

00504

BACHELOR OF ARCHITECTURE (B.ARCH)

Term-End Examination

June, 2014

**BARE-079 : INTELLIGENT BUILDING SYSTEMS
(ELECTIVE - 2)**

Time : 3 hours

Maximum Marks : 70

*Note : Attempt any five. All questions carry equal marks.
Draw neat sketches wherever necessary.*

1. (a) Write short notes on **any two** : 7
 - (i) Effective Space Management
 - (ii) Effective Buildings
 - (iii) Facility Management Planning
- (b) Differentiate between Automated buildings and Responsive buildings. 7

2. Discuss in detail the use of information technology for effective communication for building operations and control in response to functional use. Explain with suitable examples. 14

3. Define Intelligent Buildings (IB). Discuss about the development of I.B. concept through recent times. 14

4. Discuss in detail about the application of technology and techniques in buildings enhancing energy efficiency with respect to life cycle costs. 14

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| 5. | Discuss in detail about the sensing and auto operational devices with respect to building services that make a building intelligent. Illustrate with suitable examples. | 14 |
| 6. | (a) Explain Building Control Systems. | 7 |
| | (b) Discuss computer integrated building from single function systems to integrated solutions. | 7 |
| 7. | (a) Explain multiple activity settings in building intelligent systems. | 7 |
| | (b) Discuss design activity and building element life - cycles. | 7 |
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