


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

CENG 210	Open Channel		
Contact Hours	3		
Pre-requisite	N/A		
Purpose/Aim	The goal of this course is for students to develop a mechanistic understanding of steady and unsteady fluid flow in channels including streams, rivers, and tidal wetlands		
Course Objective (Indicative Learning Outcomes)	Students will be able to: <ul style="list-style-type: none"> • Apply energy and momentum concepts to analyze open channel flow. • Apply the Manning Equation and Chezy Equation to describe uniform flow. • Classify gradually varied flow profiles. • Recognize the unsteady flow equations and understand the concept of characteristics. • Develop simple software that solves open channel flow equations, and apply the software for analysis and design purposes. 		
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.		



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Various application manuals, URL search and journals.
