



SARVAJANIK UNIVERSITY

W-2025 Date: 04-12-25 Time :09:30 AM to 11:30 AM

Regular / Backlog Exam

Master of Interior Design- SEMESTER- 1 EXAMINATION

Course Code: MFGN12101 MFGN12107

Total Marks: 50

Course Name: Futuristic Materials and System Integration

Instructions:

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

Q.1	A	Answer in short/Define. (16 marks)
	1	What is electric paint? What it uses to conduct electricity?
	2	What is Additive Manufacturing ?
	3	What is shape memory material.
	4	What is Robotic fabrication?
	5	Which factors or parameters effecting the selection of materials for designs?
	6	Define Intelligent Building / futuristic building.
	7	Explain reusable / recyclable.
	8	What is Module system integration?
	B	Answer in brief.(4 marks)
	1	What is Thermo-chromic paint? Brief out any 2 specific examples in interior applications.
OR	2	What techniques, process and finishes can be applied to Fabric panels by PANECO?

Q.2	A	Answer in detail.(Any 2) (16 marks)
	1	What is open source furniture? how one can use open source term in interior design? Mention and explain any executed example.
	2	Define Advanced HVAC technologies.
	3	How can you conceptualize futuristic materials and technologies explain briefly with examples.
	B	Answer in brief.(4 marks)
	1	Describe Futuristic Term and Integrated System Term.
OR	2	List the Characteristics of sustainable materials . brief with example.
Q.3		Answer in detail. (10 marks)
	1	What is kinetic Interiors? Design and sketch the concept by using kinetic-ism in interiors.
OR	2	Why using sustainable building materials makes sense economically as well as ecologically:
OR	3	Mention any 5 Home Automation ideas and explain any 2 in details with sketch/ diagram/ process/ idea.

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