

Course Code	Course Name	PR - Pre-Requisite EX - Exclusion	MTH	CHLL	BWK	ODL	NTC
ITECH1100	Understanding the Digital Revolution	PR: Nil EX: Nil	Y			Y	
ITECH1102	Networking and Security	PR: Nil EX: Nil	Y			Y	
ITECH1103	Big Data and Analytics	PR: Nil EX: Nil	Y	Y	Y	Y	
ITECH1104	Cloud Computing and Enterprise	PR: Nil EX: ITECH2201	Y	Y	Y	Y	
ITECH1400	Foundations of Programming	PR: Nil EX: ITECH1000 and ITECH	Y			Y	
ITECH2000	Mobile Development Fundamentals	PR: ITECH1101 EX: ITECH1300	Y	Y	Y	Y	
ITECH2001	Game Development Fundamentals	PR: ITECH1101 EX: Nil	Y	Y	Y	Y	
ITECH2002 (summer)	Systems Modelling	PR: ITECH1100 EX: ITECH2101	Y			Y	
ITECH2004	Data Modelling	PR:ITECH1103 EX: Nil	Y	Y	Y	Y	
ITECH2250	IT Project Management Techniques	PR: ITECH1001 and at least 7 computing courses EX: ITECH3213 and ITECH5213	Y	Y	Y	Y	
ITECH2300	Mobile Networks and Wireless Communications	PR: ITECH1002 or ITECH1102 EX: Nil	Y	Y	Y	Y	
ITECH2302	Big Data Management	PR: ITECH1103 EX: Nil	Y			Y	
ITECH2305	Analysing the Modern Business	PR: ITECH1100 EX: Nil	Y		Y	Y	
ITECH2306	Agile Coding	PR: ITECH2000 and ITECH2001 or ITECH1000 EX: ITECH2100				Y	
ITECH2307	3D Modelling and Animation	PR: ITECH2001 EX: ITECH3221 and ITECH3223 and ITECH3228	Y			Y	
ITECH2309	Software Engineering	PR: ITECH2100 or ITECH2306 EX: ITECH3201	Y			Y	
ITECH2310	Cloud Infrastructure and Services	PR: ITECH1104 EX: ITECH2201	Y			Y	
ITECH2310 (Summer)	Cloud Infrastructure and Services	PR: ITECH1104 EX: ITECH2201	Y				
ITECH2312	Industry Experience 2	PR: 8 computing courses EX: Nil	Y			Y	
ITECH3000	IT Professional Engagement	PR: Nil EX: Nil	Y	Y	Y	Y	Y
ITECH3002	Professionalism and Entrepreneurship	PR: ITECH2004 and ITECH2250 EX: ITECH3203	Y	Y	Y	Y	
ITECH3002 (Summer)	Professionalism and Entrepreneurship	PR: ITECH2004 and ITECH2250 EX: ITECH3203	Y			Y	
ITECH3100	Cloud and Mobile Security	PR: ITECH1102 EX: ITECH3300	Y	Y		Y	
ITECH3103	IT Strategy and Governance	PR: ITECH1100 EX: Nil	Y		Y	Y	

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ITECH3106	Mobile User Interface Design and Development	PR: ITECH2306 EX: ITECH3229	Y	Y	Y	Y	
ITECH3108 (Summer)	Dynamic Web Development	PR: ITECH2003 EX: ITECH3224	Y			Y	
ITECH3109	Data Structures and Algorithms	PR: ITECH2100 or ITECH2306 EX: ITECH3218	Y			Y	
ITECH3208	Project 1	PR: ITECH2002 or ITECH2101 or ITECH3201 and ITECH2250 or ITECH3213 EX: Nil	Y			Y	
ITECH3209	Project 2	PR: ITECH3208 EX: Nil	Y	Y	Y	Y	
ITECH3222	Computer Games Design	PR: ITECH1004 or ITECH2001 EX: Nil	Y			Y	
ITECH5403	Comparative Programming Languages	PR: ITECH1000 or ITECH1400 EX: Nil	Y			Y	
ITECH5404	Business Process Analytics and Change	PR: Nil EX: Nil	Y				
ITECH5500	Professional Research & Communication	PR: ITECH1100 EX: ITECH5401	Y			Y	
ITECH7000	Professional Engagement	PR: Nil EX: Nil	Y			Y	Y
ITECH7201	Software Engineering: Analysis and Design	PR: ITECH1000 or ITECH1400 EX: ITECH3201	Y			Y	
ITECH7406	Business Intelligence and Data Warehousing	PR: ITECH1006 or ITECH1103 EX: Nil	Y			Y	
ITECH7415	Masters Project	PR: ITECH5500 and ITECH7401 EX: ITECH7403 and ITECH7404 and ITECH7405 and ITECH7602	Y			Y	

School of Science, Engineering and IT Semester 2, 2019 Course Listing – Engineering

Course Code	Course Name	PR - Pre-Requisite EX - Exclusion	MTH	CHLL	BWK	ODL	NTC
ENGIN1004	Engineering Design and Drafting	PR: Nil EX: ENCOR1010	Y	Y		Y	
ENGIN1005	Engineering Mechanics	PR: Nil EX: ENCOR1000 and ENCOR1021	Y	Y		Y	
ENGIN1006	Engineering Computer Modelling	PR: Nil EX: ENCOR1021	Y	Y		Y	
ENGIN2002	Engineering Project Management and Sustainable Design	PR: ENCOR1005 or ENGIN1001 EX: ENMEC2121 and ENMTX2050	Y	Y		Y	
ENGIN2203	Structural Analysis	PR: ENCOR2030 or ENGIN2301 EX: ENCIV2310	Y	Y			
ENGIN2204	Introduction to Geotechnical Engineering	PR: Nil EX: ENCIV2330	Y	Y			
ENGIN2303	Mechanism and Machine Theory	PR: ENCOR1000 or ENCOR1021 or ENGIN1005 EX: ENMEC2111	Y	Y		Y	
ENGIN2304	Thermofluids	PR: ENCOR1000 or ENCOR1021 or ENGIN1005 EX: ENCOR2100	Y				
ENGIN2404	Electrical and Electronic Drives and Actuators	PR: ENCOR1000 or ENCOR1021 or ENGIN1002 EX: ENMTX2040		Y		Y	
ENGIN2503	Rock Mechanics Applications	PR: ENCOR2030 or ENGIN2301 EX: ENMIN3040 and ENMIN5160	Y				
ENGIN3001	Engineering Research Methodology and Management	PR: ENCOR1005 and ENGIN1001 EX: ENCOR4010 and ENMTX4060	Y	Y		Y	
ENGIN3002	Engineering Design Project	PR: ENGIN2002 or ENMEC2121 or ENMTX2050 EX: ENCIV3360 and ENMEC2120 and ENMEC3250 and ENMTX3800	Y	Y		Y	
ENGIN3205	Road Engineering	PR: ENCIV3340 or ENGIN2303 EX: ENCIV330	Y	Y			
ENGIN3206	Water and Wastewater	PR: ENCIV2320 or ENGIN2201 EX: ENCIV3320	Y	Y			
ENGIN3304	Thermodynamics	PR: ENGIN2304 and ENCOR2100 EX: ENMEC3071	Y				
ENGIN3305	Manufacturing Engineering	PR: ENGIN2002 or ENMEC2121 or ENMTX2050 EX: ENMEC3110	Y				
ENGIN3405	Digital Imaging and Artificial Intelligence	PR: MATHS3001 or MATHS3040 EX: ENMTX3030		Y		Y	
ENGIN3406	Intelligent Mechanisms Design	PR: ENGIN2303 or ENMEC2111 EX: ENMTX4010		Y		Y	
ENGIN3503	Surface Mining Operations and Equipment	PR: ENGIN2502 or ENMIN2040 EX: ENMIN3070 and ENMIN5018	Y			Y	
ENGIN3504	Underground Mine Planning and Infrastructure Development	PR: ENGIN3501 or ENMIN3020 EX: ENMIN3060	Y				
ENGIN4001	Engineering Project 1	PR: ENGIN3001 EX: ENCOR4100	Y	Y		Y	
ENGIN4002	Engineering Project 2	PR: ENCOR4100 or ENGIN4001 EX: ENCOR4200	Y	Y		Y	

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School of Science, Engineering and IT Semester 2, 2019 Course Listing – Engineering

Course Code	Course Name	PR - Pre-Requisite EX - Exclusion	MTH	CHLL	BWK	ODL	NTC
ENGIN4201	Management of Water Resources	PR: ENGIN3206 or ENGGC3204 or ENCIV3320 EX: ENGGC4203		Y			
ENGIN4302	Energy Conversion	PR: ENGIN3304 or ENMEC3071 EX: ENMEC4090	Y				
ENGIN4402	Digital and Embedded Systems	PR: ENGIN2401 or ENMTX2010 and ENGIN3401 or ENMTX3010 EX: ENMTX3050		Y			
ENGIN5002	Advanced Engineering Project 1	PR: ENGIN3001 or ENGIN5001 EX: ENCOR7020	Y				Y
ENGIN5003	Advanced Engineering Project 2	PR: ENGIN5002 EX: ENCOR7030	Y				
ENGIN5204	Environmental Geotechnics	PR: ENGIN2204 EX: Nil		Y		Y	
ENGIN5304	Advanced Robotics	PR: Nil EX: ENMEC7080	Y				
ENGIN5405	Advanced Control Systems Engineering	PR: ENGIN3404 or ENMTX3040 EX: ENMTX4020	Y	Y			
ENGIN5503	Advanced Mine Ventilation	PR: Nil EX: ENMIN4050	Y			Y	
ENGIN5506 (Spring)	Advanced Rock Mechanics	PR: Nil EX: ENMIN7030	Y			Y	
ENGIN5507	Ore Reserve Estimation	PR: Nil EX: ENMIN5017				Y	
ENGIN5507 (Summer)	Ore Reserve Estimation	PR: Nil EX: ENMIN5017				Y	
ENGIN5510	Company Economics and Finance	PR: Nil EX: ENMIN5150	Y			Y	
ENGIN5513 (Spring)	Materials Handling and Hoisting	PR: ENGIN5513 EX: ENMIN5140	Y			Y	
ENGIN5515	Tunnelling and Mine Development	PR: Nil EX: ENMIN5120	Y			Y	
MGGGC7207	Mining Process Management	PR: MGGGC6203 EX: Nil				Y	
MGGGC7208	Research Project	PR: Nil EX: Nil				Y	
MREGC5003	Industrial Techniques in Maintenance Management	PR: Nil EX: Nil				Y	
MREGC5004	Asset Management Techniques	PR: Nil EX: Nil				Y	
MREGC5006	Machine Condition Monitoring and Fault Diagnosis	PR: Nil EX: Nil				Y	
MREGC5007	Risk Engineering	PR: Nil EX: Nil				Y	
MREGC5103	Advanced Reliability	PR: MREGC5005, MREGC5101, MREGC5102 EX: Nil				Y	
MREGC5104	Reliability Applications	PR: MREGC5101 or MREGC5102, MREGC5103 and MREGC5105				Y	

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MATHS1005	Secrets of the Matrix	PR: Nil EX: Nil	Y	Y		Y	
MATHS2009	Space, Shape and Design (Intermediate level)	PR: Two mathematics courses or equivalent EX: MATHS1009	Y	Y		Y	
MATHS2012	Maths, Digraphs and Networks	PR: 1 undergraduate mathematical course EX: Nil	Y			Y	
MATHS3001	Modelling and Change (Advanced level)	PR: MATHS2001 and any other MATHS course EX: MATHS2006	Y	Y		Y	
MATHS3002	Analytics Project 1	PR: MATHS2001 or STATS2101 EX: Nil	Y			Y	Y
MATHS3008	Topics in Mathematics (Advanced Level)	PR: One intermediate level mathematics course or equivalent EX: Nil	Y			Y	
MATHS4000	Guided Study	PR: A major study in mathematics in an undergraduate degree EX: Nil	Y				
MATHS4311	Research Project and Theses 1	PR: Entry into the Honours Program EX: Nil	Y				
SCGEO1103	Planet Earth	PR: Nil EX: Nil	Y			Y	
SCGEO2102	Optical Mineralogy	PR: SCEGO1103 EX: Nil	Y				
SCGEO2105	Economic Geology	PR: SCGEO1102 or SCGEO1103 EX: Nil	Y			Y	
SCGEO2103	Structural Geology	PR: SCGEO1103 EX: Nil	Y				
SCGEO2107	Fieldwork Principles and Practice	PR: SCGEO1104, SCGEO2103, SCGEO2112 EX: Nil	Y			Y	Y
SCGEO3106	Applied Geophysics	PR: SCGEO1102 EX: Nil	Y				
SCGEO3111	Tectonics and Petrogenesis	PR: SCGEO2103 and SCGEO3102 EX: Nil	Y				
SCMET3200	Mineral Processing II	PR: SCMET3100 EX: Nil	Y			Y	
STATS1000	Statistical Methods	PR: Nil EX: SCIGC1020	Y	Y	Y	Y	
STATS2100	Experimental Design and Analysis	PR: STATS1000 EX: Nil	Y			Y	