

YEAR 1	SEMESTER 1			SEMESTER 2			
	Course	Code	Credit	Course	Code	Credit	
	STATICS	BTD1112	2	⇔	PRODUCT DEVELOPMENT 1	BTD1212	2
	ENGINEERING MATERIALS	BTD1123	3	⇔	THERMODYNAMICS	BTD1233	3
	ELECTRICAL & ELECTRONICS TECHNOLOGY	BTD1133	3	⇔	COMPUTER PROGRAMMING	BTD1243	3
	MANUFACTURING PROCESSES	BTD1143	3	⇔	FLUID MECHANICS	BTD2123	3
	MECHANICAL LABORATORY 1	BTD1151	1	⇔	MECHANICAL LABORATORY 2	BTD1251	1
	TECHNICAL MATHEMATICS	BUM1113	3	⇔	CALCULUS	BUM1223	3
	CO-CURRICULUM	UQB***2	2	⇔	ENGLISH FOR ACADEMIC COMMUNICATION	UHL2412	2
	FALSAFAH DAN ISU SEMASA	UHC1012	2	⇔	PENGHAYATAN ETIKA DAN PERADABAN	UHC2022	2
		Total credits	19		Total credits	19	

SPECIALIZATION: DESIGN & ANALYSIS		
Course	Code	Credit
ELEMENTS OF MECHANICAL DESIGN	BTD2663	3
ERGONOMICS AND HUMAN FACTORS	BTD3133	3
COMPUTATIONAL FLUID DYNAMICS	BTD3233	3
STRESS ANALYSIS	BTD3243	3

SPECIALIZATION: AUTOMOTIVE		
Course	Code	Credit
AUTOMOTIVE TECHNOLOGY	BTA2663	3
POWERTRAIN	BTA3133	3
AUTOTRONICS	BTA3233	3
FAULT DIAGNOSIS	BTA3243	3

SPECIALIZATION: OIL & GAS		
Course	Code	Credit
INTRODUCTION TO OIL & GAS INDUSTRY	BTG2663	3
STATIC EQUIPMENT	BTG3133	3
ROTATING EQUIPMENT	BTG3233	3
PIPING	BTG3333	3

YEAR 2	SEMESTER 3			SEMESTER 4			
	Course	Code	Credit	Course	Code	Credit	
	PRODUCT DEVELOPMENT 2	BTD2113	3	⇔	PRODUCT DEVELOPMENT 3	BTD2213	3
	DYNAMICS	BTD1222	2	⇔	KURSUS INTEGRITI DAN ANTI RASUAH	UHC1032	2
	STRENGTH OF MATERIALS	BTD2133	3	⇔	FINITE ELEMENT ANALYSIS	BTD3123	3
	MECHANICAL MEASUREMENT & INSTRUMENTATION	BTD2142	2	⇔	APPLIED CONTROL SYSTEM	BTD2232	2
	HEAT TRANSFER	BTD2242	2	⇔	HYDRAULIC & PNEUMATIC	BTD2252	2
	PROJECT MANAGEMENT AND ECONOMY	BTD2273	3	⇔	APPLIED MATHEMATICS	BUM2113	3
	ENGLISH FOR TECHNICAL COMMUNICATION	UHL2422	2		ELECTIVE 1	BT*3**3	3
	FOREIGN LANGUAGE 1	UHF11*1	1		FOREIGN LANGUAGE 2	UHF2**1	1
		Total credits	18		Total credits	19	

ELECTIVES		
Course	Code	Credit
MECHANISM DESIGN	BTD3313	3
PRODUCTION PLANNING & CONTROL	BTD3323	3
MECHANICS OF COMPOSITE MATERIALS	BTD3333	3
FATIGUE DESIGN AND ANALYSIS	BTD3343	3
AUTOMOTIVE PRODUCT DEVELOPMENT	BTA3313	3
AUTOMOTIVE ADVANCED TECHNOLOGY	BTA3323	3
ENERGY EFFICIENT VEHICLE	BTA3333	3
MOTORSPORT ENGINEERING	BTA3343	3
OPERATION AND MAINTENANCE OF STATIC EQUIPMENT	BTG3143	3
PRIME MOVER IN ROTATING EQUIPMENT	BTG3243	3
OPERATION AND MAINTENANCE OF PIPING	BTG3343	3
PIPELINE	BTG3433	3
ELEMENT OF MECHANICAL DESIGN	BTG3533	3
TANK DESIGN	BTG3543	3
ASSET RELIABILITY PRACTITIONER	BGT3553	3
BOILER AND STEAM ENGINEERS	BTG3563	3
NON-DESTRUCTIVE TESTING TECHNOLOGY	BTG3573	3

YEAR 3	SEMESTER 5			SEMESTER 6			
	Course	Code	Credit	Course	Code	Credit	
	PRODUCT DEVELOPMENT 4	BTD3114	4		PRODUCT DEVELOPMENT 5	BTD3214	4
	MECHANICAL VIBRATION	BTD2223	3		ELECTIVE 2	BT*3**3	3
	INTRODUCTION TO OIL & GAS INDUSTRY	BTG2663	3		ELECTIVE 3	BT*3**3	3
	STATIC EQUIPMENT	BTG3133	3		ELECTIVE 4	BT*3**3	3
	ROTATING EQUIPMENT	BTG3233	3		TECHNOPRENEURSHIP	UGE2002	2
	PIPING	BTG3333	3		ENGLISH FOR PROFESSIONAL COMMUNICATION	UHL2432	2
		Total credits	19		Total credits	17	

YEAR 4 (WBL)	SEMESTER 7			SEMESTER 8			
	Course	Code	Credit	Course	Code	Credit	
	FINAL YEAR PROJECT	BTG4112	12				
	PROFESSIONAL PRACTICE & ETHICS	BTD4122	2		INDUSTRIAL TRAINING	BTG4212	12
	OCCUPATIONAL SAFETY & HEALTH	BTD4131	1				
	INTERNSHIP PREPARATION	BTD3222	2				
		Total credits	17		Total credits	12	

WORK-BASED LEARNING (WBL) In Year 4, the students will be placed in several companies to undergo 1 year of work-based learning.