

**UTS: Engineering**  
Course Template

Course: C09124 v1 BE (Hon) BAIS Dip Prof Eng Prac.  
Major: General Engineering (No specified major)

Stage 1	Stage 2	Stage 3	Stage 4	Stage 5	Stage 6	Stage 7	Stage 8	Stage 9	Stage 10	Stage 11	Stage 12			
33130 Maths Mod 1 6  Core	33230 Maths Mod 2 6  33130 MM1  Core	Option 6  MAJ	Option 6  MAJ	48240 Design & Inno Fundamentals 6  33130 MM1 48230 Eng. Comm. OR  Core	48250 Eng Eco & Fin 6  48110 EE1 48230 Eng. Comm. 48240 Des. Innov.  Core			48260 Eng Proj Man 6  48240 Des. Innov. 48122 EPR1 OR 48120 REP1  CORE		41030 Eng Capstone 6  41029 ERP  MAJ	CBK90036 6  Advanced Stage choice  MAJ			
48230 Eng Comm 6  Core	48023 Programmin 6 g. Fundamenta Is OR 48221 Eng. Comp. OR 48430 FCP  MAJ	Arts Major 8	41036 Engineering Professional Experience 1 (6cp)	Arts Major 8	Arts Major 8	Arts Major - In Country Study 1	Arts Major - In Country Study 2	48210 Interrogating Technology 6  48250 EEF  MAJ	41046 Engineering Professional Experience 2 6cp	Option 6  MAJ	CBK90036 6  Advanced Stage choice  MAJ			
68037 Phys Mod 6  CORE	Option 6  MAJ	Arts Major 8		Option 6  MAJ	Arts Major 8			41029 Eng Res Prep 6  48260 EPM OR 41048 EPR 2  MAJ		CBK90036 6  Advanced Stage choice  MAJ	Arts Major 8			
Option 6  MAJ	Option 6  MAJ	Option 6  MAJ		Option 6  MAJ	Option 6  MAJ			Option 6  MAJ		Option 6  MAJ	Option 6  MAJ	Option 6  MAJ	Option 6  MAJ	Option 6  MAJ
41035 Eng Prac Prep 3 48230 Eng. Comm.  PP Adm STM90994	41037 WIL 1 12 41036 EPE1 41035 EPP1  PP	41038 EPR 1 3 41037 WIL 1 41036 EPE1  PP		41045 EPP 2 3 41038 EPR 1  PP	# WIL 2 12 # EPE2 # EPP 2  PP	41048 EPR 2 3 41046 EPE2 41047 WIL 2  PP								

Select 66 credit points from the following options

48023	<b>Programming Fundamentals</b> 6	48331	<b>Mech of Solids</b> 6	48350	<b>Enviro &amp; San'n Eng</b> 6	48362	<b>Hydraulics &amp; Hydro</b> 6	48366	<b>Steel &amp; Timber Design</b> 6	48430	<b>Fund. of C. Programming</b> 6	48450	<b>Real-Time Oper'n Sys</b> 6	48530	<b>Circuit Analysis</b> 6	48560	<b>Control Studio A</b> 6
		48321 Eng. Mech. OR 48620 FME		60101 CMS OR 65111 Chem. 1		48641 Fluid Mech.		48349 Struc. An. 48352 Constr. Mat.				48434 Emb. Soft.		48520 E&C 48521 FEE		48540 Sig. & Sys.	
MAJ		MAJ		MAJ		MAJ		MAJ		MAJ		MAJ		MAJ		MAJ	
48024	<b>Applications Programming</b> 6	48340	<b>Construction</b> 6	48352	<b>Constr Mat</b> 6	48364	<b>Mat Testing</b> 6	48370	<b>Road &amp; Transport Eng</b> 6	48433	<b>Software Architecture</b> 6	48451	<b>Embedded Systems Studio A</b> 6	48531	<b>Electro Autom</b> 6	48561	<b>Renewable Energy Systems Studio A</b> 6
	48023 Prog. Fund.	48310 ICEE		33230 MM2 65111 Chem. 1 OR 60101 CMS		48331 Mech. Solids		48330 Soil Behav. OR 41006 Prin of Soil Scien		48440 SEP OR 48024 App. Prog.		48441 IDS		33230 MM2 48520 E&C OR 48660 D&C		48531 EMA	
MAJ		MAJ		MAJ		MAJ		MAJ		MAJ		MAJ		MAJ		MAJ	
48080	<b>Intro to Innov</b> 6	48342	<b>Structural Behav'r &amp; Design</b> 6	48353	<b>Concrete Design</b> 6	48364	<b>Mat Testing</b> 6	48371	<b>Adv Eng Comp</b> 6	48434	<b>Embedded Software</b> 6	48510	<b>Intro to Elec &amp; Elec Eng</b> 6	48540	<b>Signals &amp; Sys</b> 6	48570	<b>Embedded Systems Studio B</b> 6
		48331 Mech. Solids 48352 Constr. Mat.		48349 Struc. An. 48352 Constr. Mat.		48331 Mech. Solids		48221 Eng. Comp. 48349 Struc. An.		48430 FCP				48530 Circ. An.		41090 Infor. Sig. 48250 EEF OR 48540 Sig. & Sys. 48441 IDS OR 41081 SAC	
MAJ		MAJ		MAJ		MAJ		MAJ		MAJ		MAJ		MAJ		MAJ	
48330	<b>Soil Behaviour</b> 6	48349	<b>Structural Analysis</b> 6	48360	<b>Geotechnical Eng</b> 6	48365	<b>Mat Perform</b> 6	48372	<b>Water Quantity &amp; Quality Process</b> 6	41025	<b>Intro to Software Development</b> 6	48520	<b>Elec &amp; Circuits</b> 6	48541	<b>Signal Theory</b> 6	48571	<b>Elec Machines</b> 6
	48331 Mech. Solids	48331 Mech. Solids 33230 MM2		48330 Soil Behav.		48366 ST Des. 48364 Mat. Test. 48353 Concr. Des.		48362 HH		48023 Prog. Fund. 48430 FCP		48510 IEEE 33130 MM1		33230 MM2		48531 EMA 48530 Circ. An.	
MAJ		MAJ		MAJ		MAJ		MAJ		MAJ		MAJ		MAJ		MAJ	
								48389 Comp M&D 6 48366 ST Des. 48353 Concr. Des. OR 48359 #N/A		48441 Intro Digital 6 48510 IEEE		48521 Fund Elec Eng 6 48510 IEEE 68037 Phys. Mod. 33230 MM2		48550 Renewable 6 48531 EMA		48572 Power Circuit 6 48530 Circ. An.	
								MAJ		MAJ		MAJ		MAJ		MAJ	

Course Component	Subject Number	Subject Name	Credit Points	Academic Requisites
Core - Core Subject EPP - Engineering Practice Program MAJ - Subject within the major	48016	Capstone A	6	
	48260 EPM 48142 EPR2		OR	
			144CP	
	MAJ			

[C] denotes an academic co-requisite, where this subject may be taken in the same semester.

If blank, subject offered in either semester. Check the UTS timetable.

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48580 Control Studio B 6 48560 CSA MAJ	48610 Intro to M&M Eng 6 MAJ	48640 Machine Dynamics 6 48620 FME MAJ	48660 Dynamics & Control 6 48640 Mach. Dyn. MAJ	48821 Principles of Enviro. Eng 6 48840 WSWE MAJ	60101 Chem & Materials Sci 6 MAJ	41014 Sensors and Control for Mech Sys 6 48623 Mech. 2 48660 D&C MAJ	41081 Sens. Actu. and Control 6 48430 FCP 48024 App. Prog. OR MAJ	41901 Data Comms. 6 41090 Infor. Sig. MAJ
48582 Power Systems Studio A 6 48572 PCT MAJ	48620 Fund Mech Eng 6 48610 IME 68037 Phys. Mod. 33130 MM1 MAJ	48641 Fluid Mech 6 33230 MM2 MAJ	48661 Heat Transfer 6 48641 Fluid Mech. MAJ	48840 Water Sup. & Wastew. Eng. 6 65111 Chem. 1 MAJ	68038 Adv Math Phys 6 33230 MM2 68037 Phys. Mod. 48520 E&C MAJ	41092 Network Fund 6 MAJ	41082 Intro to Data Engineering 6 MAJ	41902 Image Process & Computer Vision 6 41090 Infor. Sig. MAJ
48583 Power Systems Studio B 6 48572 PCT MAJ	48621 Manufacturing Eng 6 48610 IME MAJ	48642 Strength of Eng Materials 6 48331 Mech. Solio MAJ	48663 Adv Manufacturing 6 48650 MD2 48621 Manu. Eng. MAJ	48850 Enviro Plan. & Law 6 MAJ	41900 Security Fundamentals 6 48410 IIE 41092 Net. Fund. OR 87 C MAJ	31250 Intro to Data Analytics 6 MAJ	41083 Data Engineering Design 6 41085 FSB 41094 SES1B OR MAJ	41903 Internet Science 6 41092 Net. Fund. MAJ
48600 Mech Design 1 6 48331 Mech. Solids 48621 Manu. Eng. 48240 Des. Innov. MAJ	48622 Mechatronics 1 6 48510 IEEE MAJ	48650 Mech. Design 2 6 48600 MD1 48642 SEM MAJ	48670 M&M Design 6 48650 MD2 MAJ	48860 Poll'n Control & Waste M'nt 6 48840 WSWE 48350 ESE OR MAJ	41012 Programming for Mech Systems 6 48623 Mech. 2 MAJ	31253 Database Programming 6 31271 Data. Fund. MAJ	41090 Information and Signals 6 33230 MM2 MAJ	41904 Multimedia Analytics 6 31256 IPPR MAJ
48601 Mech Vib & Mach. Dyn. 6 48640 Mach. Dyn. 48660 D&C MAJ	48623 Mechatronics 6 48622 Mech. 1 48441 IDS OR MAJ	48651 Thermo- 6 33230 MM2 68037 Phys. Mod. MAJ	48730 Cyber 6 41900 Sec. Fund. 41092 Net. Fund. MAJ	48881 Water & HH 6 48362 HH 48821 PEE MAJ	41013 Robotics 6 48623 Mech. 2 MAJ	31274 Network 6 31277 RSE MAJ	41091 Data Systems 6 41085 FSB 41094 SES1B OR MAJ	41905 Software 6 41903 Int. Sci. 31277 RSE 48740 Comm. Net. OR MAJ

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41906 Practical Comm. Systems 6  41901 Data Comm.  MAJ	31061 Database Principles 6  MAJ	41162 Fund of Biomed Eng Studio A 6 41160 IBE  MAJ	91400 Human Anat & Physiology 6  MAJ	48033 Internet of Things 6 48023 Prog. Fund. OR 48430 FCP 41090 Infor. Sig. 48740 Comm. Net. OR 41090 Infor. Sig.  MAJ	41034 IoT Components & Technologies 6 48510 IEEE 33130 MM1 68037 Phys. Mod. 41033 IESD  MAJ	41088 Prof Studio A 6 41087 ASB OR 48240 Des. Innov. 48260 EPM  MAJ	41094 Software Eng Studio 1B 6  MAJ	31282 Sys. Test. & Qual. Mgmt. 6 31266 IIS  MAJ	Adm to Software maj
41907 Radio Freq Des: T & Prac 6  41901 Data Comm.  MAJ	31271 Database Fundamentals 6 48023 Prog. Fund. OR 48023 Prog. Fund.  MAJ	41163 Fund of Biomed Eng Studio B 6 41160 IBE  MAJ	31256 Image Proc. & Patt. Recog. 6 48024 App. Prog.  MAJ	41160 Intro to Biomed Engineering 6 33130 MM1 33230 MM2  MAJ	91705 MD&D 6  MAJ	41089 Prof Studio B 6 41088 PSA  MAJ	41095 Software Eng Studio 2A 6  MAJ	48221 Engineering Computations 6 33130 MM1  MAJ	
41908 Real-time Networks 6 41092 Net. Fund. 41081 SAC 48434 Emb. Soft. OR 48441 IDS  MAJ	41031 Electr. Analysis and Design 6 41085 FSB  MAJ	31260 Fund of Interaction Design 6  MAJ	31257 Info System Dev. Methodoloaies 6 31269 BRM  MAJ	31262 Intro to Comp Games 6 31080 Inter. Med. OR 31263 ICG Dev.  MAJ	31275 Mobile Networking 6 41092 Net. Fund.  MAJ	31748 Programming on the Internet 6 31268 Web Sys. 48023 Prog. Fund.  MAJ	41096 Software Eng Studio 2B 6  MAJ	48310 Intro to Civil & Enviro Eng 6  MAJ	
31251 Data Struc. and Algorithms 6  48024 App. Prog.  MAJ	31100 Enterprise Development with .NET 6 31927 AD.NET 31061 Data. Prin. OR 31271 Data. Fund.  MAJ	41084 Fund Studio A 6 41082 IDE OR 48510 IEEE  MAJ	41033 Integ. Electr Svst Design 6  MAJ	31263 Intro to Comp Games Development 6 48024 App. Prog.  MAJ	31075 Object-relational Databases 6 31271 Data. Fund.  MAJ	42913 Social & Info Network Analysis 6  MAJ	41097 Software Eng Studio 3A 6  MAJ	48320 Surveying 6  MAJ	
32146 Data Visual. IDA 6 48024 App. Prog. OR 32130 FDA  MAJ	41011 Env. Chemical. PEE 6 48821 PEE  MAJ	41085 Fund Studio B 6 41084 FSA  MAJ	31080 Interactive 6 48023 Prog. Fund.  MAJ	31264 Intro to Comp Games 6 31080 Inter. Med. OR 31263 ICG Dev.  MAJ	91703 Physio. 6  MAJ	41093 Software Eng Studio 4A 6  MAJ	41098 Software Eng Studio 4B 6  MAJ	48321 Eng Mechanics 6 33130 MM1 68037 Phys. Mod.  MAJ	

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Select 24 credit points from the following options (Advanced Stage Choice)

48436	Digital Forensics	6	31242	Adv Internet Programming	6
48730	Cyber Sec.		48024	App. Prog.	
MAJ			MAJ		
41026	Adv Software Development	6	41001	Cloud Computing & Softw. as a Serv.	6
41025	ISD		31061	Data. Prin.	OR
			48024	App. Prog.	
MAJ			MAJ		
31269	Business Req't Modelling	6	41009	Renewable Energy Technology	6
31266	IIS		48860	PCWM	
MAJ			MAJ		
41003	Enterprise Architecture Practice	6			
MAJ					
31927	Appl Dev with .NET	6			
48023	Prog. Fund.				
MAJ					

Subjects	CP
41009 Renewable Energy Technology	6
41013 Robotics	6
41014 Sensors and Control for Mechatronic Systems	6
41031 Electronic Analysis and deign	6
41088 Professional Studio A	6
41089 Professional Studio B	6
41097 Software Engineering Studio 3A	6
41098 Software Engineering Studio 3B	6
41902 Image Processing and Computer Vision	6
41904 Multimedia Analytics	6
41906 Practical Communications Systems	6
41907 Radio Frequency Design: Theory and Practice	6
42913 Social and Information Network Analysis	6
48360 Geotechnical Engineering	6
48362 Hydraulics and Hydrology	6
48366 Steel and Timber Design	6
48370 Road and Transport Engineering	6
48371 Advanced Engineering Computing	6
48389 Computer Modelling and Design	6
48436 Digital Forensics	6
48450 Real-time Operating Systems	6
48550 Renewable Energy Systems	6
48561 Power Electronics and Drives	6
48570 Data Acquisition and Distribution	6
48580 Advanced Control	6
48582 Power Systems Analysis and Design	6
48583 Power Systems Operation and Protection	6
48601 Mechanical Vibration and Measurement	6
48661 Heat Transfer	6
48663 Advanced Manufacturing	6
48670 Mechanical and Mechatronic Design	6
48881 Water and Environmental Design	6
49274 Advanced Robotics	6