

<b>Department of Building Engineering</b>			
<b>Building Construction Engineering (68350)</b>			
<b>Total Credits</b>	<b>2</b>		
<b>major compulsory</b>			
<b>Prerequisites</b>	P1 : Design of Reinforced Concrete Structures I (61390)		
<b>Course Contents</b>			
1) preparing the site for construction ,2) site in vestigation, 3) foundation, 4) form work, 5) steel work , 6) concrete, 7) Types of building &walls, 8) Brick work, 9) masonry, 10) stairs			
<b>Intended Learning Outcomes (ILO's)</b>		<b>Student Outcomes (SO's)</b>	<b>Contribution</b>
1	Ability to identify and design activities required to prepare to implement construction of building.	E	15 %
2	-Ability to identify and design steps and activities required to implement construction of different types of footings.	E	15 %
3	Ability to identify typed of formwork and to design formwork.	K	15 %
4	Ability to identify types of construction elements in buildings and to design their implementation steps.	C	5 %
5	ability to identify and plan activities required to construct reinforce concrete work including steel and concrete works in site.	E	25 %
6	Ability to identify and design activities required for construction of masonry , brick work , stairs &joints	E	25 %
<b>Textbook and/ or References</b>			
1. Building construction principles and practices , Denis Walton , MaCMILLAN 2. Building construction Hand book , Roy chudley & Roger Greeno 3. Building construction principles, materials , and systems, Medan Mehta, Walter Scarborough. Diane Armpriest . 4. Building Construction illustrated, Francis D.K. CHING.			
<b>Assessment Criteria</b>		<b>Percent (%)</b>	
First Exam		20 %	
Second Exam		20 %	
Laboratory Work		20 %	
Final Exam		40 %	
<b>Course Plan</b>			
<b>Week</b>	<b>Topic</b>		
1-2	Preparing the site for construction & site investigation		
3-4	Foundation		
5-6	Form work		
7	Steel work		
8-9	Concrete		
10	Types of building & walls		
11-12	Brick and masonry work		
13	Stairs		
14-15	Finishing ( tiling , plastering , .. etc)		
16	Final Exam		