

Department of Architecture Assistantship
Govt. Polytechnic for Women Rehan
Distt-Kangra (H.P.)



Lesson Plan
Academic Session Jan -May 2024

| | |
|---------------------------|---------------------------------------|
| Program Name | Diploma in Architecture Assistantship |
| Subject Name | Building Material & Construction -I |
| Subject Code | ARPC-2002 |
| Semester | Second |
| Subject Co-ordinator Name | Ar. Monika |

Evaluation Scheme

| Subject Name | Study Scheme (Hrs/Week) | | Marks in Evaluation Scheme | | | | | | |
|-------------------------------------|--|----|----------------------------|----|-------|---------------------|----|-------|-------------|
| | | | Internal Assessment | | | External Assessment | | | |
| | Th | Pr | Th | Pr | Total | Th | Pr | Total | Grand Total |
| Building Material & Construction -I | 1 | 4 | 40 | 40 | 80 | 60 | 60 | 120 | 200 |
| Reference Books | 1. Harry parker, "Materials and Methods of Architectural Construction", John Wiley & Sons. Canada, limited, 1958 Taraporevala, 1965 | | | | | | | | |
| | 2. W B McKay, "Building Construction", Orient Longman 21 | | | | | | | | |
| | 3. Robin Barry. „The Construction of buildings (Vol.I-V)", Blackwell publishing | | | | | | | | |
| | 4. Olin, Harold & Schmidt, „Building Construction – Principles, Material & Methods", American Savings and Loan Institute Press, 1970 | | | | | | | | |
| | 5. Francis Ching, „Building Construction Illustrated", John Wiley, 1991 | | | | | | | | |

Coarse Outcomes (Cos)

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|------|---|
| CO:1 | Upon completion of the course, the student shall be familiar with basic components of a building. |
| CO:2 | The course shall prepare students to gain an understanding of the basic building material like brick, stone, cement etc. and would get an exposure of various bonds in bricks and stone masonry |

Teaching Plan

| Unit No | Name of Topic | Proposed Date | Actual Date | Signature | Remarks |
|---|--|---------------|-------------|-----------|---------|
| Unit 1 | Introduction Basic components of a "building"- from foundation to roof Role of Construction in Architecture- Sketches of the same to be prepared | 29/01/2024 | | | |
| | | 02/01/2024 | | | |
| | | 02/03/2024 | | | |
| | | 02/05/2024 | | | |
| | | 02/08/2024 | | | |
| Unit 2 | Basic building materials- brick, stone, cement, sand, concrete: Application, properties and defects. | 02/12/2024 | | | |
| | | 15/2/2024 | | | |
| | | 17/2/2024 | | | |
| | | 19/2/2024 | | | |
| | | 22/2/2024 | | | |
| | | 26/2/2024 | | | |
| | | 27/2/2024 | | | |
| | | 29/2/2024 | | | |
| | | 26/2/2024 | | | |
| | | 03/02/2024 | | | |
| | 03/04/2024 | | | | |
| | Effects of sun, rain, wind and other climatic and environmental conditions on building materials and built environment. | 03/07/2024 | | | |
| | | 03/11/2024 | | | |
| | | 14/3/2024 | | | |
| | | 16/3/2024 | | | |
| | | 18/3/2024 | | | |
| | | 21/3/2024 | | | |
| | | 23/3/2024 | | | |
| | | 28/3/2024 | | | |
| | | 30/3/2024 | | | |
| 08/04/2024 | | | | | |
| Introduction to paints and varnishes. Market studies such as manufacturing, types and application of the same. Introduction to popular brand names | 04/06/2024 | | | | |
| | 04/04/2024 | | | | |
| | 18/4/2024 | | | | |
| | 20/4/2024 | | | | |

Monika *Yini*

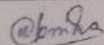
| | | | | | |
|--------|---|------------|--|--|--|
| Unit 3 | Brick Masonry Detail drawings of various types of bonding in walls such as Stretcher bond-English bond-Single & Double Flemish bond etc. These bonds are to be explained with respect to varying wall thickness such as 1/2 brick, 1 brick, 1 1/2 brick etc. and various types of junctions such as L junction- T junction- Cross junction etc. Brick Jellies, Brick Arches | 22/4/2024 | | | |
| | | 25/4/2024 | | | |
| | | 27/4/2024 | | | |
| | | 29/4/2024 | | | |
| | | 05/02/2024 | | | |
| | | 05/04/2024 | | | |
| Unit 4 | Stone masonry Detail drawings of various types such as Rubble walling, Polygonal walling, Flint walling, Ashlars walling, Masonry joints, Stone arches etc | 05/09/2024 | | | |
| | | 13/5/2024 | | | |
| | | 16/5/2024 | | | |
| | | 18/5/2024 | | | |
| | | 20/5/2024 | | | |
| | | 25/5/2024 | | | |

Assignments

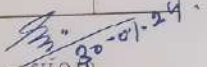
| Assignments | Contents of Syllabus Covered | Proposed Date | Actual Date | Remarks |
|-------------|------------------------------|---------------|-------------|---------|
| A-1 | Unit 1 | 16/3/2024 | | |
| A-2 | Unit 2, Unit 3 | 04/12/2024 | | |
| A-3 | Unit 4 | 05/04/2024 | | |

House Test/Class Test

| Name of Test | Syllabus for the test | Proposed Date | Actual Date | Remarks |
|--------------|---------------------------------|---------------|-------------|---------|
| CT 1 | Unit 1 | 21/3/2024 | | |
| CT 2 | Unit 1, Unit 2, Unit 3 | 18/4/2024 | | |
| HT 1 | Unit 1, Unit 2, Unit 3 & Unit 4 | As Per HPTSB | | |


(Signature of Teacher)


Principal
Govt. Polytechnic For Women Rehan
Distt. Kangra


(Signature of H.O.D.)