School of Engineering and Digital Arts

Head of School: Prof Farzin Deravi
School Web Site: www.eda.kent.ac.uk

Please refer to the online Module Catalogue for full details of all modules:
www.kent.ac.uk/courses/modulecatalogue/

Note: It is ultimately your responsibility to ensure that you are registered for the correct modules for your programme.

Please select a link below to view the requirements for your programme:

- Advanced Communications Engineering (RF Technology and Telecommunications)
- Advanced Communications Engineering (Wireless Systems and Networks)
- Advanced Electronic Systems Engineering
- Computer Animation
- Digital Visual Effects
- Information Security & Biometrics

ADVANCED COMMUNICATIONS ENGINEERING (RF TECHNOLOGY AND TELECOMMUNICATIONS)

ADCOENG(RFT):MSC-T

STAGE 1 – 120 credits - up to 75 credits per term

You must take the following compulsory modules (90 credits):

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	SDS CODE
EENG8220	Data Networks and the Internet	15	Autumn	7	EL822
EENG8270	Advanced Communication Theory	15	Autumn	7	EL827
EENG8490	Research Methods & Project Design*	30	Autumn & Spring	7	EL849
EENG8910	RF System and Antenna Design	15	Autumn	7	EL891
EENG8920	Satellite and Optical Communications	15	Spring	7	EL892

*Module cannot be trailed or compensated

PLUS 15 credits from the following optional modules:

Optional modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	SDS CODE
EENG8930	Reconfigurable Architectures	15	Autumn	7	EL893
EENG8960†	Computer and Microcontroller Architectures	15	Autumn	7	EL896

†In order to obtain credit for this module on IET accredited programmes, the coursework mark and the exam mark must each be greater than or equal to 40% as well as achieving the pass mark for the module. This module will only be considered for compensation if the coursework mark and exam mark are each greater than 40%.

PLUS 15 credits from the following optional modules:

Optional modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	SDS CODE
EENG8720	Wireless Communications	15	Spring	7	EL872
EENG8730	Advanced Networking Systems and Technology	15	Spring	7	EL873

STAGE 2 – 60 credits

You must take the following compulsory module (60 credits):

Compulsory module:	MODULE TITLE	CREDIT AMOUNT	CREDIT LEVEL	SDS CODE
EENG8900	MSc Project*	60	7	EL890

*Module cannot be compensated

ADVANCED COMMUNICATIONS ENGINEERING (WIRELESS SYSTEMS AND NETWORKS)

ADCOENG(WSN):MSC-T

STAGE 1 – 120 credits – up to 75 credits in each term

You must take the following compulsory modules (90 credits):

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	SDS CODE
EENG8220	Data Networks and the Internet	15	Autumn	7	EL822
EENG8270	Advanced Communication Theory	15	Autumn	7	EL827
EENG8490	Research Methods & Project Design*	30	Autumn & Spring	7	EL849
EENG8720	Wireless Communications	15	Spring	7	EL872
EENG8730	Advanced Networking Systems and Technology	15	Spring	7	EL873

*Module cannot be trailed or compensated

PLUS 30 credits from the following optional modules (only ONE of EENG8930 or EENG8960 may be selected):

Optional modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	SDS CODE
EENG8710†	Digital Signal Processing (DSP)	15	Autumn	7	EL871
EENG8910†	RF System and Antenna Design	15	Autumn	7	EL891
EENG8930	Reconfigurable Architectures	15	Autumn	7	EL893
EENG8960†	Computer and Microcontroller Architectures	15	Autumn	7	EL896

†In order to obtain credit for this module on IET accredited programmes, the coursework mark and the exam mark must each be greater than or equal to 40% as well as achieving the pass mark for the module. This module will only be considered for compensation if the coursework mark and exam mark are each greater than 40%.

STAGE 2 – 60 credits

You must take the following compulsory module (60 credits):

Compulsory module:	MODULE TITLE	CREDIT AMOUNT	CREDIT LEVEL	SDS CODE
EENG8900	MSc Project*	60	7	EL890

*Module cannot be compensated

ADVANCED ELECTRONIC SYSTEMS ENGINEERING ELECSYSENG:MSC-T

STAGE 1 – 120 credits – 75 in Autumn, 45 in Spring

You must take the following compulsory modules (60 credits):

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	SDS CODE
EENG8490	Research Methods & Project Design*	30	Autumn & Spring	7	EL849
EENG8710	Digital Signal Processing†	15	Autumn	7	EL871
EENG8960	Computer and Microcontroller Architectures†	15	Autumn	7	EL896

*Module cannot be trailed or compensated
† In order to obtain credit for this module on IET accredited programmes, the coursework mark and the exam mark must each be greater than or equal to 40% as well as achieving the pass mark for the module. This module will only be considered for compensation if the coursework mark and exam mark are each greater than 40%.

PLUS 60 credits from the following optional modules:

Optional Modules Term 1 Students must select 30 credits from the following selections of optional modules provided by the School of Engineering and Digital Arts. The choice of module determines which associated module will be chosen in term 2.

Optional modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	SDS CODE
EENG8220	Data Networks and the Internet	15	Autumn	7	EL822
EENG8270	Advanced Communication Theory	15	Autumn	7	EL827
EENG8440	Fundamentals of Image Analysis	15	Autumn	7	EL844
EENG8930	Reconfigurable Architectures	15	Autumn	7	EL893

Optional Modules Term 2 Students must select 30 credits from the following selections of optional modules provided by the School of Engineering and Digital Arts. There are pre-requisites from Term 1.

Optional modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	SDS CODE
EENG8290	Embedded Real-Time Operating Systems†	15	Spring	7	EL829
EENG8580	Advanced Pattern Recognition (Prerequisite EL844)†	15	Spring	7	EL858
EENG8720	Wireless Communications (Prerequisite EL827)	15	Spring	7	EL872
EENG8730	Advanced Networking Systems and Technology (Prerequisite EL822)	15	Spring	7	EL873
EENG8750	Advanced Sensors & Instrumentation Systems†	15	Spring	7	EL875

† In order to obtain credit for this module on IET accredited programmes, the coursework mark and the exam mark must each be greater than or equal to 40% as well as achieving the pass mark for the module. This module will only be considered for compensation if the coursework mark and exam mark are each greater than 40%.

STAGE 2 – 60 credits

You must take the following compulsory module (60 credits):

Compulsory module:	MODULE TITLE	CREDIT AMOUNT	CREDIT LEVEL	SDS CODE
EENG8900	MSc Project*	60	7	EL890

*Module cannot be compensated

COMPUTER ANIMATION COMPANI:MSC-T

STAGE 1 – 120 credits

You must take the following compulsory modules (120 credits):

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	SDS CODE
DIGM8310	Digital Visual Art Set-Up*	15	Autumn	7	EL831
DIGM8320	Animation Principles	15	Autumn	7	EL832
DIGM8330	Visual Training	15	Autumn & Spring	7	EL833
DIGM8370	Professional Group Work	15	Spring	7	EL837
DIGM8630	Advanced 3D Modelling	15	Autumn	7	EL863
DIGM8640	Pre-Visualisation	15	Summer	7	EL864
DIGM8650	Action in Animation	15	Spring	7	EL865
DIGM8660	Acting in Animation	15	Spring	7	EL866

* Module cannot be condoned or compensated

STAGE 2 – 60 credits

You must take the following compulsory module (60 credits):

Compulsory module:	MODULE TITLE	CREDIT AMOUNT	CREDIT LEVEL	SDS CODE
EENG8700	Visual Effects Project*	60	7	EL870

* Module cannot be condoned or compensated

DIGITAL VISUAL EFFECTS DIGVISEFF:MSC-T

STAGE 1 – 120 credits - credit imbalance permitted (up to 75 credits per term)

You must take the following compulsory modules (120 credits):

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	SDS CODE
DIGM8310	Digital Visual Art Set-Up*	15	Autumn	7	EL831
DIGM8370	Professional Group Work*	15	Spring	7	EL837
DIGM8390	Effects Animation	15	Autumn	7	EL839
DIGM8630	Advanced 3D Modelling	15	Autumn	7	EL863
DIGM8640	Pre-Visualisation	15	Summer	7	EL864
DIGM8670	Technical Direction	15	Spring	7	EL867
DIGM8680	Digital Compositing	15	Autumn & Spring	7	EL868
DIGM8690	Film and Video Production	15	Spring	7	EL869

* Module cannot be condoned or compensated

STAGE 2 – 60 credits

You must take the following compulsory module (60 credits):

Compulsory module:	MODULE TITLE	CREDIT AMOUNT	CREDIT LEVEL	SDS CODE
EENG8700	Visual Effects Project	60	7	EL870

* Module cannot be condoned or compensated

INFORMATION SECURITY & BIOMETRICS INFOSEC-BIOMET:MSC-T

STAGE 1 – 120 credits - up to 75 credits per term

You must take the following compulsory modules (75 credits):

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	SDS CODE
COMP8760	Computer Security*	15	Autumn	7	CO876
DIGM8440	Image Analysis with Security Applications*	15	Autumn	7	EL844
EENG8490	Research Methods & Project Design†	30	Autumn & Spring	7	EL849
EENG8570	Biometric Technologies*	15	Autumn	7	EL857

* Module cannot be condoned
† Module cannot be trailed, condoned or compensated

You must take one of the following optional modules (15 credits) depending on your prior experience of programming:

CO871 is for students with substantial prior experience of programming.
CO881 is for students with limited or no prior experience of programming.

Optional modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	SDS CODE
COMP8710	Advanced Java for Programmers*	15	Autumn	7	CO871
COMP8810	Object-Oriented Programming*	15	Autumn	7	CO881

* Module cannot be condoned

You must take 30 credits from the following optional modules:

Optional modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	SDS CODE
COMP8340	Trust, Security and Privacy Management*	15	Spring	7	CO834
COMP8990	System Security*	15	Spring	7	CO899
EENG8580	Advanced Pattern Recognition*	15	Spring	7	EL858
EENG8750	Advanced Sensors & Instrumentation Systems*	15	Spring	7	EL875

* Module cannot be condoned

STAGE 2 – 60 credits

You must take the following compulsory module (60 credits):

Compulsory module:	MODULE TITLE	CREDIT AMOUNT	CREDIT LEVEL	SDS CODE
EENG8900	MSc Project	60	7	EL890

* Module cannot be condoned