

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

FACULTY OF SCIENCE AND NATURAL RESOURCES

BACHELOR OF SCIENCE WITH HONORS

BPKP CODE PROGRAMME OFFERED

HS22 Physics with Electronics

For further inquiries, please contact:

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HS22 PHYSICS WITH ELECTRONICS

	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 Islam & Asian Civilisation UE00X02 Soft Skill I UK00X02 Soft Skill II (6 credit hours)	UW00102 Ethnic Relation UC00X02 Soft Skill III (4 credit hours)	UW00302 Introduction to Entrepreneurship (2 credit hours)			
UNIVERSITY CORE LANGUAGE (8 CREDIT HOURS)	UB00102 BI1 or UB00402/ UB00502/ UB00602 BI4 (2 credit hours)	UB00202 BI2 or UX00102 BA1 (2 credit hours)	UB00302 BI3 or UX00202 BA2 (2 credit hours)	UB00402/ UB00502/ UB00602 BI4 or UX00302 BA3 (2 credit hours)	UB00700 BI5 (0 credit hours)	
UNIVERSITY CORE CO-CURRICULUM (3 CREDIT HOURS)	ED/EU/EP/EJ10101 EK/EA/ES/EB/EW/ EROXX03 or (3/1 credit hours)	ED/EU/EP/EJ10201 (0/1 credit hours)	ED/EU/EP/EJ20101 (0/1 credit hours)	ED/EU/EP/EJ20201 (0/1 credit hours)	ED/EU/EP/EJ30101 (0/1 credit hours)	ED/EU/EP/EJ30201 (0/1 credit hours)
FACULTY CORE (10 CREDIT HOURS)	ST00102 Basic Mathematics (2 credit hours)	ST00202 Basic Statistics (2 credit hours)	ST00502 Basic Chemistry ST00902 Scientific Writing (4 credit hours)	ST00702 Computer Programming and Simulation (2 credit hours)		
PROGRAMME CORE (61 CREDIT HOURS)	SF10101 Physics Electronics Practical I SF10303 Physics I (Mechanics) SF10503 Physics II (Electricity and Magnetism) (7 credit hours)	SF10201 Physics Electronics Practical II SF10403 Mathematical Method in Physics I SF10603 Physics III (Wave and Optics) SF10803 Modern Physics (10 credit hours)	SF20101 Physics Electronics Practical III SF20303 Mathematical Method in Physics II SF20503 Thermodynamics Physics SF20703 Physics Methods for Experiments and Measurements (10 credit hours)	SF20201 Physics Electronics Practical IV SF20403 Statistical Physics SF20603 Quantum Physics SF20803 Solid State Physics SF21003 Computational Physics and Modelling (13 credit hours)	SF30103 Project I SF30303 Instrumentation Physics #SF30703 X-Ray Crystallography #SF30903 Noise and Vibration #SF31103 Nuclear Physics (9 credit hours)	0206 ect II 0403 rg 0503 Physics s)

Course Structure Session 2015 / 2016

HS22 PHYSICS WITH ELECTRONICS

		Year 1		Year 2		Year 3	
		Semester 1	Semester 2	Semester 3	Semester 4	Semester 5	Semester 6
MINOR (26 CREDIT HOURS)			SE10203 Basic Electronics (3 credit hours)	SE20103 Digital Electronics (3 credit hours)	SE20203 Advanced Electronics (3 credit hours)	SE30103 Semiconductor Physics SE30303 Communication Electronics SE30403 Optoelectronics (9 credit hours)	SE30203 Semiconductor Technology SE30602 Special Topics in Physics with Electronics *SE30803 Microprocessor *SE31003 Electroacoustics *SE31203 Digital Signal Processing (8 credit hours)
TOTAL (120/123 CREDIT HOURS)	20/18		21/22	21/22	20/21	18/19	20/21

Selective courses in program core, take one course only

* Selective courses in minor, take one course only

Note : Offered courses are subjected to changes.

