PGD in Real Estate Construction and Management			Trimester I			
Building	ilding Construction		Code: RECM 04			
Periods	ds per week Lecture 03					
			Practical			
			Tutorial	02		
<b>Evaluation Schome</b>			Hours	Marks	Marks	
Scheme	gement Is per week ation ne  Founda Necessi	Term End Examination (Theory)	03	100 (Weightage 50%)		
		Internal Continuous Assessment	-	03     02   Marks   100 (Weightage 50%   50 (Weightage 100%   20   30   30   30   a structure   E   E   E   E   E   E   E   E   E	00%)	
		Test	01	20		
		Quiz/viva/ presentations/ group work based on assignments given by faculty		30		
Objectiv	es	<ul><li>To Study various con</li><li>To Study key aspects</li></ul>		•	es	
Outcome		After successful completion of this course, students will be able to				
		Assess the construction methods of each element of a structure				
		Design typica	al elements for	a structure		
		Detaile	ed Syllabus			
Units		Тор	oics		Duration (Hrs.)	
1	Founda	tion:			04	
	Necessity and Purpose of Foundation, Shallow Foundation, Spread foundation, raft foundation, deep foundation and its types, Precast concrete piles. Modern methods of pile installation					

2.	Masonry: Terminology, Preparation, construction procedure, post construction precautions, brick masonry stretcher bond and half brick thick masonry, hollow and solid concrete block masonry, fixing of door and window frame in masonry, block masonry. Procedure of constructing un-coursed Rubble and coursed masonry.		
3	Excavation:	03	
	Manual and mechanical method of Excavation, characteristics of machines used for excavation, disposal of excavated material, dewatering of trenches, different methods used, shoring and strutting of Trenches, precaution while excavation, fencing – caution signs.		
4	Formwork and Scaffolding:	03	
	Types, basic factors governing selection. Erecting and removal of formwork. Scaffolding types, precautions		
5	Cement Concrete:	04	
	Basics of Mix design of concrete and uses of different mix of concrete, procedure of mixing concrete, manual and machine mixing, transporting laying, compacting and curing of concrete, admixtures used in concrete, Ready mix concrete. High performance concrete		
6	Reinforced Cement Concrete:	04	
	Terminology, Different types of RCC members, definitions, functions, ingredients of R.C.C. concrete, shape and types of Reinforcing steel bars used in RCC members.		
7	Floors:	04	
	Solid ground floor, plinth fillings, floor finish with murum, brick-bat concrete, Indian patent stone, cement tiles, China mosaic, floorings for special purposes such as factories, warehouses, stables, garages, railway platforms, upper floors: jack arch construction, mezzanine floors and lofts.		
8	Pointing & Plastering:		
	Necessity and types, methods of providing pointing and plastering	03	
	Total	30	

## **Text books:**

- 1. Chudley Roy(2013) "Building Construction Handbook" Routledge Publications.
- 2. Mantri Sandeep (2011) "The A to Z of Practical Building Construction and its Management" Mantri Publications.

## **Reference Books:**

- 1. Mathur S. (2012) "Building Construction Handbook" SBS Publishers.
- 2. McKay (2013) "Building Construction" Pearson India
- 3. Shepelev. A, (1986) "Plastering", Mir Publishers, Moscow.

## **Internal Continuous Assessment**

- 1. One class test based on the above syllabus.
- 2. Quiz, viva, presentation, Group work, based on assignments given by faculty.