


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

Engineering Hydrology			
Contact Hours			
Pre-requisite	N/A		
Purpose/Aim	<p>The aim of this course is to</p> <ul style="list-style-type: none"> • Understand how observations of the hydrologic cycle are made and how they can be appropriately used. • Understand how to predict risks and reliabilities of flood control systems. 		
Course Objective (Indicative Learning Outcomes)	<p>The students will able to</p> <ul style="list-style-type: none"> • Complete a water balance on a watershed. • Understand how to obtain process and use hydrologic data from various sources. • Understand measurements techniques of the components of the hydrologic cycle and the associated errors, advantages, and limitations. • Understand the significance of global and local precipitation patterns. • Use unit hydrographs for engineering applications. • Apply Standard River and reservoir routing techniques. 		
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			



AMOUD UNIVERSITY
“A Vehicle for Peace and Development”

Other Support Material	A variety of multimedia systems and electronic information resources as prescribed by the lecturer. Various application manuals, URL search and journals.
------------------------	--