

## MSC ENGINEERING AND INFORMATION SCIENCES

|                               |   |
|-------------------------------|---|
| Awarding Institution:         | The University of Reading   |
| Teaching Institution:         | The University of Reading   |
| Faculty of Science            | Programme length: 12 or 24 months   |
| For students entering in 2004 | Date of specification: 5/2003   |
| Programme Coordinator:        | Dr Rachel McCrindle   |
| Board of Studies:             | MSc Engineering and Information Sciences 1st convened for 2002-03 year - Prof G.M. Megson (HoS), Dr R.J.McCrindle (CS), Dr V.F. Ruiz (Cyb) and Dr R.S.Sherratt (EE) |
| Accreditation:                | Not applicable  |

### Summary of programme aims

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- To prepare students for a career in R&D, for taking a higher degree by research, or for gaining further research experience before/after taking-up an industrial appointment .
- To allow the students to undertake research in their specialist area with guidance but not day-to-day supervision from an experienced researcher.
- To train the students so that they are able to identify and investigate a proposed research topic connected with the acquisition, processing, control, communication or application of information; and to establish the extent of published knowledge in the field, understand and summarise that knowledge and be able to report formally, both orally and in writing.

### Transferable skills

Report writing and oral presentation skills; seminar and poster presentation; use of appropriate software/hardware; internet skills; research methods and skills.

### Programme content

|       |  | Credits | Level      |
|-------|--|---------|------------|
| SEMRS | Research Studies                           | 10      | M          |
|       | 2 Technical Modules *                      | 20      | M/M or H/M |
| SEMRP | Research Project, Dissertation and Seminar | 150     | M          |

- \* These modules may be chosen from any available modules being taught within the School as part of an MEng or MSc course but they should be relevant to, or complementary to, the student's dissertation project. The agreement of the supervisor and Programme Advisor of the course providing the module will be required.

The research project runs for the entire duration of the MSc and is carried out in close association with one of the Research Groups of the School.

### Part-time/modular arrangements

The programme may be taken over 12 months full-time or 24 months part-time.

### Progression requirements

Candidates must achieve an overall average mark of 50% or better in the taught modules.

## Summary of teaching and assessment

The University's taught postgraduate marks classification is as follows:

| <b>Mark</b>                | <b>Interpretation</b>         |
|----------------------------|-------------------------------|
| 70 – 100%                  | Distinction                   |
| 60 – 69%                   | Merit                         |
| 50 – 59%                   | Good standard (Pass)          |
| <b>Failing categories:</b> |                               |
| 40 – 49%                   | Work below threshold standard |
| 0 – 39%                    | Unsatisfactory Work           |

To pass the MSc students must gain an average mark of 50 or more overall including a mark of 50 or more for the dissertation and have no mark below 40 in any module.

Students who gain an average mark of 70 or more overall including a mark of 70 or more for the dissertation and have no mark below 40 will be eligible for a Distinction. Those gaining an average mark of 60 or more overall including a mark of 60 or more for the dissertation and have no mark below 40 will be eligible for a Merit.

## Admission requirements

Entrants to this programme are normally required to have obtained a degree at the equivalent of UK 2.1 Honours (or an overall 2.2 plus evidence of a 2.1 or above in the individual project component of the course) in an electronic, computer, cybernetic or information technology related subject. However, the subject area is interdisciplinary, and motivated applicants with other degree backgrounds are also encouraged to apply. Candidates with other qualifications but having substantial related experience in industry will also be considered.

Candidates are requested at the time of application to describe in approximately 300 words their research interest.

Admissions Tutor: Dr Rachel McCrindle

## Support for students and their learning

University support for students and their learning falls into two categories. Learning support includes IT Services, which has several hundred computers and the University Library, which across its three sites holds over a million volumes, subscribes to around 4,000 current periodicals, has a range of electronic sources of information and houses the Student Access to Independent Learning (S@IL) computer-based teaching and learning facilities. There are language laboratory facilities both for those students studying on a language degree and for those taking modules offered by the Institution-wide Language Programme. Student guidance and welfare support is provided by Programme Directors, the Careers Advisory Service, the University's Special Needs Advisor, Study Advisors, Hall Wardens and the Students' Union.

School support is provided through:

- Project supervisor and Course Coordinator
- A detailed course handbook.
- Staff/student committees within the School.

Each student will have a supervisor with expertise in the subject area of the student's dissertation project. It is the responsibility of the *supervisor* to give guidance to the student through regular meetings. For full-time students these meetings should take place at no more than three-weekly intervals, longer for part-time students. It is the responsibility of the *student* to raise with the supervisor any difficulties or problems which occur in the course of the work and to submit coursework and progress reports as required by the course handbook. The choice of taught

courses to be taken should be made by the student in consultation with their supervisor and the Course Coordinator.

### **Career prospects**

The programme particularly attracts graduates who are in employment, and wish to complete the MSc course on a part-time basis, working on a research project relevant to their job. It is also attractive to TCS Associates enabling them to combine their TCS project with an academic award. Full-time students may enter a wide range of engineering/ computing/ information technology related disciplines or higher education establishments depending on their chosen field of research.

### **Opportunities for study abroad or for placements**

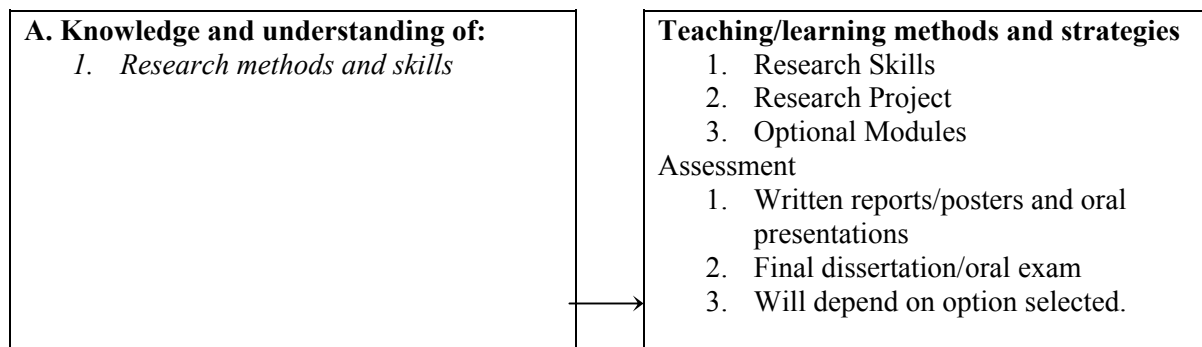
Many of the graduates who take up this programme of study do so through their companies as mentioned above.

### **Educational aims of the programme**

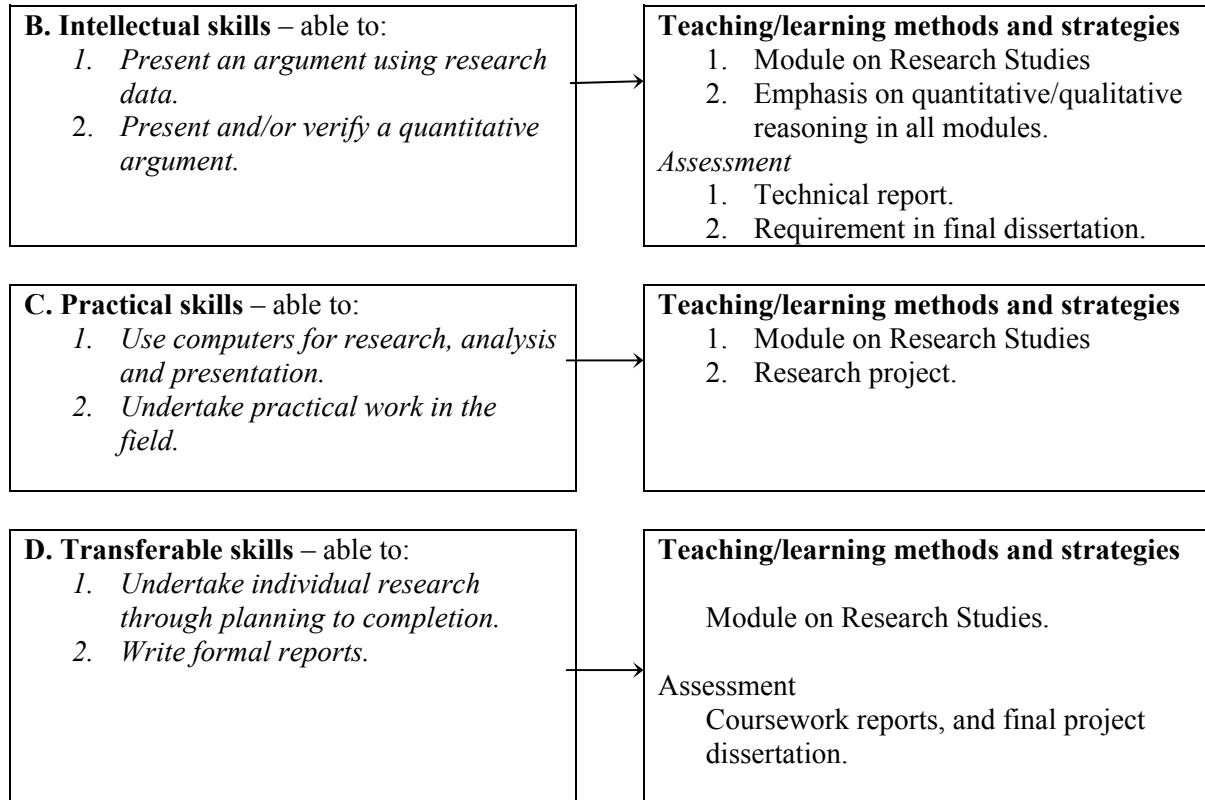
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### **Programme Outcomes**

#### ***Knowledge and Understanding***



## *Skills and other attributes*



*Please note:* This specification provides a concise summary of the main features of the programme and the learning outcomes that a typical student might reasonably expect to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. More detailed information on the learning outcomes, content and teaching, learning and assessment methods of each module can be found in module and programme handbooks.