**BARE-079**

# BACHELOR OF ARCHITECTURE (B.Arch.)
## Term-End Examination
00285          **December, 2014**

## BARE-079 : INTELLIGENT BUILDING SYSTEMS (ELECTIVE – 2)

*Time : 3 hours*                    *Maximum Marks : 70*

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

1.  (a)  Write short notes on any **two** of the following :                                    *4*

        (i)   Concepts of Building Management

        (ii)  Effective Space Management

        (iii) Business Management

    (b)  Discuss about the models of Building intelligence.                                    *10*

2.  (a)  Describe the characteristics of Intelligent Building (IB) systems.                        *7*

    (b)  Write a brief history of IB concept development.                                        *7*

3. (a) Explain Generic Analysis of Space Utilisation. *7*

   (b) Discuss about the match between organisational requirements and building technologies. *7*

4. Discuss briefly about the issues related to site, shell, skin, technology and services in a building. *14*

5. Discuss about the application of technology and techniques for enhancing energy efficiency with respect to life cycle costs in a building. *14*

6. Write about the applicability of Internet in different aspects of building systems with special emphasis on security systems, building control systems and lighting control systems. *14*

7. Discuss in detail the importance of facility management planning and operation technique, with suitable examples. *14*