**ARC7102: THEORY OF DESIGN [30 CH]**

**Description**

This is a theory course that introduces the students to wider design theories for practical applications to complex designs. It provides the student with knowledge that guide the design process.

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**Objectives**

1. To ground the student in the theories of architectural design at a high level
2. To equip the student with skills of analysing and applying design theories in the design process

**Course Content**

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| 1. | Contextual and user analysis | **[05 CU]** |
| 2. | Role of the designer in society | **[05 CU]** |
| **3.** | Design development and synthesis | **[05 CU]** |
| **4.** | Evaluation of strategies | **[05 CU]** |
| 5. | Use of materials | **[05 CU]** |
| **6.** | Teamwork methods | **[05 CU]** |

**Learning Outcomes**

At the end of the course the students should be able to:

1. Apply the design theories pertaining to the socio-economic environment under consideration.
2. Work as a team in handling design projects
3. Develop strategies for approaching a design challenge

**Teaching and Learning Pattern**

The course will be delivered through a mixture of lectures, tutorials, illustrations, and group discussions. Lecture material will be supplemented by individual reading by students.

**Mode of Assessment**

Assessment will be done through continuous coursework and final written examination. Continuous assessment will include assignments, tests and practical exercises. A final examination will be offered at the end of the semester. Coursework will carry a total of 40% and a written examination will carry 60%.

**Mode of delivery**

Lectures/Seminars/ (30 hours), Practicals (0 hours). The total contact hours are 30

**Recommended Reference Books/ Literature**

1. Daniels, K. (1999) Advanced Building Systems: A Technical Guide for Architects and Engineers

2. Reese, G. (2009) Cloud Application Architectures: Building Applications and Infrastructure in the Cloud (Theory in Practice (O'Reilly))
3. Brumbaugh, L.J. (1992) Vsam: Architecture, Theory, and Applications (J Ranade Ibm Series)
4. Eggen, P., and Sandaker, N. (1995) Steel, Structure, and Architecture: A Survey of the Material and Its Applications
5. Handley, J. (2008) Enterprise Architecture Best Practice Handbook: Building, Running and Managing Effective Enterprise Architecture Programs - Ready to use supporting ... Enterprise Architecture Theory into Practice
6. de Valence, G. (2010) Modern Construction Economics: Theory and Application
7. Cox, T.J. and D'Antonio, P. (2009) Acoustic Absorbers and Diffusers: Theory, Design and Application