

PEMINDAHAN KREDIT SECARA MENEGAK (VERTIKAL)
PROGRAM SARJANA MUDA TEKNOLOGI KEJURUTERAAN MEKANIKAL (PETROLEUM) DENGAN KEPUJIAN (BTO)

NO	COURSE CODE	COURSE NAME	INSTITUTION & COURSE
1	BTO1143	FLUID MECHANICS	UNIVERSITI MALAYSIA PAHANG AL-SULTAN ABDULLAH (UMPSA) DKK2233 FLUID MECHANICS OR DKK2373 FLUID MECHANICS OR DMM2533 FLUID MECHANICS OR DRK1133 FLUID MECHANICS POLITEKNIK (18) DCN3113 HYDRAULICS OR DGP2053 FLUID MECHANICS OR DGU2053 FLUID MECHANICS OR DJJ2093 FLUID MECHANICS OR GP505 FLUID MECHANICS OR DJJ20073 FLUIDS MECHANICS OR DGP20082 FLUID MECHANICS AND DGP30161 PROCESS ENGINEERING LAB 1 AND DGP40171 PROCESS ENGINEERING LAB 2 AND DGP50231 PROCESS ENGINEERING LAB 3 UNIVERSITI KUALA LUMPUR: CLD10603 FLUID MECHANICS UNIVERSITI TENAGA NASIONAL MEHD224 MECHANICS OF FLUIDS UNIVERSITI TUN HUSSEIN ONN MALAYSIA (UTHM) DAK10703 FLUID MECHANICS OR DAK12403 FLUID MECHANICS OR DAK22403 FLUID MECHANICS TERENGGANU ADV TECHNICAL INS. (TATI) DTC1053 FLUIDS MECHANICS UNIVERSITI TEKNOLOGI MALAYSIA DDWJ2303 FLUID MECHANICS 1 AND DDWJ3303 FLUID MECHANICS 2 KOLEJ KEMAHIRAN TINGGI MARA DPV30313 FLUIDS MECHANICS OR DPV20443 FLUID MECHANICS UNIVERSITI KOLEJ YAYASAN PAHANG

			DWJ2303 FLUID MECHANICS 1 AND DDWJ3303 FLUID MECHANICS 2 UNIVERSITI TEKNOLOGI MARA (UiTM) MEC241 FLUID MECHANICS
2	BTO2133	THERMODYNAMICS	UMPSA DKK2253 THERMODYNAMICS OR DKK2333 THERMODYNAMICS OR DMM2543 THERMODYNAMICS OR DRK1213 THERMODYNAMICS UNIVERSITI TUN HUSSEIN ONN MALAYSIA (UTHM) DAK10603 THERMODYNAMICS OR DAK20603 THERMODYNAMICS OR DAK20703 THERMODYNAMICS POLITEKNIK DGP2043 THERMODYNAMICS OR DGU2043 THERMODYNAMICS OR DJJ2073 THERMODYNAMICS OR GP203 THERMODYNAMICS OR DJJ20063 THERMODYNAMICS OR DJM2043 THERMOFLUIDS OR DGP20052 THERMODYNAMICS AND DGP30161 PROCESS ENGINEERING LAB 1 AND DGP40171 PROCESS ENGINEERING LAB 2 AND DGP50231 PROCESS ENGINEERING LAB 3 TERENGGANU ADV TECHNICAL INS. (TATI) DTC2073 THERMODYNAMIC UNIVERSITI TEKNOLOGI MALAYSIA DDWJ2413 THERMODYNAMICS 1 AND DDWJ2423 THERMODYNAMICS 2 UNIVERSITI KUALA LUMPUR CLD20302 THERMODYNAMICS AND CPD30302 PILOT PLANT OPERATION 2 KOLEJ KEMAHIRAN TINGGI MARA DPV40353 THERMODYNAMICS OR DPV40483 THERMODYNAMICS UNIVERSITI KOLEJ YAYASAN PAHANG DDWJ1413 THERMODYNAMICS 1 AND DDWJ2423 THERMODYNAMICS 2 UNIVERSITI TEKNOLOGI MARA (UiTM)

			MEC251 THERMODYNAMICS
3	BTO1423	ELECTRIC & ELECTRONICS FUNDAMENTALS (FTKEE)	UMPSA DMM1423 ELECTRICAL & ELECTRONIC TECHNOLOGY POLITEKNIK EE201 SEMICONDUCTOR DEVICES AND EE202 DIGITAL ELECTRONICS DGU1033 ELECTRICAL TECHNOLOGY OR DGP1013 ELECTRICAL TECHNOLOGY OR DJJ20053 ELECTRICAL TECHNOLOGY OR DGP10013 ELECTRICAL TECHNOLOGY DJJ2022 ELECTRICAL TECHNOLOGY AND DJF5042 INDUSTRIAL ROBOTIC KOLEJ KEMAHIRAN TINGGI MARA DPV20263 ELECTRICAL AND ELECTRONIC FUNDAMENTAL UNIVERSITI TEKNOLOGI MARA (UiTM) ELE290 BASIC ELECTRICAL ENGINEERING INSTITUT TEKNIKAL JEPUN MALAYSIA (JMTI) DPA2208 PRINCIPLE ELECTRIC AND ELECTRONIC (1) AND DPC3315 CNC ELECTRICAL DISCHARGE MACHINE (3)
4	BTO2314	COMPUTER AIDED DESIGN	UMPSA DMM1413 ENGINEERING DRAWING & CAD AND DMM2632 INDUSTRIAL DESIGN POLITEKNIK DJJ30122 COMPUTER AIDED DESIGN AND DJF41042 CAD/CAM DJJ30122 COMPUTER AIDED DESIGN AND DJJ10013 ENGINEERING DRAWING DJJ2062 COMPUTER AIDED DESIGN 1 AND DJJ5062 COMPUTER AIDED DESIGN 2 DJJ2062 COMPUTER AIDED DESIGN 1 AND DJF5032 CAD/CAM UNIVERSITI TENAGA NASIONAL

			MEMD134 ENGINEERING GRAPHIC AND CAE KOLEJ KEMAHIRAN TINGGI MARA DPV10202 ENGINEERING DRAWING AND DPV20242 COMPUTER AIDED DRAFTING AND DPP31023 3D PLANT MODELLING UNIVERSITI TEKNOLOGI MARA (UiTM) MEC131 TECHNICAL DRAWING AND MEC232 ENGINEERING DRAWING
5	BTO4122	PROJECT MANAGEMENT	UNIVERSITI TEKNOLOGI MARA (UiTM) HTV3022 PROJECT MANAGEMENT INSTITUT KEMAHIRAN MARA DKV30072 PROJECT MANAGEMENT KOLEJ KEMAHIRAN TINGGI MARA DPV40322 PROJECT MANAGEMENT OR DPV30462 PROJECT MANAGEMENT
6	BTO1213	ENGINEERING MECHANICS	UMPSA DMM1533 STATICS DKK2363 ENGINEERING MECHANICS POLITEKNIK DJJ3053 ENGINEERING MECHANICS OR DGM3043 ENGINEERING MECHANICS OR DJJ30093 ENGINEERING MECHANICS UNIVERSITI TEKNOLOGI MALAYSIA DDWJ1203 STATICS KOLEJ KEMAHIRAN TINGGI MARA DPV20133 STATICS OR DPV20493 STATICS UNIVERSITI TEKNOLOGI MARA (UiTM) MEC111 STATICS
7	BTO2153	STRENGTH OF MATERIALS	UMPSA DMM2513 SOLID MECHANICS POLITEKNIK DJJ3103 STRENGTH OF MATERIALS OR DGM3053 STRENGTH OF MATERIALS OR DJJ30103 STRENGTH OF MATERIALS

			UNIVERSITI TEKNOLOGI MALAYSIA DDWJ2113 SOLID MECHANICS 1 AND DDWJ2123 SOLID MECHANICS 2 UNIVERSITI KOLEJ YAYASAN PAHANG DDWJ2113 SOLID MECHANICS 1 AND DDWJ2123 SOLID MECHANICS 2 UNIVERSITI TEKNOLOGI MARA (UiTM) MEC211 STRENGTH OF MATERIALS
8	BTO2173	PROPERTIES OF MATERIALS	UMPSA DMM1523 ENGINEERING MATERIALS POLITEKNIK DGM2033 MATERIAL SCIENCE OR DJJ3213 MATERIAL SCIENCE OR DJJ30113 MATERIAL SCIENCE AND ENGINEERING KOLEJ KEMAHIRAN TINGGI MARA DPP10013 MATERIAL SCIENCE AND ENGINEERING UNIVERSITI KOLEJ YAYASAN PAHANG DDWJ2603 MATERIALS SCIENCES UNIVERSITI TEKNOLOGI MARA (UiTM) MEC281 MATERIAL SCIENCE
9	BTO2163	ENGINEERING DYNAMICS	UMPSA DMM2523 DYNAMICS UNIVERSITI KOLEJ YAYASAN PAHANG DDWJ2203 DYNAMICS UNIVERSITI TEKNOLOGI MARA (UiTM) MEC221 DYNAMICS
10	BTO2183	HEAT TRANSFER	UNIVERSITI MALAYSIA PAHANG (UMP) DKK1493 TRANSPORT PROCESS POLITEKNIK DGP3113 HEAT TRANSFER OR DGM40083 HEAT TRANSFER OR DGP30122 HEAT TRANSFER AND DGP30161 PROCESS ENGINEERING LAB 1 AND DGP40171 PROCESS ENGINEERING LAB 2 AND DGP50231 PROCESS ENGINEERING LAB 3

11	BTO2343	PROCESS INSTRUMENTATION AND CONTROL	UMPSA DKK2443 PROCESS INSTRUMENTATION & CONTROL OR DRK2393 PROCESS INSTRUMENTATION & CONTROL POLITEKNIK DGP30103 PROCESS INSTRUMENTATION & CONTROL OR DGC50093 PROCESS INSTRUMENTATION & CONTROL OR DGC50013 PROCESS INSTRUMENTATION & CONTROL KOLEJ KEMAHIRAN TINGGI MARA DPN40223 PROCESS INSTRUMENTATION & MEASUREMENT AND DPN51273 PLANT OPERATION AND CONTROL UNIVERSITI TEKNOLOGI MARA (UiTM) MEC322 CONTROL SYSTEM AND INSTRUMENTATION
12	BTO1173	WORKSHOP TECHNOLOGY	POLITEKNIK DJJ10033 WORKSHOP TECHNOLOGY OR DJJ1043 WORKSHOP TECHNOLOGY KOLEJ KEMAHIRAN TINGGI MARA DPV10253 WORKSHOP TECHNOLOGY OR DPV10383 WORKSHOP TECHNOLOGY POLITEKNIK DGM10012 WORKSHOP TECHNOLOGY (2) AND DGM20042 MECHANICAL WORKSHOP PRACTICE I (2) AND DGM30062 MECHANICAL WORKSHOP PRACTICE II (2) ATAU DPB1301 0012 WORKSHOP TECHNOLOGY (2) AND DPB3316 CNC GRINDING (2) AND DPC3313 CNC MILLING (3)
13	BTO3163	ROTATING EQUIPMENT	KOLEJ KEMAHIRAN TINGGI MARA DPM40053 ROTATING EQUIPMENT OR DPN40263 PROCESS ROTATING EQUIPMENT
14	BTO3973	HEALTH, SAFETY & ENVIRONMENT	UMPSA DKK2473 PLANT SAFETY
15	BTO1563	COMPUTER FOR ENGINEERS	UMPSA DMM1313 COMPUTER PROGRAMMING

16	BTO3153	STATIC EQUIPMENT	KOLEJ KEMAHIRAN TINGGI MARA DPV30553 STATIC EQUIPMENT
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- *Pemindahan Kredit Secara Menegak (Vertikal) merujuk kepada pemindahan kredit daripada satu program ke program lain pada tahap yang lebih tinggi, dan tertakluk kepada perubahan silibus kursus dan kelulusan di peringkat fakulti*