

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

# **FACULTY OF SCIENCE AND NATURAL RESOURCES**

## **BACHELOR OF SCIENCE WITH HONORS**

BPKP CODE PROGRAMME OFFERED  
**HS07 Industrial Chemistry**

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

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## HS07 INDUSTRIAL CHEMISTRY

	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 UE00X02 Soft Skill I UK00X02 Soft Skill II (6 credit hours)	UW00102 Ethnic Relation (HE) UE00X02 Soft Skill I (4 credit hours)	UW00302 Introduction to Entrepreneurship (2 credit hours)			
UNIVERSITY CORE LANGUAGE (8 CREDIT HOURS)	UB00102 or UB00402/ UB00502/ UB00602 (2 credit hours)	UB00202 or UX00102 BA1 (2 credit hours)	UB00302 or UX00202 BA2 (2 credit hours)	UB00702 or UX00302 BA3 (2 credit hours)		
UNIVERSITY CORE CO-CURRICULUM (3 CREDIT HOURS)	EK/EA/ES/EB/EW/ ER0XX03 or ED/EU/EP/EJ10101 (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 (11 CREDIT HOURS)	ST00602 Basic Physics (2 credit hours)	ST00402 Basic Biology ST00102 Basic Mathematics (4 credit hours)	ST00902 Scientific Writing (2 credit hours)	ST00803 Statistical Programming Package (3 credit hours)		
PROGRAMME CORE (80 CREDIT HOURS)	SK10101 Physical Chemistry Practical I SK10301 Organic Chemistry Practical I SK10503 Physical Chemistry I SK10703 Organic Chemistry I (8 credit hours)	SK10201 Analytical Chemistry Practical I SK10401 Inorganic Chemistry Practical I SK10603 Analytical Chemistry I SK10803 Inorganic Chemistry I SK11002 Laboratory Safety and Accreditation (10 credit hours)	SK20101 Physical Chemistry Practical II SK20301 Organic Chemistry Practical II SK20503 Physical Chemistry II SK20703 Organic Chemistry II SK20903 Environmental Chemistry for Industry SK21102 Materials and Nanomaterials Chemistry (13 credit hours)	SK20201 Analytical Chemistry Practical II SK20401 Inorganic Chemistry Practical II SK20603 Analytical Chemistry II SK20803 Inorganic Chemistry II SK21003 Organic Spectroscopy SK21203 Principles and Technology of Chemical Processes SK21402 Separation Technology and Instrumentation (16 credit hours)	SK30103 Project I SK30303 Applied Physical Chemistry SK30503 Industrial Inorganic Chemistry Processes SK30703 Industrial Organic Chemistry Processes SK30903 Nanotechnology (15 credit hours)	0206 ect II 0403 ng 0603 stry and Technology  Technology for 003 echnology of rocesses s)

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		Year 1		Year 2		Year 3	
		Semester 1	Semester 2	Semester 3	Semester 4	Semester 5	Semester 6
ELECTIVE (6 CREDIT HOURS)						*SK31103 Natural Products Chemistry and Drugs Discovery *SK31303 Residue and Pesticide Analysis *SK31503 Advanced Inorganic Materials *SK31703 Electrochemical Technology (3 credit hours)	*SK31203 Biofuel Technology *SK31403 Forensic Chemistry *SK31603 Petrochemical Catalysts and Catalysis *SK31803 Principles and Technology in Food Industry (3 credit hours)
TOTAL (120/123 CREDIT HOURS)		21/19	20/21	19/20	21/22	18/19	21/22

\* Choose TWO (2) only; i.e. one for every semester

