**ARC7202 BUILDING TYPES [30 CH]**

**Description**

The course introduces the students to detailed focus in the design and construction of different types of buildings. The students have the opportunity to specialise in the building type of their choice by carrying out detailed study of the design and functioning of the chosen type.

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**Objectives**

1. Students to master and be able to apply the functional and circulation principles
2. Students to acquire advanced skills in designing technical systems of different building types

**Course Content**

1. Functional and circulation Principles **[10 CU]**
	1. Relationships of form
	2. Functions
2. Technical systems **[20 CU]**
	1. commercial
	2. Industrial
	3. Health
	4. Educational and research
	5. Administrative
	6. Religious
	7. Cultural
	8. Recreational
	9. Sporting
	10. Residential

**Learning Outcomes**

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

* 1. Deal with the design requirements of different building types
	2. Competently handle complex architectural designs

**Teaching and Learning Pattern**

The course will be delivered through a mixture of Lectures, seminars, 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 (30 hours), Practicals (0 hours). The total contact hours are 30

**Recommended Reference Books/ Literature**

De Chiara, J. and Crosbie, M.J. (2001) [Time-Saver Standards for Building Types](http://www.amazon.com/Time-Saver-Standards-Building-Joseph-Chiara/dp/0070163871/ref%3Dsr_1_10?s=books&ie=UTF8&qid=1300874674&sr=1-10)

Diedrich, R. J. (2005) [Building Type Basics for Recreational Facilities](http://www.amazon.com/Building-Type-Basics-Recreational-Facilities/dp/0471472603/ref%3Dsr_1_16?s=books&ie=UTF8&qid=1300874822&sr=1-16) by [Richard J.](http://www.amazon.com/Richard-J.-Diedrich/e/B001KDXQV6/ref%3Dsr_ntt_srch_lnk_16?qid=1300874822&sr=1-16)

Goody J., Chandler, R., Clancy J. And Dixon D. (2010) [Building Type Basics for Housing](http://www.amazon.com/Building-Type-Basics-Housing-Goody/dp/0470404647/ref%3Dsr_1_6?s=books&ie=UTF8&qid=1300874674&sr=1-6)

Hamilton D. K. and Watkins D. H. (2008) [Evidence-Based Design for Multiple Building Types](http://www.amazon.com/Evidence-Based-Design-Multiple-Building-Types/dp/0470129344/ref%3Dsr_1_25?s=books&ie=UTF8&qid=1300874902&sr=1-25)

Hoglund, D. J., King, D., and Cohen E. (2004) [Building Type Basics for Senior Living](http://www.amazon.com/Building-Type-Basics-Senior-Living/dp/0471226726/ref%3Dsr_1_3?s=books&ie=UTF8&qid=1300874674&sr=1-3)

James, W., Ojeda O. R. (1999) [Single Building: Type Variant House: The Process of an Architectural Work](http://www.amazon.com/Single-Building-Variant-Process-Architectural/dp/1564965236/ref%3Dsr_1_13?s=books&ie=UTF8&qid=1300874822&sr=1-13)

Kobus, R. L., Skaggs, R. L., and Thomas, J. (2008) [Building Type Basics for Healthcare Facilities](http://www.amazon.com/Building-Type-Basics-Healthcare-Facilities/dp/0470135417/ref%3Dsr_1_1?s=books&ie=UTF8&qid=1300874674&sr=1-1)

Kohn, A. E., and Katz, P. (2002) [Building Type Basics for Office Buildings (Building Type Basics Series)](http://www.amazon.com/Building-Type-Basics-Office-Buildings/dp/0471389234/ref%3Dsr_1_8?s=books&ie=UTF8&qid=1300874674&sr=1-8) Perkins L. B. (2010) [Building Type Basics for Elementary and Secondary Schools](http://www.amazon.com/Building-Basics-Elementary-Secondary-Schools/dp/0470225483/ref%3Dsr_1_9?s=books&ie=UTF8&qid=1300874674&sr=1-9)

McDonough, B., Hill, J., Glazier, R. and Lindsay W. (2001) [Building Type Basics for Hospitality Facilities](http://www.amazon.com/Building-Type-Basics-Hospitality-Facilities/dp/0471369446/ref%3Dsr_1_11?s=books&ie=UTF8&qid=1300874674&sr=1-11)

Neuman, d. J. (2003) [Building Type Basics for College and University Facilities](http://www.amazon.com/Building-Basics-College-University-Facilities/dp/0471439630/ref%3Dsr_1_5?s=books&ie=UTF8&qid=1300874674&sr=1-5)

Roberts N. W. (2004) [Building Type Basics for Places of Worship](http://www.amazon.com/Building-Type-Basics-Places-Worship/dp/0471225681/ref%3Dsr_1_32?s=books&ie=UTF8&qid=1300874902&sr=1-32)

The Jerde Partnership (2004) [Building Type Basics for Retail and Mixed-Use Facilities](http://www.amazon.com/Building-Basics-Retail-Mixed-Use-Facilities/dp/047120322X/ref%3Dsr_1_22?s=books&ie=UTF8&qid=1300874822&sr=1-22)

Watch, D., Kliment S. A., and Perkins and Will (2008\_ [Building Type Basics for Research Laboratories](http://www.amazon.com/Building-Type-Basics-Research-Laboratories/dp/047016333X/ref%3Dsr_1_4?s=books&ie=UTF8&qid=1300874674&sr=1-4)

Williams H. (2010) [Building Type Basics for Banks and Financial Institutions](http://www.amazon.com/Building-Basics-Banks-Financial-Institutions/dp/0470278625/ref%3Dsr_1_17?s=books&ie=UTF8&qid=1300874822&sr=1-17)