

**“Excellence in Science, Technology  
and Environmental Sustainability”**

# **FACULTY OF SCIENCE AND NATURAL RESOURCES**

## **BACHELOR OF SCIENCE WITH HONORS**

BPKP CODE PROGRAMME OFFERED

**HS09 Mathematics with Computer Graphics**

### **For further inquiries, please contact:**

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HS09 MATHEMATICS WITH COMPUTER GRAPHICS						
	Year 1		Year 2		Year 3	
	Semester 1	Semester 2	Semester 3	Semester 4	Semester 5	Semester 6
UNIVERSITY CORE (PROMOTIONAL) OF KNOWLEDGE (12 CREDIT HOURS)	UW00202 TITAS UE00402 Introduction to ethics UK00402 Learn Techniques And Skills (6 credit hours)	UC00602 Speech Communication And Professional UW00102 Ethnic Relations (4 credit hours)	UW00302 Introduction to Entrepreneurship (2 credit hours)			
UNIVERSITY CORE LANGUAGE (8 CREDIT HOURS)	UB00102 Language 1 (2 credit hours)	UB00202 Language 2 (2 credit hours)	UB00302 Language 3 (2 credit hours)	UB00402 Language 4 (2 credit hours)		
UNIVERSITY CORE CO-CURRICULUM (3 CREDIT HOURS)	ES01203 Co-curriculum (3 credit hours)					
FACULTY CORE (7 CREDIT HOURS)	ST00702 Computer Programming and Simulation (2 credit hours)	ST00803 Statistical Programming Package (3 credit hours)	ST00902 Scientific Writing (2 credit hours)			
PROGRAMME CORE (61 CREDIT HOURS)	SM10103 Mathematics I SM10303 Statistical Economics (6 credit hours)	SM10203 Mathematics II (3 credit hours)	SM20103 Linear Algebra SM20303 Advanced Mathematics I SM20503 Discrete Mathematics (9 credit hours)	SM20203 Differential Equations SM20402 Numerical Computation SM20803 Real Analysis SM21202 Mathematical Programming SM21402 Cryptography (12 credit hours)	SM 30103 Project I SM 30302 Numerical Methods SM 30503 Complex Variable Calculus SM 30903 Fuzzy Mathematics SM31102 Computational Geometry SM31303 Control Mathematics (16 credit hours)	SM0206 Project II SM0403 Engineering SM0803 Mathematics II Modelling (s)

SM31003

Course Structure Session 2015 / 2016

HS09 MATHEMATICS WITH COMPUTER GRAPHICS							
		Year 1		Year 2		Year 3	
		Semester 1	Semester 2	Semester 3	Semester 4	Semester 5	Semester 6
MINOR / ELECTIVE (29 CREDIT HOURS)	<b>SW10302</b> Computer Organization And Architecture (3 credit hours)	<b>SW10603</b> System Analysis And Design <b>SW10403</b> Object Oriented Programming (6 credit hours)	<b>SW20503</b> Fundamental of Computer Graphics <b>SW20703</b> Data Structures (6 credit hours)	<b>SW20603</b> Database <b>SW20803</b> Fundamental of Image Processing (6 credit hours)	<b>SW30503</b> Real-Time Graphic (3 credit hours)	<b>SW30403</b> Programming Computer Interfacing <b>SW30603</b> Scientific Data Visualization (6 credit hours)	
TOTAL (120 CREDIT HOURS)	21	18	21	20	19	21	

