


AMOU UNIVERSITY
“A Vehicle for Peace and Development”
AMOU UNIVERSITY



FACULTY OF ENGINEERING

BACHELOR OF SCIENCE IN CIVIL ENGINEERING
ACADEMIC YEAR 2015/ 2016

COURSE DESCRIPTION

	Structures II		
Contact Hours			
Pre-requisite	N/A		
Purpose/Aim	This course provides an introduction to the analysis of indeterminate structural systems common in Civil Engineering.		
Course Objective (Indicative Learning Outcomes)	Students will be able to: <ul style="list-style-type: none"> • Identify, formulate, and solve support reactions of trusses, beams, and frames. • Apply the force method to analyze statically indeterminate beams and frames. • Use approximate methods to evaluate the statically indeterminate structural responses. • Employ the stiffness method to solve complex trusses, beams, and frames.. 		
Course Content			
Learning & Teaching Methodologies	Lectures, tutorials and computer laboratory exercises		
Instructional Materials/Equipment	Classroom with audio visual aids Computer laboratory		
Course Assessment	Type		Weighting (%)
	Final Examination		60
	Mid Term Examination		20
	Assignment		10
	Attendance		10
	Total		100
Recommended Reading	Title	Author	Publisher
Additional Reading			
Other Support Material	A variety of multimedia systems and electronic information resources as prescribed by the lecturer. Various application manuals, URL search and journals.		