Sl. No.	Sub. Code	Theory	Contact Hours			Credit
			L	T	P/S	
3.4	22EAR0343	Elective 4. Building System Integration & Management	**3**	**0**	**0**	**3**

Course Objective	To familiarize students to advanced building systems and their integration to achieve effective functioning.
Anticipated Learning Outcomes:	Awareness about integrated building management systems. optimization of various systems, and home automation technology.
Module 1	System and Sub-systems in buildings, relationship and analysis of subsystems.
Module 2	Building systems for different building typologies, Optimization and sub-system;
Module 3	Control systems for various buildings services, Types of controllers. Preparation of necessary drawings for installing control systems.
Module 4	Integrated building management system, remote monitoring and management, Home automation, Developments in service control systems.
Module 5	Case studies as suggested by the faculty

Note: Most Architectural subjects do not have Textbooks. The Reference books mentioned below are for reference only and University question paper should be prepared from the Syllabus descriptions.

References

1. *Understanding Building Automation Systems (Direct Digital Control, Energy Management, Life Safety, Security, Access Control, Lighting, Building Management Programs) by Reinhold A. Carlson, Robert A. Di Gian Domenico.*
2. *Building Control Systems, Applications Guide (CIBSE Guide) by The CIBSE (2000).*
3. *Sinopoli J. (2010). Smart Building Systems for Architects, Owners and Builders. Elsevier Inc. USA.*