



Hindi Vidya Prachar Samiti's

Ramniranjan Jhunjhunwala College
of Arts, Science & Commerce
(Empowered Autonomous College)

Affiliated to

UNIVERSITY OF MUMBAI

Syllabus for the S.Y.B.Sc. (under NEP)

Program: B.Sc. INTERIOR DESIGN

Program Code: RJSUID

Semester: III

Vertical under NEP: Vocational Skill Course (VSC)

Course Code: RJVSCINDP231

(REVISED in 2024 - 2025 in alignment with the NEP 2020 facilitating the inter - and multidisciplinary learning and multiple entry and exit of the students)
Level 5.0

(CBCS 2024-2025)

Hindi Vidya Prachar Samiti's Ramniranjan Jhunjhunwala College of Arts, Science & Commerce
S.Y.B.Sc. Interior Design Syllabus - Semester III

SEMESTER	III
TITLE OF THE SUBJECT/COURSE	Interior Materials & Products
COURSE CODE	RJVSCINDP231
CREDITS	02
DURATION	30 LECTURES

LEARNING OBJECTIVES
<ol style="list-style-type: none"> 1. To understand the Materials and techniques used for Water Proofing with its features and knowledge of its different compositions and methodologies and application in design project. 2. To identify and learn the different Fire Retardant materials, its types and its features while understanding the reactions of different materials with Fire and its applications in design project. 3. To understand the Thermal Insulating materials with its different types, uses and features and its application in the design Project. 4. To study and understand the different Outdoor and Infrastructural products which are used as substitutes in present scenarios along with the discussion and application in the design project.

Course Outcome Number	On completing the course, the student will be able to:	Blooms Levels	PSO Addressed
CO 1	Understand the Materials and its various techniques used for Water Proofing with its application in the design project	1,2,3	BT Level I, II, III remember, understand & Apply
CO 2	Understand and Learn the usage of different Fire Retardant materials with its types and features and the reactions of the materials with Fire and its application in the design project.	1,2,3	BT Level I, II, III remember, understand & Apply
CO 3	Understand different Thermal Insulating Materials, its types and their applications in the design project.	1,2,3	BT Level I, II, III remember, understand & Apply
CO 4	Understand different Outdoor and Infrastructural products and its applications as substitutes in the design Project.	1,2,3	BT Level I, II, III remember, understand & Apply

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S.Y.B.Sc. Interior Design Syllabus - Semester III

SEMESTER III (PRACTICAL)		L	Cr
Paper: Interior Materials & Products	Paper Code: RJVSCINDP231	30	2
<p align="center"><i>UNIT I</i></p> <p>Materials and techniques used for water-proofing.</p> <ul style="list-style-type: none"> - What are Waterproofing Materials? All types, uses and features. - Cement Based/Liquid Waterproofing Membranes/Liquid Bituminous Membranes/ Membrane Waterproofing/Polyurethane Liquid Membranes Waterproofing - Composition of Waterproofing - Steps for Waterproofing - Discussion on applications of Waterproofing materials in the Design Project with site visits or Field Projects for better understanding. 		07	
<p align="center"><i>UNIT II</i></p> <p>Fire retardant materials and their applications.</p> <ul style="list-style-type: none"> - What are Fire Retardant Materials? All types, uses and features. - Brick/Gypsum boards/Perlite Boards/Calcuim Silicate Boards/Stucco/Magnesium Oxychloride cement/Concrete/Fire-resistant Glass for Windows/Flame treated Natural products. - Reactions of some basic materials to Fire - Wood/Concrete/Steel/Plastics/Bricks/Glass/Asbestos/Plaster or Mortar - Fire Fighting Foam and Gel/Fire retardant Doors and Windows - Discussion on applications of Waterproofing materials in the Design Project with site visits or Field Projects for better understanding. 		08	
<p align="center"><i>UNIT III</i></p> <p>Thermal insulating materials and their applications.</p> <ul style="list-style-type: none"> - What are Thermal insulating materials? All types, uses and features. - Asbestos/Glass wool/Mineral wool/Expanded Perlite/Expanded Vermiculite/Cellular Glass/Polyurethane Foam/Polystyrene (EPS)/Fiber Glass/Cementitious Foam/Phenolic Foam - Discussion on applications of Thermal insulating materials in the Design Project with site or Field Projects for better understanding. 		08	
<p align="center"><i>UNIT IV</i></p> <p>Outdoor and infrastructural products used as substitutes in present time.</p> <ul style="list-style-type: none"> - Hempcrete/Self healing concrete/Ashcrete/Fiber cement/Ferrock/Bamboo concrete - Discussion on applications of outdoor and infrastructural products that can be used as substitutes in the Design Project with site visits or Field Projects for better understanding. 		07	

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Suggested References:

1. Water Proofing by Myron Henry Lewis (Year 2023); Published by Legare Street Press.
2. Repair, Protection & Water Proofing of Concrete Structures by P. Perkins (Year 2019); Published by CRC Press.
3. Fire Retardant Materials by A.R.Horrocks (Year 2001); Published by CRC Press.
4. Fire Fighting Handbook by B.M.Sen (Year 2021); Published by Techno World.
5. Thermal Insulation for Building Construction by Johannes H. Bruun (Year 2018); Published by Forgotten Books.
6. Thermal Insulation Materials for Building Applications by Eshrar Latif, Rachel Bevan & Tom Woolley; Published by ICE Publishing.
7. Interior Design by Ahmed A. Kasu (Year 2018); Published by Ashish Book Centre