ADVANCED MANUFACTURING, TESTAMUR MAJOR (T126)

Western Sydney University Major Code: T126

Previous Code: MT3048.1

Available to students in other Western Sydney University programs?

No

Manufacturing is continuously transforming as it integrates automation, analytics, intelligence, digitalisation, and Internet of Things (IoT) into physical operations. In this major, students integrate techniques and methods to improve the sustainability and efficiency of manufacturing, taking advantage of digitisation tools. Students tackle complex problems, propose innovative solutions, and apply critical thinking to industry problems considering social, ethical and environmental factors. Job opportunities are varied and include Digital Product Design Engineer, Digital Process Engineer, Additive Manufacturing Engineer, Digital Twins Engineer, Systems Engineer, Automation Specialist, Robotics Specialists, Advanced Sensors Specialists, Industry 4.0 Transformation Specialist. All students complete a mandatory 300 to 450 hour industrial placement.

Location

Campus	Mode	Advice
Parramatta Campus - Victoria Road	Internal	Program Advice (edbe@westernsydney.edu.
Parramatta City Campus-Macquarie Street	Internal	Program Advice (edbe@westernsydney.edu!
Penrith Campus	Internal	Program Advice (edbe@westernsydney.edu

Recommended Sequence 2022-23

If you commenced in 2024 or later please refer to the Sequence 2024 tab for details.

This major is included in Bachelor of Engineering Science, Bachelor of Engineering (Honours), Bachelor of Engineering Advanced (Honours) and Bachelor of Engineering (Honours)/Bachelor of Business.

Please follow the recommended sequence for your program as noted below.

Select the link for your program below to see details of the major

Bachelor of Engineering (Honours)

Qualification for this award requires the successful completion of 320 credit points, which include the subjects listed in the recommended sequence below.

* All students undertaking the Bachelor of Engineering (Honours) are required to enrol in MATH 1021 Mathematics for Engineers Preliminary and undertake a readiness test at the beginning of their study.

The readiness test will be conducted at the beginning of the first semester of enrolment and the result will be used to determine whether a student will remain in MATH 1021 Mathematics for Engineers Preliminary or be transferred by the School to MATH 1016 Mathematics for Engineers 1.

Students remaining in MATH 1021 Mathematics for Engineers
Preliminary will be required to complete MATH 1016 Mathematics
for Engineers 1 during second semester and will be encouraged to
complete MATH 1019 Mathematics for Engineers 2 during the Summer

	Course	Title	Credit Points
	Year 1		. 0
	Autumn session		
	ENGR 1011	Engineering Physics	10
	ELEC 1006	Engineering Computing	10
	ENGR 1024	Introduction to Engineering Practice	10
	Select one of the foll	• •	10
	MATH 1021	Mathematics for Engineers Preliminary	
	MATH 1016	Mathematics for Engineers 1	
		Credit Points	40
	Spring session		
	ENGR 1018	Fundamentals of Mechanics	10
	ELEC 1003	Electrical Fundamentals	10
	Select one elective		10
	• Electives can be	any Level for Year 1 Elective	
	Select one of the foll	owing:	10
	MATH 1016	Mathematics for Engineers 1	
	MATH 1019	Mathematics for Engineers 2	
dι	ı.au) Year 2	Credit Points	40
dι	Autumn session		
	MECH 2001	Kinematics and Kinetics of Machines	10
	MECH 2003	Mechanics of Materials	10
dι	ELEC 2001	Circuit Theory	10
	ENGR 2035	Modern Digital Design and Development	10
		Credit Points	40
	Spring session		
	MECH 3004	Dynamics of Mechanical Systems	10
	ENGR 2001	Automated Manufacturing	10
	ELEC 2008	Microcontrollers and PLCs	10
	Select one elective		10
	 Electives can be Electives 	any Level 2 or higher for Years 2-4	
	Year 3	Credit Points	40
	Autumn session		
	PROC 3008	Materials Processing and Applications	10
	MECH 3005	Mechanical Design	10
		g and IIoT (not yet available)	10
	Minor Alternate Subj		10
		Credit Points	40
	Spring session		
	MECH 4003	Mobile Robotics	10
	MECH 3006	Mechatronic Design	10
	-	Manufacturing (not yet available)	10
	Minor Alternate Subj		10
	Industrial Experience		

	Total Credit Points	320
	Credit Points	40
 Elective subj 	ects must be Level 2 or higher	
Select one electi		10
Minor Alternate	•	10
MECH 4002	Computer Aided Engineering	10
ENGR 4026	Final Year Project 2 (UG Engineering)	10
Spring session		
	Credit Points	40
Elective subj	ect must be Level 2 or higher	
Select one electi	••	10
Minor Alternate	· ·	10
MECH 4004	Robotics	10
ENGR 4025	Final Year Project 1 (UG Engineering)	10
Autumn session		
Year 4		
	Credit Points	40
ENGR 3017	Industrial Experience (Engineering)	0

Minor Alternate Subjects

Alternate subjects may be used to complete one of the minors listed below.

Biomedical Engineering, Minor (https://hbook.westernsydney.edu.au/majors-minors/biomedical-engineering-minor/)

Indigenous Australian Studies, Minor (https://

hbook.westernsydney.edu.au/majors-minors/indigenous-australian-studies-minor/)

Materials Engineering, Minor (https://hbook.westernsydney.edu.au/majors-minors/materials-engineering-minor/)

Mid-year intake

Course	Title	Credit Points
Year 1		
Spring session		
Select one of the foll	lowing:	10
MATH 1021	Mathematics for Engineers Preliminary	
MATH 1016	Mathematics for Engineers 1	
ENGR 1018	Fundamentals of Mechanics	10
ELEC 1003	Electrical Fundamentals	10
ENGR 1024	Introduction to Engineering Practice	10
	Credit Points	40
Autumn session		
Select one of the foll	owing:	10
MATH 1019	Mathematics for Engineers 2	
MATH 1016	Mathematics for Engineers 1	
ENGR 1011	Engineering Physics	10
ELEC 1006	Engineering Computing	10
Select one elective		10
Elective unit must	st be Level 1 or higher	
	Credit Points	40
Year 2		
Spring session		
ENGR 2001	Automated Manufacturing	10
ELEC 2008	Microcontrollers and PLCs	10
Select one elective (Level 2 or higher)	10

A	Credit Points	40
Autumn session		
MECH 2001	Kinematics and Kinetics of Machines	10
MECH 2003	Mechanics of Materials	10
ELEC 2001	Circuit Theory	10
ENGR 2035	Modern Digital Design and Development	10
	Credit Points	40
Year 3		
Spring session		
MECH 4003	Mobile Robotics	10
MECH 3006	Mechatronic Design	10
MECH 3004	Dynamics of Mechanical Systems	10
Design for Advance	ed Manufacturing (not yet available)	10
Industrial Experience	ce	
ENGR 3017	Industrial Experience (Engineering)	0
	Credit Points	40
Autumn session		
PROC 3008	Materials Processing and Applications	10
MECH 3005	Mechanical Design	10
Digital Manufacturi	ng and IIoT (not yet available)	10
Minor Alternate Sul	oject	10
Industrial Experience	ce	
ENGR 3017	Industrial Experience (Engineering)	0
	Credit Points	40
Year 4		
Spring session		
ENGR 4025	Final Year Project 1 (UG Engineering)	10
MECH 4002	Computer Aided Engineering	10
Minor Alternate Sub	oject	10
Select one elective	(Level 2 or higher)	10
	Credit Points	40
Autumn session		
ENGR 4026	Final Year Project 2 (UG Engineering)	10
MECH 4004	Robotics	10
Minor Alternate Sul	oject	10
Select one elective	(Level 2 or higher)	10
	Credit Points	40

Minor Alternate Subjects

Alternate subjects may be used to complete one of the minors listed below

Biomedical Engineering, Minor (https://hbook.westernsydney.edu.au/majors-minors/biomedical-engineering-minor/)

Indigenous Australian Studies, Minor (https://

hbook.westernsydney.edu.au/majors-minors/indigenous-australian-studies-minor/)

Materials Engineering, Minor (https://hbook.westernsydney.edu.au/majors-minors/materials-engineering-minor/)

Bachelor of Engineering Advanced (Honours)

Qualification for this award requires the successful completion of 320 credit points, which include the subjects listed in the recommended sequence below.

Course	Title	Credit
		Points
Year 1		
Autumn session		
MATH 1034	Mathematics for Engineers 1 (Advanced)	10
ENGR 1024	Introduction to Engineering Practice	10
ENGR 1047	Advanced Engineering Physics 1	10
ELEC 1006	Engineering Computing	10
O	Credit Points	40
Spring session	Mathamatica for Frainces 2 (Advanced)	1.0
MATH 1035	Mathematics for Engineers 2 (Advanced) Electrical Fundamentals	10
ELEC 1003 ENGR 1018	Fundamentals of Mechanics	10 10
Select one elective		10
Select one elective	Credit Points	40
Year 2	Credit Points	40
Autumn session		
MECH 2003	Mechanics of Materials	10
MECH 2003 MECH 2001	Kinematics and Kinetics of Machines	10
ELEC 2001		10
ENGR 2035	Circuit Theory	10
ENGN 2033	Modern Digital Design and Development Credit Points	40
Caring accoion	Credit Politis	40
Spring session MECH 2005	Mathematics for Mechanical and	10
MECH 2005	Mechatronic Engineers	10
MECH 3004	Dynamics of Mechanical Systems	10
ELEC 2008	Microcontrollers and PLCs	10
ENGR 2001	Automated Manufacturing	10
Students who fail	to maintain a minimum GPA of 5.0 at the end	
of completion of 1	60 Credit Points, and again at the completion	
	ts will be automatically transferred to the B.	
Engineering (Hono	ours) (3740) program.	
	Credit Points	40
Year 3		
Autumn session		
PROC 3008	Materials Processing and Applications	10
MECH 3005	Mechanical Design	10
_	ring and IIoT (not yet available)	10
Minor Alternate Su	<u> </u>	10
	Credit Points	40
Spring session		
MECH 4003	Mobile Robotics	10
MECH 3006	Mechatronic Design	10
	ed Manufacturing (not yet available)	10
Minor Alternate Su		10
Industrial Experier		
ENGR 3017	Industrial Experience (Engineering)	0
.,	Credit Points	40
Year 4		
Autumn session		
ENGR 4037	Advanced Engineering Thesis 1:	10

Preliminary Investigations

Robotics

MECH 4004

Minor Alternate Subject

Select one elective

Elective unit	must be Level 2 or higher	
	Credit Points	40
Spring session		
ENGR 4036	Advanced Engineering Thesis 2: Detailed Investigations	10
Minor Alternate	subject	10
Select two electives		20
Elective subj	ects must be Level 2 or higher	
	Credit Points	40
	Total Credit Points	320

Alternate Pool

Subject	Title	Credit Points
BIOS 1022	Introduction to Human Biology	10
CEDS 3001	Bridging the Gap: Re-engaging Indigenous Learners	10
ENGR 4038	Biomedical Electronics	10
ENGR 3004	Biomedical Signals and Data Analysis	10
HLTH 2003	Biomechanics	10
HUMN 1013	Contextualising Indigenous Australia (Day Mod	de) 10
HUMN 1058	Indigenous Landscapes	10
HUMN 2038	Pigments of the Imagination	10
HUMN 2048	Revaluing Indigenous Economics (Day Mode)	10
HUMN 3082	The Making of the 'Aborigines'	10
HUMN 3070	Rethinking Research with Indigenous Australians: Independent Study Project (Day Mode)	10
PERF 2011	From Corroborees to Curtain Raisers (Day Mod	le) 10
PROC 1008	Introduction to Materials Engineering	10
PROC 2003	Materials Selection and Design	10
PROC 4001	Advanced Materials Topics	10
PROC 4002	Engineering Materials from Waste	10
VISU 2003	From Ochre to Acrylics to New Technologies	10
WELF 3008	Learning through Indigenous Australian Community Service (Day Mode)	10

Minor Alternate Subjects

Alternate subjects may be used to complete one of the minors listed below.

 $\label{lem:biomedical} \mbox{Eigenvectors, Minor (https://hbook.westernsydney.edu.au/majors-minors/biomedical-engineering-minor/)} \\$

Indigenous Australian Studies, Minor (https://

hbook.westernsydney.edu.au/majors-minors/indigenous-australian-studies-minor/)

Materials Engineering, Minor (https://hbook.westernsydney.edu.au/majors-minors/materials-engineering-minor/)

Equivalent Subjects

10

10

10

The subjects listed below count towards completion of this program for students who passed these subjects in 2021 or earlier.

MECH 4005 Advanced Engineering Thesis 1: Preliminary Investigations, replaced by ENGR 4037 Advanced Engineering Thesis 1: Preliminary Investigations

MECH 4006 Advanced Engineering Thesis 2: Detailed Investigations, replaced by ENGR 4036 Advanced Engineering Thesis 2: Detailed Investigations

The subjects listed below count towards completion of this program for students who passed these subjects in Autumn 2022 or earlier.

ENGR 1008 - Engineering Materials, replaced by PROC 1008 - Introduction to Materials Engineering

Mid -year intake

Minor Alternate Subject Industrial Experience

Course	Title	Credit Points
Year 1		
Spring session		
MATH 1034	Mathematics for Engineers 1 (Advanced)	10
ENGR 1018	Fundamentals of Mechanics	10
ELEC 1003	Electrical Fundamentals	10
ENGR 1024	Introduction to Engineering Practice	10
	Credit Points	40
Autumn session		
MATH 1035	Mathematics for Engineers 2 (Advanced)	10
ENGR 1047	Advanced Engineering Physics 1	10
ELEC 1006	Engineering Computing	10
ENGR 2035	Modern Digital Design and Development	10
	Credit Points	40
Year 2		
Spring session		
MECH 2005	Mathematics for Mechanical and Mechatronic Engineers	10
ENGR 2001	Automated Manufacturing	10
ELEC 2008	Microcontrollers and PLCs	10
Select one elective		10
Elective unit must	st be Level 2 or higher	
	Credit Points	40
Autumn session		
MECH 2003	Mechanics of Materials	10
MECH 2001	Kinematics and Kinetics of Machines	10
ELEC 2001	Circuit Theory	10
select one elective		10
of completion of 160	maintain a minimum GPA of 5.0 at the end 0 Credit Points, and again at the completion will be automatically transferred to the B. rs) (3740) program.	
	Credit Points	40
Year 3		
Spring session		
MECH 4003	Mobile Robotics	10
MECH 3006	Mechatronic Design	10
Design for Advanced	l Manufacturing (not yet available)	10
MECH 3004	Dynamics of Mechanical Systems	10
	Credit Points	40
Autumn session		
PROC 3008	Materials Processing and Applications	10
MECH 3005	Mechanical Design	10
Digital Manufacturin	g and IIoT (not yet available)	10

ENGR 3017	Industrial Experience (Engineering)	0
	Credit Points	40
Year 4		
Spring session		
ENGR 4037	Advanced Engineering Thesis 1: Preliminary Investigations	10
Minor Alternate Sub	ject	10
Minor Alternate Sub	ject	10
Select one elective		10
Elective unit mu	st be Level 2 or higher	
	Credit Points	40
Autumn session		
ENGR 4036	Advanced Engineering Thesis 2: Detailed Investigations	10
MECH 4004	Robotics	10
Minor Alternate Sub	ject	10
Select one elective		10
Elective unit mu	st be Level 2 or higher	
	Credit Points	40
	Total Credit Points	320

Alternate Pool

Subject		Credit Points
BIOS 1022	Introduction to Human Biology	10
CEDS 3001	Bridging the Gap: Re-engaging Indigenous Learners	10
ENGR 4038	Biomedical Electronics	10
ENGR 3004	Biomedical Signals and Data Analysis	10
HLTH 2003	Biomechanics	10
HUMN 1013	Contextualising Indigenous Australia (Day Mod	e) 10
HUMN 1058	Indigenous Landscapes	10
HUMN 2038	Pigments of the Imagination	10
HUMN 2048	Revaluing Indigenous Economics (Day Mode)	10
HUMN 3082	The Making of the 'Aborigines'	10
HUMN 3070	Rethinking Research with Indigenous Australians: Independent Study Project (Day Mode)	10
PERF 2011	From Corroborees to Curtain Raisers (Day Mode	e) 10
PROC 1008	Introduction to Materials Engineering	10
PROC 2003	Materials Selection and Design	10
PROC 4001	Advanced Materials Topics	10
PROC 4002	Engineering Materials from Waste	10
VISU 2003	From Ochre to Acrylics to New Technologies	10
WELF 3008	Learning through Indigenous Australian Community Service (Day Mode)	10

Minor Alternate Subjects

10

Alternate subjects may be used to complete one of the minors listed below.

Biomedical Engineering, Minor (https://hbook.westernsydney.edu.au/majors-minors/biomedical-engineering-minor/)
Indigenous Australian Studies, Minor (https://hbook.westernsydney.edu.au/majors-minors/indigenous-australian-studies-minor/)

Materials Engineering, Minor (https://hbook.westernsydney.edu.au/majors-minors/materials-engineering-minor/)

Equivalent Subjects

The subjects listed below count towards completion of this program for students who passed these subjects in 2021 or earlier.

MECH 4005 Advanced Engineering Thesis 1: Preliminary Investigations, replaced by ENGR 4037 Advanced Engineering Thesis 1: Preliminary Investigations

MECH 4006 Advanced Engineering Thesis 2: Detailed Investigations, replaced by ENGR 4036 Advanced Engineering Thesis 2: Detailed Investigations

The subjects listed below count towards completion of this program for students who passed these subjects in Autumn 2022 or earlier.

ENGR 1008 - Engineering Materials, replaced by PROC 1008 - Introduction to Materials Engineering

Bachelor of Engineering (Honours)/ Bachelor of Business (3728)

Title

Qualification for this award requires the successful completion of 400 credit points, which include the subjects listed in the recommended sequence below.

Start-year intake

Course

		Points
Year 1		
Autumn session		
MATH 1016	Mathematics for Engineers 1	10
ENGR 1011	Engineering Physics	10
BBus Core Subjec	et 1	10
BBus Core Subject	et 2	10
	Credit Points	40
Spring session		
MATH 1019	Mathematics for Engineers 2	10
ENGR 1018	Fundamentals of Mechanics	10
BBus Core Subjec	et 3	10
BBus Core Subjec	et 4	10
	Credit Points	40
Year 2		
Autumn session		
ELEC 1006	Engineering Computing	10
BBus Professiona	al Subject 1	10
BBus Professiona	al Subject 2	10
BBus Major Subje	ect 1	10
	Credit Points	40
Spring session		
PROC 1008	Introduction to Materials Engineering	10
ELEC 1003	Electrical Fundamentals	10
BBus Major Subje	ect 2	10
BBus Major Subje	ect 3	10
	Credit Points	40
Year 3		
Autumn session		
MECH 2001	Kinematics and Kinetics of Machines	10
MECH 2003	Mechanics of Materials	10

ELEC 2001	Circuit Theory	10
ENGR 2035	Modern Digital Design and Development	10
	Credit Points	40
Spring session		
ENGR 2001	Automated Manufacturing	10
MECH 3004	Dynamics of Mechanical Systems	10
ELEC 2008	Microcontrollers and PLCs	10
MECH 4003	Mobile Robotics	10
	Credit Points	40
Year 4		
Autumn session		
PROC 3008	Materials Processing and Applications	10
MECH 3005	Mechanical Design	10
Digital Manufacturin	ng and IIoT (not yet available)	10
BBus Major Subject	4	10
	Credit Points	40
Spring session		
Design for Advanced	d Manufacturing (not yet available)	10
BBus Major Subject	5	10
BBus Major Subject	6	10
BBus Major Subject	7	10
Industrial Experienc	e	
ENGR 3017	Industrial Experience (Engineering)	0
	Credit Points	40
Year 5		
Autumn session		
ENGR 4025	Final Year Project 1 (UG Engineering)	10
MECH 4004	Robotics	10
BBus Professional S	Subject 3	10
BBus Major Subject	8	10
	Credit Points	40
Spring session		
ENGR 4026	Final Year Project 2 (UG Engineering)	10
MECH 4002	Computer Aided Engineering	10
MECH 3006	Mechatronic Design	10
BBus Professional S	Subject 4	10
	Credit Points	40
	Total Credit Points	400

Equivalent Subjects

Credit

The subjects listed below count towards completion of this program for students who passed these subjects in Autumn 2022 or earlier.

ENGR 1008 - Engineering Materials, replaced by PROC 1008 - Introduction to Materials Engineering

Mid-year intake

Course	Title	Credit Points
Year 1		
Spring session		
MATH 1016	Mathematics for Engineers 1	10
ENGR 1018	Fundamentals of Mechanics	10
BBus Core Subject 1		10
BBus Core Subject 2		10
	Credit Points	40

Autumn session		
MATH 1019	Mathematics for Engineers 2	10
ENGR 1011	Engineering Physics	10
BBus Core Subject		10
BBus Core Subject		10
Bbds Core Subject	Credit Points	40
Year 2	Credit Folits	40
Spring session		
PROC 1008	Introduction to Motoriala Engineering	10
	Introduction to Materials Engineering Electrical Fundamentals	10
ELEC 1003		
BBus Major Subject		10
BBus Major Subje		10
	Credit Points	40
Autumn session		
ELEC 1006	Engineering Computing	10
BBus Professional		10
BBus Professional	•	10
BBus Major Subje	ct 3	10
	Credit Points	40
Year 3		
Spring session		
ENGR 2001	Automated Manufacturing	10
MECH 3006	Mechatronic Design	10
ELEC 2008	Microcontrollers and PLCs	10
MECH 4003	Mobile Robotics	10
	Credit Points	40
Autumn session		
MECH 2001	Kinematics and Kinetics of Machines	10
MECH 2003	Mechanics of Materials	10
ELEC 2001	Circuit Theory	10
ENGR 2035	Modern Digital Design and Development	10
	Credit Points	40
Year 4		
Spring session		
BBus Major Subject	ct 4	10
	ed Manufacturing (not yet available)	10
BBus Major Subject		10
BBus Major Subject		10
DDGS Major Subject	Credit Points	40
Autumn session	Credit Forms	40
PROC 3008	Materials Processing and Applications	10
MECH 3005	Mechanical Design	10
	•	
-	ring and IIoT (not yet available)	10
BBus Major Subje		10
Industrial Experier		
ENGR 3017	Industrial Experience (Engineering)	0
	Credit Points	40
Year 5		
Spring session		
ENGR 4025	Final Year Project 1 (UG Engineering)	10
MECH 4002	Computer Aided Engineering	10
MECH 3004	Dynamics of Mechanical Systems	10
BBus Professional	Subject 3	10
	Credit Points	40
Autumn session		
ENGR 4026	Final Year Project 2 (UG Engineering)	10

	Total Credit Points	400
	Credit Points	40
BBus Major Subject	t 8	10
BBus Professional	Subject 4	10
MECH 4004	Robotics	10

Equivalent Subjects

The subjects listed below count towards completion of this program for students who passed these subjects in Autumn 2022 or earlier.

ENGR 1008 - Engineering Materials, replaced by PROC 1008 - Introduction to Materials Engineering

Bachelor of Engineering Science

Qualification for this award requires the successful completion of 240 credit points, which include the subjects listed in the recommended sequence below.

* All students undertaking the Bachelor of Engineering Science are required to enrol in MATH 1021 Mathematics for Engineers Preliminary and undertake a readiness test at the beginning of their study.

The readiness test will be conducted at the beginning of the first semester of enrolment and the result will be used to determine whether a student will remain in MATH 1021 Mathematics for Engineers Preliminary or be transferred by the School to MATH 1016 Mathematics for Engineers 1.

Students remaining in MATH 1021 Mathematics for Engineers
Preliminary will be required to complete MATH 1016 Mathematics
for Engineers 1 during second semester and will be encouraged to
complete MATH 1019 Mathematics for Engineers 2 during the Summer
session.

Students who finish MATH 1021 Mathematics for Engineers Preliminary will then use this subject as an elective.

Course	Title	Credit Points
Year 1		
Autumn session		
ENGR 1011	Engineering Physics	10
ELEC 1006	Engineering Computing	10
ENGR 1024	Introduction to Engineering Practice	10
Select one of the foll	owing:	10
MATH 1021	Mathematics for Engineers Preliminary	
MATH 1016	Mathematics for Engineers 1	
	Credit Points	40
Spring session		
ENGR 1018	Fundamentals of Mechanics	10
ELEC 1003	Electrical Fundamentals	10
Select one elective		10
• Elective can be a	ny Level for Year 1	
Select one of the foll	owing:	10
MATH 1016	Mathematics for Engineers 1	
MATH 1019	Mathematics for Engineers 2	
	Credit Points	40

Mid-year intake	•	
	Total Credit Points	240
	Credit Points	40
Elective must be	e Level 2 or higher	
Select one elective		10
Design for Advance	d Manufacturing (not yet available)	10
MECH 4003	Mobile Robotics	10
ENGR 3014	Engineering Science Project 2	10
Spring session		
	Credit Points	40
Digital Manufacturin	ng and IIoT (not yet available)	10
ENGR 2035	Modern Digital Design and Development	10
MECH 3005	Mechanical Design	10
ENGR 3013	Engineering Science Project 1	10
Autumn session		
Year 3	orear i onito	70
	Technologist) Credit Points	40
ENGR 2033	Industrial Experience (Engineering	0
Industrial Experienc		
ENGR 3030	Specialisation Workshop 2	10
ELEC 2008	Microcontrollers and PLCs	10
ENGR 2001	Automated Manufacturing	10
MECH 3004	Dynamics of Mechanical Systems	10
Spring session		
	Credit Points	40
ENGR 3029	Specialisation Workshop 1	10
ELEC 2001	Circuit Theory	10
MECH 2003	Mechanics of Materials	10
MECH 2001	Kinematics and Kinetics of Machines	10
Autumn session		
year 2		

Year 2

Course	Title	Credit Points
Year 1		
Spring session		
Select one of the fo	llowing:	10
MATH 1021	Mathematics for Engineers Preliminary	
MATH 1016	Mathematics for Engineers 1	
ENGR 1018	Fundamentals of Mechanics	10
ELEC 1003	Electrical Fundamentals	10
ENGR 1024	Introduction to Engineering Practice	10
	Credit Points	40
Autumn session		
Select one of the fo	ollowing:	10
MATH 1016	Mathematics for Engineers 1	
MATH 1019	Mathematics for Engineers 2	
ENGR 1011	Engineering Physics	10
ELEC 1006	Engineering Computing	10
Select one elective		10
Elective unit mu	ust be Level 1 or higher	
·	Credit Points	40

	Total Credit Points	240
	Credit Points	40
Digital Manufacturing	g and IIoT (not yet available)	10
ENGR 2035	Modern Digital Design and Development	10
MECH 3005	Mechanical Design	10
ENGR 3014	Engineering Science Project 2	10
Autumn session		
	Credit Points	40
Design for Advanced	Manufacturing (not yet available)	10
MECH 3004	Dynamics of Mechanical Systems	10
MECH 4003	Mobile Robotics	10
ENGR 3013	Engineering Science Project 1	10
Spring session		
Year 3		
	Credit Points	40
2000	Technologist)	U
ENGR 2033	Industrial Experience (Engineering	0
Industrial Experience		10
ENGR 3030	Specialisation Workshop 2	10
ELEC 2001	Circuit Theory	10
MECH 2001	Mechanics of Materials	10
MECH 2001	Kinematics and Kinetics of Machines	10
Autumn session	Creat Points	40
Select one elective (L	Credit Points	10
ELEC 2008	Microcontrollers and PLCs	10
ENGR 2001	Automated Manufacturing	10
ENGR 3029	Specialisation Workshop 1	10
Spring session		

Major Sequence 2024

This major sequence applies to students who commenced in 2024 or later. If you commenced prior to 2024 please refer to the Sequence 2022-23 tab for details.

This major is included in Bachelor of Engineering Science, Bachelor of Engineering (Honours), Bachelor of Engineering Advanced (Honours) and Bachelor of Engineering (Honours)/Bachelor of Business.

Please follow the recommended sequence for your program as noted below.

Bachelor of Engineering (Honours) (3740)

Qualification for this award requires the successful completion of 320 credit points, which include the subjects listed in the recommended sequence below.

* All students undertaking the Bachelor of Engineering (Honours) are required to enrol in MATH 1021 Mathematics for Engineers Preliminary and undertake a readiness test at the beginning of their study.

The readiness test will be conducted at the beginning of the first semester of enrolment and the result will be used to determine whether a student will remain in MATH 1021 Mathematics for Engineers Preliminary or be transferred by the School to MATH 1016 Mathematics for Engineers 1.

Students remaining in MATH 1021 Mathematics for Engineers Preliminary will be required to complete MATH 1016 Mathematics for Engineers 1 during second semester and will be encouraged to complete MATH 1019 Mathematics for Engineers 2 during the Summer session.

Course	Title	Credit Points
Year 1		
Autumn session		
ENGR 1011	Engineering Physics	10
ELEC 1006	Engineering Computing	10
ENGR 1024	Introduction to Engineering Practice	10
Select one of the fo	llowing:	10
MATH 1021	Mathematics for Engineers Preliminary	
MATH 1016	Mathematics for Engineers 1	
	Credit Points	40
Spring session		
ENGR 1018	Fundamentals of Mechanics	10
ELEC 1003	Electrical Fundamentals	10
PROC 1008	Introduction to Materials Engineering	10
Select one of the fo	llowing:	10
MATH 1016	Mathematics for Engineers 1	
MATH 1019	Mathematics for Engineers 2	
	Credit Points	40
Year 2		
Autumn session		
MECH 2001	Kinematics and Kinetics of Machines	10
MECH 2003	Mechanics of Materials	10
ELEC 2001	Circuit Theory	10
ENGR 2035	Modern Digital Design and Development	10
LITOIT 2000	Credit Points	40
Spring session	orealt rolling	40
MECH 3004	Dynamics of Mechanical Systems	10
ENGR 2001	Automated Manufacturing	10
ELEC 2008	Microcontrollers and PLCs	10
Select one elective		10
	Credit Points	40
Year 3	orealt rolling	40
Autumn session		
PROC 2003	Materials Selection and Design	10
MECH 3005	Mechanical Design	10
ENGR 3033	Digital Manufacturing and IIoT	10
Select one elective		10
Scient one elective (Credit Points	40
Spring session	orealt i onito	40
MECH 4003	Mobile Robotics	10
ENGR 4039	Design for Advanced Manufacturing	10
MECH 3006	Mechatronic Design	10
MECH 4002	-	
Industrial Experience	Computer Aided Engineering	10
ENGR 3017		0
LINUR 3017	Industrial Experience (Engineering) Credit Points	0
Voor 4	Credit Points	40
Year 4		
Autumn session ENGR 4041	Final Year Project 1 (UG Engineering)	20

	Total Credit Points	320
	Credit Points	40
Select two elective	es or minor subjects	20
ENGR 4042	Final Year Project 2 (UG Engineering)	20
Spring session		
	Credit Points	40
PROC 3008	Materials Processing and Applications	10
MECH 4004	Robotics	10

	Credit Points	40
	Total Credit Points	320
Mid-year intal	Ke	
Course	Title	Credit
Van 1		Points
Year 1		
Spring session ENGR 1018	Fundamentals of Mechanics	10
	Electrical Fundamentals	10
ELEC 1003 PROC 1008		10
	Introduction to Materials Engineering	
Select one of the f	-	10
MATH 1021	Mathematics for Engineers Preliminary	
MATH 1016	Mathematics for Engineers 1	
	Credit Points	40
Autumn session		
ENGR 1011	Engineering Physics	10
ELEC 1006	Engineering Computing	10
ENGR 1024	Introduction to Engineering Practice	10
Select one of the f	following:	10
MATH 1019	Mathematics for Engineers 2	
MATH 1016	Mathematics for Engineers 1	
	Credit Points	40
Year 2		
Spring session		
ENGR 2001	Automated Manufacturing	10
ELEC 2008	Microcontrollers and PLCs	10
Select two elective	es or minor subjects	20
	Credit Points	40
Autumn session		
MECH 2001	Kinematics and Kinetics of Machines	10
MECH 2003	Mechanics of Materials	10
ELEC 2001	Circuit Theory	10
ENGR 2035	Modern Digital Design and Development	10
	Credit Points	40
Year 3		
Spring session		
MECH 4002	Computer Aided Engineering	10
ENGR 4039	Design for Advanced Manufacturing	10
MECH 3006	Mechatronic Design	10
MECH 3004	Dynamics of Mechanical Systems	10
	Credit Points	40
Autumn session		
PROC 3008	Materials Processing and Applications	10
MECH 3005	Mechanical Design	10
ENGR 3033	Digital Manufacturing and IIoT	10
PROC 2003	Materials Selection and Design	10
Industrial Experier		
ENGR 3017	Industrial Experience (Engineering)	0
	Credit Points	40
		. •

Year 4		
Spring session		
ENGR 4041	Final Year Project 1 (UG Engineering)	20
MECH 4003	Mobile Robotics	10
Select one electi	ve or minor subject	10
	Credit Points	40
Autumn session		
ENGR 4042	Final Year Project 2 (UG Engineering)	20
MECH 4004	Robotics	10
Select one electi	ve or minor subject	10
	Credit Points	40
	Total Credit Points	320

Bachelor of Engineering Advanced (Honours) (3771)

Qualification for this award requires the successful completion of 320 credit points, which include the subjects listed in the recommended sequence below.

Start-year intake

Course	Title	Credit Points
Year 1		
Autumn session		
MATH 1034	Mathematics for Engineers 1 (Advanced)	10
ENGR 1024	Introduction to Engineering Practice	10
ENGR 1047	Advanced Engineering Physics 1	10
ELEC 1006	Engineering Computing	10
	Credit Points	40
Spring session		
MATH 1035	Mathematics for Engineers 2 (Advanced)	10
ELEC 1003	Electrical Fundamentals	10
ENGR 1018	Fundamentals of Mechanics	10
ENGR 2023	Advanced Engineering Physics 2	10
	Credit Points	40
Year 2		
Autumn session		
MECH 2003	Mechanics of Materials	10
MECH 2001	Kinematics and Kinetics of Machines	10
ELEC 2001	Circuit Theory	10
ENGR 2035	Modern Digital Design and Development	10
	Credit Points	40
Spring session		
MECH 3004	Dynamics of Mechanical Systems	10
PROC 1008	Introduction to Materials Engineering	10
ENGR 2001	Automated Manufacturing	10
Select one elective	or Minor subject	10
of completion of 16	o maintain a minimum GPA of 5.0 at the end O Credit Points, and again at the completion will be automatically transferred to the B. rs) (3740) program.	
	Credit Points	40
Year 3		
Autumn session		
PROC 3008	Materials Processing and Applications	10
MECH 3005	Mechanical Design	10
ENGR 3033	Digital Manufacturing and IIoT	10

	Total Credit Points	320
	Credit Points	40
Electives can be L	evel 2 or higher	
Select two electiv	es or minor subjects	20
ENGR 4044	Advanced Engineering Thesis 2: Detailed Investigations	20
Spring session		
	Credit Points	40
Select one electiv	e or minor subject	10
MECH 4004	Robotics	10
ENGR 4043: Adva Investigations	nced Engineering Thesis 1: Preliminary	20
Autumn session		
Year 4		
	Credit Points	40
ENGR 3017	Industrial Experience (Engineering)	0
Industrial Experie	nce	
ELEC 2008	Microcontrollers and PLCs	10
MECH 3006	Mechatronic Design	10
ENGR 4039	Design for Advanced Manufacturing	10
Spring session MECH 4003	Mobile Robotics	10
Caring cassion	Credit Points	40
DOSINI 2049		
BUSM 2049	Credit Points	10 40

Equivalent Subjects

The subjects listed below count towards completion of this program for students who passed these subjects in 2023 or earlier.

BUSM 2047 Venture Makers Foundations, replaced by BUSM 2049 Creative and Innovative Thinkers

Mid -year intake

Course	Title	Credit Points
Year 1		
Spring session		
MATH 1034	Mathematics for Engineers 1 (Advanced)	10
ENGR 1018	Fundamentals of Mechanics	10
ELEC 1003	Electrical Fundamentals	10
ENGR 2023	Advanced Engineering Physics 2	10
	Credit Points	40
Autumn session		
MATH 1035	Mathematics for Engineers 2 (Advanced)	10
ENGR 1024	Introduction to Engineering Practice	10
ENGR 1047	Advanced Engineering Physics 1	10
ELEC 1006	Engineering Computing	10
	Credit Points	40
Year 2		
Spring session		
ENGR 2001	Automated Manufacturing	10
Select one elective o	r Minor subject	10
ELEC 2008	Microcontrollers and PLCs	10
PROC 1008	Introduction to Materials Engineering	10
	Credit Points	40
Autumn session		
MECH 2003	Mechanics of Materials	10

	Overdia Delina	40
Engineering (Honou	rs) (3740) program.	
•	will be automatically transferred to the B.	
of completion of 16	0 Credit Points, and again at the completion	
Students who fail to	maintain a minimum GPA of 5.0 at the end	
ENGR 2035	Modern Digital Design and Development	10
ELEC 2001	Circuit Theory	10
MECH 2001	Kinematics and Kinetics of Machines	10

3 3 1	, , , , ,	
	Credit Points	40
Year 3		
Spring session		
MECH 4003	Mobile Robotics	10
ENGR 4039	Design for Advanced Manufacturing	10
MECH 3006	Mechatronic Design	10
MECH 3004	Dynamics of Mechanical Systems	10
	Credit Points	40
Autumn session		
PROC 3008	Materials Processing and Applications	10
MECH 3005	Mechanical Design	10
ENGR 3033	Digital Manufacturing and IIoT	10
BUSM 2049	Creative and Innovative Thinkers	10
Industrial Experier	nce	
ENGR 3017	Industrial Experience (Engineering)	0
	Credit Points	40
Year 4		
Spring session		
ENGR 4043	Advanced Engineering Thesis 1:	20
	Preliminary Investigations	
Select two elective	es or minor subjects	20
	Credit Points	40
Autumn session		
ENGR 4044	Advanced Engineering Thesis 2: Detailed	20
	Investigations	
MECH 4004	Robotics	10
Select one elective	e or minor subject	10
	Credit Points	40
	Total Credit Points	320

Equivalent Subjects

The subjects listed below count towards completion of this program for students who passed these subjects in 2023 or earlier.

BUSM 2047 Venture Makers Foundations, replaced by BUSM 2049 Creative and Innovative Thinkers

Bachelor of Engineering (Honours)/ Bachelor of Business (3800)

Qualification for this award requires the successful completion of 440 credit points, which include the subjects listed in the recommended sequence below.

Course	Title	Credit Points
Year 1		
Autumn session		
ENGR 1011	Engineering Physics	10
MATH 1016	Mathematics for Engineers 1	10
BBus Core Subject 1		10

BBus Core Subject 2		10
	Credit Points	40
Spring session		
PROC 1008	Introduction to Materials Engineering	10
ELEC 1003	Electrical Fundamentals	10
BBus Core Subject 3		10
BBus Core Subject 4		10
	Credit Points	40
Year 2		
Autumn session		
ENGR 1018	Fundamentals of Mechanics	10
ENGR 1024	Introduction to Engineering Practice	10
MATH 1019	Mathematics for Engineers 2	10
BBus Professional Su	ubject 1	10
	Credit Points	40
Spring session		
ELEC 2008	Microcontrollers and PLCs	10
ENGR 4039	Design for Advanced Manufacturing	10
ENGR 2001	Automated Manufacturing	10
BBus Professional Su	ubject 2	10
	Credit Points	40
Year 3		
Autumn session		
MECH 2003	Mechanics of Materials	10
PROC 2003	Materials Selection and Design	10
ELEC 1006	Engineering Computing	10
ENGR 2035	Modern Digital Design and Development	10
	Credit Points	40
Spring session		
MECH 4002	Computer Aided Engineering	10
MECH 4003	Mobile Robotics	10
BBus Major Subject		10
BBus Major Subject 2		10
	Credit Points	40
Year 4	orealt i omto	
Autumn session		
MECH 2001	Kinematics and Kinetics of Machines	10
ELEC 2001	Circuit Theory	10
BBus Major Subject 3	•	10
BBus Major Subject 4		10
BBus Major Gubject	Credit Points	40
Spring session	orealt i onits	40
MECH 3006	Mechatronic Design	10
MECH 3004	Dynamics of Mechanical Systems	10
BBus Major Subject 5		10
BBus Major Subject 6		10
Industrial Experience		10
ENGR 3017	Industrial Experience (Engineering)	0
LITOIT GOTT	Credit Points	40
Year 5	orealt i onits	40
Autumn session		
PROC 3008	Materials Processing and Applications	10
MECH 3005	Mechanical Design	10
BBus Major Subject 7	•	10
BBus Major Subject 8		10
DDGS Wajor Subject 8		
	Credit Points	40

Spring session		
ENGR 4041	Final Year Project 1 (UG Engineering)	20
BBus Professional	, , , , , , , , , , , , , , , , , , , ,	10
BBus Professional	•	10
	Credit Points	40
Year 6		
Autumn session		
ENGR 4042	Final Year Project 2 (UG Engineering)	20
ENGR 3033	Digital Manufacturing and Ilot	10
MECH 4004	Robotics	10
	Credit Points	40
	Total Credit Points	440
Mid-year intak	e	
Course	Title	Credit
		Points
Year 1		
Spring session		
PROC 1008	Introduction to Materials Engineering	10
ENGR 1024	Introduction to Engineering Practice	10
BBus Core Subject	1	10
BBus Core Subject	2	10
	Credit Points	40
Autumn session		
MATH 1016	Mathematics for Engineers 1	10
ENGR 1011	Engineering Physics	10
ENGR 1018	Fundamentals of Mechanics	10
ELEC 1006	Engineering Computing	10
	Credit Points	40
Year 2		
Spring session		
ELEC 1003	Electrical Fundamentals	10
ENGR 4039	Design for Advanced Manufacturing	10
BBus Core Subject		10
BBus Core Subject		10
	Credit Points	40
Autumn session		
PROC 2003	Materials Selection and Design	10
MATH 1019	Mathematics for Engineers 2	10
MECH 2003	Mechanics of Materials	10
MECH 2001	Kinematics and Kinetics of Machines	10
v •	Credit Points	40
Year 3		
Spring session		
MECH 3004	Dynamics of Mechanical Systems	10
ENGR 2001	Automated Manufacturing	10
BBus Professional		10
BBus Professional	-	10
	Credit Points	40
Autumn session	M 8:::18 : 18	10
ENGR 2035	Modern Digital Design and Development	10
ELEC 2001	Circuit Theory	10
BBus Major Subjec		10
BBus Major Subjec		10
	Credit Points	40

Year 4		
Spring session		
ELEC 2008	Microcontrollers and PLCs	10
MECH 4002	Computer Aided Engineering	10
BBus Major Subject	3	10
BBus Major Subject	4	10
	Credit Points	40
Autumn session		
PROC 3008	Materials Processing and Applications	10
MECH 3005	Mechanical Design	10
ENGR 3033	Digital Manufacturing and Ilot	10
BBus Major Subject	5	10
Industrial Experience	e	
ENGR 3017	Industrial Experience (Engineering)	0
	Credit Points	40
Year 5		
Spring session		
MECH 3006	Mechatronic Design	10
BBus Major Subject	6	10
BBus Major Subject	7	10
BBus Major Subject		10
	Credit Points	40
Autumn session		
ENGR 4041	Final Year Project 1 (UG Engineering)	20
MECH 4004	Robotics	10
BBus Professional S	ubject 3	10
	Credit Points	40
Year 6		
Spring session		
ENGR 4042	Final Year Project 2 (UG Engineering)	20
MECH 4003	Mobile Robotics	10
BBus Professional S	ubject 4	10
	Credit Points	40
	Total Credit Points	440

Bachelor of Engineering Science (3691)

Qualification for this award requires the successful completion of 240 credit points, which include the subjects listed in the recommended sequence below.

* All students undertaking the Bachelor of Engineering Science are required to enrol in MATH 1021 Mathematics for Engineers Preliminary and undertake a readiness test at the beginning of their study.

The readiness test will be conducted at the beginning of the first semester of enrolment and the result will be used to determine whether a student will remain in MATH 1021 Mathematics for Engineers Preliminary or be transferred by the School to MATH 1016 Mathematics for Engineers 1.

Students remaining in MATH 1021 Mathematics for Engineers
Preliminary will be required to complete MATH 1016 Mathematics
for Engineers 1 during second semester and will be encouraged to
complete MATH 1019 Mathematics for Engineers 2 during the Summer
session.

Students who finish MATH 1021 Mathematics for Engineers Preliminary will then use this subject as an elective.

Start-year intake

Year 1 Autumn session 10 ENGR 1011 Engineering Physics 10 ELEC 1006 Engineering Computing 10 ENGR 1024 Introduction to Engineering Practice 10 Select one of the following: 10 MATH 1021 Mathematics for Engineers Preliminary MATH 1016 Mathematics for Engineers 1 Credit Points 40 Spring session 10 ENGR 1018 Fundamentals of Mechanics 10 PROC 1008 Introduction to Materials Engineering 10 ELEC 1003 Electrical Fundamentals 10 Select one of the following: 10 MATH 1016 Mathematics for Engineers 1 40 MATH 1019 Mathematics for Engineers 2 40 Vear 2 Credit Points 40 Wear 3 Autumn session 10 MECH 2001 Kinematics and Kinetics of Machines 10 MECH 2003 Mechanics of Materials 10 ELEC 2001 Circuit Theory 10 ENGR 3029 <td< th=""><th>Course</th><th>Title</th><th>Credit Points</th></td<>	Course	Title	Credit Points	
ENGR 1011 Engineering Physics 10 ELEC 1006 Engineering Computing 10 ENGR 1024 Introduction to Engineering Practice 10 Select one of the following: 10 MATH 1021 Mathematics for Engineers Preliminary MATH 1016 Mathematics for Engineers 1 Credit Points 40 Spring session ENGR 1018 Fundamentals of Mechanics 10 PROC 1008 Introduction to Materials Engineering 10 ELEC 1003 Electrical Fundamentals 10 Select one of the following: 10 MATH 1016 Mathematics for Engineers 1 10 MATH 1019 Mathematics for Engineers 2 40 Credit Points 40 Year 2 Autumn session 10 MECH 2001 Kinematics and Kinetics of Machines 10 MECH 2001 Kinematics and Kinetics of Machines 10 MECH 2003 Mechanics of Materials 10 ELEC 2001 Circuit Theory 10 Spring session	Year 1			
ELEC 1006	Autumn session			
ENGR 1024 Introduction to Engineering Practice Select one of the following: MATH 1021 Mathematics for Engineers Preliminary MATH 1016 Mathematics for Engineers I Credit Points 40 Spring session ENGR 1018 Fundamentals of Mechanics ENGR 1018 Fundamentals of Mechanics ELEC 1003 Electrical Fundamentals ELEC 1003 Electrical Fundamentals MATH 1016 Mathematics for Engineering 10 Select one of the following: MATH 1019 Mathematics for Engineers 1 MATH 1019 Mathematics for Engineers 2 Credit Points 40 Year 2 Autumn session MECH 2001 Kinematics and Kinetics of Machines MECH 2003 Mechanics of Materials 10 ELEC 2001 Circuit Theory ENGR 3029 Specialisation Workshop 1 Credit Points 40 Spring session MECH 3004 Dynamics of Mechanical Systems ENGR 2001 Automated Manufacturing ENGR 2001 Automated Manufacturing ENGR 3030 Specialisation Workshop 2 Industrial Experience ENGR 2033 Industrial Experience (Engineering Technologist) Credit Points 40 Year 3 Autumn session ENGR 3013 Engineering Science Project 1 10 MECH 3005 Mechanical Design ENGR 3013 Engineering Science Project 1 10 Gredit Points 40 Year 3 Autumn session ENGR 3013 Engineering Science Project 1 10 Digital Manufacturing and IloT (not yet available) Credit Points 40 Spring session ENGR 3014 Engineering Science Project 2 10 Design for Advanced Manufacturing (not yet available) Credit Points Credit Points 40 Credit Points	ENGR 1011	Engineering Physics	10	
Select one of the following: MATH 1021 Mathematics for Engineers Preliminary MATH 1016 Mathematics for Engineers 1 Credit Points 40 Spring session ENGR 1018 Fundamentals of Mechanics 10 PROC 1008 Introduction to Materials Engineering 10 ELEC 1003 Electrical Fundamentals 10 Select one of the following: 10 MATH 1016 Mathematics for Engineers 1 MATH 1019 Mathematics for Engineers 2 Credit Points 40 Year 2 Autumn session MECH 2001 Kinematics and Kinetics of Machines 10 MECH 2003 Mechanics of Materials 10 ELEC 2001 Circuit Theory 10 ENGR 3029 Specialisation Workshop 1 10 Credit Points 40 Spring session MECH 3004 Dynamics of Mechanical Systems 10 ENGR 2001 Automated Manufacturing 10 ELEC 2008 Microcontrollers and PLCs 10 ENGR 3030 Specialisation Workshop 2 10 Industrial Experience ENGR 2033 Industrial Experience (Engineering 10 Industrial Experience ENGR 2033 Industrial Experience (Engineering 10 Technologist) Credit Points 40 Year 3 Autumn session ENGR 3013 Engineering Science Project 1 10 MECH 3005 Mechanical Design 10 ENGR 3035 Modern Digital Design and Development 10 Digital Manufacturing and IloT (not yet available) 10 Credit Points 40 Spring session ENGR 3014 Engineering Science Project 2 10 Design for Advanced Manufacturing (not yet available) 10 Credit Points 20 • Elective must be Level 2 or higher Credit Points 40	ELEC 1006	Engineering Computing	10	
MATH 1021 Mathematics for Engineers Preliminary MATH 1016 Mathematics for Engineers 1 Credit Points 40 Spring session 10 ENGR 1018 Fundamentals of Mechanics 10 PROC 1008 Introduction to Materials Engineering 10 ELEC 1003 Electrical Fundamentals 10 Select one of the following: 10 MATH 1019 Mathematics for Engineers 1 MATH 1019 Mathematics for Engineers 2 Credit Points 40 Year 2 Autumn Autumn session 40 MECH 2001 Kinematics and Kinetics of Machines 10 MECH 2003 Mechanics of Materials 10 ELEC 2001 Circuit Theory 10 ENGR 3029 Specialisation Workshop 1 10 Credit Points 40 Spring session MECH 3004 Dynamics of Mechanical Systems 10 ENGR 2001 Automated Manufacturing 10 10 Industrial Experience 10 10 ENGR	ENGR 1024	Introduction to Engineering Practice	10	
MATH 1016 Mathematics for Engineers 1 Credit Points	Select one of the fo	ollowing:	10	
Credit Points 40 Spring session ENGR 1018 Fundamentals of Mechanics 10 PROC 1008 Introduction to Materials Engineering 10 ELEC 1003 Electrical Fundamentals 10 Select one of the following: 10 MATH 1016 Mathematics for Engineers 1 MATH 1019 Mathematics for Engineers 2 Credit Points 40 Year 2 Autumn session MECH 2001 Kinematics and Kinetics of Machines 10 MECH 2003 Mechanics of Materials 10 ELEC 2001 Circuit Theory 10 ENGR 3029 Specialisation Workshop 1 10 Credit Points 40 Spring session MECH 3004 Dynamics of Mechanical Systems 10 ENGR 2001 Automated Manufacturing 10 ELEC 2008 Microcontrollers and PLCs 10 ENGR 3030 Specialisation Workshop 2 10 Industrial Experience ENGR 2033 Industrial Experience (Engineering 10 Technologist) 7 Credit Points 40 Year 3 Autumn session ENGR 3013 Engineering Science Project 1 10 MECH 3005 Mechanical Design 10 ENGR 2035 Modern Digital Design and Development 10 Digital Manufacturing and IloT (not yet available) 10 Credit Points 40 Spring session ENGR 3014 Engineering Science Project 2 10 Design for Advanced Manufacturing (not yet available) 10 Select two electives 20 • Elective must be Level 2 or higher	MATH 1021	Mathematics for Engineers Preliminary		
Spring session ENGR 1018 Fundamentals of Mechanics 10 PROC 1008 Introduction to Materials Engineering 10 ELEC 1003 Electrical Fundamentals 10 Select one of the following: 10 MATH 1016 Mathematics for Engineers 1 MATH 1019 Mathematics for Engineers 2 Credit Points 40 Year 2 Autumn session MECH 2001 Kinematics and Kinetics of Machines 10 MECH 2003 Mechanics of Materials 10 ELEC 2001 Circuit Theory 10 ENGR 3029 Specialisation Workshop 1 10 Credit Points 40 Spring session MECH 3004 Dynamics of Mechanical Systems 10 ENGR 2001 Automated Manufacturing 10 ELEC 2008 Microcontrollers and PLCs 10 ENGR 3030 Specialisation Workshop 2 10 Industrial Experience ENGR 2033 Industrial Experience (Engineering 10 Technologist) Credit Points 40 Year 3 Autumn session ENGR 3013 Engineering Science Project 1 10 MECH 3005 Mechanical Design 10 ENGR 2035 Modern Digital Design and Development 10 Digital Manufacturing and IIoT (not yet available) 10 Credit Points 40 Spring session ENGR 3014 Engineering Science Project 2 10 Design for Advanced Manufacturing (not yet available) 10 Select two electives 20 • Elective must be Level 2 or higher	MATH 1016	Mathematics for Engineers 1		
ENGR 1018 Fundamentals of Mechanics 10 PROC 1008 Introduction to Materials Engineering 10 ELEC 1003 Electrical Fundamentals 10 Select one of the following: 10 MATH 1016 Mathematics for Engineers 1 MATH 1019 Mathematics for Engineers 2 Credit Points 40 Year 2 Autumn session MECH 2001 Kinematics and Kinetics of Machines 10 MECH 2003 Mechanics of Materials 10 ELEC 2001 Circuit Theory 10 ENGR 3029 Specialisation Workshop 1 10 Credit Points 40 Spring session MECH 3004 Dynamics of Mechanical Systems 10 ENGR 2001 Automated Manufacturing 10 ELEC 2008 Microcontrollers and PLCs 10 ENGR 3030 Specialisation Workshop 2 10 Industrial Experience (Engineering Technologist) 0 Credit Points 40 <		Credit Points	40	
PROC 1008 Introduction to Materials Engineering 10 ELEC 1003 Electrical Fundamentals 10 Select one of the following: 10 MATH 1016 Mathematics for Engineers 1 MATH 1019 Mathematics for Engineers 2 Credit Points 40 Year 2 Autumn session MECH 2001 Kinematics and Kinetics of Machines 10 MECH 2003 Mechanics of Materials 10 ELEC 2001 Circuit Theory 10 ENGR 3029 Specialisation Workshop 1 10 Credit Points 40 Spring session MECH 3004 Dynamics of Mechanical Systems 10 ENGR 2001 Automated Manufacturing 10 ENGR 3030 Specialisation Workshop 2 10 Industrial Experience ENGR 2033 Industrial Experience (Engineering Technologist) 0 Vear 3 Autumn session 40 Vear 3 Autumn session 10 ENGR 3013 Engineering Science Project 1 10 MECH 3005 Mechanical Design </td <td>Spring session</td> <td></td> <td></td>	Spring session			
ELEC 1003 Electrical Fundamentals 10 Select one of the following: 10 MATH 1016 Mathematics for Engineers 1 MATH 1019 Mathematics for Engineers 2 Credit Points 40 Year 2 Autumn session MECH 2001 Kinematics and Kinetics of Machines 10 MECH 2003 Mechanics of Materials 10 ELEC 2001 Circuit Theory 10 ENGR 3029 Specialisation Workshop 1 10 Credit Points 40 Spring session MECH 3004 Dynamics of Mechanical Systems 10 ENGR 2001 Automated Manufacturing 10 ENGR 2001 Automated Manufacturing 10 ENGR 3030 Specialisation Workshop 2 10 Industrial Experience ENGR 2033 Industrial Experience (Engineering 0 ENGR 2033 Industrial Experience (Engineering 0 Credit Points 40 Year 3	ENGR 1018	Fundamentals of Mechanics	10	
ELEC 1003 Electrical Fundamentals 10 Select one of the following: 10 MATH 1016 Mathematics for Engineers 1 MATH 1019 Mathematics for Engineers 2 Credit Points 40 Year 2 Autumn session MECH 2001 Kinematics and Kinetics of Machines 10 MECH 2003 Mechanics of Materials 10 ELEC 2001 Circuit Theory 10 ENGR 3029 Specialisation Workshop 1 10 Credit Points 40 Spring session MECH 3004 Dynamics of Mechanical Systems 10 ENGR 2001 Automated Manufacturing 10 ENGR 2001 Automated Manufacturing 10 ENGR 3030 Specialisation Workshop 2 10 Industrial Experience ENGR 2033 Industrial Experience (Engineering 0 ENGR 2033 Industrial Experience (Engineering 0 Credit Points 40 Year 3	PROC 1008	Introduction to Materials Engineering	10	
MATH 1016 Mathematics for Engineers 1 MATH 1019 Mathematics for Engineers 2 Credit Points 40 Year 2 Autumn session Autumn Session MECH 2001 Kinematics and Kinetics of Machines 10 MECH 2003 Mechanics of Materials 10 ELEC 2001 Circuit Theory 10 ENGR 3029 Specialisation Workshop 1 10 ENGR 3029 Specialisation Workshop 1 10 Credit Points 40 Spring session MECH 3004 Dynamics of Mechanical Systems 10 ENGR 2001 Automated Manufacturing 10 ENGR 2001 Automated Manufacturing 10 ENGR 3030 Specialisation Workshop 2 10 Industrial Experience Engineering 0 ENGR 2033 Industrial Experience (Engineering 0 ENGR 3013 Engineering Science Project 1 10 MECH 3005 Mechanical Design 10 ENGR 2035 Modern Digital Design and Development 10<	ELEC 1003		10	
MATH 1016 Mathematics for Engineers 1 MATH 1019 Mathematics for Engineers 2 Credit Points 40 Year 2 Autumn session Autumn Session MECH 2001 Kinematics and Kinetics of Machines 10 MECH 2003 Mechanics of Materials 10 ELEC 2001 Circuit Theory 10 ENGR 3029 Specialisation Workshop 1 10 ENGR 3029 Specialisation Workshop 1 10 Credit Points 40 Spring session MECH 3004 Dynamics of Mechanical Systems 10 ENGR 2001 Automated Manufacturing 10 ENGR 2001 Automated Manufacturing 10 ENGR 3030 Specialisation Workshop 2 10 Industrial Experience Engineering 0 ENGR 2033 Industrial Experience (Engineering 0 ENGR 3013 Engineering Science Project 1 10 MECH 3005 Mechanical Design 10 ENGR 2035 Modern Digital Design and Development 10<	Select one of the fo	ollowing:	10	
MATH 1019 Mathematics for Engineers 2		•		
Credit Points 40 Year 2 Autumn session 10 MECH 2001 Kinematics and Kinetics of Machines 10 MECH 2003 Mechanics of Materials 10 ELEC 2001 Circuit Theory 10 ENGR 3029 Specialisation Workshop 1 10 Credit Points 40 Spring session MECH 3004 Dynamics of Mechanical Systems 10 ENGR 2001 Automated Manufacturing 10 ELEC 2008 Microcontrollers and PLCs 10 ENGR 3030 Specialisation Workshop 2 10 Industrial Experience ENGR 2033 Industrial Experience (Engineering 0 ENGR 2033 Industrial Experience (Engineering 40 Year 3 Autumn session ENGR 3013 Engineering Science Project 1 10 MECH 3005 Mechanical Design 10 ENGR 2035 Modern Digital Design and Development 10 Digital Manufacturing and IloT (not yet available) 10	MATH 1019	-		
Year 2 Autumn session MECH 2001 Kinematics and Kinetics of Machines 10 MECH 2003 Mechanics of Materials 10 ELEC 2001 Circuit Theory 10 ENGR 3029 Specialisation Workshop 1 10 Credit Points 40 Spring session MECH 3004 Dynamics of Mechanical Systems 10 ENGR 2001 Automated Manufacturing 10 ELEC 2008 Microcontrollers and PLCs 10 ENGR 3030 Specialisation Workshop 2 10 Industrial Experience ENGR 2033 Industrial Experience (Engineering 0 ENGR 2033 Industrial Experience (Engineering 0 Vear 3 Autumn session 40 ENGR 3013 Engineering Science Project 1 10 MECH 3005 Mechanical Design 10 ENGR 2035 Modern Digital Design and Development 10 Digital Manufacturing and IloT (not yet available) 10 Credit Points 40 Spring session ENGR 3014 Engin			40	
Autumn session MECH 2001 Kinematics and Kinetics of Machines 10 MECH 2003 Mechanics of Materials 10 ELEC 2001 Circuit Theory 10 ENGR 3029 Specialisation Workshop 1 10 Credit Points 40 Spring session MECH 3004 Dynamics of Mechanical Systems 10 ENGR 2001 Automated Manufacturing 10 ELEC 2008 Microcontrollers and PLCs 10 ENGR 3030 Specialisation Workshop 2 10 Industrial Experience ENGR 2033 Industrial Experience (Engineering 0 Technologist) Credit Points 40 Year 3 Autumn session ENGR 3013 Engineering Science Project 1 10 MECH 3005 Mechanical Design 10 ENGR 2035 Modern Digital Design and Development 10 Digital Manufacturing and IIoT (not yet available) 10 Credit Points 40 Spring session ENGR 3014 Engineering Science Project 2 10 Design for Advanced Manufacturing (not yet available) 10 Select two electives 20 • Elective must be Level 2 or higher	Year 2	3.54		
MECH 2001 Kinematics and Kinetics of Machines 10 MECH 2003 Mechanics of Materials 10 ELEC 2001 Circuit Theory 10 ENGR 3029 Specialisation Workshop 1 10 Credit Points 40 Spring session MECH 3004 Dynamics of Mechanical Systems 10 ENGR 2001 Automated Manufacturing 10 ELEC 2008 Microcontrollers and PLCs 10 ENGR 3030 Specialisation Workshop 2 10 Industrial Experience ENGR 3030 Specialisation Workshop 2 10 Industrial Experience Engineering Engineering (Engineering 0 0 Technologist) 40 Vear 3 Autumn session ENGR 3013 Engineering Science Project 1 10 MECH 3005 Mechanical Design 10 ENGR 2035 Modern Digital Design and Development 10 Digital Manufacturing and IIoT (not yet available) 10 Credit Points 40 <td co<="" td=""><td></td><td></td><td></td></td>	<td></td> <td></td> <td></td>			
MECH 2003 Mechanics of Materials 10 ELEC 2001 Circuit Theory 10 ENGR 3029 Specialisation Workshop 1 10 Credit Points 40 Spring session MECH 3004 Dynamics of Mechanical Systems 10 ENGR 2001 Automated Manufacturing 10 ENGR 2008 Microcontrollers and PLCs 10 ENGR 3030 Specialisation Workshop 2 10 Industrial Experience ENGR 2033 Industrial Experience (Engineering Technologist) 0 Credit Points 40 Year 3 Autumn session ENGR 3013 Engineering Science Project 1 10 MECH 3005 Mechanical Design 10 ENGR 2035 Modern Digital Design and Development 10 Digital Manufacturing and IloT (not yet available) 10 Credit Points 40 Spring session ENGR 3014 Engineering Science Project 2 10 Design for Advanced Manuf		Kinematics and Kinetics of Machines	10	
ELEC 2001 Circuit Theory 10 ENGR 3029 Specialisation Workshop 1 10 Credit Points 40 Spring session MECH 3004 Dynamics of Mechanical Systems 10 ENGR 2001 Automated Manufacturing 10 ELEC 2008 Microcontrollers and PLCs 10 ENGR 3030 Specialisation Workshop 2 10 Industrial Experience Engineering 0 Technologist) 0 Technologist) Credit Points 40 Year 3 Autumn session 10 ENGR 3013 Engineering Science Project 1 10 MECH 3005 Mechanical Design 10 ENGR 2035 Modern Digital Design and Development 10 Digital Manufacturing and IloT (not yet available) 10 Credit Points 40 Spring session Engineering Science Project 2 10 Design for Advanced Manufacturing (not yet available) 10 Select two electives 20 Elective must be Level 2 or higher				
ENGR 3029 Specialisation Workshop 1 10 Credit Points 40 Spring session MECH 3004 Dynamics of Mechanical Systems 10 ENGR 2001 Automated Manufacturing 10 ELEC 2008 Microcontrollers and PLCs 10 ENGR 3030 Specialisation Workshop 2 10 Industrial Experience ENGR 2033 Industrial Experience (Engineering 7 Technologist) Credit Points 40 Year 3 Autumn session ENGR 3013 Engineering Science Project 1 10 MECH 3005 Mechanical Design 10 ENGR 2035 Modern Digital Design and Development 10 Digital Manufacturing and IIoT (not yet available) 10 Credit Points 40 Spring session ENGR 3014 Engineering Science Project 2 10 Design for Advanced Manufacturing (not yet available) 10 Select two electives 20 • Elective must be Level 2 or higher Credit Points 40				
Credit Points 40 Spring session MECH 3004 Dynamics of Mechanical Systems 10 ENGR 2001 Automated Manufacturing 10 ELEC 2008 Microcontrollers and PLCs 10 ENGR 3030 Specialisation Workshop 2 10 Industrial Experience ENGR 2033 Industrial Experience (Engineering 7 Technologist) Credit Points 40 Year 3 Autumn session ENGR 3013 Engineering Science Project 1 10 MECH 3005 Mechanical Design 10 ENGR 2035 Modern Digital Design and Development 10 Digital Manufacturing and IloT (not yet available) 10 Credit Points 40 Spring session ENGR 3014 Engineering Science Project 2 10 Design for Advanced Manufacturing (not yet available) 10 Select two electives 20 • Elective must be Level 2 or higher Credit Points 40		•		
Spring session MECH 3004 Dynamics of Mechanical Systems 10 ENGR 2001 Automated Manufacturing 10 ELEC 2008 Microcontrollers and PLCs 10 ENGR 3030 Specialisation Workshop 2 10 Industrial Experience ENGR 2033 Industrial Experience (Engineering 7 Technologist) Credit Points 40 Year 3 Autumn session ENGR 3013 Engineering Science Project 1 10 MECH 3005 Mechanical Design 10 ENGR 2035 Modern Digital Design and Development 10 Digital Manufacturing and IIoT (not yet available) 10 Credit Points 40 Spring session ENGR 3014 Engineering Science Project 2 10 Design for Advanced Manufacturing (not yet available) 10 Select two electives 20 • Elective must be Level 2 or higher Credit Points 40	LINGIT 3029			
MECH 3004 Dynamics of Mechanical Systems 10 ENGR 2001 Automated Manufacturing 10 ELEC 2008 Microcontrollers and PLCs 10 ENGR 3030 Specialisation Workshop 2 10 Industrial Experience ENGR 2033 Industrial Experience (Engineering 7 Technologist) Credit Points 40 Year 3 Autumn session ENGR 3013 Engineering Science Project 1 10 MECH 3005 Mechanical Design 10 ENGR 2035 Modern Digital Design and Development 10 Digital Manufacturing and IIoT (not yet available) 10 Credit Points 40 Spring session ENGR 3014 Engineering Science Project 2 10 Design for Advanced Manufacturing (not yet available) 10 Select two electives 20 • Elective must be Level 2 or higher Credit Points 40	Spring coccion	Credit Foliits	40	
ENGR 2001 Automated Manufacturing 10 ELEC 2008 Microcontrollers and PLCs 10 ENGR 3030 Specialisation Workshop 2 10 Industrial Experience ENGR 2033 Industrial Experience (Engineering Technologist) Credit Points 40 Year 3 Autumn session ENGR 3013 Engineering Science Project 1 10 MECH 3005 Mechanical Design 10 ENGR 2035 Modern Digital Design and Development 10 Digital Manufacturing and IIoT (not yet available) 10 Credit Points 40 Spring session ENGR 3014 Engineering Science Project 2 10 Design for Advanced Manufacturing (not yet available) 10 Select two electives 20 • Elective must be Level 2 or higher Credit Points 40		Dynamics of Machanical Systems	10	
ELEC 2008 Microcontrollers and PLCs 10 ENGR 3030 Specialisation Workshop 2 10 Industrial Experience ENGR 2033 Industrial Experience (Engineering Technologist) Credit Points 40 Year 3 Autumn session ENGR 3013 Engineering Science Project 1 10 MECH 3005 Mechanical Design 10 ENGR 2035 Modern Digital Design and Development 10 Digital Manufacturing and IIoT (not yet available) 10 Credit Points 40 Spring session ENGR 3014 Engineering Science Project 2 10 Design for Advanced Manufacturing (not yet available) 10 Select two electives 20 • Elective must be Level 2 or higher Credit Points 40				
ENGR 3030 Specialisation Workshop 2 10 Industrial Experience ENGR 2033 Industrial Experience (Engineering Technologist) Credit Points 40 Year 3 Autumn session ENGR 3013 Engineering Science Project 1 10 MECH 3005 Mechanical Design 10 ENGR 2035 Modern Digital Design and Development 10 Digital Manufacturing and IIoT (not yet available) 10 Credit Points 40 Spring session ENGR 3014 Engineering Science Project 2 10 Design for Advanced Manufacturing (not yet available) 10 Select two electives 20 • Elective must be Level 2 or higher Credit Points 40		<u> </u>		
Industrial Experience ENGR 2033				
ENGR 2033 Industrial Experience (Engineering Technologist) Credit Points 40 Year 3 Autumn session ENGR 3013 Engineering Science Project 1 10 MECH 3005 Mechanical Design 10 ENGR 2035 Modern Digital Design and Development 10 Digital Manufacturing and IIoT (not yet available) 10 Credit Points 40 Spring session ENGR 3014 Engineering Science Project 2 10 Design for Advanced Manufacturing (not yet available) 10 Select two electives 20 • Elective must be Level 2 or higher Credit Points 40			10	
Technologist) Credit Points 40 Year 3 Autumn session ENGR 3013 Engineering Science Project 1 10 MECH 3005 Mechanical Design 10 ENGR 2035 Modern Digital Design and Development 10 Digital Manufacturing and IIoT (not yet available) 10 Credit Points 40 Spring session ENGR 3014 Engineering Science Project 2 10 Design for Advanced Manufacturing (not yet available) 10 Select two electives 20 • Elective must be Level 2 or higher Credit Points 40			0	
Credit Points 40 Year 3 Autumn session ENGR 3013 Engineering Science Project 1 10 MECH 3005 Mechanical Design 10 ENGR 2035 Modern Digital Design and Development 10 Digital Manufacturing and IIoT (not yet available) 10 Credit Points 40 Spring session ENGR 3014 Engineering Science Project 2 10 Design for Advanced Manufacturing (not yet available) 10 Select two electives 20 • Elective must be Level 2 or higher Credit Points 40	ENGR 2033		U	
Year 3 Autumn session ENGR 3013 Engineering Science Project 1 10 MECH 3005 Mechanical Design 10 ENGR 2035 Modern Digital Design and Development 10 Digital Manufacturing and IIoT (not yet available) 10 Credit Points 40 Spring session ENGR 3014 Engineering Science Project 2 10 Design for Advanced Manufacturing (not yet available) 10 Select two electives 20 • Elective must be Level 2 or higher Credit Points			40	
Autumn session ENGR 3013 Engineering Science Project 1 10 MECH 3005 Mechanical Design 10 ENGR 2035 Modern Digital Design and Development 10 Digital Manufacturing and IIoT (not yet available) 10 Credit Points 40 Spring session ENGR 3014 Engineering Science Project 2 10 Design for Advanced Manufacturing (not yet available) 10 Select two electives 20 • Elective must be Level 2 or higher Credit Points 40	Vear 3	orealt i onito	40	
ENGR 3013 Engineering Science Project 1 10 MECH 3005 Mechanical Design 10 ENGR 2035 Modern Digital Design and Development 10 Digital Manufacturing and IIoT (not yet available) 10 Credit Points 40 Spring session ENGR 3014 Engineering Science Project 2 10 Design for Advanced Manufacturing (not yet available) 10 Select two electives 20 • Elective must be Level 2 or higher Credit Points 40				
MECH 3005 Mechanical Design 10 ENGR 2035 Modern Digital Design and Development 10 Digital Manufacturing and IIoT (not yet available) 10 Credit Points 40 Spring session ENGR 3014 Engineering Science Project 2 10 Design for Advanced Manufacturing (not yet available) 10 Select two electives 20 • Elective must be Level 2 or higher Credit Points 40		Engineering Science Project 1	10	
ENGR 2035 Modern Digital Design and Development 10 Digital Manufacturing and IIoT (not yet available) 10 Credit Points 40 Spring session ENGR 3014 Engineering Science Project 2 10 Design for Advanced Manufacturing (not yet available) 10 Select two electives 20 • Elective must be Level 2 or higher Credit Points 40				
Digital Manufacturing and IIoT (not yet available) Credit Points 40 Spring session ENGR 3014 Engineering Science Project 2 10 Design for Advanced Manufacturing (not yet available) 10 Select two electives 20 • Elective must be Level 2 or higher Credit Points 40		-		
Credit Points 40 Spring session ENGR 3014 Engineering Science Project 2 10 Design for Advanced Manufacturing (not yet available) 10 Select two electives 20 • Elective must be Level 2 or higher Credit Points 40				
Spring session ENGR 3014 Engineering Science Project 2 10 Design for Advanced Manufacturing (not yet available) 10 Select two electives 20 • Elective must be Level 2 or higher Credit Points 40	Digital Manufactur	· · · · · · · · · · · · · · · · · · ·		
ENGR 3014 Engineering Science Project 2 10 Design for Advanced Manufacturing (not yet available) 10 Select two electives 20 • Elective must be Level 2 or higher Credit Points 40	Spring session	Great Fullits	40	
Design for Advanced Manufacturing (not yet available) Select two electives Elective must be Level 2 or higher Credit Points 40		Engineering Science Project 2	10	
Select two electives 20 • Elective must be Level 2 or higher Credit Points 40		• • •		
Elective must be Level 2 or higher Credit Points 40	_			
Credit Points 40			20	
	• Elective must b	e Levei Z or nigner		
Total Credit Points 240		Credit Points	40	
		Total Credit Points	240	

Mid-year intake

miu-yeai iiitai	Ke .	
Course	Title	Credit Points
Year 1		i onito
Spring session		
ENGR 1018	Fundamentals of Mechanics	10
PROC 1008	Introduction to Materials Engineering	10
ELEC 1003	Electrical Fundamentals	10
Select one of the f	following:	10
MATH 1021	Mathematics for Engineers Preliminary	
MATH 1016	Mathematics for Engineers 1	
	Credit Points	40
Autumn session		
ELEC 1006	Engineering Computing	10
ENGR 1011	Engineering Physics	10
ENGR 1024	Introduction to Engineering Practice	10
Select one of the f		10
MATH 1016	Mathematics for Engineers 1	
MATH 1019	Mathematics for Engineers 2	
	Credit Points	40
Year 2	orealt i emite	
Spring session		
ENGR 3029	Specialisation Workshop 1	10
ENGR 2001	Automated Manufacturing	10
ELEC 2008	Microcontrollers and PLCs	10
	e (Level 2 or higher)	10
	Credit Points	40
Autumn session		
MECH 2001	Kinematics and Kinetics of Machines	10
MECH 2003	Mechanics of Materials	10
ELEC 2001	Circuit Theory	10
ENGR 3030	Specialisation Workshop 2	10
Industrial Experies		
ENGR 2033	Industrial Experience (Engineering	0
2.1011 2000	Technologist)	Ü
	Credit Points	40
Year 3		
Spring session		
ENGR 3013	Engineering Science Project 1	10
MECH 3004	Dynamics of Mechanical Systems	10
Design for Advance	ced Manufacturing (not yet available)	10
	e (Level 2 or higher)	10
	Credit Points	40
Autumn session		.5
ENGR 3014	Engineering Science Project 2	10
MECH 3005	Mechanical Design	10
ENGR 2035	Modern Digital Design and Development	10
	ring and IIoT (not yet available)	10
	Credit Points	40
	Total Credit Points	240

Related Programs

Bachelor of Engineering (Honours)/Bachelor of Business (3728) (https://hbook.westernsydney.edu.au/programs/bachelor-engineering-honours-bachelor-business/)

Bachelor of Engineering (Honours) (3740) (https://hbook.westernsydney.edu.au/programs/bachelor-engineering-honours/)

Bachelor of Engineering Advanced (Honours) (3771) (https://hbook.westernsydney.edu.au/programs/bachelor-engineering-advanced-honours/)

Bachelor of Engineering Science (3691) (https://hbook.westernsydney.edu.au/programs/bachelor-engineering-science/)