

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](#)
- [Mobile Application Development](#)

**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 30 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
EENG8960	Computer and Microcontroller Architectures	15	Autumn	7	EL896

STAGE 2 – 60 credits

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

Compulsory module:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	SDS CODE
EENG8900	MSc Project*	60	Summer	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:

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
EENG8960	Computer and Microcontroller Architectures	15	Autumn	7	EL896

STAGE 2 – 60 credits

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

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

*Module cannot be compensated

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

You must take the following compulsory modules (45 credits):

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	SDS CODE
EENG8490	Research Methods & Project Design	30	Autumn & Spring	7	EL849
DIGM8440	Image Analysis with Security Applications	15	Autumn	7	EL844

*Module cannot be trailed or compensated

PLUS 75 credits from the following optional modules:

Optional Modules Term 1 Students must select at least 30 credits from the following selections of optional modules. 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
EENG8710	Digital Signal Processing	15	Autumn	7	EL871
EENG8960	Computer and Microcontroller Architectures	15	Autumn	7	EL896

Optional Modules Term 2 Students must select at least 30 credits from the following selections of optional modules. There are pre-requisites from Term 1

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

STAGE 2 – 60 credits

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

Compulsory module:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	SDS CODE
EENG8900	MSc Project*	60	Summer	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	TERM TAUGHT	CREDIT LEVEL	SDS CODE
EENG8700	Visual Effects Project*	60	Summer	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	TERM TAUGHT	CREDIT LEVEL	SDS CODE
EENG8700	Visual Effects Project	60	Summer	7	EL870

* Module cannot be condoned or compensated

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
COMP8410	Cyber Law*	15	Autumn	7	CO841
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	TERM TAUGHT	CREDIT LEVEL	SDS CODE
EENG8900	MSc Project	60	Summer	7	EL890

* Module cannot be condoned

MOBILE APPLICATION DEVELOPMENT

MOBAPP:MSC-T

STAGE 1 – 120 credits – 60 in each term

You must take the following compulsory modules (105 credits):

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	SDS CODE
EENG8800	HCI For Mobiles	15	Autumn	7	EL880
EENG8810	Android Application Design	15	Spring	7	EL881
EENG8820	iPhone Application Design	15	Autumn	7	EL882
EENG8830	Mobile Web Development*	15	Autumn	7	EL883
EENG8840	Mobile Application Design Project	30	Autumn & Spring	7	EL884
EENG8850	Research Methods and Project Design for Mobile Apps*	15	Autumn & Spring	7	EL885

*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

STAGE 2 – 60 credits

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

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