

# TIF Database Application 2004-05

## TIF Project – Faculty of Engineering

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## Aim

1. To improve the quality and delivery of UoS course information for our students
2. To continue the mapping exercise developed from the previous year; to integrate Curriculum mapping with the Graduate Attributes whilst standardizing the UoS course Outlines to be ready and functional for 2005 curriculum .

## Current Situation

- Course Maps – The curriculum changes due to the 6-credit point changeover influence the Course maps drawn the previous year.
- UoS outlines – Inconsistencies with UoS course information across the faculty. There is a need to develop a more standardized delivery and quality of the UoS course information to Engineering students to improve communication between staff and students.
- Graduate Attributes – The need for a more explicit delivery of Graduate Attributes to engineering students was suggested in the last Institute of Engineers Australia Accreditation visit.

## Advantages of the TIF T&L Database

- Improved communication of UoS course requirements to students from the UoS course coordinators,
- Provides a standardized version of the UoS course Outline across the Engineering Faculty,
- Improved quality of UoS course information,
- Provides an alternative representation of their curriculum structure,
- An explicit delivery of the Graduate Attributes offered in each UoS and their Engineering degree structure, and
- Record of the different versions of UoS course outlines are readily available to UoS course coordinators.

The University of Sydney Australia Faculty of Engineering

## Unit of Study Outline: AMME4101

- 1. Unit of Study Details [Expand](#)
- 2. Pre-requisite Details [Expand](#)
- 3. Grade Descriptors [Expand](#)
- 4. Graduate Attributes [Expand](#)
- 5. Teaching/Learning Approach [Expand](#)
- 6. Workload Requirements [Expand](#)
- 7. Assessment Methods [Expand](#)
- 8. Course Schedule [Expand](#)
- 9. Tests / References [Expand](#)

**Aeronautical Engineering - Research & Inquiry**

NSX  
 No. of Units in Unit  
 Weak Points are shown in a highlighted unit  
 Strong Points are shown in a highlighted unit  
 (minimum 50% in 100%)

**Fourth Year Units of Study**

**Core Units**

Practical Experience AMME4100 -- 3	Computational Fluid Dynamics MECH4110 -- 2	Aero-dynamics 2 AERO4260 -- 2	Aircraft Design 2 AERO4400 -- 1	Thesis A AMME4101 -- 1	Aerospce Structures 2 AEO4360 -- 1	Flight Mechanics 2 AEO4560 -- 1	Thesis B AMME4102 -- 2
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**Recommended Units**

Entry Wing Aircraft AEO4270 -- 1	Advanced Aircraft Design AEO4490 -- 2	Advanced Flight Mechanics AEO4590 -- 1	Advanced Engineering Materials MECH4310 -- 2	Advanced Guidance, Navigation and Control AMME4701 -- 2
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**Third Year Units of Study**

**Core Units**

System Dynamics and Control AMME3500 -- 1	Aerospce Management AEO3660 -- 1	Propulsion AEO3261 -- 1	Flight Mechanics 1 AEO3560 -- 2	Aero-dynamics 1 AEO3240 -- 1	Aerospce Structures 1 AEO3360 -- 1	Aerospce Technology 2 AEO3460 -- 2	Aerospce Design 1 AEO3460 -- 1
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**Recommended Units**

Engineering Dynamics AMME2500 -- 1	Introduction to FE & MATH2065 -- 2	Thermofluids AMME2000 -- 2	Mechanics of Design 1 MECH2600 -- 1	Linear Maths & Vector Calculus MATH2061 -- 1	Mechanics of Solids 1 AMME2301 -- 1	Aerospce Technology 1 AEO2700 -- 1	Materials 1 AMME2302 -- 2
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**Second Year Units of Study**

**Core Units**

Engineering Computing ENCO1301 -- 1	Integral Calculus and Modelling MATH1003 -- 2	Engineering Mechanics ENCO1802 -- 2	Linear Algebra MATH1002 -- 1	Calculus MATH1005 -- 2	Differential Calculus MATH1001 -- 1	Engineering Applications AMME1060 -- 2	Professional Engineering 1 ENCO1103 -- 3	Intro to Aircraft Const & Design AEO1400 -- 2
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**First Year Units of Study**

**Core Units**

Engineering Computing ENCO1301 -- 1	Integral Calculus and Modelling MATH1003 -- 2	Engineering Mechanics ENCO1802 -- 2	Linear Algebra MATH1002 -- 1	Calculus MATH1005 -- 2	Differential Calculus MATH1001 -- 1	Engineering Applications AMME1060 -- 2	Professional Engineering 1 ENCO1103 -- 3	Intro to Aircraft Const & Design AEO1400 -- 2
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