

FACULTY OF PSYCHOLOGY AND EDUCATION

BACHELOR IN EDUCATION WITH HONOURS

BPKP CODE PROGRAMME

HT16 Education with Science

For further inquiries, please contact:
Faculty of Psychology and Education
Administrative Office
Block of Psychology

Tel : 6088 - 320000
Ext : 8142 / 8242 / 8011
Fax : 6088 - 320 101
E-mail : pejfp@ums.edu.my

Administrative Office Block of
Education

Tel : 088 - 320 000
Ext : 2506
Fax : 088 - 320 268
E-mail : pejfp@ums.edu.my

HT16 Education with Science Programme Major: Biology, Minor: Chemistry

	Level 1		Level 2		Level 3		Level 4	
	Semester 1	Semester 2	Semester 3	Semester 4	Semester 5	Semester 6	Semester 7	Semester 8
UNIVERSITY'S CORE PROMOTION OF KNOWLEDGE (12 CREDIT HOURS)	UW00202 Islam & Asian Civilisation UE00X02 Soft Skills I UK00X02 Soft Skills II	UW00102 Ethnic Relation UC00X02 Soft Skills III	UW00302 Introduction to Entrepreneurship					
UNIVERSITY'S CORE LANGUAGE (8 CREDIT HOURS)	UB00102 English Module (1) - Communicative English Grammar	UB00202 English Module (2) - Oral Communication In English	UB00302 English Module (3) - Reading & Writing In English	UB00402 English Module (4) - Academic Reading and Writing				
UNIVERSITY'S CORE CO-CURRICULUM (3 CREDIT HOURS)	CCXXXX3 Co-Curriculum							
FACULTY CORE (27 CREDIT HOURS)	TT00103 Philosophy and Education in Malaysia	TT00203 Application of Psychology in Teaching	TT00303 Pedagogical Theories and Practices	TT00703 Computer and Multimedia in Education	TT01003 Basic Educational Research TT00903 Malay Language Skills in Education	TT00503 Evaluation in Education	TT01303 Educational Management and Administration TT00803 Educational Sociology	

HT16 Education with Science Programme Major: Biology, Minor: Chemistry

	Level 1		Level 2		Level 3		Level 4	
	Semester 1	Semester 2	Semester 3	Semester 4	Semester 5	Semester 6	Semester 7	Semester 8
PROGRAMME CORE MAJOR : BIOLOGY (52 CREDIT HOURS)	TB10103 Cell and Structure Biology TB10302 Laboratory Safety	TB10003 Botany	TB20103 Microbiology TB20303 Zoology	TB20003 Genetic TB20203 Ecology TB20403 Biochemistry	TB30103 Teaching Methods I (Biology) TB30303 Teaching Methods II (Chemistry) TB30503 Systematics TB30703 Biotechnology	TB30003 Teaching Methods III (Advance) TB30203 Plant Physiology TB30403 Animal Physiology		TB40008 Teaching Practical
PROGRAMME CORE MINOR : CHEMISTRY (29 CREDIT HOURS)	TK10101 Fundamental Chemistry Practical TK10302 Fundamental Chemistry	TK10001 Chemistry Practical I TK10203 Physical Chemistry I TK10403 Organic Chemistry I	TK10001 Chemistry Practical II TK20303 Inorganic Chemistry I TK20503 Chemical Analysis I	TK20803 Science and Science Education			TK30503 Undergraduate Project I TK40903 Practical Work In Biology Education	TK40603 Undergraduate Project II

HT16 Education with Science Programme Major: Chemistry, Minor: Biology

	Level 1		Level 2		Level 3		Level 4	
	Semester 1	Semester 2	Semester 3	Semester 4	Semester 5	Semester 6	Semester 7	Semester 8
UNIVERSITY'S CORE PROMOTION OF KNOWLEDGE (12 CREDIT HOURS)	UW00202 Islam & Asian Civilisation UE00X02 Soft Skills I UK00X02 Soft Skills II	UW00102 Ethnic Relation UC00X02 Soft Skills III	UW00302 Introduction to Entrepreneurship					
UNIVERSITY'S CORE LANGUAGE (8 CREDIT HOURS)	UB00102 English Module (1) - Communicative English Grammar	UB00202 English Module (2) - Oral Communication In English	UB00302 English Module (3) - Reading & Writing In English	UB00402 English Module (4) - Academic Reading and Writing				
UNIVERSITY'S CORE CO-CURRICULUM (3 CREDIT HOURS)	CCXXXX3 Co-Curriculum							
FACULTY CORE (27 CREDIT HOURS)	TT00103 Philosophy and Education in Malaysia	TT00203 Application of Psychology in Teaching	TT00303 Pedagogical Theories and Practices	TT00703 Computer and Multimedia in Education	TT01003 Basic Educational Research TT00903 Malay Language Skills in Education	TT00503 Evaluation in Education	TT01303 Educational Management and Administration TT00803 Educational Sociology	

HT16 Education with Science Programme Major: Chemistry, Minor: Biology
Course Structure Session 2015 / 2016

	Level 1		Level 2		Level 3		Level 4	
	Semester 1	Semester 2	Semester 3	Semester 4	Semester 5	Semester 6	Semester 7	Semester 8
PROGRAMME CORE MAJOR : CHEMISTRY (51 CREDIT HOURS)	TK10101 Fundamental Chemistry Practical TK10302 Fundamental Chemistry TK10502 Laboratory Safety	TK10001 Chemistry Practical I TK10203 Physical Chemistry I TK10403 Organic Chemistry I	TK20101 Chemistry Practical II TK20303 Inorganic Chemistry I TK20503 Chemical Analysis I	TK20201 Chemistry Practical III TK20402 Physical Chemistry II TK20603 Organic Chemistry II	TK30103 Teaching Methods I (Chemistry) TK30303 Teaching Methods II (Biology) TK30501 Chemistry Practical IV TK30703 Chemical Analysis II TK30902 Inorganic Chemistry II	TK30003 Teaching Methods III (Advance) TK30203 Natural Resource Chemistry		TB40008 Teaching Practice
PROGRAMME CORE MINOR : BIOLOGY (30 CREDIT HOURS)	TB10103 Cell and Structure Biology	TB10003 Botany	TB20103 Microbiology TB20303 Zoology	TB20003 Genetic TB20203 Ecology TB20803 Science in Science Education			TK30503 Undergraduate Project I TB40903 Practical Works in Chemistry Education	TK40603 Undergraduate Project II
TOTAL (131 CREDIT HOURS)	22	19	17	20	18	12	12	11

HT16 Education with Science Programme Major: Mathematics, Minor: Physics

	Level 1		Level 2		Level 3		Level 4	
	Semester 1	Semester 2	Semester 3	Semester 4	Semester 5	Semester 6	Semester 7	Semester 8
UNIVERSITY CORE PROMOTION OF KNOWLEDGE (12 CREDIT HOURS)	UW00202 Islam & Asian Civilisation UE00X02 Soft Skills I UK00X02 Soft Skills II	UW00102 Ethnic Relation UC00X02 Soft Skills III	UW00302 Introduction to Entrepreneurship					
UNIVERSITY CORE LANGUAGE (8 CREDIT HOURS)	UB00102 English Module (1) - Communicative English Grammar	UB00202 English Module (2) - Oral Communication In English	UB00302 English Module (3) - Reading & Writing In English	UB00402 English Module (4) - Academic Reading and Writing				
UNIVERSITY CORE CO-CURRICULUM (3 CREDIT HOURS)	CCXXXX3 Co-Curriculum							
FACULTY CORE (27 CREDIT HOURS)	TT00103 Philosophy and Education in Malaysia	TT00203 Application of Psychology in Teaching	TT00303 Pedagogical Theories and Practices	TT00703 Computer and Multimedia in Education	TT01003 Basic Educational Research TT00903 Malay Language Skills in Education	TT00503 Evaluation in Education	TT01303 Educational Management and Administration TT00803 Educational Sociology	

HT16 Education with Science Programme Major: Mathematics, Minor: Physics

	Level 1		Level 2		Level 3		Level 4	
	Semester 1	Semester 2	Semester 3	Semester 4	Semester 5	Semester 6	Semester 7	Semester 8
PROGRAMME CORE MAJOR : MATHEMATICS (50 CREDIT HOURS)	TM10103 Mathematics I	TM10003 Mathematics II TM10203 Mathematics III	TM20103 Elementary Statistics	TM20003 History of Mathematics TM20203 Differential Equations	TM30103 Teaching Methods I (Mathematics) TM30303 Teaching Methods II (Physics) TM30503 Advanced Mathematics I TM30703 Statistical Methods	TM30003 Teaching Methods III (Advance) TM30203 Linear Algebra TM30403 Real Analysis TM30603 Numerical Methods		TB40008 Teaching Practical
PROGRAMME CORE MINOR : PHYSICS (30 CREDIT HOURS)	TF10103 Physics I TF10303 Physics II	TF10003 Physics III	TF20103 Mathematics Method In Physics TF20303 Electrics and Magnet Physics	TF20003 Optic Physics and Modern Physics TF20803 Science in Science Education			TK30503 Undergraduate Project I TB40903 Practical Works in Mathematics Education	TK40603 Undergraduate Project II
TOTAL (130 CREDIT HOURS)	23	18	16	17	18	15	12	11

HT16 Education with Science Programme Major: Physics, Minor: Mathematics

	Level 1		Level 2		Level 3		Level 4	
	Semester 1	Semester 2	Semester 3	Semester 4	Semester 5	Semester 6	Semester 7	Semester 8
UNIVERSITY CORE PROMOTION OF KNOWLEDGE (12 CREDIT HOURS)	UW00202 Islam & Asian Civilisation UE00X02 Soft Skills I UK00X02 Soft Skills II	UW00102 Ethnic Relation UC00X02 Soft Skills III	UW00302 Introduction to Entrepreneurship					
UNIVERSITY CORE LANGUAGE (8 CREDIT HOURS)	UB00102 English Module (1) - Communicative English Grammar	UB00202 English Module (2) - Oral Communication In English	UB00302 English Module (3) - Reading & Writing In English	UB00402 English Module (4) - Academic Reading and Writing				
UNIVERSITY CORE CO-CURRICULUM (3 CREDIT HOURS)	CCXXXX3 Co-Curriculum							
FACULTY CORE (27 CREDIT HOURS)	TT00103 Philosophy and Education in Malaysia	TT00203 Application of Psychology in Teaching	TT00303 Pedagogical Theories and Practices	TT00703 Computer and Multimedia in Education	TT01003 Basic Educational Research TT00903 Malay Language Skills in Education	TT00503 Evaluation in Education	TT01303 Educational Management and Administration TT00803 Educational Sociology	

HT16 Education with Science Programme Major: Physics, Minor: Mathematics

	Level 1		Level 2		Level 3		Level 4	
	Semester 1	Semester 2	Semester 3	Semester 4	Semester 5	Semester 6	Semester 7	Semester 8
PROGRAMME CORE MAJOR : PHYSICS (50 CREDIT HOURS)	TF10103 Physics I TF10303 Physics II	TF10003 Physics III	TF20103 Mathematics Method In Physics TF20303 Electrics and Magnet Physics	TF20003 Optic Physics and Modern Physics	TF30103 Teaching Methods I (Physics) TF30303 Teaching Methods II (Mathematics) TF30503 Solid State Physics TF30703 Digital Electronic and Communication	TF30203 Basic Electronics TF30403 Physics Methods for Experiment and Measurements TF 30603 Microprocessor and Instrumentation		TB40008 Teaching Practical
PROGRAMME CORE MINOR : MATHEMATICS (30 CREDIT HOURS)	TM10103 Mathematics I	TM10003 Mathematics II TM10203 Elementary Statistics	TM20103 Mathematics III	TM20003 History of Mathematics TM20203 Differential Equations TF20803 Science in Science Education			TK30503 Undergraduate Project I TB40903 Practical Works in Mathematics Education	TK40603 Undergraduate Project II