

‘The Ability to Think, Analyze and Evaluate’

FACULTY OF ENGINEERING

BACHELOR OF ENGINEERING WITH HONOURS

BPKP CODE PROGRAMMES CODE
HK08 Mechanical Engineering

For further inquiries, please contact :-

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		Year 1		Year 2		Year 3		Year 4	
		Semester 1	Semester 2	Semester 3	Semester 4	Semester 5	Semester 6	Semester 7	Semester 8
UNIVERSITY CORE (PROMOTION OF KNOWLEDGE) (8 CREDIT HOURS)	UW00202 Islam and Asian Civilisation (2 credit hours)	UW00102 Ethnic Relations UCxxx02 (Please Choose 1 uc Course) (4 credit hours)	UW00302 Fundamentals of Entrepreneurial Acculturation (2 credit hours)						
	UB00202 Oral Communication in English (For Student MUET Band 1 and 2) (2 credit hours)	UB00102 Communicative English Grammar (For Student MUET Band 1 and 2) (2 credit hours)	UB00702 English For Occupational Purposes (For Student MUET Band 1 and 2) (2 credit hours)	UB00302 Reading And Writing In English (For Student MUET Band 1 and 2) (2 credit hours)					
	UB00602 Grammar In Context (For Student MUET Band 3,4,5 & 6) (2 credit hours)	UB00402 Academic Reading and Writing (For Student MUET Band 3,4,5 & 6) (2 credit hours)	UB02002 English For Employment (For Student MUET Band 3,4,5 & 6) (2 credit hours)	UB00502 English For Research Purposes (For Student MUET Band 3,4,5 & 6) (2 credit hours)					
	UNIVERSITY CORE CO-CURRICULUM (3 CREDIT HOURS)	EXXXX3 Co-Curriculum (3 credit hours)							

HK08 Mechanical Engineering

	Year 1		Year 2		Year 3		Year 4	
	Semester 1	Semester 2	Semester 3	Semester 4	Semester 5	Semester 6	Semester 7	Semester 8
PROGRAMME CORE (107 CREDIT HOURS)	KM10303 Calculus I KM10501 Engineering Workshop KM10702 Engineering Drawings KM10903 Statics	KM10803 Engineering Programming KM10403 Calculus II KM10203 Engineering Materials KM10603 Strength of Materials	KM20303 Fluid Mechanics I KM20503 Differential Equations KM20701 Lab I KM20903 Dynamics KM21102 Engineering Thermodynamics	KM21402 Electrical Technology KM20203 Mechanics of Machines KM20603 Numerical Methods KM20801 Lab II KM21003 Fluid Mechanics II KM21202 CAD Engineering	KM30303 Electrical Power and Machines KM30502 Engineering Statistics KM30903 Mechanical Design I KM31101 Lab III KM31303 Applied Thermodynamics KM31503 Measurements and Instrumentation	KM00505 Industrial Training KM30403 Heat Transfer KM30603 Mechanical Vibrations KM31003 Mechanical Design II KM31401 Lab IV KM31603 Manufacturing Processes KM31803 Control Engineering	KM00303 Ethics and Law for Engineers KM00102 Project I KM41703 Electronics and Microprocessors KM41903 Manufacturing System KM40703 Finite Element Method	KM00403 Management and Accounting for Engineers KM00204 Project II KM42602 Computer Aided Engineering KM42801 Lab V
	(9 credit hours)	(12 credit hours)	(12 credit hours)	(14 credit hours)	(15 credit hours)	(21 credit hours)	(14 credit hours)	(10 credit hours)
PROGRAMME CORE (ELECTIVE) (9 CREDIT HOURS)							KM4xx03 Elective I	KM4xx03 Elective II KM4xx03 Elective III
							(3 credit hours)	(6 credit hours)
TOTAL (135 CREDIT HOURS)	16	18	16	16	15	21	17	16

***Notes:**

: Language Requirements For Student MUET Band 1 and 2 & For Student MUET Band 3,4,5 & 6.
Please Refer to PPIB Guidebook.

STUDENT CREDIT HOURS

: Core University (Upgrade Knowledge) + Core University (Language) + Core University (Co-Curriculum) + Core Program + Core Program (Elective)
: 8 Credit Hours + 8 Credit Hours + 3 Credit Hours + 107 Credit Hours + 9 Credit Hours
: **135 Credit Hours**

OPTION 1 (MANUFACTURING)			OPTION 2 (ENERGY & MATERIALS)		
ELECTIVE I	ELECTIVE II	ELECTIVE III	ELECTIVE I	ELECTIVE II	ELECTIVE III
KM40103 Maintenance and Monitoring of Machines KM42103 Industrial Automation	KM40603 Finite Differential Methods KM41403 Mechatronics KM40803 Industrial Engineering KM43003 Machining Processes KM40403 Operational Research	KM41603 Numerical Methods in Heat Engineering KM41803 Aerodynamics KM43603 Sensor and Vision System KM43803 CAD/CAM	KM41103 Tribology KM42303 Acoustics KM42503 Nuclear Technology	KM43203 Composite Materials KM41203 Advanced Strength of Materials KM41003 Internal Combustion Engines KM43403 Renewable Energy	KM42003 Refrigeration and Air Conditioning KM42203 Surface Engineering KM44003 Failure Mechanisms

