Design and Manufacturing

MANU 2001

10

ROBOTICS AND MECHATRONICS ENGINEERING, TESTAMUR MAJOR (T104)

Western Sydney University Major Code: T104

Previous Code: KT3174.1, MT3055

Available to students in other Western Sydney University programs?

No

Robotics and Mechatronic engineering combines electrical, computing and mechanical engineering and is at the forefront in designing smart machines and systems, such as pilotless spacecraft, car cruise control, automated factories and medical telerobotics. Students explore intelligent mechanical systems and automation through an extensive and integrated hands-on laboratory program, as well as work-integrated industry projects. Students learn in-depth knowledge about the design and construction of these systems to integrate, evaluate and address their performance. The multidisciplinary skills students develop are sought after by leading edge industries, including aerospace and biomedical engineering. This major includes a mandatory 12 weeks of industrial placement as a completion requirement.

Location

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

Major Structure Bachelor of Engineering Advanced (Honours)

This Major will be offered at Engineering Innovation Hub which is part of Parramatta City campus.

Qualification for this award requires the successful completion of 320 credit points which include the subjects listed 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
ENGR 1045	Engineering Programming Fundamentals	10
	Credit Points	40
Spring session		
ELEC 1009	Electrical Circuit Fundamentals	10
MATH 1035	Mathematics for Engineers 2 (Advanced)	10
ENGR 1018	Fundamentals of Mechanics	10

	Credit Points	40
Year 2		
Autumn session		
ENGR 2027	Engineering Design	10
MECH 2003	Mechanics of Materials	10
MECH 2001	Kinematics and Kinetics of Machines	10
ELEC 1001	Digital Systems 1	10
	Credit Points	40
Spring session		
MECH 2005	Mathematics for Mechanical and	10
	Mechatronic Engineers	
ELEC 2009	Microprocessor Systems	10
MECH 3004	Dynamics of Mechanical Systems	10
ELEC 2008	Microcontrollers and PLCs	10
of completion of 16 of 200 Credit points	o maintain a minimum GPA of 5.0 at the end 60 Credit Points, and again at the completion s will be automatically transferred to the B. urs) (3740) program.	
	Credit Points	40
Year 3		
Autumn session		
MECH 3001	Advanced Dynamics	10
MECH 3005	Mechanical Design	10
Select one Alternat	e Subject	10
Select one elective		10
	Credit Points	40
lu.Spring session		
MECH 4003	Mobile Robotics	10
luMECH 3006	Mechatronic Design	10
ELEC 3008	Instrumentation and Measurement	10
From Spring 2022	ELEC 3008 is replaced with ELEC 4009	
luInstrumentation ar	nd Measurement	
Select one Alternat	e Subject	10
Industrial Experien	ce	
ENGR 3017	Industrial Experience (Engineering)	0
	Credit Points	40
Year 4		
Autumn session		
MECH 4004	Robotics	10
ENGR 4037	Advanced Engineering Thesis 1: Preliminary Investigations	10
Select one Alternat	e subject	10
Select one elective		10
	Credit Points	40
Spring session		
ENGR 4036	Advanced Engineering Thesis 2: Detailed Investigations	10
Select one Alternat	-	10
Select two elective	•	20
	Credit Points	40
	Total Credit Points	320
	iotal ofeatt i offits	320

Alternate Subjects

Subject	Title	Credit Points
HLTH 2003	Biomechanics	10
ENGR 3003	Biomedical Electronics	10
ENGR 3004	Biomedical Signals and Data Analysis	10
MECH 4001	Computational Fluid Dynamics	10
MECH 4002	Computer Aided Engineering	10
ELEC 2007	Engineering Visualization	10
ENGR 2025	Design Graphics: Engineering Documentation	10
ENGR 2024	Design Graphics: Communication for Manufacture	10
CIVL 2003	Fluid Mechanics	10
BIOS 1022	Introduction to Human Biology	10
MECH 3007	Thermal and Fluid Engineering	10
MECH 3008	Thermodynamics and Heat Transfer	10

Minors

SM3093 Computer Aided Design (Mechatronics)

SM3074 Thermal and Fluid Systems

SM3091 Biomedical Engineering

Optional Electives

The following subject is an optional elective subject offered to students who are engaged in a School approved project. This subject can be taken during the third year of this program, however, permission is required to enrol in the subject.

Subject	Title	Credit
		Points
ENGR 3022	Special Technical Project	10

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

Replaced Subjects

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

ELEC 3008 Instrumentation and Measurement, replaced by ELEC 4009 Instrumentation and Measurement

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 1009	Electrical Circuit Fundamentals	10
MANU 2001	Design and Manufacturing	10
	Credit Points	40

Autumn session		
MATH 1035	Mathematics for Engineers 2 (Advanced)	10
ELEC 1001	Digital Systems 1	10
ENGR 1047	Advanced Engineering Physics 1	10
ENGR 1045	Engineering Programming Fundamentals	10
	Credit Points	40
Year 2		
Spring session		
MECH 2005	Mathematics for Mechanical and Mechatronic Engineers	10
ELEC 2009	Microprocessor Systems	10
ELEC 2008	Microcontrollers and PLCs	10
One alternate subject	t	10
	Credit Points	40
Autumn session		
ENGR 2027	Engineering Design	10
MECH 2003	Mechanics of Materials	10
ENGR 1024	Introduction to Engineering Practice	10
MECH 2001	Kinematics and Kinetics of Machines	10
Students who fail to	maintain a minimum GPA of 5.0 at the end	
•	Credit Points, and again at the completion will be automatically transferred to the B.	
Engineering (Honour	s) (3740) program.	
	Credit Points	40
Year 3		
Spring session		
MECH 4003	Mobile Robotics	10
MECH 3006	Mechatronic Design	10
ELEC 3008	Instrumentation and Measurement	10
From Spring 2022 EL Instrumentation and	EC 3008 is replaced with ELEC 4009 Measurement	
One alternate subjec	t	10
	Credit Points	40
Autumn session		
MECH 3001	Advanced Dynamics	10
MECH 3005	Mechanical Design	10
Select one elective		10
One alternate subjec	t	10
Industrial Experience	2	
ENGR 3017	Industrial Experience (Engineering)	0
	Credit Points	40
Year 4		
Spring session		
ENGR 4037	Advanced Engineering Thesis 1:	10
	Preliminary Investigations	
MECH 3004		10
MECH 3004 Select two electives	Preliminary Investigations	10 20
	Preliminary Investigations	
	Preliminary Investigations Dynamics of Mechanical Systems	20
Select two electives	Preliminary Investigations Dynamics of Mechanical Systems	20

Investigations

Credit Points

Total Credit Points

10 10

10

40

320

Robotics

MECH 4004

Select one elective

One alternate subject

Alternate Subjects

Subject	Title	Credit Points
HLTH 2003	Biomechanics	10
ENGR 3003	Biomedical Electronics	10
ENGR 3004	Biomedical Signals and Data Analysis	10
MECH 4001	Computational Fluid Dynamics	10
MECH 4002	Computer Aided Engineering	10
ELEC 2007	Engineering Visualization	10
ENGR 2025	Design Graphics: Engineering Documentation	10
ENGR 2024	Design Graphics: Communication for Manufacture	10
CIVL 2003	Fluid Mechanics	10
BIOS 1022	Introduction to Human Biology	10
MECH 3007	Thermal and Fluid Engineering	10
MECH 3008	Thermodynamics and Heat Transfer	10

Minors

SM3093 Computer Aided Design (Mechatronics)

SM3074 Thermal and Fluid Systems

SM3091 Biomedical Engineering

Optional Electives

The following subject is an optional elective subject offered to students who are engaged in a School approved project. This subject can be taken during the third year of this program, however, permission is required to enrol in the subject.

Subject	Title	Credit Points
ENGR 3022	Special Technical Project	10

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**

Replaced Subjects

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

ELEC 3008 Instrumentation and Measurement, replaced by ELEC 4009 Instrumentation and Measurement

Bachelor of Engineering Science

This Major will be offered at Parramatta City and Penrith campuses.

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

Start-year intake

Course	Title	Credit Points
Year 1		
Autumn session		
ELEC 1006	Engineering Computing	10
ENGR 1011	Engineering Physics	10
ENGR 1024	Introduction to Engineering Practice	10
Select one of the fol	lowing:	10
MATH 1021	Mathematics for Engineers Preliminary	
MATH 1016	Mathematics for Engineers 1	
Note: All students a	re required to enrol in MATH 1021	

Mathematics for Engineers Preliminary first and undertake a readiness test at the beginning of their study.

This test will be conducted at the beginning of the first semester of enrolment and the result will 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.

The students who finish MATH 1021 Mathematics for Engineers Preliminary will then use this unit as an elective.

	Credit Points	40
Spring session		
ENGR 1018	Fundamentals of Mechanics	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	
Select one elective		10

Note: Students who remained in MATH 1021 Mathematics for Engineers Preliminary during the first semester will be required to complete MATH 1016 Mathematics for Engineers 1 during second semester.

These students must then complete MATH 1019 Mathematics			
for Engineers 2 du	ring the Summer session.		
	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 Experien	nce		
ENGR 2033	Industrial Experience (Engineering Technologist)	0	
	Credit Points	40	
Year 3			
Autumn session			
MECH 3005	Mechanical Design	10	
MECH 3001	Advanced Dynamics	10	

Engineering Science Project 1

10

ENGR 3013

ELEC 1001	Digital Systems 1	10
	Credit Points	40
Spring session		
MECH 4003	Mobile Robotics	10
ENGR 3014	Engineering Science Project 2	10
ELEC 2010	Power and Machines	10
Select one electi	ive	10
Note: Elective ur	nits must be level 2 or higher	
	Credit Points	40
	Total Credit Points	240

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

Mid-year intake

Course	Title	Credit Points
Year 1		
Spring session		
Select one of the fo	ollowing:	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	
ELEC 1006	Engineering Computing	10
ENGR 1011	Engineering Physics	10
Select one elective		10
Elective unit me	ust be Level 1 or higher	
	Credit Points	40
Year 2		
Spring session		
ENGR 2001	Automated Manufacturing	10
ELEC 2008	Microcontrollers and PLCs	10
ENGR 3029	Specialisation Workshop 1	10
Select one elective		10
Elective unit mi	ust be Level 2 or higher	
	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 Experien	ce	
ENGR 2033	Industrial Experience (Engineering Technologist)	0
	Credit Points	40

Year 3		
Spring session		
MECH 4003	Mobile Robotics	10
ENGR 3014	Engineering Science Project 2	10
ELEC 2010	Power and Machines	10
MECH 3004	Dynamics of Mechanical Systems	10
	Credit Points	40
Autumn session		
MECH 3005	Mechanical Design	10
MECH 3001	Advanced Dynamics	10
ENGR 3013	Engineering Science Project 1	10
ELEC 1001	Digital Systems 1	10
	Credit Points	40
	Total Credit Points	240

Bachelor of Engineering (Honours)/ Bachelor of Business

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

Start-year intake

Course	Title	Credit Points
Year 1		
Autumn session		
MATH 1016	Mathematics for Engineers 1	10
ENGR 1011	Engineering Physics	10
BBus core unit 1		10
BBus core unit 2		10
	Credit Points	40
Spring session		
MATH 1019	Mathematics for Engineers 2	10
PROC 1008	Introduction to Materials Engineering	10
BBus core unit 3		10
BBus core unit 4		10
	Credit Points	40
Year 2		
Autumn session		
ELEC 1006	Engineering Computing	10
BBus Professional Su	ubject 1	10
BBus Professional Su	ubject 2	10
BBus Major Subject 1	1	10
	Credit Points	40
Spring session		
ELEC 1003	Electrical Fundamentals	10
ENGR 1018	Fundamentals of Mechanics	10
BBus Major Subject 2	2	10
BBus Major Subject 3	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

ELEC 1001	Digital Systems 1	10
	Credit Points	40
Spring session		
MECH 3004	Dynamics of Mechanical Systems	10
ENGR 2001	Automated Manufacturing	10
ELEC 2010	Power and Machines	10
ELEC 2008	Microcontrollers and PLCs	10
	Credit Points	40
Year 4		
Autumn session		
MECH 3005	Mechanical Design	10
MECH 3001	Advanced Dynamics	10
ELEC 2004	Electronics	10
BBus Major Subje	ct 4	10
	Credit Points	40
Spring session		
MECH 4003	Mobile Robotics	10
BBus Major Subje	ct 5	10
BBus Major Subje	ct 6	10
BBus Major Subje	ct 7	10
Industrial Experien	nce	
ENGR 3017	Industrial Experience (Engineering)	0
	Credit Points	40
Year 5		
Autumn session		
MECH 4004	Robotics	10
ENGR 4025	Final Year Project 1 (UG Engineering)	10
Business Professi	ional Subject 3	10
Business Major Si	ubject 8	10
	Credit Points	40
Spring session		
ENGR 4026	Final Year Project 2 (UG Engineering)	10
ELEC 3008	Instrumentation and Measurement	10
	ELEC 3008 is replaced with ELEC 4009	
Instrumentation a		
MECH 3006	Mechatronic Design	10
Business Professi	•	10
	Credit Points	40
	Total Credit Points	400

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

Replaced Subjects

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

ELEC 3008 Instrumentation and Measurement, replaced by ELEC 4009 Instrumentation and Measurement

Mid-year intake

imu-year iiitake		
Course	Title	Credit Points
Year 1		Folities
Spring session		
MATH 1016	Mathematics for Engineers 1	10
PROC 1008	Introduction to Materials Engineering	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 3		10
BBus Core Subject 4		10
	Credit Points	40
Year 2		
Spring session		
ELEC 1003	Electrical Fundamentals	10
ENGR 1018	Fundamentals of Mechanics	10
BBus Major Subject	1	10
BBus Major Subject	2	10
	Credit Points	40
Autumn session		
ELEC 1006	Engineering Computing	10
BBus Professional S	ubject 1	10
BBus Professional S	ubject 2	10
BBus Major Subject	3	10
	Credit Points	40
Year 3		
Spring session		
MECH 3004	Dynamics of Mechanical Systems	10
ENGR 2001	Automated Manufacturing	10
ELEC 2010	Power and Machines	10
ELEC 2008	Microcontrollers and PLCs	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
ELEC 1001	Digital Systems 1	10
	Credit Points	40
Year 4		
Spring session		
MECH 4003	Mobile Robotics	10
BBus Major Subject	4	10
BBus Major Subject	5	10
BBus Major Subject	6	10
	Credit Points	40
Autumn session		
MECH 3005	Mechanical Design	10
MECH 3001	Advanced Dynamics	10
ELEC 2004	Electronics	10
BBus Major Subject	7	10
Industrial Experience	e	

ENGR 3017	Industrial Experience (Engineering)	0
	Credit Points	40
Year 5		
Spring session		
ENGR 4025	Final Year Project 1 (UG Engineering)	10
ELEC 3008	Instrumentation and Measurement	10
	2 ELEC 3008 is replaced with ELEC 4009 and Measurement	
MECH 3006	Mechatronic Design	10
Business Profes	sional Subject 3	10
	Credit Points	40
Autumn session		
ENGR 4026	Final Year Project 2 (UG Engineering)	10
MECH 4004	Robotics	10
Business Professional Subject 4		10
Business Major Subject 8		10
	Credit Points	40
	Total Credit Points	400

Bachelor of Engineering (Honours)

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

Start-year intake

Course	Title	Credit Points
Year 1		
Autumn session		
Select one of the fo	ollowing:	10
MATH 1021	Mathematics for Engineers Preliminary	
MATH 1016	Mathematics for Engineers 1	
ELEC 1006	Engineering Computing	10
ENGR 1011	Engineering Physics	10
ENGR 1024	Introduction to Engineering Practice	10
	Credit Points	40
Spring session		
Select one of the fo	ollowing:	10
MATH 1016	Mathematics for Engineers 1	
MATH 1019	Mathematics for Engineers 2	
ENGR 1018	Fundamentals of Mechanics	10
ELEC 1003	Electrical Fundamentals	10
Select one elective		10
Elective unit m	ust be Level 1 or higher	
	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
ELEC 1001	Digital Systems 1	10
	Credit Points	40
Spring session		
MECH 3004	Dynamics of Mechanical Systems	10
ENGR 2001	Automated Manufacturing	10
ELEC 2010	Power and Machines	10

Vear 3	EL EO 0000	Missassantos II ano en d DI Os	10
Year 3 Autumn session MECH 3005 Mechanical Design 10 MECH 3001 Advanced Dynamics 10 LEC 2004 Electronics 10 MECH 4003 Mobile Robotics 10 MECH 3006 Mechatronic Design 10 One alternate subject 10 Select one elective 10 One alternate subject 10 • Elective unit must be Level 2 or higher 10 Industrial Experience ENGR 3017 Industrial Experience (Engineering) 0 Credit Points 40 Year 4 Autumn session MECH 4004 Robotics 10 ENGR 4025 Final Year Project 1 (UG Engineering) 10 One alternate subject 10 Select one elective 10 • Elective unit must be Level 2 or higher 10 ENGR 4026 Final Year Project 2 (UG Engineering) 10 One alternate subject 10 Select one elective 10 • Elective unit must be Level 2 or higher	ELEC 2008	Microcontrollers and PLCs	10
Autumn session MECH 3005 Mechanical Design 10 MECH 3001 Advanced Dynamics 10 ELEC 2004 Electronics 10 MECH 4003 Mobile Robotics 10 MECH 3006 Mechatronic Design 10 One alternate subject 10 Select one elective 10 One alternate subject 10 Elective unit must be Level 2 or higher Industrial Experience ENGR 3017 Industrial Experience (Engineering) 0 ENGR 3017 Industrial Experience (Engineering) 0 0 Wear 4 Autumn session 40 MECH 4004 Robotics 10 10 ENGR 4025 Final Year Project 1 (UG Engineering) 10 10 One alternate subject 10 20 10 10 Spring session Credit Points 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40	V0	Credit Points	40
MECH 3005 Mechanical Design 10 MECH 3001 Advanced Dynamics 10 ELEC 2004 Electronics 10 MECH 4003 Mobile Robotics 10 MECH 4003 Mobile Robotics 10 Spring session MECH 3006 Mechatronic Design 10 One alternate subject 10 One alternate subject 10 One alternate subject 10 Industrial Experience ENGR 3017 ENGR 3017 Industrial Experience (Engineering) 0 Credit Points 40 Year 4 Autumn session MECH 4004 Robotics 10 ENGR 4025 Final Year Project 1 (UG Engineering) 10 One alternate subject 10 • Elective unit must be Level 2 or higher 10 Credit Points 40 Spring session MECH 4002 Computer Aided Engineering 10 One alternate subject 10 Sele			
MECH 3001 Advanced Dynamics 10 ELEC 2004 Electronics 10 MECH 4003 Mobile Robotics 10 Credit Points 40 Spring session MECH 3006 Mechatronic Design 10 One alternate subject 10 One alternate subject 10 Celect one elective 10 Industrial Experience ENGR 3017 Industrial Experience (Engineering) 0 Credit Points 40 Year 4 Autumn session MECH 4004 Robotics 10 ENGR 4025 Final Year Project 1 (UG Engineering) 10 One alternate subject 10 Credit Points 40 Spring session MECH 4002 Computer Aided Engineering 10 ENGR 4026 Final Year Project 2 (UG Engineering) 10 One alternate subject 10 Select one elective 10 • Elective unit must be Leve		Machanical Design	10
ELEC 2004 Electronics			
MECH 4003 Mobile Robotics 10 Credit Points 40 Spring session Mechatronic Design 10 MECH 3006 Mechatronic Design 10 One alternate subject 10 One alternate subject 10 Industrial Experience Ender on this part of the following: ENGR 3017 Industrial Experience (Engineering) 0 ENGR 3017 Industrial Experience (Engineering) 0 Vear 4 Autumn session 40 MECH 4004 Robotics 10 ENGR 4025 Final Year Project 1 (UG Engineering) 10 One alternate subject 10 Spring session 40 Spring session 40 Elective unit must be Level 2 or higher 10 Elective unit must be Level 2 or higher 10 Credit Points 40 Total Credit Points 40 Total Credit Points 40 Total Credit Points 40 Total Credit Points 320 Mid-year intake 40 <		•	
Credit Points 40 Spring session MECH 3006 Mechatronic Design 10 One alternate subject 10 One alternate subject 10 Select one elective 10 One alternate subject 10 Industrial Experience ENGR 3017 Industrial Experience (Engineering) 0 Credit Points 40 Year 4 Autumn session MECH 4004 Robotics 10 ENGR 4025 Final Year Project 1 (UG Engineering) 10 One alternate subject 10 Select one elective 10 Elective unit must be Level 2 or higher Credit Points 40 Spring session MECH 4002 Computer Aided Engineering 10 ENGR 4026 Final Year Project 2 (UG Engineering) 10 One alternate subject 10 Select one elective 10 Elective unit must be Level 2 or higher Credit Points 40 Spring session 10 ENGR 4026 Final Year Project 2 (UG Engineering) 10 One alternate subject 10 Mid-year intake 10 Credit Points 40 Total Credit Points 320 Mid-year intake 10 Mid-year intake 10 Credit Points 10 MATH 1021 Mathematics for Engineers Preliminary MATH 1016 Mathematics for Engineers 1 ENGR 1038 Introduction to Materials Engineering 10 ENGR 1024 Introduction to Materials Engineering 10 ENGR 1024 Introduction to Engineering Practice 10 Credit Points 40 Autumn session Select one of the following: 10 MATH 1016 Mathematics for Engineers 1 ENGR 1018 Fundamentals of Mechanics 10 ENGR 1024 Introduction to Engineering Practice 10 Credit Points 40 Autumn session 10 ENGR 1011 Engineering Computing 10 ENGR 1011 Engineering Physics 10			
Spring session MECH 3006 Mechatronic Design 10 One alternate subject 10 Select one elective 10 One alternate subject 10 · Elective unit must be Level 2 or higher Industrial Experience ENGR 3017 Industrial Experience (Engineering) 0 Credit Points 40 Autumn session MECH 4004 Robotics 10 ENGR 4025 Final Year Project 1 (UG Engineering) 10 One alternate subject 10 Select one elective 10 · Elective unit must be Level 2 or higher Credit Points 40 Spring session MECH 4002 Computer Aided Engineering 10 ENGR 4026 Final Year Project 2 (UG Engineering) 10 One alternate subject 10 Select one elective 10 · Elective unit must be Level 2 or higher Credit Points 40 Spring session MECH 4002 Computer Aided Engineering 10 ENGR 4026 Final Year Project 2 (UG Engineering) 10 One alternate subject 10 Select one elective 10 · Elective unit must be Level 2 or higher Credit Points 40 Mid-year intake Course Title Credit Points 320 Mid-year intake Course Title Credit Points 10 MATH 1021 Mathematics for Engineers Preliminary MATH 1021 Mathematics for Engineers 1 ENGR 1018 Fundamentals of Mechanics 10 PROC 1008 Introduction to Materials Engineering 10 ENGR 1024 Introduction to Engineering Practice 10 Credit Points 40 Autumn session Select one of the following: 10 MATH 1016 Mathematics for Engineering Practice 10 Credit Points 40 Autumn session Select one of the following: 10 MATH 1016 Mathematics for Engineering Practice 10 Credit Points 40 Autumn session ELEC 1006 Engineering Computing 10 ENGR 1011 Engineering Physics 10	MECH 4003		
MECH 3006 Mechatronic Design 10 One alternate subject 10 Select one elective 10 One alternate subject 10 • Elective unit must be Level 2 or higher Industrial Experience ENGR 3017 Industrial Experience (Engineering) 0 Credit Points 40 404 404 Robotics 10 ENGR 4025 Final Year Project 1 (UG Engineering) 10 One alternate subject 10 Select one elective 10 • Elective unit must be Level 2 or higher 10 Credit Points 40 Spring session 40 MECH 4002 Computer Aided Engineering 10 One alternate subject 10 Select one elective 10 • Elective unit must be Level 2 or higher 10 Credit Points 40 • Elective unit must be Level 2 or higher 10 • Elective unit must be Level 2 or higher 10 • Credit Points 40 Mid-year intake 10<	Oi	Credit Points	40
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3 3 ,			10
	Select one elective	* * *	10

Elective unit m	nust be Level 1 or higher	
	Credit Points	40
Year 2		
Spring session		
ENGR 2001	Automated Manufacturing	10
ELEC 2008	Microcontrollers and PLCs	10
One alternate subj		10
Select one elective		10
Elective unit m	nust be Level 2 or higher	
	Credit Points	40
Autumn session		
MECH 2001	Kinematics and Kinetics of Machines	10
MECH 2003	Mechanics of Materials	10
ELEC 2001	Circuit Theory	10
ELEC 1001	Digital Systems 1	10
	Credit Points	40
Year 3		
Spring session		
MECH 3006	Mechatronic Design	10
MECH 3004	Dynamics of Mechanical Systems	10
ELEC 2010	Power and Machines	10
One alternate subj	ect	10
	Credit Points	40
Autumn session		
MECH 3005	Mechanical Design	10
MECH 3001	Advanced Dynamics	10
ELEC 2004	Electronics	10
MECH 4003	Mobile Robotics	10
Industrial Experier	nce	
ENGR 3017	Industrial Experience (Engineering)	0
	Credit Points	40
Year 4	orear romes	40
Spring session		
MECH 4002	Computer Aided Engineering	10
ENGR 4026		10
	Final Year Project 2 (UG Engineering)	10
One alternate subj		
		10
• Elective unit if	nust be Level 2 or higher	
	Credit Points	40
Autumn session		
MECH 4004	Robotics	10
ENGR 4025	Final Year Project 1 (UG Engineering)	10
One alternate subj	ect	10
Select one elective	<u> </u>	10
Elective unit m	nust be Level 2 or higher	
	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 Autumn 2022 or earlier.

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

Related Programs

Bachelor of Engineering Advanced (Honours) (3771) (https://hbook.westernsydney.edu.au/archives/2022-2023/programs/bachelorengineering-advanced-honours/)

Bachelor of Engineering Science (3691) (https://hbook.westernsydney.edu.au/archives/2022-2023/programs/bachelorengineering-science/)