



Australian Institute
of Advanced Studies



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MEM50212 - Diploma of Engineering - Technical

Get technical at the

AIAS School of Engineering

All facets of modern society are affected by **the work of engineers**, from satellites, aircraft, drones, 3D printing, mobile technology and renewable energy right down to Polaroid glasses, Velcro and the common clothes peg. Engineers will be vital in the fight to clean up polluted water supplies and develop strategies to deal with climate change.



MEM50212 | CRICOS: 097350J

Diploma of Engineering - Technical



Engineering provides solutions to problems — how to send and land probes on other planets, extract minerals and prevent radiation from leaking from a nuclear reactor. These solutions involve the use of science, physics, mathematics, design and materials technology, all subject areas that an engineer needs to know. Engineers are fundamental to pioneering and integrating technological advances into our daily lives.

This course is designed to prepare you for a career in Engineering at the engineering technician level. This qualification has units available including; CAD/Drafting, management, mathematics, materials science and thermodynamics. At AIAS we offer all units of this qualification at various times throughout the year.



Pathways & Further Study

Ten (10) of the units from MSA30208 count towards the Diploma and Advanced Diploma of Engineering with full credit to corresponding MEM competency codes.

Twenty (20) of the units from MEM50212 count towards the Advanced Diploma of Engineering with full credit to corresponding MEM competency codes.

Course Requirements

To be awarded a Diploma of Engineering - Technical, competency must be achieved in twenty (20) units of competency.

Course Overview



Good to know

On campus/mixed

24 Class max size



Course start dates

JULY

FEBRUARY



Commitment

FT: 1 year | PT: Variable

FT: 20hrs – 3d p/w

Programmes learned:



Autodesk



Autodesk
Autocad



Autodesk
Inventor

Core Units

MEM30012 APPLY MATHEMATICAL TECHNIQUES IN A MANUFACTURING OR ENGINEERING OR RELATED ENVIRONMENT

MEM22002 MANAGE SELF IN THE ENGINEERING ENVIRONMENT

MEM16008 INTERACT WITH COMPUTING TECHNOLOGY

MEM16006 ORGANISE AND COMMUNICATE INFORMATION

MSAENV272 PARTICIPATE IN ENVIRONMENTALLY SUSTAINABLE WORK PRACTICES

Elective Units

MEM09221 CREATE 3-D MODEL ASSEMBLIES USING COMPUTER-AIDED DESIGN (CAD) SYSTEM

MEM09214 PERFORM ADVANCED ENGINEERING DETAIL DRAFTING

MEM30025 ANALYSE A SIMPLE ELECTRICAL SYSTEM CIRCUIT

MEM13015 WORK SAFELY AND EFFECTIVELY IN MANUFACTURING AND ENGINEERING

MEM30033 USE COMPUTER-AIDED DESIGN (CAD) TO CREATE AND DISPLAY 3-D MODELS

MEM09204 PERFORM BASIC ENGINEERING DETAIL DRAWINGS

Elective Units

MEM09229 READ AND INTERPRET TECHNICAL DRAWINGS

MEM22001 PERFORM ENGINEERING ACTIVITIES

MEM09210 CREATE 3-D SOLID MODELS USING COMPUTER-AIDED DESIGN (CAD) SYSTEM

MEM12025 USE GRAPHICAL TECHNIQUES AND PERFORM SIMPLE STATISTICAL COMPUTATIONS

MEM23063 SELECT AND TEST MECHANICAL ENGINEERING MATERIALS

MEM30032 PRODUCE BASIC ENGINEERING DRAWINGS

MEM12024 PERFORM COMPUTATIONS

MEM30031 OPERATE COMPUTER-AIDED DESIGN (CAD) SYSTEM TO PRODUCE BASIC DRAWING ELEMENTS

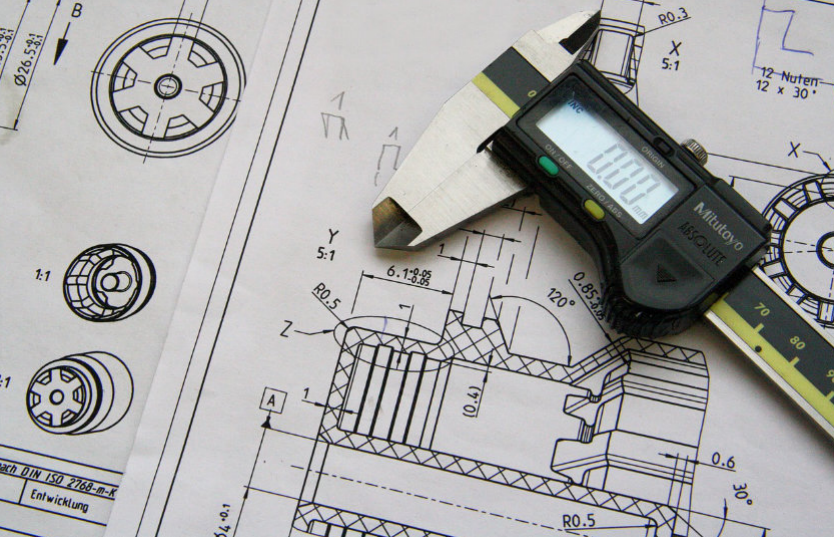
MEM30006 CALCULATE STRESSES IN SIMPLE STRUCTURES

MEM23109 APPLY ENGINEERING MECHANIC PRINCIPLES

MEM23123 EVALUATE MANUFACTURING PROCESSES

MEM23006 APPLY FLUID AND THERMODYNAMICS PRINCIPLES IN ENGINEERING

MEM30007 SELECT COMMON ENGINEERING MATERIALS



At the AIAS School of Engineering, you can study this fantastic course:



MSA30208 Certificate III in Manufacturing Technology



MEM40412 Certificate IV in Engineering Drafting



MEM50212 Diploma of Engineering - Technical



MEM60112 Advanced Diploma of Engineering

To learn more, email info@aias.edu.au
or call **+61 7 3343 8073** and you can visit
us online at www.aias.edu.au