15	MRTP Act – Aim and objectives, Development plan, Regional plan							
	B)	Seminars							

Performance grade of the Student track under Good and Excellent need not be more accelerate. Student is performing up to his level of confidence

	01	Urban, Regional, and Rural Planning Aim, objectives, and Principles of Planning							
	02	Ancient town planning - Sumerian, Egyptian, Greek, Roman, Indus Valley, Mauryan town planning							
	03	Types of Ancient patterns, Medieval cities in India, outside India Renaissance cities in India and outside India							
	04	Baroque city, Industrial Revolution, Impact of Factory town, City beautiful movement, Plan for the community, Garden city, Satellite town							
	05	Model town, Petric Geddes, Utopian cities, Evolution and classification of cities, density							
	06	Survey – definitions, types, methods							
	07	Zoning – Definition, types, etc.							
	08	Neighborhood – Stein and Perry, Jose Sert, Engelhart, Radburn Idea							
	09	Housing – types, definitions, Agencies for housing, etc							
	10	Slum – definition, causes, effects, clearance methods							
	11	Transport planning – introduction, definition, form and networking, classification and hierarchy, intersections							
	12	Transport planning – grade separators, other roads, mode characteristics, transport survey, on-street and off-street parking							
	13	Master plan – planning laws and legislation – Eminent domain, police power, objectives of DC, Building bye-laws							
	14	Rural planning – Aim, objectives, need, five year plans, problems of Rural housing							
	15	MRTP Act – Aim and objectives, Development plan, Regional plan							
	e)	Final Grade							

	Fail Inadequate	Poor Developing	Average Adequate	Good Accomplished	Excellent	Obtained Grade Stage wise
	Marking Grade - E	Marking Grade - D	Marking Grade - C	Marking Grade - B	Marking Grade - A	
Assignments	Assessment Remarks					
	Not attempted.	Not consistent/irregular – affect the work progress	Regular but lack of clear understanding and process/Methodology through writing notes	Regular and good understanding of the subject. Clear the conceptual thought reflects in assignments	Very good understanding of the subject and concepts.	
Seminars	Assessment Remarks					
Base understanding and clarity of concept idea through oral presentation	Being absent	Irregularity reflects in the understanding of process and concepts during the seminar	understanding of the process reflects	A clear understanding of the subject and method reflects	A very clear and good thought process developed reflects in the explanation.	
100 % of Work Completed stage wise						

APPASAHEB BIRNALE COLLEGE OF ARCHITECTURE

Bachelor of Architecture

PROJECT MANAGEMENT(ELE-II)

Semester –10 Academic year 2022- 2023

Course Information

MAGS306

ADVANCED ARCHITECTURAL DESIGN STUDIO – III

CATEGORY	SUBJECT	TEACHING SCHEME			EXAMINATION SCHEME (MARKS)				CREDITS
		LECTURE	STUDIO	TOTAL	PAPER	SESSI.	VIVA	TOTAL	
STU	PROJECT MANAGEMENT(ELE-II)	02	02	04	0	75	75	150	7

Course Description, Objectives and Outcome

The course Project Management deals with Introduction and necessity of project Management, Purpose, goal and objective of project management. The course Project Management ,includes different management techniques suitable for planning and construction projects.

The course will develop an understanding of the management system for accomplishing the task efficiently in the term of both time and cost.

The role of Project Management in an Architect's professional life can be multifarious depending upon type of consultancy, owner ship of term etc.

The most common one are as follows:

Office Management : Managing his/her own office and field staff, staffing, allocating space, funds, equipment, etc. Establishing, managing and promoting ones business.

Design Management : Coordinating with all the stakeholders, consultants and others having a say in design processing order to arrive at a final program in a timely and efficient manner.

Project Management : The scope of activities will depend upon the Project Delivery Method deployed but broadly deals with all the activities concerned with the implementation process subsequent to the preparation of design and construction drawings.

Course Objectives :

- The student will understand different management techniques suitable for planning and Constructional Projects.
- To understand the management system to overcome the problems like Cost over runs, missed dead lines , quality/safety issues and lack of planning by construction firm leading to loss of returns and customers/shareholder's trust.

Course Outcomes :

- Enumerate the attributes of a project, phases in project cycle, stake holders involved and their management.
- Prepare project schedule through identification of critical tasks and path in a project.
- Discuss the tools and skill-sets required for managing office set-ups.

• Teaching Scheme & Marking Evaluation

FIFTH YEAR B.ARCH.: SEMESTER -X

Sr. No	Name of the subject	Teaching Scheme			Examination Scheme			Total Marks
		Lectures per week	Studios per week	Duration of Theory papers in hrs	Sessional Work (Internal)	Theory Paper	Oral	
1.	Arch. Project-III (Final Design and Presentation drawings /report)	01	08	-	200	-	200	400
2.	Adv. Building Construction & Materials	02	04	03	100	100	100	300
3.	Elective-I	02	02	-	75	-	75	150
	Architectural Conservation							
	Disaster management							
	Building Economics And Sociology							
	Industrial Architecture							
	Sustainable Architecture							
4.	Elective-II	02	02	-	75	-	75	150
	Digital Architecture							
	Vernacular Architecture							
	Energy conservation and non conventional sources of energy							
	Contemporary Architecture							
	Project Management							

Criteria Based Assessment and Grading of Students Performance

Grades :

Grades	Interpretation
A	Clear attainment of all course objectives, showing complete and comprehensive understanding of the course content, with development or relevant skills and intellectual initiative to an extremely high level.
B	Substantial attainment of most course objectives, showing a high level of understanding of the course content, with development of relevant analytical and interpretive skills to a high level.
C	Sound attainment of some major course objectives, with understanding of most of the basic course content and development of relevant skills to a satisfactory level.
D	Some attainment of a range of course objectives, showing a basic understanding of course content with development of relevant skills

Grades	A	B	C	D	E
Major objectives achieved	ALL	ALL	MOST	SOME	FEW OR NONE
Minor objectives achieved	ALL	MOST	SOME	SOME	FEW OR NONE

Proposed Criteria Based Assessment in Architecture for Project Management (ELE-II)

- 1) Assignment questions
- 2) Group Presentation
- 3) Detail estimation for material and Labor schedule
- 4) Role of town planning department and municipal corporation
- 5) Brick work quantity and Specification
- 6) Construction equipment study
- 7) Bar chart and cash flow
- 8) SWOT analysis and Site preparation layout plan

Name of The Student	Sr.No	Assignment / Task	Time Frame	Criteria Based Assessment and Grading of Students Performance					
				Fail	Poor	Average	Good	Excellent	Grade
	A.	Group Presentation							
		<ul style="list-style-type: none"> • Introduction and Necessity of Project Management, Purpose, Goal and Objectives of Project Management. • Fundamentals of Project Management, Planning • Scheduling (WBD and Times Schedule), Controlling and reviewing • Traditional Management, Bar/Gantt's Chart, Load chart • Merits and Demerits of Bar/Gantt's Chart , SWOT • Introduction to Modern Management System Concept, CPM • Network, Concept of event, Activity, Time Estimates, Float slacks • Introduction of PRT , Varies Estimates ,Qualities of good project manager, Types of Managements in PM • Difference between CPM And PERT Technique , Site Layout for Construction works, Site office and Management, List of activities in building Construction Project • Application of Computers in Project Management for Calculation of Material and Labour requirement using Abstract sheet 	15/03/2022 20/05/2022						
	B.	Detail Estimation for Material and Labour schedule							
		Detail Estimation of Shetkari Nivas Building (Fourth year design project) Fruit and vegetable market attach with as follows : <ol style="list-style-type: none"> 1. Floor plans 2. Sections 3. Elevations 4. Measurement and Abstract sheet 5. Using M.S. Project software – Bar/Gantt charts, milestone 6. Material Schedule 7. Labor schedule of Brick work Quantity as per given assignment 4 	15/03/2022 24/05/2022						
	C.	Role of Town planning department and Municipal corporation	08/04/2022						
	D.	Construction Equipment Study	06/05/2022						

	E.	Brick work quantity and Specification	22/04/2022						
	F.	Equipment study	13/05/2022						
	G.	Bar charts and Cash flow	24/05/2022						
	H.	SWOT analysis and Site Preparation layout plan	02/06/2022						
		Final Grade							

Note : Performance grade of the Student track under Poor and Good need to be mentor or accelerate on last phase of Design conclusion & Presentation.

Course : PROJECT MANAGEMENT Assessment Sheet based on criteria based performance evaluation

STUDENT NAME	Fail Inadequate	Poor Developing	Average Adequate	Good Accomplished	Excellent Mastery	Obtained Grade Stage wise
	Marking Grade - E	Marking Grade - D	Marking Grade - C	Marking Grade - B	Marking Grade - A	
Detail Estimation for labour and material schedule, Specifications	Assessment Remarks					
<p>40 % Understand the management system to overcome the problems like Cost over runs, missed deadlines, quality/safety issues and lack of planning by construction firm leading to loss of returns and customers/shareholder's trust.</p>	Does not attempt or is unable to complete Cost overruns. Fail to attempt the material schedule and labour schedule.	Unsuccessful Project solution due to lack of management technique Use of concept, limited exploration of technique and/or application of principles.	Fundamentally the problems like Cost over runs, missed deadlines , quality/safety issues and lack of planning in construction projects with moderate solution	Interesting management solution showing consistently creative development of modern management technique and original application of principles. Solution shows ongoing technique and exploration cost ,time and quality Effective results.	Compelling showing detail measurement and abstract sheet showing end result. Solution shows the end budget of effective result with modern management.	
Bar chart , Cash flow Modern management technique	Assessment Remarks					
<p>20 % The student will understand different management techniques suitable for planning and Constructional Projects.</p>	Fail to attempt the different project management techniques.	Limited understanding of project management techniques like Traditional management techniques and Modern management techniques	Basic concept and function of management like Traditional management techniques and Modern management techniques	Clear understanding of time, cost and quality with the help of these charts. Minor problems with scale, materiality, sequence, circulation, enclosure and or	Advanced understanding of experiential projects to learn time ,cost and quality of project management	
SWOT analysis and Site preparation Layout	Assessment Remarks					

<p>20 % Managing his/her own site office and field staff, staffing, allocating space, funds, equipment, etc. Establishing, managing and promoting ones business.</p>	<p>Fail to attempt the site visit and field work</p>	<p>Limited understanding of Managing his/her own site office and field staff, staffing, allocating space, funds, equipment</p>	<p>Basic concept clears to establishing, managing and promoting construction projects.</p>	<p>Excellent levels of enumerate the attribute of project, phases in project life cycle, stakeholders involved and their management</p>	<p>Consistently shows evidence of critical response through regular research, Establishing, managing and promoting ones business.</p>	
<p>Communication</p>	<p>Assessment Remarks</p>					
<p>20 % Communicate all managements in construction projects like material, labour, risk, quality etc. All solutions effectively using project management materials and techniques.</p>	<p>Does not attempt, or is unable to complete effective solutions.</p>	<p>Significant problems with presentation materials and/or techniques resulting in unsuccessful level of project managing communication. Major errors, omissions, consistency or quality problems Poor verbal communication inhibiting discussion beyond rudimentary level.</p>	<p>Basic competence in presentation materials and techniques resulting in an acceptable level of communication. major errors, omissions, consistency or quality problems in process of project.</p>	<p>Advanced achievement in presentation materials resulting in successful communication</p>	<p>Exemplary presentation in materials and verbal presentation resulting in highly effective and clarity, detail and precision. Presentation materials at portfolio quality suitable for transfer. No errors or omissions. Verbal communication highly effective resulting in advanced discussion and solution.</p>	
<p>100 % Work Completed stage wise</p>						