

Aerospace Engineering

AE Year 2 – Core (all)

Code	Name	Semester	Credits
EG2004	Engineering Experimentation & Analysis	Both	15
EG2006	Integrated Engineering Design	Both	30
EG2302	System Dynamics & Control	Both	15
EG2111	Materials & Structures	1	15
EG2112	Dynamics & Thermofluids	1	15
EG2421	Aircraft Performance & Navigation	2	15
EG2422	Aerodynamics & Aircraft Systems	2	15

AE Year 3 – Core (90 credits)

Code	Name	Semester	Credits
EG3005*	Individual Project	Both	30
EG3008*	Engineering Management	Both	15
EG3111	Finite Element Analysis & Design	1	15
EG3313	State Variable Control	1	15
EG3411	Compressible & Applied Aerodynamics	1	15

AE Year 3 – Options (30 credits)

Code	Name	Semester	Credits
EG3125	Rigid-Body & Structural Dynamics	2	15
EG3323	Digital Control & Actuators	2	15
EG3421	Flight Dynamics, Control & Avionics	2	15
EG3422	Aerospace Materials & Structures	2	15

Choose two options in semester two, including at least one of the **bold** aerospace specialist options.

Notes: Modules marked with an asterisk are common to all programmes

Student effort on EG3005 and EG3008 is split approximately 15:30 credits sem1:sem 2 to give even loading.

Electronic and Electrical Engineering

EEE Year 3 – Core (45 credits)

Code	Name	Semester	Credits
EG3005*	Individual Project	Both	30
EG3008*	Engineering Management	Both	15
EG3213	Machine Learning for Engineers	1	15
EG3211	Power Electronics	1	15
EG3313	State Variable Control	1	15

EEE Year 3 – Semester 2 Options (30 credits)

Code	Name	Semester	Credits
EG3221	Power Systems and Electrical Networks	2	15
EG3222	Radio & Digital Communications	2	15
EG3323	Digital Control & Actuators	2	15
EG3421	Flight Dynamics, Control & Avionics	2	15

Choose two options in semester two, including at least one of the **bold** Electrical specialist options.

Notes: Modules marked with an asterisk are common to all programmes

Student effort on EG3005 and EG3008 is split approximately 15:30 credits sem1: sem2 to give even loading.

General Engineering

GE Year 2 – Core (90 credits)

Code	Name	Semester	Credits
EG2004	Engineering Experimentation & Analysis	Both	15
EG2006	Integrated Engineering Design	Both	30
EG2302	System Dynamics & Control	Both	15
EG2213	Mechatronics	1	15
EG2321	Computational Engineering Methods	2	15

GE Year 2 – Semester 1 Option (15 credits)

Code	Name	Semester	Credits
EG2111	Materials & Structures	1	15
EG2112	Dynamics and Thermofluids	1	15

GE Year 2 – Semester 2 Option (15 credits)

Code	Name	Semester	Credits
EG2121	Materials Processing	2	15
EG2122	Applied Engineering Thermodynamics	2	15

Choose one optional module in each semester.

GE Year 3 – Core (90 credits)

Code	Name	Semester	Credits
EG3005*	Individual Project	Both	30

EG3008*	Engineering Management	Both	15
EG3213	Machine Learning for Engineers	1	15
EG3313	State Variable Control	1	15
EG3224	Sustainable Electrical Systems	2	15

GE Year 3 – Semester 1 Options (15 credits)

Code	Name	Semester	Credits
EG3111	Finite Element Analysis & Design	1	15
EG3112	Heat Transfer & Energy Systems	1	15

GE Year 3 – Semester 2 Options (15 credits)

Code	Name	Semester	Credits
EG3124	Tribology in Engineering Design	2	15
EG3125	Rigid-Body & Structural Dynamics	2	15
EG3323	Digital Control & Actuators	2	15
EG3422	Aerospace Materials & Structures	2	15

Notes: Modules marked with an asterisk are common to all programmes

Student effort on EG3005 and EG3008 is split approximately 15:30 credits sem1: sem2 to give even loading.

Mechanical Engineering

ME Year 2 – Core (120 credits)

Code	Name	Semester	Credits
EG2004	Engineering Experimentation and Analysis	Both	15
EG2006	Integrated Engineering Design	Both	30
EG2302	System Dynamics and Control	Both	15
EG2111	Materials and Structures	1	15
EG2112	Dynamics and Thermofluids	1	15
EG2121	Materials Processing	2	15
EG2122	Applied Engineering Thermodynamics	2	15

ME Year 3 – Core (90 credits)

Code	Name	Semester	Credits
EG3005*	Individual Project	Both	30
EG3008*	Engineering Management	Both	15
EG3111	Finite Element Analysis & Design	1	15
EG3112	Heat Transfer & Energy Systems	1	15
EG3313	State Variable Control	1	15

ME Year 3 – Semester 2 Options (30 credits)

Code	Name	Semester	Credits
EG3124	Tribology in Engineering Design	2	15
EG3125	Rigid-Body & Structural Dynamics	2	15
EG3323	Digital Control & Actuators	2	15
EG3422	Aerospace Materials & Structures	2	15

Choose two options in semester two, including at least one of the **bold** mechanical specialist options.

Notes: Modules marked with an asterisk are common to all programmes

Student effort on EG3005 and EG3008 is split approximately 15:30 credits sem1: sem2 to give even loading.