ADDIS ABABA UNIVERSITY ADDIS ABABA INSTITUTE OF TECHNOLOGY SCHOOL OF CIVIL AND ENVIRONMENTAL ENGINEERING

CENG 3122 – REINFORCED CONCRETE STRUCTURES II [3] (5 CP) ACADEMIC YEAR: 2019/2020

COURSE OUTLINE

1.	Plastic Moment Redistribution	Ма	rk Distribution:*	
	1.1. Introduction	Ass	signments	10%
	1.2. Plastic hinge and collapse mechanism	Tes	st 1& Test 2	30%
	1.3. Rotation requirement	Fin	al Examination	40%
	Assignment I	Ser	mester Project	20%
2.	Continuous Beams, One-Way Solid And	Tot	al	100%
	Ribbed Slabs			
	2.1. Introduction	Ref	ferences:	
	2.2. Analysis and design of continuous beams.	1.	Reinforced Concrete: Design, by James G	
	2.3. Analysis and design of one way slabs		James K Wight.	macereger and
	2.4. Analysis and design of one way ribbed	2	Design of Concrete	Structures by
	slabs		Arthur H. Nilson, Da	-
	Test 1		Charles W. Dolan.	
_	Assignment II	3.	Reinforced Concrete	
3.	Two Way Slabs		Approach, by Edward	
	3.1. Introduction	4.		•
	3.2. Analysis and design of two way beam supported slabs		Structures- Part-1; G Rules for Buildings	eneral Rules and
	3.3. Analysis and design of flat slabs Assignment III		3	
4.	Column		Instructors:	
	4.1. Introduction			
	4.2. Analysis and design of short columns			
	4.3. Analysis and design of slender			
	columns			
	Assignment IV			
	Test 2			
5.	Torsion			
	5.1. Introduction			
	5.2. Equivalent truss analogy			Blog Link
	5.3. Design for torsion		https://aai	trc2.wordpress.com
	Assignment V			
	Final Exam	Ì		