



**THE MODULAR MASTERS PROGRAMME AT THE
FACULTY OF ENGINEERING AND PHYSICAL SCIENCES
UNIVERSITY OF SURREY**

MSc IN ELECTRONIC ENGINEERING VIA SHORT COURSES

The Faculty of Engineering and Physical Sciences promotes excellence in research and education across a wide range of topics. It comprises research centres in Communication Systems, Satellite Engineering, Vision, Speech and Signal Processing, Ion Beam Applications, Mathematics and Computing. The Department of Electronic Engineering within the School has been awarded a 5-StarA+ Research Rating. An MSc in Electronic Engineering via Short Courses has been introduced comprising elements drawn from the full-time MSc courses. The purpose of the programme is to encourage those working in industry to continue with their professional development without necessitating an expensive career break. The modular approach means that students can choose their own pace of study to fit in with their work commitments.

The School awards credits on the Modular MSc via short courses which are assessed by examination and, in some cases, labwork and assignments. Each module is worth 15 credits. 120 credits are awarded for successful completion of 7 to 8 courses and, in addition, the student undertakes a project that is awarded 60 credits.

The maximum amount of time allocated for a student to complete the MSc is normally **four years** from registration.

The student can also transfer 2 successfully completed modules from the CEESI scheme or other approved Universities towards his/her MSc via short courses at the University of Surrey. Further details are available from the Continuing Education Office.

REGISTRATION AND ENTRANCE REQUIREMENTS

Candidates should formally register straightaway and complete the MSc Application form. This form is processed by the MSc office and Registry and, if satisfactory, a formal offer will be made.

A **first degree** is usually necessary in order to register for an MSc but other qualifications combined with evidence of relevant employment can be taken into account in lieu of a first degree. The University has to be satisfied that the candidate is suitable for an MSc.

Supporting evidence for application includes:- evidence of Degrees or HNCs/HDNs claimed, two referees, a letter of support from the applicant's company and evidence of previous experience. The University reserves the right to refuse an application if it is felt that the student will have problems attaining the academic standards required for the MSc.

Post Graduate Certificates

If a candidate, having completed four modules or 60 credits decides not to continue with the Masters Degree, a Post-Graduate certificate can be awarded. A 50% average mark must have been obtained. Please note that a student cannot obtain a Post-Graduate certificate and then continue toward an MSc qualification.

Fees

Registration on the *Modular Masters Programme* is currently free. A charge per module will be made for attending the module and an additional charge of £100 for the examinations fees for that module. Please note that we charge a fee of £100 per examination in addition to the standard course fee. This covers administration and external exam officer charges. This fee will be payable in advance upon registration for an exam. Candidates will not be registered unless this fee is paid. Please contact the CE office for more details.

A charge will be levied for the administration and supervision of the project which counts for up to 60 credits towards the standard MSc. The cost of this will be advised at the Project Stage. Please note that the charges for overseas delegates may differ from that charged to UK students. The MSc office has further information on this. The courses are charged for on a per-course basis. Details of courses and programme are available from our website on

<http://www.ee.surrey.ac.uk/Ce/>

ADDITIONAL CREDITS AND DISTANCE LEARNING

A student can opt to undertake additional exam work for the short course in “RF Circuit and System Design” which doubles the number of credits available from the short course. The student will be given extra course notes or, in the case of “RF Circuit and System Design” a 3-month Distance Learning Course and will need to complete all exams and assignments (if applicable) for these courses. There is an additional charge, currently £400, for undertaking the Distance Learning Module. Distance Learning elements are also available on Microwave Engineering, RFIC and MMIC and Nanotechnology. These courses are 15-credits and the DL element is designed to enhance learning.

PROJECTS

Projects will follow the same requirements as for the standard Masters course. Projects may only be arranged once full registration on the Masters course has been achieved and four short courses have been satisfactorily completed. The project is intended to occupy approximately 100 working days, of which 25 days are for planning and preparation. Students will carry out a project in their Company to a schedule agreed by the Company Project Supervisor, the University Project Supervisor and the student. An additional charge is made for the supervision of this project. Details of these charges are available from the MSc Office.

TIMES OF EXAMINATIONS

The examinations are currently taken at the same time of the year as that for the full-time MSc students and are taken in the UK. Examinations usually take place in December and May and, usually, four weeks notice is given of the exam date from the Examinations Office. **Students from abroad will be examined in the UK unless there are exceptional circumstances.**

ASSIGNMENTS

In the case of “Satellite Communications” the module is made up of examination and assignment – weighting 60:40 respectively. The assignment will be issued after the Sat Comms course has taken place and students have two months to complete this. Late return of the assignment will result in penalties in marking.

PASS MARKS

The pass mark for an MSc module is 50%, 70% is noted as a “Distinction” and a new “Merit” pass mark at 60% is under consideration.

Students who obtain a mark of 40%-49% may be compensated. Two modules can be compensated at this level.

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Barbara Steel, Manager, Continuing Education, Faculty of Engineering and Physical Sciences 11/4/2008

THE MODULES

Courses currently participating in the Modular Masters Programme are listed below.

- Antennas and Propagation
 - Digital Signal Processing
 - IP Networking Protocols and Technologies
 - Microwave Engineering ^{DL}
 - Modern Digital Communications
 - Nanotechnology ^{DL}
 - Satellite Communications
 - Spacecraft Systems Design
 - RFIC and MMIC Design ^{DL}
 - RF Circuit and System Design* ^{DL}
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- *It is possible to gain extra credits on these modules by taking examinations/assignments based on the full Module MSc syllabus.*
 - ^{DL} This course is supplemented with a 3-month Distance Learning Programme.

FUNDING

Some funding, through the Panasonic Trust or CEESI may be available for UK and EC-based students. Please contact the CE office for more details or go to <http://www.ee.surrey.ac.uk/CE/funding.html> for further information.

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