

**FACULTY OF ENGINEERING AND SCIENCE, MIRI CAMPUS SARAWAK**  
**Units offered - Semester 2, 2017**

DEPARTMENT	NO	INDEX	MIRI UNIT	SEM 2 2017	REMARKS
					<b>DR STEPHANIE CHAN YEN SAN</b>
<b>ENGINEERING FIRST YEAR</b>	1	MCEN1000	Engineering Mechanics	√	
	2	INDE1000	Engineering Foundations - Principles and Communication	√	
	3	MATH1020	Calculus for Engineers	√	
	4	MAEN1000	Engineering Materials	√	
	5	ELEN1000	Electrical Systems	√	
	6	MATH1019	Linear Algebra and Statistics for Engineers	√	
	7	INDE1001	Engineering Foundations - Design and Processes	√	
	8	COMP1004	Engineering Programming	√	
	9	ELEN1001	Introduction to Renewable Energy	√	Optional unit
	10	ENGR1000	Engineering Connections	√	Optional unit
					<b>ASSOC. PROF. DR HAN BING CHUA</b>
<b>CHEMICAL ENGINEERING</b>	11	CHEN2001	Chemical Engineering Thermodynamics	√	Shared unit with Petroleum Engineering
	12	CHEM1002	Reactivity and Function in Chemistry	√	
	13	CHEN2003	Process Mass Transfer	√	
	14	CHEN2000	Process Principles	√	Shared unit with Petroleum Engineering
	15	ENEN2000	Engineering Sustainable Development	√	Common unit
	16	CHEN2004	Process Engineering and Analysis	√	Shared unit with Petroleum Engineering
	17	CHEN3000	Process Plant Engineering	√	
	18	CHEN3001	Transport Phenomena	√	
	19	CHEN3003	Process Synthesis and Design	√	
	20	CHEN3005	Process Instrumentation and Control	√	
	21	CHEN4016	Process Economics and Management	√	
	22	CHEN4002	Chemical Engineering Research Project 2	√	
	23	CHEN4015	Chemical Engineering Design Project	√	
	24	CHEN4000	Chemical Engineering Research Project 1	√	
					<b>ASSOC. PROF. DR MUHAMMAD EKHLASUR RAHMAN</b>
<b>CIVIL AND CONSTRUCTION ENGINEERING</b>	25	STEN2006	Structural Analysis of Indeterminate Structures	√	
	26	ENEN2000	Engineering Sustainable Development	√	Common unit
	27	WSEN2000	Water Quality and Resources Engineering	√	
	28	STEN2004	Structural Mechanics	√	
	29	GEOT2000	Principles of Geomechanics	√	(Previous name: Geotechnical Engineering 1)
	30	STEN3002	Structural Design 3	√	
	31	CSEN3001	Earthworks and Temporary Structures	√	
	32	GEOT3001	Geotechnical Engineering 3	√	
	33	TREN3000	Transportation Engineering	√	
	34	WSEN3000	Hydrology and Environmental Engineering	√	
	35	CSEN4002	Integrated Design and Construction 2	√	
	36	CVEN4003	Civil Engineering Research Project 1	√	
	37	CVEN4004	Civil Engineering Research Project 2	√	
	38	ENEN4000	Sustainable Development in Civil Engineering	√	
	39	CVEN4001	Environmental Hydraulics and Hydrology	√	Optional unit
	40	GEOT4001	Shallow Foundations and Retaining Walls	√	Optional unit
	41	TREN4001	Pavement Materials and Structural Design	√	Optional unit
					<b>DR LENIN GOPAL</b>
<b>ELECTRICAL AND COMPUTER ENGINEERING</b>	42	ELEN2001	Electromagnetic and Electromechanical Energy Conversion	√	
	43	CMPE2003	Microcomputers	√	
	44	ETEN2000	Signals and Systems	√	
	45	ETEN2001	Electronic Fundamentals	√	
	46	ELEN3004	Renewable Energy Principles	√	

	47	ENEN2000	Engineering Sustainable Development	√	Common unit
	48	BLAW2000	Law for Engineers	√	
	49	ETEN3002	Electronic Design	√	
	50	COMT3000	Communications Engineering	√	
	51	EEET4000	Engineering Research Project 1	√	
	52	EEET4001	Engineering Research Project 2	√	
	53	MGMT3000	Engineering Management	√	Shared unit with Mechanical Engineering
	54	CMPE4003	Concurrent Systems	√	
	55	CMPE3001	Embedded Systems Engineering	√	
	56	ELEN3001	Power System Analysis	√	
	57	ELEN3000	Electrical Machines and Stability	√	
	58	CMPE3004	Network Engineering	√	
	59	ELEN4001	Electric Power Transmission and Distribution	√	
	60	ELEN3003	Power System Protection	√	
	61	COMP2000	Computer System	√	
	62	CMPE3002	Computer Technology Project 1	√	
	63	CMPE3003	Computer Technology Project 2	√	
	64	ETEN4000	Power Electronics and Drives	√	
	65	ELEN6009	Power System Analysis	√	
	66	ELEN6011	Engineering Research Design Project 1	√	
	67	ELEN6012	Engineering Research Design Project 2	√	
	68	ETEN1000	Electronics	√	
	69	ELEN6010	Electric Power Transmission and Distribution	√	
	70	CMPE3001	Embedded Systems Engineering	√	
	71	COMP1002	Data Structure and Algorithm	√	
	72	COMP1000	Unix and C Programming	√	
	73	CNCO6001	Data Network Security	√	
	74	COMT4003	Mobile Radio Communications	√	
	75	ELEN6013	Renewable Energy Principles	√	
	76	COMP2003	Object oriented Software Engineering	√	
	77	ISYS1001	Data Base Systems	√	
	78	COMT6000	Digital Communication Engineering	√	
	79	COMT4001	Communications Signal Processing	√	
	80	CNCO3002	Advanced Computer Communications	√	
					<b>DR JOHN LAU</b>
<b>ENVIRONMENTAL ENGINEERING</b>	81	ENST1000	Climate Change and Adaptation	√	
	82	ENEN2001	Solid and Hazardous Waste Management	√	
	83	MGMT3000	Engineering Management	√	Shared unit with Mechanical Engineering
	84	GEOT2000	Principles of Geomechanics	√	Civil and Construction Engineering unit (Previous name: Geotechnical Engineering 1)
	85	ENST3003	Environmental Law and Regulations	√	
	86	ENEN3000	Aerial Emissions and Abatement	√	
	87	WSEN3000	Hydrology and Environmental Engineering	√	Shared unit with Civil and Construction Engineering
	88	ENEN3003	Environmental Engineering Analysis	√	
	89	CHEN2000	Process Principles	√	Shared unit with Chemical Engineering
					<b>ASSOC. PROF. DR SUJAN DEBNATH</b>
<b>MECHANICAL ENGINEERING</b>	90	ENEN2000	Engineering Sustainable Development	√	Common unit
	91	MCEN2001	Fundamentals of Thermodynamics	√	
	92	MCEN2004	Manufacturing Processes	√	
	93	MCEN2002	Fundamentals of Mechanical Design	√	
	94	ELEN2004	Electrical Plant	√	
	95	MGMT3000	Engineering Management	√	
	96	MCEN3001	Machine Design	√	
	97	MCEN3002	Applied Fluid Mechanics	√	
	98	MCEN3006	Linear Systems and Control	√	
	99	MCEN4005	Mechanical Engineering Research Project 1	√	
	100	MCEN4006	Mechanical Engineering Research Project 2	√	

	101	BLAW2000	Law for Engineers	√	Shared unit with Electrical and Computer Engineering
	102	MCEN4010	Professional Engineering Practice	√	
	103	MCEN4001	Industrial Fluid Mechanics	√	Optional unit
	104	MCEN4008	Finite Element Analysis	√	Optional unit
	105	MCEN4000	Design for Manufacturing	√	Optional unit
	106	MCEN4009	Engineering Noise Control	√	Optional unit
					<b>ASSOC. PROF. DR SHARUL SHAM BIN DOL</b>
<b>PETROLEUM ENGINEERING</b>	107	CHEN2001	Chemical Engineering Thermodynamics	√	Shared unit with Chemical Engineering
	108	CHEN2000	Process Principles	√	Shared unit with Chemical Engineering
	109	PEEN2000	Petrophysics and Reservoir Properties Laboratory	√	
	110	CHEN2004	Process Engineering and Analysis	√	Shared unit with Chemical Engineering
	111	PEEN3000	Formation Evaluation	√	Shared unit with Applied Geology
	112	PEEN3008	Reservoir Engineering Practices	√	
	113	PEEN3002	Petroleum Production Technology	√	
	114	PEEN3006	Drilling Engineering and Fluids Laboratory	√	
	115	PEEN4010	Petroleum Engineering Research Project 1	√	
	116	PEEN4000	Crude Oil Processing	√	
	117	PEEN4011	Petroleum Field Development Planning	√	
	118	PEEN4002	Petroleum Engineering Research Project 2	√	
	119	PEEN4006	Petroleum Geomechanics	√	
	120	PEEN1000	Introduction to Petroleum Engineering	√	
					<b>ASSOC. PROF. DR WILLIAM SAMUEL DOWNEY</b>
<b>APPLIED GEOLOGY</b>	121	GEOL1003	Evolving Earth Systems and Palaeontology	√	
	122	GEOL1004	Geoscience Environment and Society	√	
	123	CHEM1003	Introduction to Chemistry	√	
	124	GEOL1006	Fundamentals of Geology 2	√	
	125	GEOL2005	Igneous Petrology	√	
	126	GEOL2006	Metamorphic Petrology	√	
	127	GEOP2004	Geophysics for Mineral Exploration	√	
	128	GEOL2009	Geological Field Mapping	√	
	129	GEOL3001	Tectonics and the Dynamic Earth	√	
	130	GEOL3008	Environmental Geoscience	√	
	131	PEEN3000	Formation Evaluation	√	Shared unit with Petroleum Engineering
	132	GEOL3006	Petroleum Geology Project	√	
	133	ERTH4003	Geoscience Honours Dissertation Preparation	√	
	134	ERTH4001	Geoscience Honours Dissertation	√	