

(A State University Estb. by Govt. of Punjab vide Punjab Act No. 5 of 2015 and Approved u/s 2(f) & 12 (B) of UGC; Member AIU)

Department: G.Z.S. SCHOOL OF ARCHITECTURE & PLANNING

MRSPTU

Program: B.Arch

COs, POs, PSOs Mapping

Subject: <u>Architectural Design - I</u>	Subject Code: BARC1-101	Semester: <u>1ST</u>
Credit: <u>6</u>	LST P 2400	Duration: <u>3 Hrs.</u>

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	Knowledge of basic form and elements of Architectural Design.	3	3	2	0	0	0	0	0	1	0	0	2	2	2	1
CO2	Understand Anthropometry and its application in design.	3	0	0	0	0	0	0	0	0	0	0	2	2	2	1
CO3	Distinguish between Architectural Form and Space	3	1	2	2	0	0	0	0	0	0	0	0	1	2	1
CO4	Employ learning's for design spaces which are up to single room.	3	2	3	0	0	0	0	0	1	0	0	0	2	3	1
CO5	Employ skills to enhance indoor aesthetics.	3	2	0	0	0	0	0	0	0	2	0	0	2	3	1
CO6	Knowledge about local level soft and hard landscape elements.	3	2	3	2	0	0	1	0	0	0	0	0	2	3	1

Enter Correction levels 1, 2 or 3 as defined below:

1. Slight (Low) - upto 30% 2. Moderate (Medium) –above 30% and upto 70%



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MRSPTU

Program: B.Arch

COs, POs, PSOs Mapping

Subject: Building Construction - I	Subject Code: BARC1-102	Semester: 1 ST
Credit: <u>5</u>	LST P 2300	Duration: <u>3 Hrs.</u>

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	Understanding the process of building construction from the very first step.	2	3	0	0	0	0	0	3	0	0	0	3	2	1	3
CO2	Understanding skills and equipment used in shaping them with the help of basic construction details.	2	3	0	0	1	0	0	0	3	0	3	3	1	2	2
CO3	Understanding masonry construction details	2	3	2	2	-	0	0	0	2	0	0	2	1	1	3
CO4	Understanding all the components of building construction.	3	2	0	0	2	0	0	0	0	0	0	3	3	1	2
CO5	Developing the understanding of the junction details in masonry.	2	2	0	0	0	2	1	2	0	0	2	0	1	2	3
CO6	Developing the knowledge of components of the brick masonry	2	2	0	0	0	0	2	0	0	0	2	0	1	1	1



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Program: B.Arch

COs, POs, PSOs Mapping

Subject: Architectural Drawing- I	Subject Code: BARC1-103	Semester: <u>1ST</u>
Credit: <u>5</u>	LST P 2300	Duration: 3 Hrs.

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	Draft 2-D and 3-D objects.	3	1	1	0	0	0	0	0	0	0	0	2	2	1	1
CO2	Types of construction of plain and diagonal scales	3	3	2	0	0	0	0	0	0	0	0	2	1	1	1
CO3	Orthographic projections of points	3	2	2	0	0	0	0	0	0	0	0	1	1	1	1
CO4	Isometric views of simple and complex forms.	3	2	0	0	0	0	0	0	0	0	0	2	2	1	1
CO5	Design development of basic forms	2	1	0	0	0	0	0	0	0	0	0	1	1	1	1
CO6	To develop critical and analytic thinking.	1	0	0	0	0	0	0	0	0	0	0	2	1	1	1

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COs, POs, PSOs Mapping

Subject: <u>History of Architecture - I</u>	Subject Code: BARC1-104	Semester: <u>1ST</u>
Credit: 2	LST P 2000	Duration: 3 Hrs.

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	Understanding the basic chronology of historical development in the field of Architecture and civilization.	2	0	0	0	0	0	0	0	0	1	0	1	1	1	2
CO2	Acquainting themselves with the key historical buildings and their characteristic features.	2	1	1	0	0	0	0	1	0	1	0	1	1	1	2
соз	Developing understanding of Architecture through different historical phases.	2	1	1	0	0	0	0	1	0	1	0	1	1	1	1
CO4	Developing understanding of Architecture in Greek Civilization	2	1	1	0	0	0	0	1	0	1	0	1	2	1	1
CO5	Developing understanding of Architecture during Roman period	2	1	1	0	0	0	0	1	0	1	0	1	2	1	2
CO6	Developing understanding of Dravidian Architecture through different phases	2	1	1	0	0	0	0	1	0	1	0	1	1	1	2

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COs, POs, PSOs Mapping

Subject: Visual Communication - I	Subject Code: BARC1-105	Semester: 1 ST
Credit: <u>3</u>	LST P 2002	Duration: 3 Hrs.

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	CO 1: The art of using the potential of pencil	3	2	0	0	0	0	0	0	0	0	0	3	3	2	1
CO2	Colour as a tool of graphic communication.	1	2	3	0	0	0	0	0	0	0	0	3	2	1	1
CO3	To learn of scale elements	0	3	2	0	0	0	0	0	0	0	0	3	2	1	1
CO4	To learn various colour schemes, tints and shades.	3	2	1	0	0	0	0	0	0	0	0	3	2	1	1
CO5	To learn rendering of textures of different building materials in pencil.	3	0	2	0	0	0	0	0	0	0	0	1	2	1	1
CO6	To learn free hand still life sketching in pencil	2	0	1	0	0	0	0	0	0	0	0	0	2	1	1

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COs, POs, PSOs Mapping

Subject: Architectural Communication - I	Subject Code: BARC1-106	Semester: <u>1ST</u>
Credit:2	LST P 1002	Duration: 3 Hrs.

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	Converse fluently, without strain with international speakers of English in an accent and lexis that is widely understood across the globe.	0	0	0	1	0	0	0	1	0	2	0	2	3	3	1
CO2	Architectural reports and texts on their own and shall be able to communicate in a professional manner.	2	0	0	0	0	0	0	1	2	0	0	2	2	2	1
CO3	The qualities of good writing.	0	0	0	0	0	0	0	0	1	3	0	3	2	2	1
CO4	Building up and expansion of vocabulary active use of Architectural vocabulary	2	0	0	1	0	0	0	0	0	3	0	3	2	1	1
CO5	Presentation of various site reports, case studies and methods of holding meetings.	2	0	2	2	0	0	0	0	2	2	0	2	2	2	1
CO6	Preparation of press note of Architectural reports and events.	2	2	1	2	0	0	0	0	-	2	0	2	2	2	1



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Program: B.Arch

COs, POs, PSOs Mapping

Subject: <u>Building Science & Technology - I</u>	Subject Code: BARC1-107	Semester: 1 ST
Credit:1	LST P 1000	Duration: 3 Hrs.

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	Understanding the various building materials used in construction of a building with study of their Constituents, Properties.	1	1	2	0	0	0	0	0	2	0	1	2	2	1	1
CO2	Understanding the Types, Uses & Market rates of building materials.	1	2	0	0	0	0	0	0	0	1	2	1	1	2	1
соз	Understanding the details of Brick masonry & Stone masonry	2	1	0	1	0	0	0	2	0	0	1	2	3	1	1
CO4	Understanding the construction details of locally available materials	1	2	1	1	0	0	0	0	0	0	0	1	1	1	2
CO5	Understanding of relevance of Building science in Architecture	1	2	0	0	0	0	0	1	0	0	1	3	1	2	3
CO6	Knowledge about the natural calamities and its effects on the stability of buildings	2	0	0	0	0	0	1	1	1	0	2	3	1	1	1



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COs, POs, PSOs Mapping

Subject: Model Making - I	Subject Code: BARC1-108	Semester: <u>1ST</u>
Credit:1	LST P <u>0002</u>	Duration: NO EXAM

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	Understand basic carpentry techniques.	2	1	0	0	0	0	0	0	0	0	0	2	3	2	2
CO2	Knowledge of Joinery techniques and various model making techniques.	2	1	0	0	0	0	0	0	0	0	0	2	2	2	2
соз	Understand methods using different materials.	2	1	0	0	0	0	0	0	0	0	0	2	2	3	1
CO4	Tools used in carpentry.	2	1	0	0	0	0	0	0	0	0	0	2	1	1	1
CO5	Model making techniques using different materials.	2	1	0	0	0	0	0	0	0	0	0	3	2	2	2
CO6	Methods of Preparations of Model	2	1	0	0	0	0	0	0	0	1	0	2	2	2	2

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Program: B.Arch

COs, POs, PSOs Mapping

Subject: Architectural Design - II	Subject Code: BARC1-209	Semester: 2 ND
Credit: <u>6</u>	LST P 2400	Duration: <u>6 Hrs.</u>

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	Enable to distinguish constraints in the Architectural design of a small scale building with reference to function, form and site.	3	2	0	1	0	0	0	0	0	0	0	0	2	3	1
CO2	Employ learning's to relate the function and physical form with the surrounding site and environment.	3	1	0	2	0	0	0	0	0	0	0	0	2	3	1
CO3	Design space up to small residential and commercial spaces.	3	2	3	3	1	0	0	0	0	0	0	0	2	3	1
CO4	Knowledge to relate site level vehicular movement with the built mass.	3	2	1	0	0	0	0	0	0	0	0	0	2	3	1
CO5	Understand about different type of parking lots and their design.	2	1	3	0	0	0	0	0	0	0	0	0	2	3	1
CO6	Understand the role of resident's behavior and expectations towards space design.	2	0	0	3	0	0	0	0	0	3	0	0	2	3	1

and upto 70%



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Program: B.Arch

COs, POs, PSOs Mapping

Subject: Building Construction - II	Subject Code: BARC1-210	Semester: 2 ND
Credit: <u>5</u>	LST P 2300	Duration: 3 Hrs.

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	Detailing of various components of structure	2	3	0	0	1	0	0	0	0	0	0	3	3	2	1
CO2	Knowing about the detailing doors and windows	2	2	2	0	1	0	0	0	1	0	0	2	1	1	1
CO3	Knowing about the detailing types of roofs and floors.	2	2	2	0	1	0	0	0	0	0	1	2	1	2	2
CO4	Knowledge about the sequence of activities for execution of the building	3	3	0	0	1	0	0	0	0	0	0	2	1	1	2
CO5	Understanding the types of the door and their implementations	2	2	0	0	1	0	0	2	0	0	0	2	1	2	1
CO6	Knowledge of the sectional details of various components	2	3	2	0	-	0	0	0	0	0	0	3	1	1	3

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Program: B.Arch

COs, POs, PSOs Mapping

Subject: Architectural Drawing- II	Subject Code: BARC1-211	Semester: 2 ND
Credit: <u>5</u>	LST P 2300	Duration: 3 Hrs.

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	Draw perspectives of various forms	3	0	2	0	0	0	0	0	0	0	0	1	2	3	1
CO2	Sciography in plans and elevations.	3	0	1	0	0	0	0	0	0	0	0	1	3	3	1
CO3	Visualize and convert his/her thoughts and ideas of design into 3-D forms.	2	0	2	0	0	0	0	0	0	0	0	2	2	2	1
CO4	Construction of interior perspectives	3	2	2	0	0	0	0	0	0	0	0	3	3	2	1
CO5	Basic understanding of Orthographic projections.	2	0	2	0	0	0	0	0	0	0	0	2	2	2	1
CO6	Draw isometric views.	3	1	3	0	0	0	0	0	0	0	0	3	2	2	1

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COs, POs, PSOs Mapping

Subject: Visual Communication - II	Subject Code: BARC1-212	Semester: 2 ND
Credit: 3	LST P 2002	Duration: 3 Hrs.

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	The fundamentals of sketches and perspectives.	3	0	3	0	0	0	0	0	0	0	0	3	3	2	1
CO2	Writing styles in calligraphy.	0	0	1	0	0	0	0	0	0	0	0	1	3	2	1
CO3	Rendering of perspective views in all colour mediums.	2	0	2	0	0	0	0	0	0	0	0	2	2	2	1
CO4	Sketching and rendering of various scenes.	3	0	1	0	0	0	0	0	0	0	0	3	2	2	1
CO5	Outdoor free hand sketching of trees, shrubs, simple buildings, human figures.	3	0	ı	0	0	0	0	0	0	0	0	3	1	2	1
CO6	Use of various colouring mediums i.e., pencil colours, oil pastels, crayons and water colours etc.	3	0	2	0	0	0	0	0	0	0	0	3	2	2	1

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Program: B.Arch

COs, POs, PSOs Mapping

Subject: Theory of Design	Subject Code: BARC1-213	Semester: 2 ND
Credit:2	LST P 2000	Duration: 3 Hrs.

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	Understand the relationship between configuration of form and space.	3	0	1	2	0	0	0	0	0	0	0	0	1	3	1
CO2	Knowledge to appreciate the quality of architectural spaces.	3	0	0	3	0	0	0	0	0	1	0	2	2	3	1
соз	Employ skills to articulate building forms and surrounding spaces.	3	0	3	0	0	0	1	0	0	2	0	0	2	3	1
CO4	Design for the provision of opening, circulation spaces within the built mass.	3	2	3	0	1	0	3	0	0	0	0	0	2	3	1
CO5	Distinguish between regular and irregular forms through collision and articulation	3	3	3	0	1	0	0	0	2	0	0	0	2	3	1
CO6	Understand the visual properties of forms.	3	1	0	3	0	0	0	0	0	2	0	0	2	3	1

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Program: B.Arch

COs, POs, PSOs Mapping

Subject: <u>Structure Design - I</u>	Subject Code: BARC1-214	Semester: 2 ND
Credit:2	LST P 1010	Duration: 3 Hrs.

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	Understand the concept of stress and strain	2	2	3	2	0	0	0	0	0	0	0	1	1	2	1
CO2	Understand the concept of shear stress and bending moment and determine it for various types of beams.	2	2	3	2	0	0	0	0	0	0	0	1	2	2	3
соз	An ability to get confidence to analyze and design masonry structure.	1	1	3	0	0	0	0	0	0	0	0	1	2	3	3
CO4	An ability to understand and analyze the design concept.	2	1	3	2	0	0	0	0	0	0	0	0	2	3	3
CO5	An ability to apply theoretical knowledge to solve practical problems.	1	0	3	0	0	0	0	0	0	0	0	0	2	3	2
CO6	Understanding about the strength and behavior of masonry structures	2	0	3	0	0	0	0	0	0	0	0	1	2	2	3



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COs, POs, PSOs Mapping

Subject: Building science and technology - II	Subject Code: BARC1-215	Semester: 2 ND
Credit:1	LST P 1000	Duration: <u>3Hrs</u>

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	Understanding the basic behavior of soil w.r.t, foundations.	0	1	0	2	0	0	1	0	0	3	0	0	1	1	2
CO2	Knowledge about of various finishes to be applied to building surface.	2	2	0	0	1	0	0	0	0	2	0	0	3	1	1
соз	Understanding of Materials and finishes available in the market under different trade names to study their properties, uses etc.	2	1	0	1	0	0	0	0	0	0	2	1	3	1	2
CO4	Understanding of the market price of different materials.	0	1	0	1	2	0	0	0	0	0	0	2	1	1	1
CO5	Understanding of characteristics of soil.	0	1	0	2	0	1	0	0	0	0	2	0	1	2	2
CO6	Knowledge of all classification of surface finishes.	1	2	0	1	2	0	0	0	0	0	0	2	2	2	1



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COs, POs, PSOs Mapping

Subject: Structure System -I	Subject Code: BARC1-216	Semester: 2 ND
Credit:1	LST P 1000	Duration: NO EXAM

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	The predominantly pictorial nature of an Architect's language.	2	3	0	0	0	0	0	0	0	0	0	2	1	1	1
CO2	The physical-mechanical essence of the subject matter.	2	3	0	0	0	0	0	0	0	0	0	2	1	1	1
соз	The orientation of all Architectural efforts to Form and Space.	3	2	1	0	0	0	0	0	0	0	0	2	1	1	3
CO4	Learn various load distribution systems	1	2	3	0	0	0	0	0	0	0	0	0	1	1	2
CO5	Learn various structure Systems	1	2	0	0	0	0	2	1	0	0	0	1	1	1	2

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COs, POs, PSOs Mapping

Subject: Architectural Design - III	Subject Code: BARC1-317	Semester: 3 RD
Credit: <u>6</u>	LST P 2400	Duration: 12 Hrs.

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	Distinguish and appreciate the constraints of the site in the evolution of design for small building projects.	2	1	3	2	0	0	0	0	0	0	0	0	2	3	1
CO2	Knowledge to handle the flow of masses in buildings like primary school, dispensary, convenience shopping etc.	3	2	1	2	0	0	0	0	0	0	0	0	2	3	1
соз	Employ barrier free design for buildings and adopt Universal Design.	3	1	0	2	1	3	1	0	0	0	0	3	3	3	2
CO4	Understand climate responsive architecture.	3	2	2	2	3	2	3	2	0	0	0	3	3	2	2
CO5	Design of spaces which are under the preview of urban regulatory controls.	3	3	2	0	1	0	0	0	0	0	0	0	3	2	1
CO6	Understand the role of design development stages in the final outcome.	2	1	3	0	0	0	0	1	0	0	0	0	1	3	1



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Department: G.Z.S. SCHOOL OF ARCHITECTURE & PLANNING

MRSPTU

Program: B.Arch

COs, POs, PSOs Mapping

Subject: Building Construction - III	Subject Code: BARC1-318	Semester: <u>3RD</u>
Credit: <u>5</u>	LST P 2300	Duration: <u>3 Hrs.</u>

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	Understanding the process of RCC construction.	1	2	0	1	0	0	0	2	0	0	0	3	1	1	2
CO2	Understanding the components of a building, skills and equipment used in shaping them with the help of basic construction details.	2	2	1	1	0	0	0	0	0	0	2	0	2	1	2
CO3	Understanding the details of the R.C.C. construction.	1	2	1	1	1	0	0	0	0	0	0	3	1	3	1
CO4	Detailing out various R.C.C construction details.	2	1	1	2	2	0	0	2	0	0	0	2	1	1	2
CO5	Knowledge of the concept of retaining walls	1	1	0	0	0	0	1	0	0	0	2	2	1	1	1
CO6	Understanding the various types of Foundations in R.C.C. and their applications.	1	2	0	2	0	0	0	0	0	0	0	2	1	2	1

Enter Correction levels 1, 2 or 3 as defined below:

1. Slight (Low) - upto 30% 2. Moderate (Medium) –above 30% and upto 70%



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Department: G.Z.S. SCHOOL OF ARCHITECTURE & PLANNING

MRSPTU

Program: B.Arch

COs, POs, PSOs Mapping

Subject: History of Architecture- II	Subject Code: BARC1-320	Semester: <u>3RD</u>
Credit: <u>2</u>	LST P 2000	Duration: 3 Hrs.

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	Understanding basic chronology of historical development in the field of Architecture & civilization.	2	0	0	0	0	0	0	0	0	1	0	1	1	1	2
CO2	Acquainting themselves with the key historical buildings of various periods of Architectural history & their characteristic features.	2	1	1	0	0	0	0	1	0	1	0	1	1	1	2
соз	Developing understanding of sketching & understanding of historical buildings, historical analyses & measured drawings.	2	1	1	0	0	0	0	1	0	1	0	1	1	1	1
CO4	Developing understanding of Early Christian, Byzantine, Romanesque & Gothic Architecture	2	1	1	0	0	0	0	1	0	1	0	1	2	1	1
CO5	Developing understanding of Renaissance Architecture of Italy.	2	1	1	0	0	0	0	1	0	1	0	1	2	1	2
CO6	Developing understanding of Islamic Architecture	2	1	1	0	0	0	0	1	0	1	0	1	1	1	2



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Department: G.Z.S. SCHOOL OF ARCHITECTURE & PLANNING

MRSPTU

Program: B.Arch

COs, POs, PSOs Mapping

Subject: Structure Design - II	Subject Code: BARC1-321	Semester: <u>3RD</u>
Credit:2	LST P 1010	Duration: 3 Hrs.

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	Learn the basic knowledge of concrete structure	3	0	0	0	0	0	0	0	0	0	0	1	1	1	2
CO2	Identify analyze and compute the design load on typical concrete structures.	2	0	2	0	0	0	0	0	0	0	0	0	2	2	2
CO3	Identify the different failure modes of columns, beam and slab along their design strength.	2	1	3	0	0	0	0	0	0	0	0	0	3	3	3
CO4	Design and select the most suitable section and size for column, beam and slab using modern methods, tools and techniques.	2	2	3	0	2	0	0	0	0	0	0	0	3	3	3
CO5	Analyze the data & give solution of the problems with sustainable development	2	3	1	0	0	0	2	0	0	0	0	0	3	3	3
CO6	Apply relevant Indian Standard Codal provisions to ensure safety & serviceability of structural concrete elements for design developments & learning.	2	0	3	0	0	0	0	0	0	0	0	2	3	3	3



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Department: G.Z.S. SCHOOL OF ARCHITECTURE & PLANNING

MRSPTU

Program: B.Arch

COs, POs, PSOs Mapping

Subject: Surveying & Levelling - I	Subject Code: BARC1-322	Semester: <u>3RD</u>
Credit:2	LST P 1002	Duration: 3 Hrs.

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	Carry out preliminary surveying in the fields before start of construction	2	1	1	1	0	0	0	0	0	0	0	0	1	2	3
CO2	Taking accurate measurements, field booking, plotting and adjustment of traverse use various conventional instruments involved in surveying with respect to utility.	0	2	0	0	2	0	0	0	0	0	0	0	1	2	2
соз	Precisely plan a survey for application such as height of the building undertake measurement and plotting	0	1	2	1	2	1	0	0	0	0	0	0	2	1	3

Enter Correction levels 1, 2 or 3 as defined below:

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Department: G.Z.S. SCHOOL OF ARCHITECTURE & PLANNING

MRSPTU

Program: B.Arch

COs, POs, PSOs Mapping

Subject: Building science and technology - III	Subject Code: BARC1-323	Semester: <u>3RD</u>
Credit:2	LST P 2000	Duration: <u>3Hrs</u>

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	Application of the concepts of climatology in architectural design projects.	0	2	0	1	0	0	1	0	0	1	0	3	1	2	1
CO2	Application of the design principles so as to achieve energy conservation in buildings through passive techniques.	0	2	0	2	0	0	0	0	0	0	0	2	1	1	3
CO3	Application of the concepts of Bio-climatic chart	0	1	0	2	0	0	0	0	1	1	0	2	2	1	1
CO4	Application of the concepts of architecture into the design.	1	1	0	2	1	0	2	0	0	0	0	1	2	2	3
CO5	Understanding the concept of Thermal Comfort	1	1	0	2	0	0	0	0	0	0	0	2	1	1	2
CO6	Knowledge about the flow of heat through buildings	1	2	0	1	1	0	1	0	0	0	1	0	1	3	1

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Department: G.Z.S. SCHOOL OF ARCHITECTURE & PLANNING

MRSPTU

Program: B.Arch

COs, POs, PSOs Mapping

Subject: Soft skill Development	Subject Code: BARC1-216	Semester: <u>3RD</u>
Credit:2	LST P 0000	Duration: NO EXAM

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	Auto Cad as a Computer Aided Drafting Technique.	1	1	2	0	0	0	0	0	0	0	0	2	3	2	1
CO2	Basic commands like copy, paste, stretch, offset, move fillet, extend, trim and other 2D commands.	1	2	2	0	0	0	0	0	0	0	0	2	3	2	1
CO3	Drawing the basic Plans, Sections, and Elevations.	2	0	2	0	0	0	0	0	0	0	0	2	3	2	1
CO4	Auto Cad and Units.	0	0	0	0	1	0	0	0	0	0	0	1	2	2	1
CO5	Advanced rendering Photoshop and in other 2D Software.	0	0	0	0	2	0	0	0	0	0	0	2	2	1	1
CO6	3-D Modelling of Multiple Building in a Single Site, Camera View of the Buildings.	2	0	2	0	2	0	0	0	0	0	0	3	2	1	1

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Department: G.Z.S. SCHOOL OF ARCHITECTURE & PLANNING

MRSPTU

Program: B.Arch

COs, POs, PSOs Mapping

Subject: Architectural Design - IV	Subject Code: BARC1-425	Semester: <u>4TH</u>
Credit: <u>6</u>	LST P 2300	Duration: 12 Hrs.

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	Understand the significance of contextual factors in architecture through design of climate responsive architecture.	3	2	0	3	2	0	2	0	0	0	0	0	1	3	2
CO2	Knowledge about vernacular and rural architecture spread across north India.	2	1	0	3	0	0	1	1	2	0	0	3	1	1	3
соз	Knowledge through educational tour to historical sites, one shall have an in depth knowledge of regional architecture.	2	1	0	3	0	0	1	0	3	0	0	2	1	1	2
CO4	Understand about the influence of social and cultural environment on architectural design.	2	0	0	3	0	0	2	1	0	2	0	3	2	2	2
CO5	Employ learning's from detailed study of a vernacular settlement in documentation process.	2	0	0	3	0	0	1	0	2	1	0	3	1	2	3
CO6	Distinguish between different physical planning and other geomorphic factors.	0	1	0	3	0	0	2	0	0	0	0	0	1	1	2



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Department: G.Z.S. SCHOOL OF ARCHITECTURE & PLANNING

MRSPTU

Program: B.Arch

COs, POs, PSOs Mapping

Subject: Building Construction - IV	Subject Code: BARC1-426	Semester: <u>4TH</u>
Credit: <u>5</u>	LST P 2202	Duration: <u>3 Hrs.</u>

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	Understanding the Timber components of a building.	1	2	0	0	2	0	0	0	0	1	0	1	1	2	1
CO2	Understanding the traditional/Contemporary construction methods of a single storied building in timber.	2	1	1	0	1	0	0	0	0	2	0	2	1	1	3
CO3	Understanding the various timber roof structures.	2	2	0	0	2	0	0	0	0	0	3	3	2	1	1
CO4	Knowledge of the details of the various in timber construction components	1	2	2	0	2	0	0	0	0	1	0	0	2	2	1
CO5	Understanding the implementations of sliding and folding timber doors	1	1	0	0	0	0	0	1	0	0	2	2	2	1	1
CO6	Having the knowledge about the usage of cladding with Timber and Timber products in Interior and Exterior	2	2	0	0	1	0	0	0	1	0	1	1	1	2	3



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Department: G.Z.S. SCHOOL OF ARCHITECTURE & PLANNING

MRSPTU

Program: B.Arch

COs, POs, PSOs Mapping

Subject: Building Science and Technology - IV	Subject Code: BARC1-427	Semester: 4 TH
Credit: <u>2</u>	LST P 2000	Duration: <u>3 Hrs.</u>

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	Understanding the importance and role of water supply.	1	2	0	0	2	0	0	0	0	2	0	2	1	1	1
CO2	Understanding the importance sanitation services in Buildings.	0	2	0	2	1	0	0	0	0	0	0	3	1	2	1
соз	Understanding the solid waste management system in buildings.	1	1	1	1	2	0	0	0	0	2	0	1	1	2	3
CO4	Understanding the infrastructure of the building	1	1	0	2	0	0	0	0	0	2	2	2	2	1	1
CO5	Understanding the water requirements depending on the building type	2	2	0	0	1	0	0	0	0	0	0	3	1	2	3
CO6	Knowledge about the various types of water distribution system	1	2	2	0	1	0	0	0	0	0	0	3	3	3	1

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Department: G.Z.S. SCHOOL OF ARCHITECTURE & PLANNING

MRSPTU

Program: <u>B.Arch</u>

COs, POs, PSOs Mapping

Subject: Visual Communication - IV	Subject Code: BARC1-428	Semester: 4 TH
Credit: <u>2</u>	LST P 1002	Duration: No Exam.

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	Draw perspectives of small design projects.	3	1	2	0	0	0	0	0	2	0	0	3	2	3	2
CO2	Draft and render his/her small design projects into 3-D forms.	1	0	1	0	0	0	0	0	0	0	0	1	3	3	2
соз	Show Sciography through Computer Aided Techniques.	1	0	1	0	1	0	0	0	0	0	0	1	2	2	2
CO4	V-ray and Any other Software.	1	0	0	0	2	0	0	0	0	0	0	2	3	2	3
CO5	3-D Modelling on 3-D Max.	2	0	0	0	2	0	0	0	0	0	0	2	2	2	2
CO6	3-D Modelling on Google Sketch Up.	2	0	0	0	2	0	0	0	0	0	0	2	3	1	1

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Department: G.Z.S. SCHOOL OF ARCHITECTURE & PLANNING

MRSPTU

Program: <u>B.Arch</u>

COs, POs, PSOs Mapping

Subject: Structure Design - III	Subject Code: BARC1-429	Semester: <u>4TH</u>
Credit: <u>2</u>	LST P 1010	Duration: 3 Hrs

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	Learn the basic knowledge of steel structure	3	1	2	0	0	0	0	0	2	0	0	3	2	3	2
CO2	Identify analyze and compute the design load on typical steel structures.	1	0	1	0	0	0	0	0	0	0	0	1	3	3	2
соз	Identify the different failure modes of connections, tension members, compression members, beams & compute their design strength.	1	0	1	0	1	0	0	0	0	0	0	1	2	2	2
CO4	Design & select the most suitable section and size for tension, compression members & beams using modern methods, tools & techniques.	1	0	0	0	2	0	0	0	0	0	0	2	3	2	3
CO5	Analyze the data & give solution of the problems with sustainable development	2	0	0	0	2	0	0	0	0	0	0	2	2	2	2
CO6	Apply relevant Indian Standard Codal provisions to ensure safety & serviceability of structural steel elements for design developments and learning.	2	0	0	0	2	0	0	0	0	0	0	2	3	1	1

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Department: G.Z.S. SCHOOL OF ARCHITECTURE & PLANNING

MRSPTU

Program: <u>B.Arch</u>

COs, POs, PSOs Mapping

Subject: Design Philosophies - I	Subject Code: BARC1-430	Semester: 4 TH
Credit: <u>2</u>	LST P 1010	Duration: 3 Hrs

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	Understanding the basic concepts of designing the buildings done in 20th-Century Architecture.	3	1	2	0	0	0	0	0	0	0	0	3	3	3	2
CO2	Developing conceptual and perceptual skills of students to appreciate the basic principles	0	2	2	0	0	0	0	0	0	0	0	2	2	2	1
соз	Developing philosophy of design used in 20th century movements and assesses their contributions.	2	0	2	0	0	0	0	0	0	0	0	2	2	2	1
CO4	Understanding the basic concepts of Chicago School of Architecture, Art Nouveau Architecture & New York School of Skyscraper Architecture	2	0	0	0	0	0	0	0	0	0	0	2	2	2	2
CO5	Understanding the basic concepts of Early Modernist Architecture to International Style of Modern Architecture of Architecture	3	2	1	0	0	0	0	0	0	0	0	3	3	2	3
CO6	Understanding the basic concepts of Great masters	3	1	2	0	0	0	0	0	0	0	0	3	3	2	1



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Department: G.Z.S. SCHOOL OF ARCHITECTURE & PLANNING

MRSPTU

Program: B.Arch

COs, POs, PSOs Mapping

Subject: Structure System - II	Subject Code: BARC1-431	Semester: 4 TH
Credit: <u>1</u>	LST P 1000	Duration: No Exam.

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
	Emphasis shall be laid on learning by doing by making															
CO1	of 3-D models to give the students an idea of	2	3	3	0	0	0	0	0	2	0	0	2	1	1	3
	different spatial experience.															
CO2	The predominantly pictorial nature of an Architect's	2	3	0	0	0	0	_	0	0	0	0	2	1	1	1
COZ	language.		,	0	0	0	0	U	0	0	0	O	2	J	ı	
CO3	The physical-mechanical essence of the subject	2	3	0	0	0	0	_	0	0	0	0	2	1	1	1
CO3	matter.		3	U	U	0	U	U	U	U	U	U		J	ı ı	'
CO4	The orientation of all Architectural efforts to Form	3	2	1	0	0	0	0	0	0	0	0	2	1	1	3
CO4	and Space.)	۷	ı	0	0	0	U	0	0	0	O	2	J	ı	3
CO5	Learn various forms of structure system	1	0	2	0	0	0	2	0	0	0	0	2	1	1	2
CO6	Learn various type of temporary structure systems	1	0	2	0	0	0	2	0	0	0	0	2	1	2	3
COB	which one is durable and constructed in less time	ļ	0		J	0	0		U	0	U	U		ı	2	3

Enter Correction levels 1, 2 or 3 as defined below:

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Department: G.Z.S. SCHOOL OF ARCHITECTURE & PLANNING

MRSPTU

Program: B.Arch

COs, POs, PSOs Mapping

Subject: Educational Tour -I	Subject Code: BARC1-432	Semester: 4 TH
Credit: <u>1</u>	LST P <u>0000</u>	Duration: No Exam.

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	Understand the traditional construction techniques used in forts, palaces, religious structures in North India	3	2	3	3	0	0	2	0	0	0	0	0	1	1	3
CO2	Understand the planning concepts of traditional Indian cities	3	2	3	2	0	0	0	0	0	0	0	0	1	1	3
соз	Awareness of various design principles as employed in historical monuments	3	0	2	0	0	0	3	0	0	0	0	0	1	1	2
CO4	Socially responsible	0	0	0	0	0	2	0	3	0	0	0	1	1	2	1
CO5	Learn team work.	0	0	0	0	0	0	0	0	3	2	0	1	1	3	1
CO6	Learn cultural values of the visited area.	0	0	0	0	0	0	0	0	0	0	0	3	1	1	1

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Department: G.Z.S. SCHOOL OF ARCHITECTURE & PLANNING

MRSPTU

Program: B.Arch

COs, POs, PSOs Mapping

Subject: Architectural Design - V	Subject Code: BARC1-533	Semester: 5 TH
Credit: <u>6</u>	LST P 2302	Duration: 18 Hrs.

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	Understand and appreciate the concept of Structure and services in the Architectural design of a medium scale building with reference to function, form and site.	3	3	0	2	0	0	0	0	0	0	0	0	2	3	2
CO2	Design basic building services in a multi storied residential and commercial building.	2	3	0	0	0	0	0	0	1	0	1	0	1	3	2
CO3	Employ computational tools and techniques for the design of multi storied buildings.	2	2	0	0	3	0	0	0	1	0	0	0	2	3	2
CO4	Knowledge about site planning and also be able to understand the possible impact of multi storied building at urban level.	2	2	3	3	3	1	2	1	1	0	0	1	1	3	2
CO5	Distinguish between the space designs requirements for the differently abled.	3	3	0	1	0	2	0	2	0	0	0	3	2	3	3
CO6	Understand the role of behavioral aspects in space planning for user's satisfaction.	2	0	0	3	0	0	0	3	0	0	0	1	2	3	1



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Department: G.Z.S. SCHOOL OF ARCHITECTURE & PLANNING

MRSPTU

Program: B.Arch

COs, POs, PSOs Mapping

Subject: Building Construction - V	Subject Code: BARC1-534	Semester: 5 TH
Credit: <u>5</u>	LST P 2202	Duration: <u>3 Hrs.</u>

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	Helping students to draw the construction details of structural Steel.	2	2	2	0	1	0	0	0	1	1	0	3	1	1	2
CO2	Knowledge about Aluminum and its uses in various building elements including industrial buildings	2	1	0	0	1	0	0	1	0	0	0	2	1	1	3
соз	Understanding the Construction of various types of doors in Steel & Aluminum	1	1	1	1	2	0	0	0	0	0	2	2	1	2	1
CO4	Understanding the construction of windows in Steel & Aluminum	2	1	0	0	2	0	0	0	0	0	0	2	2	1	2
CO5	Understanding the details of mezzanine floors.	1	0	1	0	0	0	0	0	0	0	0	1	2	1	1
CO6	Understanding the implementations of light weight partitions	1	1	0	0	0	0	1	0	0	0	0	2	1	2	3

Enter Correction levels 1, 2 or 3 as defined below:

1. Slight (Low) - upto 30% 2. Moderate (Medium) –above 30% and upto 70%



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Department: G.Z.S. SCHOOL OF ARCHITECTURE & PLANNING

MRSPTU

Program: B.Arch

COs, POs, PSOs Mapping

Subject: On site construction Training	Subject Code: BARC1-535	Semester: <u>5TH</u>
Credit: <u>3</u>	LST P <u>0000</u>	Duration: No Exam.

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	Understand process of planning, progress and management of construction process.	1	3	1	0	0	0	3	0	0	0	3	3	3	2	1
CO2	Learn about the building materials and technologies used in construction	0	0	0	0	3	0	0	0	0	0	0	3	3	2	2
соз	Learn the role of various team members in construction.	0	0	0	0	0	3	0	0	3	1	0	2	2	3	1
CO4	Understand how to solve problems on the construction site.	0	3	0	2	0	0	0	3	0	0	0	3	2	3	1
CO5	Become socially responsible.	0	0	0	0	0	0	0	3	0	0	0	2	2	2	1
CO6	Enhance and learn how to communicate with clients and learn local vocabulary	0	0	0	0	0	0	0	1	2	3	0	2	2	1	1



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Department: G.Z.S. SCHOOL OF ARCHITECTURE & PLANNING

MRSPTU

Program: B.Arch

COs, POs, PSOs Mapping

Subject: Landscape Architecture	Subject Code: BARC1-536	Semester: <u>5TH</u>
Credit: <u>2</u>	LST P 2000	Duration: <u>3 Hrs.</u>

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	Understanding the role & importance of landscape in Architecture	1	0	1	0	0	0	2	0	0	0	0	0	2	1	2
CO2	Understanding the elements of Landscape and their role.	1	0	1	0	0	0	2	0	0	0	0	1	1	1	1
соз	Identifying plant characteristics of various types of Trees, Shrubs, Cacti Bushes and Creepers	1	0		0	0	0	2	0	0	0	0	1	2	1	2
CO4	Understanding Historical development, Design Principles, salient features & elements of various garden styles	1	0	2	0	0	0	1	0	0	0	0	1	2	1	2
CO5	Studying and analyzing site in relation to landscape design	1	1	2	0	0	0	1	0	0	0	0	1	2	1	2



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Department: G.Z.S. SCHOOL OF ARCHITECTURE & PLANNING

MRSPTU

Program: B.Arch

COs, POs, PSOs Mapping

Subject: Building science and Technology - V	Subject Code: BARC1-537	Semester: 5 TH
Credit: <u>2</u>	LST P 2000	Duration: <u>3 Hrs.</u>

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	Understanding the importance and role of Electrical Layouts.	0	1	1	2	1	0	0	0	0	0	0	2	1	1	3
CO2	Understanding the importance of Fire Safety in the building	0	2	2	0	1	0	0	0	0	0	0	1	1	2	1
соз	Understanding the importance of Acoustics in Buildings.	1	1	3	2	1	0	0	0	0	0	0	3	1	1	2
CO4	Understanding the importance of services in the building.	2	1	0	1	1	0	0	0	0	0	0	1	1	1	1
CO5	Detailing out the various layout plans of the building	1	1	0	1	2	0	0	0	0	0	0	2	2	1	1

Enter Correction levels 1, 2 or 3 as defined below:

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Department: G.Z.S. SCHOOL OF ARCHITECTURE & PLANNING

MRSPTU

Program: <u>B.Arch</u>

COs, POs, PSOs Mapping

Subject: History of Architecture - III	Subject Code: BARC1-538	Semester: 5 TH
Credit: <u>2</u>	LST P 2000	Duration: 3 Hrs

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	Understanding basic chronology of historical development as per the of syllabus.	2	0	0	0	0	0	0	0	0	0	0	2	3	3	2
CO2	Acquainting themselves with the key historical buildings of various periods of Architectural history and their characteristic features.	3	0	2	0	0	0	0	0	0	0	0	3	3	1	1
соз	Understanding the importance of the development of world Architecture from Neo classical style up to Industrial revolution	3	0	1	0	0	0	0	0	0	0	0	3	2	2	2
CO4	Understanding the importance of the development of Rajput Architecture in India.	2	0	0	0	0	0	0	0	0	0	0	3	2	2	1
CO5	Understanding the importance of the development of Sikh Architecture in India	2	0	0	0	0	0	0	0	0	0	0	2	2	1	1
CO6	Understanding the importance of the development of Colonial Architecture in India	2	0	0	0	0	0	0	0	0	0	0	2	2	1	1



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Department: G.Z.S. SCHOOL OF ARCHITECTURE & PLANNING

MRSPTU

Program: B.Arch

COs, POs, PSOs Mapping

Subject: <u>Tall Buildings</u>	Subject Code: BARC1-539	Semester: 5 TH
Credit: <u>2</u>	LST P 1010	Duration: 3 Hrs

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	Understanding the need of High rise buildings in Urban context & the issues related with tall buildings	0	0	0	0	0	1	1	0	0	0	0	1	2	1	2
CO2	Understanding the planning, design, structure, and construction in high rise buildings.	1	0	2	0	0	0	0	0	1	0	0	1	1	1	2
соз	Studying and understanding High rise buildings as per the norms and Standards prescribed in NBC/ Bye- Laws	0	0	2	0	0	1	1	0	0	1	0	1	1	2	1
CO4	Understanding the concepts of Energy Efficiency & sustainability in tall buildings.	0	0	0	0	0	1	2	0	0	0	0	1	2	1	2
CO5	Understanding the mechanical & other building services of High rise buildings	0	0	2	0	2	0	1	0	0	0	0	1	3	1	3
CO6	Understanding the circulation & fire safety in tall buildings	0	0	1	1	1	0	1	0	0	0	0	1	3	1	3



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Department: G.Z.S. SCHOOL OF ARCHITECTURE & PLANNING

MRSPTU

Program: <u>B.Arch</u>

COs, POs, PSOs Mapping

Subject: Design Philosophies - II	Subject Code: BARC1-540	Semester: 5 TH
Credit: <u>2</u>	LST P 1010	Duration: 3 Hrs

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	Understanding the approach of Master architects towards design of buildings in India.	2	3	3	0	0	0	0	0	2	0	0	2	1	1	3
CO2	Understanding about the various aspects of Architectural design as employed by Master Architects	2	3	0	0	0	0	0	0	0	0	0	2	1	1	1
CO3	Understanding about buildings designed by Master Architects	2	3	0	0	0	0	0	0	0	0	0	2	1	1	1
CO4	Understanding the Post-Independence influence of Modern Masters in India	3	2	1	0	0	0	0	0	0	0	0	2	1	1	3
CO5	Understanding the Indian Modern Architects- philosophy and works in India & abroad	1	0	2	0	0	0	2	0	0	0	0	2	1	1	2
CO6	Understanding the philosophy of Architects who incorporated Regionalism, Technological advancements & Cost Effectiveness in Indian Architecture	1	0	2	0	0	0	2	0	0	0	0	2	1	2	3



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Department: G.Z.S. SCHOOL OF ARCHITECTURE & PLANNING

MRSPTU

Program: B.Arch

COs, POs, PSOs Mapping

Subject: Architectural Design - VI	Subject Code: BARC1-641	Semester: 6 TH
Credit: <u>6</u>	LST P 2302	Duration: 18 Hrs.

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	One shall be able to understand and appreciate the constraints of combining varying structural spans in complex building typologies and interweaving them with structure, site and architectural form and expressions.	3	3	0	0	2	0	0	0	1	0	2	0	2	3	1
CO2	Understand and appreciate the interrelationship between form and scale	3	1	2	0	0	0	0	0	0	0	0	0	2	3	1
CO3	Employ natural elements like Light, Sound, & Shadow, water, landscape in the design projects related to art, craft, performing art, museum, & exhibition spaces.	3	2	0	3	3	0	0	0	0	3	0	1	2	3	3
CO4	Design the concept of mixed use spaces.	3	2	3	2	0	0	1	0	3	0	0	0	2	3	1
CO5	Distinguish between the projects located in urban and non-urban areas.	3	2	0	3	0	0	2	0	0	0	0	1	2	2	1
CO6	Knowledge of digital techniques for assessment and redefining of design.	2	2	0	0	3	0	0	0	0	0	0	0	2	3	3



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Department: G.Z.S. SCHOOL OF ARCHITECTURE & PLANNING

MRSPTU

Program: B.Arch

COs, POs, PSOs Mapping

Subject: Building Construction - VI	Subject Code: BARC1-642	Semester: 6 TH
Credit: <u>5</u>	LST P 2202	Duration: <u>3 Hrs.</u>

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	Knowledge about the drafting techniques of construction drawings	1	1	0	2	1	0	0	0	0	0	0	3	1	2	1
CO2	Knowledge about the Joinery Details	2	1	1	0	0	0	0	0	0	0	0	2	2	1	1
CO3	Knowledge about the plumbing details	1	1	1	0	0	0	0	0	0	0	0	2	1	2	1
CO4	Knowledge about the electrical details	2	1	1	0	0	0	0	0	0	0	0	2	1	1	3
CO5	Understanding of working drawings.	1	2	2	0	0	0	0	0	0	0	2	1	1	2	3
со6	Understanding of Extension, Expansion and Construction Joints, their details and treatment	1	1	0	2	0	0	2	0	0	0	0	1	2	1	1

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Department: G.Z.S. SCHOOL OF ARCHITECTURE & PLANNING

MRSPTU

Program: B.Arch

COs, POs, PSOs Mapping

Subject: Building science and Technology - VI	Subject Code: BARC1-643	Semester: 6 TH
Credit: <u>2</u>	LST P 2000	Duration: <u>3 Hrs.</u>

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	Understanding the use and application of various advanced building services for the design assignments.	0	2	0	0	2	1	1	0	0	0	1	0	1	1	3
CO2	Understanding the Heating and Air-conditioning Systems	1	2	0	1	1	1	0	1	0	1	1	0	2	2	2
соз	Understanding the Mechanical Transportation Systems	0	2	0	1	1	1	0	0	2	2	0	0	1	1	1
CO4	Understanding the concepts of comfort cooling systems & their working	0	2	0	2	0	2	0	0	1	0	1	2	1	1	1
CO5	Knowledge of Natural and Artificial Ventilation	1	2	0	1	1	0	0	0	0	1	0	1	3	1	1
CO6	Understanding the concept of intelligent buildings	1	1	1	1	0	0	0	0	0	1	0	1	1	1	2



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Department: G.Z.S. SCHOOL OF ARCHITECTURE & PLANNING

MRSPTU

Program: B.Arch

COs, POs, PSOs Mapping

Subject: Interior Design	Subject Code: BARC1-644	Semester: 6 TH
Credit: <u>2</u>	LST P 1002	Duration: 3 Hrs.

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	Understanding and appreciating the discipline of Interior design & its relation with Architectural Design.	2	0	2	0	0	0	0	0	0	0	0	1	2	1	2
CO2	Understanding principles of Interior Design and their application in the context of buildings	1	0	2	0	0	0	0	0	0	1	0	1	2	1	2
CO3	Understanding various color schemes, lighting, textures, etc. in Interior design	1	0	0	0	1	0	0	0	0	0	0	1	2	1	2
CO4	Understanding the materials & techniques used in Interior design	1	0	0	0	1	0	0	0	0	0	0	1	3	1	2
CO5	Understanding the modern trends in the field of Interior design	1	0	2	0	0	0	0	0	0	1	0	1	3	1	2
CO6	Designing the interior of small & medium sized projects	1	0	2	0	0	0	0	0	2	0	0	1	3	1	2



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Department: G.Z.S. SCHOOL OF ARCHITECTURE & PLANNING

MRSPTU

Program: B.Arch

COs, POs, PSOs Mapping

Subject: Estimating & Costing	Subject Code: BARC1-645	Semester: 6 TH
Credit: <u>2</u>	LSTP <u>1002</u>	Duration: <u>3 Hrs.</u>

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	Understanding the process of preparing estimates	1	2	0	0	1	1	0	0	1	1	1	1	2	3	1
CO2	Understanding types of Estimates and their calculations	1	2	0	1	2	1	0	0	2	1	2	2	2	3	1
соз	Preparing Analysis of rates of material and labor required for various items of work.	1	3	0	1	1	1	0	0	2	1	1	2	2	3	1
CO4	Understanding Tenders, their type, Process, Scrutiny and Selection of Contractors, Pre-Qualification and Registration of Contractor.	1	2	0	1	1	1	0	0	1	1	0	2	2	2	1
CO5	Understanding and calculation of Valuation	1	2	0	1	1	1	0	0	1	1	0	1	2	2	1
CO6	Preparing specifications for various items of work	1	2	0	1	1	1	0	0	2	1	0	1	2	2	1

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Department: G.Z.S. SCHOOL OF ARCHITECTURE & PLANNING

MRSPTU

Program: B.Arch

COs, POs, PSOs Mapping

Subject: Design Philosophies - III	Subject Code: BARC1-646	Semester: 6 TH
Credit: <u>2</u>	LST P 1010	Duration: 3 Hrs

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	Understanding the approach of eminent architects towards designing of buildings.	3	0	2	0	2	0	3	0	0	0	0	2	1	1	3
CO2	Understanding Structural Expressionism (High-Tech Architecture)	3	0	2	1	3	0	3	0	0	0	0	0	1	1	3
CO3	Understanding theories of Deconstructivism	3	0	2	1	3	0	2	0	0	0	0	0	1	1	3
CO4	Understanding of Theoretical issues in contemporary architecture	3	0	2	1	3	0	3	0	0	0	0	0	1	1	3
CO5	Understanding theories of Neo Futurism	3	0	2	1	3	0	3	0	0	0	0	0	1	1	3
CO6	Understanding the theories of Program, Function and Philosophies used in Contemporary architecture	3	0	2	1	3	0	3	0	0	0	0	0	1	1	3

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Department: G.Z.S. SCHOOL OF ARCHITECTURE & PLANNING

MRSPTU

Program: B.Arch

COs, POs, PSOs Mapping

Subject: Architecture Legislation	Subject Code: BARC1-647	Semester: 6 TH
Credit: <u>2</u>	LST P 2000	Duration: 3 Hrs

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	Understand the Legal Framework in Architectural Practice.	2	0	0	0	0	3	0	2	0	0	0	0	3	3	1
CO2	Knowledge to appreciate architectural design approaches adopted by master architects & planners.	3	0	0	3	0	0	0	0	0	2	0	0	2	3	1
соз	Understand the importance of Preservation & Conservation of Heritage Buildings & their regulations.	3	0	0	2	0	3	0	0	0	0	0	0	2	2	1
CO4	Knowledge of nation level building norms & standards through National Building Code, Indian Standard Codes, Local Building Bye-Laws, Disability Act etc.	2	0	0	2	0	3	0	0	0	0	0	3	3	3	1
CO5	Distinguish between building norms of various Urban Local Bodies.	2	0	0	3	0	2	0	0	0	0	0	0	2	2	1
CO6	Design of development controls.	3	3	0	3	0	2	2	2	3	0	0	0	2	2	1



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Department: G.Z.S. SCHOOL OF ARCHITECTURE & PLANNING

MRSPTU

Program: B.Arch

COs, POs, PSOs Mapping

Subject: Architectural Design - VII	Subject Code: BARC1-748	Semester: 7 TH
Credit: <u>8</u>	LST P 2502	Duration: No Exam

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	Understand and appreciate the with complex functional, circulation and safety requirements.	3	2	0	3	0	0	0	1	2	0	0	1	3	3	2
CO2	Design public building while incorporating the requirements being set for Universal design.	3	3	0	0	0	0	0	2	2	0	0	0	3	3	2
соз	Distinguish the impact of public building on urban surroundings and vice versa.	3	2	3	3	2	0	2	0	1	0	0	0	2	2	1
CO4	Knowledge about the services required by public buildings which may include Fire safety, Solid Waste management, Water supply and sanitation, Air Conditioning, Gas Supplies etc.	3	2	0	3	3	1	0	0	0	0	2	3	3	3	2
CO5	Employ the outcome from library and Proto type studies for project designing.	2	0	0	3	0	0	0	0	2	1	0	0	2	2	1
CO6	Design physical models for volumetric studies.	2	0	0	3	0	0	0	0	3	2	0	0	1	3	2



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Department: G.Z.S. SCHOOL OF ARCHITECTURE & PLANNING

MRSPTU

Program: B.Arch

COs, POs, PSOs Mapping

Subject: Building Construction - VII	Subject Code: BARC1-748	Semester: 7 TH
Credit: <u>5</u>	LST P 2502	Duration: <u>No Exam</u>

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	Knowledge about the latest trends/ methods of construction.	1	1	2	0	0	0	0	0	0	0	0	3	2	1	1
CO2	Knowledge about the Prefabricated and precast building construction and details.	2	0	0	1	0	0	0	0	2	2	2	2	1	1	3
CO3	Knowledge about the Tubular construction system and details.	1	2	1	2	1	0	0	0	0	1	0	2	2	2	2
CO4	Knowledge about the drafting techniques of the latest methods of construction	1	1	1	1	2	0	0	0	0	2	0	1	2	1	1
CO5	Understanding of modular construction	1	1	0	0	0	0	0	0	0	0	2	2	3	1	2
CO6	Knowledge about the structural & non-structural cladding	2	2	0	0	0	0	2	0	0	2	1	1	1	2	1

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Department: G.Z.S. SCHOOL OF ARCHITECTURE & PLANNING

MRSPTU

Program: B.Arch

COs, POs, PSOs Mapping

Subject: Housing	Subject Code: BARC1-750	Semester: 7 TH
Credit: <u>2</u>	LST P 2000	Duration: <u>3 Hrs.</u>

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
	Understanding various aspects, issues and															
CO1	considerations affecting housing problems & their	0	0	0	0	0	2	0	0	1	0	0	1	2	1	2
	solutions for India															
CO2	Understanding the housing need, shortage & cost	0	0	0	0	0	2	0	0	0	1	0	1	1	1	2
COZ	components of Housing	U	U	0	U	U		U	U	U	Ī	U	ı	J	ı ı	
соз	Understanding Housing policies in India & the role of	0	0	0	0	0	1	0	0	1	0	_	1	1	2	1
CO3	financial institutions.	U	U	0	U	U	'	U	U	'	0	U	'	ı		
CO4	Understanding the affordable housing & various	0	0	0	0	0	2	1	0	0	0	1	1	2	1	2
CO4	typologies related to housing in Indian context.	U	U	0	U	U		'	U	U	0	'	'		,	
	Enable to carry out need assessment of targeted															
CO5	housing stock in urban areas & strategies for	0	0	0	0	0	2	0	0	0	0	0	1	3	1	3
COS	alternative housing typologies in development of	U	U	O	U	U	۷	0	0	U	U		'	3	'	
	urban areas.															
CO6	Understanding housing surveys & analyze the survey	0	0	0	0	0	1	0	0	2	0	0	1	3	1	3



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Department: G.Z.S. SCHOOL OF ARCHITECTURE & PLANNING

MRSPTU

Program: B.Arch

COs, POs, PSOs Mapping

Subject: Construction Management	Subject Code: BARC1-751	Semester: 7 TH
Credit: <u>2</u>	LST P 2000	Duration: <u>3 Hrs.</u>

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	Handling and managing the project efficiently	0	1	0	0	2	0	0	0	0	2	2	2	2	1	1
CO2	Understanding the Construction stages, Construction team, Equipment Management	1	2	0	2	0	1	0	0	0	0	1	2	2	2	3
соз	Understanding the Quality and Safety- Objectives, Issues, Organizing for Quality and Safety	0	1	0	0	0	1	0	1	0	1	2	2	1	1	3
CO4	Understanding the costing of the project at various stages	0	2	0	2	2	0	0	0	0	2	1	1	2	1	2
CO5	Understanding the role of an architect in the society	1	1	0	2	2	0	0	0	0	3	2	3	1	2	1
CO6	Understanding the importance of project management and team work	0	1	0	-	2	0	0	0	0	1	3	3	2	1	1

Enter Correction levels 1, 2 or 3 as defined below:

1. Slight (Low) - upto 30% 2. Moderate (Medium) – Above 30% and upto 70%



(A State University Estb. by Govt. of Punjab vide Punjab Act No. 5 of 2015 and Approved u/s 2(f) & 12 (B) of UGC; Member AIU)

Department: G.Z.S. SCHOOL OF ARCHITECTURE & PLANNING

MRSPTU

Program: B.Arch

COs, POs, PSOs Mapping

Subject: Town Planning	Subject Code: BARC1-752	Semester: 7 TH
Credit: <u>2</u>	LSTP <u>2000</u>	Duration: <u>3 Hrs.</u>

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	Understanding the importance and role of Town Planning in the Historical and Modern Context.	1	0	1	0	0	1	0	0	0	0	0	1	2	1	2
CO2	Understanding Human Settlements - Classification based on Road Pattern, Form, space, use & Population.	1	0	1	0	0	1	0	0	0	0	0	1	1	1	2
соз	Understanding Planning Concepts- Garden City, Linear City, Industrial City and Sustainable City, Compact city and TOD	1	0	1	0	0	1	2	0	0	0	0	1	1	2	1
CO4	Evaluating the pattern of growth in Indian cities & their problems	1	0	1	1	0	1	0	0	2	1	0	1	2	1	2
CO5	Understanding new approaches of town planning such as smart cities, green cities, & development plans	1	0	1	0	0	1	2	0	0	1	0	1	3	1	3
CO6	Understanding the role of development authorities in the growth of cities	1	0	1	0	0	1	2	0	0	1	1	1	3	1	3

Enter Correction levels 1, 2 or 3 as defined below: 1. Slight (Low)- upto 30%

2. Moderate (Medium) – Above 30%

and upto70%

3. Substantial

(High) – above 70%



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Department: G.Z.S. SCHOOL OF ARCHITECTURE & PLANNING

MRSPTU

Program: B.Arch

COs, POs, PSOs Mapping

Subject: Educational Tour - II	Subject Code: BARC1-753	Semester: 7 TH
Credit: <u>1</u>	LST P 0000	Duration: <u>No Exam</u>

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	Understand the construction techniques used in	3	0	0	2	0	0	0	0	1	3	0	0	2	1	1
CO1	historic and modern structures in India	3	U)	۷))	U	0	-	3	U	U	2	•	
CO2	Understand the urban design of Indian cities	3	0	0	2	0	0	0	0	0	0	0	0	1	1	3
CO3	Awareness of various modern buildings designed	1	4	0	2)	0	0	0	0	0	0	0	1	1	2
COS	by contemporary architects of India.	I	I	?	2	ט	b	U	0	O	U	U	U	ı	-	
CO4	Understand development pattern of the city.	2	0	2	2	0	0	3	0	0	0	0	0	1	1	3
CO5	Understand the form and the skyline of the city.	2	0	2	1	0	0	1	0	0	0	0	0	1	1	3
CO6	Understand the different land marks and nodes	2	0	c	1	0	0	2	0	0	0	0	0	1	1	2
CO6	of the visited city.		U	4	1	ט	ט		0	J	U	U	U		1	3

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Department: G.Z.S. SCHOOL OF ARCHITECTURE & PLANNING

MRSPTU

Program: B.Arch

COs, POs, PSOs Mapping

Subject: Personality Development	Subject Code: BARC1-754	Semester: 7 TH
Credit: <u>1</u>	LST P 1000	Duration: <u>No Exam</u>

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	Understand the Legal Framework in Architectural Practice.	2	0	0	0	0	3	0	2	0	0	0	0	3	3	1
CO2	Knowledge to appreciate architectural design approaches adopted by master architects & planners.	3	0	0	3	0	0	0	0	0	2	0	0	2	3	1
соз	Understand the importance of Preservation & Conservation of Heritage Buildings & their regulations.	3	0	0	2	0	3	0	0	0	0	0	0	2	2	1
CO4	Knowledge of nation level building norms & standards through National Building Code, Indian Standard Codes, Local Building Bye-Laws, Disability Act etc.	2	0	0	2	0	3	0	0	0	0	0	3	3	3	1
CO5	Distinguish between building norms of various Urban Local Bodies.	2	0	0	3	0	2	0	0	0	0	0	0	2	2	1
CO6	Design of development controls.	3	3	0	3	0	2	2	2	3	0	0	0	2	2	1



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Department: G.Z.S. SCHOOL OF ARCHITECTURE & PLANNING

MRSPTU

Program: B.Arch

COs, POs, PSOs Mapping

Subject: Lighting & Illumination	Subject Code: BARC1-761	Semester: 7 TH
Credit: <u>2</u>	LST P 1010	Duration: <u>3 Hrs.</u>

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	Understanding the principles of visual performance and photometric terms	1	0	1	0	0	0	1	0	0	0	0	1	2	1	2
CO2	Understanding Color Specification with Munsel & CIE system along with additive & subtractive colour mixing.	1	0	1	0	0	0	0	0	0	0	0	1	1	1	2
CO3	Understanding of lighting principles and different electric lamps along with their properties	1	0	2	0	0	0	1	0	0	0	0	1	1	2	1
CO4	Understanding luminaries' properties and illumination schemes.	1	0	2	0	0	0	1	0	0	0	0	1	2	1	2
CO5	Calculating illumination due to daylight using daylight factor, day lighting practices and integration with electric lighting	1	0	1	2	0	0	1	0	0	0	0	1	3	1	3
CO6	Calculating quantitative lighting design of a simple space manually using lumen method	1	0	1	2	1	0	0	0	0	0	1	1	3	1	3



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Department: G.Z.S. SCHOOL OF ARCHITECTURE & PLANNING

MRSPTU

Program: B.Arch

COs, POs, PSOs Mapping

Subject: Disaster Management for Buildings	Subject Code: BARC1-762	Semester: 7 TH
Credit: <u>2</u>	LSTP 1010	Duration: 3 Hrs.

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	Understanding the various Pre & Post-disaster design & management measures to make buildings safe against Earthquakes.	1	2	0	1	0	2	0	1	0	2	1	1	1	1	2
CO2	Understanding the General requirements, principles and measures for making safe building design against Fire, Floods, Cyclones, Landslide, Tsunami Avalanche, etc.	1	1	0	2	0	0	2	1	0	1	1	0	1	1	2
CO3	Understanding the Special construction techniques to make buildings safe against earthquakes	1	1	1	1	0	0	0	2	0	2	0	0	2	3	1
CO4	Understanding the concept of disaster mitigation	0	1	0	1	2	0	0	2	0	0	0	0	1	1	2
CO5	Understanding the role of architects in creating safe buildings	1	1	1	0	0	0	1	0	2	0	2	2	1	2	3
CO6	Understanding the various Pre & Post-disaster design & management measures to make buildings safe against Earthquakes.	1	2	0	1	0	2	0	1	0	2	1	1	1	1	2

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2. Moderate (Medium) – Above 30%

and upto70%

3. Substantial

(High) – above 70%



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Department: G.Z.S. SCHOOL OF ARCHITECTURE & PLANNING

MRSPTU

Program: B.Arch

COs, POs, PSOs Mapping

Subject: Practical training of 24 weeks duration	Subject Code: BARC1-855	Semester: 8 TH
Credit: <u>20</u>	LST P <u>0000</u>	Duration: <u>No Exam</u>

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	Understand the practical approach towards designing of buildings.	3	0	3	0	0	0	2	0	0	0	0	3	3	2	1
CO2	Understand the site management & office management	1	3	0	0	0	0	0	0	0	0	3	0	2	3	1
CO3	Get opportunity to design & execute buildings on site.	1	2	3	2	0	0	2	0	0	0	0	0	3	2	1
CO4	Understand various construction details that apply on site.	2	0	0	0	3	0	0	0	0	0	0	3	3	2	1
CO5	Learn team work and become socially responsible	0	0	0	0	0	3	0	3	3	0	0	2	2	3	1
CO6	Enhance and learn how to communicate with clients and learn local vocabulary	0	0	0	0	0	2	0	0	2	3	0	2	2	3	1

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Department: G.Z.S. SCHOOL OF ARCHITECTURE & PLANNING

MRSPTU

Program: B.Arch

COs, POs, PSOs Mapping

Subject: Architectural Design - VIII	Subject Code: BARC1-956	Semester: 9 TH
Credit: <u>8</u>	LST P 2404	Duration: <u>No Exam</u>

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	Understand & appreciate the concept of planning & other allied services required in the large scale building.	3	3	0	2	0	0	1	0	0	0	2	0	1	2	2
CO2	Design an existing urban environment to identify its typical characteristics and problems.	2	3	0	3	2	0	1	0	0	0	0	0	1	2	1
соз	Knowledge to relate human behavior with the environment and design spaces accordingly.	3	0	0	3	0	0	3	1	0	0	0	2	2	3	3
CO4	Distinguish various types of circulation spaces which are required to segregate different set of spaces, which are part of a single building/ complex.	2	3	3	3	0	0	0	0	1	0	0	0	1	3	1
CO5	Employ the learning's from historical context of the designated site	3	0	0	3	0	0	1	0	0	0	0	2	2	2	2
CO6	Employ the concepts urban development and ecologically sensitive control.	2	1	2	3	3	0	3	1	3	0	0	0	1	2	1



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Department: G.Z.S. SCHOOL OF ARCHITECTURE & PLANNING

MRSPTU

Program: B.Arch

COs, POs, PSOs Mapping

Subject: Research Methods & Dissertation Writing	Subject Code: BARC1-957	Semester: 9 TH
Credit: 3	LSTP <u>1 10 2</u>	Duration: 3Hrs.

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	Analyze and write reports on fine arts literature	1	0	0	2	0	0	0	0	0	2	0	2	3	3	1
CO2	Appraisal / evaluation, write reports on architectural projects.	1	0	0	0	0	0	0	0	0	1	0	1	2	2	1
соз	Techniques of report and review writing, their application to architectural publications.	2	0	0	0	0	0	0	0	0	2	0	2	2	2	1
CO4	Research methods, evaluation of results and its application.	0	0	0	1	0	0	0	0	0	1	0	1	2	2	2
CO5	Analyze and evaluate architectural projects etc. and also understand architectural research with special emphasis on India.	2	0	0	0	0	0	0	0	0	2	0	2	3	2	2
CO6	Architectural Research on various projects.	2	0	0	2	0	0	0	0	0	0	0	2	3	3	2

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Department: G.Z.S. SCHOOL OF ARCHITECTURE & PLANNING

MRSPTU

Program: B.Arch

COs, POs, PSOs Mapping

Subject: <u>Urban Design</u>	Subject Code: BARC1-958	Semester: 9 TH
Credit: <u>2</u>	LST P 1002	Duration: 3 Hrs.

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	Understanding the importance & role of Urban Design in the Historical & Modern Context & be able to interpret the urban forms of the past & present	1	0	2	0	0	0	0	0	0	0	0	1	2	2	2
CO2	Understanding the elements of Urban design & determinants of Urban Form	1	0	2	0	0	0	0	0	0	0	0	1	2	2	2
CO3	Understanding the Urban Spaces typology & design principles	1	0	2	0	0	0	0	0	0	0	0	1	2	2	1
CO4	Understanding the Urban development controls & Legal framework	1	0	1	0	0	0	0	0	0	2	0	1	2	1	2
CO5	Understanding the process of Landscape design &its application in Architectural Design solutions through examples from historical and contemporary gardens	0	0	1	0	0	0	2	0	0	0	0	1	3	1	3
CO6	Understanding landscape design in terms of elements of landscape such as earth, rock, water & vegetation, in the context of their environmental aspects & concerns.	0	0	0	0	0	0	0	0	0	0	0	0	3	1	3



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Department: G.Z.S. SCHOOL OF ARCHITECTURE & PLANNING

MRSPTU

Program: B.Arch

COs, POs, PSOs Mapping

Subject: <u>Landscape Design</u>	Subject Code: BARC1-963	Semester: 9 TH
Credit: <u>2</u>	LST P 1002	Duration: 3 Hrs.

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	Understanding contour/mapping and various methods of documentation of physical features, topography and landscape elements.	1	0	1	0	0	1	1	0	0	0	0	1	2	2	2
CO2	Understanding & analyzing site in relation to landscape design in order to take site planning decisions	1	0	1	0	0	1	1	0	0	0	0	1	2	2	2
соз	Understanding contour/mapping and various methods of documentation of physical features, topography and landscape elements.	0	0	1	1	0	1	1	0	0	0	0	1	2	2	1
CO4	Understanding and analyzing site in relation to landscape design in order to take site planning decisions	1	0	1	0	0	0	1	0	0	0	0	1	2	1	2
CO5	Understanding environmental impact assessment and Natural environmental policies of India	0	0	0	0	0	1	2	0	0	1	0	1	3	1	3
CO6	Enable to design and detail landscape projects	2	0	2	0	0	0	1	0	0	0	0	1	3	1	3

Enter Correction levels 1, 2 or 3 as defined below: 1. Slight (Low)- upto 30%

2. Moderate (Medium) – Above 30%

and upto70%

3. Substantial

(High) – above 70%



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Department: G.Z.S. SCHOOL OF ARCHITECTURE & PLANNING

MRSPTU

Program: B.Arch

COs, POs, PSOs Mapping

Subject: Building Maintenance	Subject Code: BARC1-964	Semester: 9 TH
Credit: <u>2</u>	LSTP <u>1002</u>	Duration: 3 Hrs.

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	Understanding the Role and importance of the building maintenance in built environment.	1	1	0	0	0	0	2	1	0	0	0	3	1	2	1
CO2	Understanding the Diagnostic Techniques	0	2	0	2	0	0	0	1	1	1	0	0	2	2	3
CO3	Understanding the Prevention measures/Defects due to poor design and construction	1	1	1	1	0	2	0	2	0	0	2	0	1	1	1
CO4	Knowledge about the various defects in Buildings	0	2	0	2	0	0	0	1	0	1	0	0	2	2	1
CO5	Understanding of treatment methods/Repair materials	1	2	0	0	0	0	0	2	0	0	0	2	1	1	2
CO6	Knowledge about the maintenance of the building both economic and social significance	1	1	1	0	0	0	0	2	0	0	0	0	3	1	2

and upto 70%



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Department: G.Z.S. SCHOOL OF ARCHITECTURE & PLANNING

MRSPTU

Program: <u>B.Arch</u>

COs, POs, PSOs Mapping

Subject: Sikh Architecture	Subject Code: BARC1-966	Semester: 9 TH
Credit: <u>2</u>	LST P 1002	Duration: <u>3 Hrs.</u>

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	Understanding the development of Sikh architecture in the form of Gurdwaras, Forts and Palaces in various regions of Punjab.	2	0	0	0	0	0	0	0	1	1	1	1	1	0	2
CO2	Understanding Contemporary examples of Sikh Gurdwaras built in late 20th and 21st Century	2	1	1	0	0	0	0	1	1	1	1	1	1	0	2
соз	Understanding Evolution of Sacred Sikh Architecture – Salient features of a Gurdwara varieties of Arches, Domes, Capitals and other building elements	2	1	1	0	0	0	0	1	1	1	1	1	1	0	1
CO4	Understanding of Sikh Architecture in Historical, Religious, social and environmental context	2	1	1	0	0	0	0	1	1	1	1	1	1	0	2
CO5	Understanding the design of Khalsa Heritage Memorial complex at Anandpur Sahib	2	1	1	0	0	0	0	1	1	1	1	1	1	0	1
CO6	Understanding the Landscape elements developed under Sikh rulers in prominent cities like Amritsar, Patiala, Nabha, Kapurthala, Gobindgarh, Anandpur Sahib	2	1	1	0	0	0	0	1	1	1	1	1	1	0	1

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and upto70%

3. Substantial

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Department: G.Z.S. SCHOOL OF ARCHITECTURE & PLANNING

MRSPTU

Program: B.Arch

COs, POs, PSOs Mapping

Subject: Architecture Model Making	Subject Code: BARC1-967	Semester: 9 TH
Credit: <u>2</u>	LST P 1002	Duration: <u>No Exam</u>

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	Prepare models of Architectural projects	2	1	2	0	2	0	0	0	0	0	0	2	3	3	1
CO2	Develop their own preferred technique for the model making	2	0	0	0	2	0	0	0	0	0	0	2	2	2	2
соз	Develop quick study models for developing a design idea.	1	0	0	0	1	0	0	0	0	0	0	1	2	2	2
CO4	Develop detailed models of buildings	1	0	2	0	0	0	0	0	0	0	0	2	2	3	1
CO5	Do Presentation models of single building or group of buildings.	1	0	0	0	0	0	0	0	2	0	0	2	2	2	1
CO6	Learn different materials used in models.	2	0	0	0	0	0	0	0	0	0	0	2	1	1	1

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Department: G.Z.S. SCHOOL OF ARCHITECTURE & PLANNING

MRSPTU

Program: B.Arch

COs, POs, PSOs Mapping

Subject: Vernacular Architecture	Subject Code: BARC1-968	Semester: 9 TH
Credit: <u>2</u>	LST P 1002	Duration: 3 Hrs.

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	Understanding basic vernacular settlement development as per the syllabus.	3	0	2	2	0	0	3	2	0	0	0	2	1	1	3
CO2	Acquainting themselves with the various vernacular settlements in Plains & Hills of Northern India.	3	0	3	3	1	0	3	2	1	0	0	2	1	1	3
CO3	Understanding the Settlement pattern, building material/ technology and socio—economic structure in a village of Punjab, Study & analysis of spatial organization	3	0	3	3	0	0	3	1	1	1	0	1	1	1	3
CO4	Understanding the Approach and works of architects Laurie Baker, Hassan Fathy	3	0	2	3	1	0	3	1	2	1	0	2	1	1	3
CO5	Understanding vernacular settlements in different parts of India as well as abroad.	3	0	2	3	0	0	3	0	1	1	0	1	1	1	3
со6	Understanding the Role & importance of social, cultural, political, economic, climatic, technological factors	3	0	2	3	1	0	3	2	0	0	0	1	1	1	3

Enter Correction levels 1, 2 or 3 as defined below: 1. Slight (Low)- upto 30%

2. Moderate (Medium) – Above 30%

and upto 70%

3. Substantial



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Department: G.Z.S. SCHOOL OF ARCHITECTURE & PLANNING

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Program: B.Arch

COs, POs, PSOs Mapping

Subject: Architectural Design - IX	Subject Code: BARC1-X59	Semester: 10 TH
Credit: <u>15</u>	LST P 100010	Duration: <u>No Exam</u>

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	Design projects of any scale independently.	3	3	3	3	2	1	1	1	2	0	1	0	3	3	1
CO2	Employ skills to present his/her work in front of a panel and defend it.	3	2	0	0	2	0	0	0	1	3	0	0	3	3	3
соз	Knowledge to write a report pertaining to a large scale architectural project.	0	2	0	0	0	0	0	0	1	3	0	3	1	1	3
CO4	Understand different digital and physical skills to present his/her work for Project execution.	0	0	0	0	3	0	0	0	0	2	0	0	2	2	2
CO5	Distinguish details to be developed for site planning, structure, services and other aspects.	3	3	0	0	0	0	1	0	0	0	2	0	2	3	1
CO6	Understand the design requirements as specified in client's and architect's briefs.	2	0	0	3	0	2	1	1	3	3	0	0	1	3	1



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Program: B.Arch

COs, POs, PSOs Mapping

Subject: Professional Practice	Subject Code: BARC1-X60	Semester: 10 TH
Credit: <u>2</u>	LSTP <u>1010</u>	Duration: 3Hrs.

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	Understand the various acts and regulations related to Architectural profession in India.	2	0	0	3	0	2	0	0	0	0	0	3	3	3	1
CO2	Knowledge about the Code of Conduct which is framed by Council of Architecture, India.	2	2	0	0	0	3	0	3	0	0	0	3	3	3	1
соз	Distinguish different legal matters which are associated with professional practice, dispute, competitions, tenders and contracts etc.	3	0	0	3	0	2	0	0	0	0	0	0	2	3	1
CO4	Knowledge about the associated areas like office management, teamwork, human resource, environment and social responsibility.	2	0	0	0	0	0	0	0	3	0	3	0	3	3	1
CO5	Design Tender and Contract document.	3	0	0	0	0	2	0	3	3	2	0	0	2	3	1
CO6	Distinguish between the responsibilities of architect, client, contractor.	3	3	0	0	0	3	0	0	2	0	2	0	3	3	1



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Department: G.Z.S. SCHOOL OF ARCHITECTURE & PLANNING

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Program: B.Arch

COs, POs, PSOs Mapping

Subject: Energy Efficient Buildings & Building Automation	Subject Code: BARC1-X69	Semester: 10 TH
Credit: <u>2</u>	LST P 1010	Duration: 3 Hrs.

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	CO 1: Understanding energy sources, global scenario and energy consumption	0	0	0	0	0	1	2	0	0	1	0	1	2	1	2
CO2	CO 2: Understanding study of different energy- efficient principles of a building and their various application techniques in different climatic zones prevailing in India including solar active and passive features.	1	0	1	0	0	1	2	0	0	1	0	1	2	2	2
CO3	CO 3: Understanding principles for designing of large scale mechanical services	0	0	2	0	0	1	1	0	0	1	0	1	2	2	3
CO4	CO 4: Understanding Building Automation, control systems and monitoring	0	1	2	0	0	1	1	0	0	0	0	1	3	1	2
CO5	CO 5: Learning the role of lighting and illumination related issues for energy efficiency	0	1	2	0	0	1	1	0	0	0	0	1	3	1	3



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Department: G.Z.S. SCHOOL OF ARCHITECTURE & PLANNING

MRSPTU

Program: B.Arch

COs, POs, PSOs Mapping

Subject: Architectural Journalism	Subject Code: BARC1-X71	Semester: 10 TH
Credit: <u>2</u>	LST P <u>1010</u>	Duration: <u>3 Hrs.</u>

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	Understanding theories and techniques in journalism	1	0	1	0	0	0	0	1	0	0	0	0	2	1	2
CO2	Understanding contemporary journalism in Architecture act	1	0	1	0	0	0	0	1	0	1	0	1	2	1	2
CO3	Reporting, recording, analyzing and evaluating an architectural project	1	0	1	0	0	0	0	1	0	2	0	1	2	1	2
CO4	Editing journalistic material related to built environment	1	0	1	0	0	1	0	1	0	2	0	1	3	1	2
CO5	Preparing research writings and thesis reports	1	0	1	0	0	0	0	1	0	2	0	1	3	1	3
CO6	Usage of skills of journalism to enhance documentation, analytical ability & develop effective architectural critique and specialized career option.	1	0	1	0	0	1	0	1	0	2	0	2	2	1	2



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Department: G.Z.S. SCHOOL OF ARCHITECTURE & PLANNING

MRSPTU

Program: B.Arch

COs, POs, PSOs Mapping

Subject: <u>Sustainable Architecture</u>	Subject Code: BARC1-X73	Semester: 10 TH
Credit: <u>2</u>	LSTP <u>1010</u>	Duration: 3 Hrs.

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	Making the students aware to environment and ecology for Sustainable development	1	0	1	0	0	1	3	0	0	0	0	1	2	1	1
CO2	Understanding the principles and concepts of Sustainable Architecture for the built environment.	1	0	1	0	0	0	3	0	0	1	0	1	2	2	2
соз	Understanding about various renewable and non renewable energy sources and their importance for Sustainable development	0	0	1	0	0	0	2	0	0	1	0	1	2	2	3
CO4	Understanding Sustainable construction materials and Indoor environment	0	0	0	0	0	1	2	0	0	1	0	1	3	1	2
CO5	Understanding various green building rating systems and ECBC code	0	0	0	0	0	1	2	0	0	1	0	1	3	1	2
CO6	Understanding assessment of Green buildings in various rating systems of India	0	1	1	0	0	1	2	0	0	1	0	1	3	1	2

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2. Moderate (Medium) – Above 30%

and upto70%

3. Substantial

(High) – above 70%



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Department: G.Z.S. SCHOOL OF ARCHITECTURE & PLANNING

MRSPTU

Program: <u>B.Arch</u>

COs, POs, PSOs Mapping

Subject: Architectural Conservation	Subject Code: BARC1-X74	Semester: 10 TH
Credit: <u>2</u>	LST P 1010	Duration: <u>3 Hrs.</u>

COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	Understanding the principle, objective, role of conservation and prepare the methodology to execute the conservation work.	3	0	0	2	0	2	1	0	2	0	3	1	1	2	3
CO2	Understanding about Methods of studying and documenting historical monuments in the context of guidelines issued by UNESCO, INTACH.	3	0	0	3	0	2	1	1	3	0	2	1	1	1	3
CO3	Understanding about Study of construction methods and structural analysis of various historical building styles e.g. Arches Domes, Vaults and Shikharas etc.	3	0	0	3	0	2	1	0	3	0	0	1	1	2	3
CO4	Understanding finishes in historical buildings and effects of weathering/ pollution on historical buildings	2	0	0	3	0	2	1	0	0	0	0	0	1	2	3
CO5	Understanding the methods of saving monuments from vandalism	2	0	0	3	0	2	1	3	0	0	0	2	1	1	3
CO6	Understanding Role of Historic Building/Area/City in Present Context	3	0	0	3	0	2	1	1	0	0	0	1	1	1	3

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2. Moderate (Medium) – Above 30%

and upto70%

3. Substantial