



Study Abroad and Exchange

Study Abroad and Exchange students may choose subjects from more than one faculty at UTS.

This guide highlights our most popular Engineering subjects. You can also search for other subjects and majors using the <u>UTS Handbook</u> and <u>UTS Engineering website</u>.

Subjects offered in other faculties may carry different credit point values. Be mindful of this when choosing your subjects. Final enrolment into subjects is conditional upon class availabilities and completion of the online enrolment process.

#### When can I study?

Study Abroad and Exchange is available:

Period	Category
February – June	<b>A</b> : Autumn Session

Period	Category
July – November	<b>S</b> : Spring Session

**Please note:** Some of the subjects you want to undertake from the list may not be available in your intake session. To confirm subject availability, please search the relevant subject codes in the <u>UTS Timetable Planner</u>.

In the Timetable Planner, "AUT" refers to Autumn Session, and "SPR" refers to Spring session.

#### What can I study?

#### **Pre-approved subject list**

This is a great place to start! All subjects in this list are:

- **Pre-approved** and automatically added in your study plan
- You can **self-enrol** once you activate your student account
- No need to include them in your application
- No additional subject assessments required
- You can even choose subjects outside your study area, as long as it's permitted by your home university

#### Faculty assessed subjects

All subjects from this list require prior knowledge. You will need to:

- List the subjects in your application
- Check prerequisites in the <u>UTS Handbook</u>
- Demonstrate that you have the prior skills and knowledge necessary to undertake the subject (academic transcript and subject outline)

**Note:** Each subject will be individually assessed by the faculty for approval, which can take up to 6 weeks.



# Faculty assessed subjects

**Key:** (Information included: Subject Number, Subject Name, Level and Session offered)

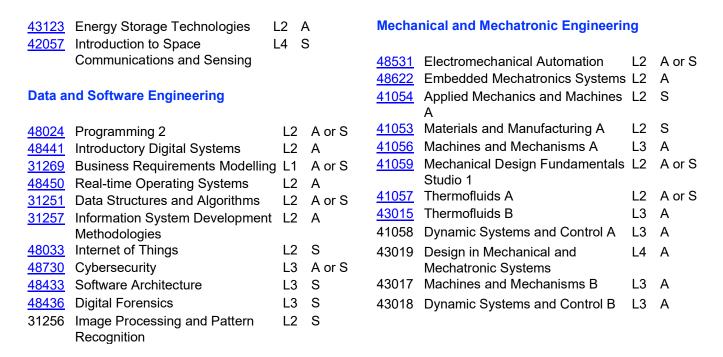
- **L1** (Level 1) usually undertaken in first year (similar to 100 level, introductory level)
- **L2** (Level 2) usually undertaken in second year (similar to 200 level, prior knowledge is required)
- L3 (Level 3) usually undertaken in third year (similar to 300 level, advanced level)
- L4 (Level 4) Usually undertaken in fourth year (similar to 400 level, advanced level)

## **Undergraduate subjects**

- Students with no prior Communication background should start with the <u>pre-approved subject list</u>.
- Undergraduate students are not permitted to study postgraduate subjects.
- All subjects have prerequisites.

Engineering core subjects			48641	Fluid Mechanics		A or S
41200 Engineering Project Appraisal	L2	A or S	<u>48350</u>	Environmental and Sanitation Engineering	L3	A or S
41201 Designing Sustainable	L3	A or S	<u>48362</u>	Hydraulics and Hydrology	L3	A or S
Engineering Projects			<u>48370</u>	Road and Transport Engineering	L3	A or S
44000 Duefersierel Freinersiere		A == 0	<u>48360</u>	Geotechnical Engineering	L3	A or S
41202 Professional Engineering Communication	L3	A or S	<u>48353</u>	Concrete Design	L3	A or S
48210 Interrogating Technology:	L3	Α	<u>48860</u>	Pollution Control and Waste Management	L3	Α
Sustainability, Environment and			48366	Steel and Timber Design	L4	A or S
Social Change  48260 Engineering Project	L3	Α	48389	Computer Modelling and Design	L4	A or S
Management	LJ	A	48881	Water and Environmental Design		S
41203 Collaboration in Complex	L4	A or S	48371	Advanced Engineering	L4	S
Projects				Computing		
48270 Entrepreneurship and	L4	A or S				
Commercialisation			Electri	cal Engineering		
Biomedical Engineering			48510	Introduction to Electrical and	L1	A or S
Biomedical Engineering			<u>48510</u>	Introduction to Electrical and Electronic Engineering	L1	A or S
Biomedical Engineering  41160 Introduction to Biomedical	L1	A or S	<u>48510</u> <u>48530</u>			A or S A or S
	L1	A or S		Electronic Engineering		
41160 Introduction to Biomedical Engineering	L1	A or S	48530	Electronic Engineering Circuit Analysis and Design	L2	A or S
41160 Introduction to Biomedical	L1	A or S	48530 48531	Electronic Engineering Circuit Analysis and Design Electromechanical Automation	L2 L2	A or S A or S
41160 Introduction to Biomedical Engineering  Civil and Environmental Engineering	L1		48530 48531 48540	Electronic Engineering Circuit Analysis and Design Electromechanical Automation Signals and Systems	L2 L2 L2	A or S A or S A
<ul> <li>41160 Introduction to Biomedical Engineering</li> <li>Civil and Environmental Engineering</li> <li>48221 Engineering Computations</li> </ul>	L1	A or S	48530 48531 48540 48571	Electronic Engineering Circuit Analysis and Design Electromechanical Automation Signals and Systems Electrical Machines	L2 L2 L2 L3	A or S A or S A A
<ul> <li>41160 Introduction to Biomedical Engineering</li> <li>Civil and Environmental Engineering</li> <li>48221 Engineering Computations</li> <li>48321 Engineering Mechanics</li> </ul>	L1 L1	A or S A or S	48530 48531 48540 48571 48560	Electronic Engineering Circuit Analysis and Design Electromechanical Automation Signals and Systems Electrical Machines Automation Studio	L2 L2 L2 L3 L3	A or S A or S A A A
<ul> <li>41160 Introduction to Biomedical Engineering</li> <li>Civil and Environmental Engineering</li> <li>48221 Engineering Computations</li> <li>48321 Engineering Mechanics</li> <li>48340 Construction</li> </ul>	L1 L1 L2	A or S A or S A or S	48530 48531 48540 48571 48560 43124	Electronic Engineering Circuit Analysis and Design Electromechanical Automation Signals and Systems Electrical Machines Automation Studio Renewable Energy Technology Intelligent Control Studio Renewable Energy Systems	L2 L2 L2 L3 L3	A or S A or S A A S S
<ul> <li>41160 Introduction to Biomedical Engineering</li> <li>Civil and Environmental Engineering</li> <li>48221 Engineering Computations</li> <li>48321 Engineering Mechanics</li> <li>48340 Construction</li> <li>48352 Construction Materials</li> </ul>	L1 L1 L2 L2	A or S A or S A or S A or S	48530 48531 48540 48571 48560 43124 48580 48561	Electronic Engineering Circuit Analysis and Design Electromechanical Automation Signals and Systems Electrical Machines Automation Studio Renewable Energy Technology Intelligent Control Studio Renewable Energy Systems Studio A	L2 L2 L2 L3 L3 L3 L4 L4	A or S A or S A A S S A A
<ul> <li>41160 Introduction to Biomedical Engineering</li> <li>Civil and Environmental Engineering</li> <li>48221 Engineering Computations</li> <li>48321 Engineering Mechanics</li> <li>48340 Construction</li> <li>48352 Construction Materials</li> <li>48331 Mechanics of Solids</li> </ul>	L1 L1 L2 L2	A or S A or S A or S A or S A or S	48530 48531 48540 48571 48560 43124 48580 48561 48582	Electronic Engineering Circuit Analysis and Design Electromechanical Automation Signals and Systems Electrical Machines Automation Studio Renewable Energy Technology Intelligent Control Studio Renewable Energy Systems Studio A Power Systems Studio A	L2 L2 L2 L3 L3 L3 L4 L4	A or S A or S A A S S A A A
<ul> <li>41160 Introduction to Biomedical Engineering</li> <li>Civil and Environmental Engineering</li> <li>48221 Engineering Computations</li> <li>48321 Engineering Mechanics</li> <li>48340 Construction</li> <li>48352 Construction Materials</li> <li>48331 Mechanics of Solids</li> <li>48330 Soil Behaviour</li> </ul>	L1 L1 L2 L2 L2	A or S	48530 48531 48540 48571 48560 43124 48580 48561 48582 48583	Electronic Engineering Circuit Analysis and Design Electromechanical Automation Signals and Systems Electrical Machines Automation Studio Renewable Energy Technology Intelligent Control Studio Renewable Energy Systems Studio A Power Systems Studio B	L2 L2 L2 L3 L3 L3 L4 L4 L4	A or S A or S A S S A A S S A A S S S A A S S S A A S S S A A A S S S S A A A S
<ul> <li>41160 Introduction to Biomedical Engineering</li> <li>Civil and Environmental Engineering</li> <li>48221 Engineering Computations</li> <li>48321 Engineering Mechanics</li> <li>48340 Construction</li> <li>48352 Construction Materials</li> <li>48331 Mechanics of Solids</li> </ul>	L1 L1 L2 L2	A or S A or S A or S A or S A or S	48530 48531 48540 48571 48560 43124 48580 48561 48582	Electronic Engineering Circuit Analysis and Design Electromechanical Automation Signals and Systems Electrical Machines Automation Studio Renewable Energy Technology Intelligent Control Studio Renewable Energy Systems Studio A Power Systems Studio A	L2 L2 L2 L3 L3 L3 L4 L4	A or S A or S A A S S A A A





### Postgraduate subjects

Undergraduate/bachelors-level students are generally not permitted to undertake postgraduate subjects; however, an exception to study the following postgraduate subjects may be made if equivalent/relevant engineering studies (approximately 2.5 years of a 4-year degree) have been completed.

Engineering Management	49118 Applied Geotechnics S			
		49127 Decentralised Environmental Systems*	S	
49006 Risk Management in Engineering	A or S	49134 Structural Dynamics and Earthquake	S	
49016 Technology and Innovation	Α	Engineering	0	
Management		49254 Advanced Soil Mechanics and	S	
Piomedical Engineering		Foundation Design 49255 Catchment Modelling	S	
Biomedical Engineering		49255 Catchment Modelling	3	
49275 Neural Networks and Fuzzy Logic	Α	Data and Software Engineering		
49261 Biomedical Instrumentation	S			
		32555 Fundamentals of Software	A or S	
Civil and Environmental Engineering		Development		
		49202 Communication Protocols	Α	
42991 Advanced Water and Wastewater	Α	42890 4G/5G Mobile Technologies	S	
Treatment				
49123 Waste and Pollution Management	Α	Electrical, Mechanical and Mechatronic		
49115 Façade Engineering	S	Engineering		
49136 Application of Timber in Engineering	Α	40000 Design Ontimication for Manufacturing	C	
Structures		49928 Design Optimisation for Manufacturing	S	
49150 Prestressed Concrete Design	Α	49325 Computer-aided Mechanical Design	A	
49151 Concrete Technology and Practice	Α	42907 Design for Durability	S	
49106 Road Engineering Practice	Α	49274 Space Robotics	S	
49047 Finite Element Analysis	S	49329 Control of Mechatronic Systems	S	
49117 Floodplain Risk Management	S			