Engineering software development is one of the key areas in the information technology sector. It is a fast moving subject of crucial importance to industry and forms the basis for a wide and ever growing variety of applications.

This course with its blend of skills-based and subject specific material, has the fundamental objective of equipping you with the generic hands-on skills and up-to-date knowledge adaptable to the wide variety of applications that this field addresses. Choose from four specialist options: Computational Engineering Design, Computational Intelligence for Data Analytics*, Computer and Machine Vision, and Software Engineering for Technical Computing.

**Course structure**

You will complete compulsory modules that are standard across all of the MSc options followed by specialist modules from your selected option. In addition to the taught component, you will complete a group project and an individual research project.

**Individual project**

The individual research project allows you to delve deeper into an area of specific interest. It is very common for industrial partners to put forward real world problems or areas of development as potential research thesis topics. For part-time students it is common that their research thesis is undertaken in collaboration with their place of work.

**Group project**

This aims to provide you with invaluable experience of delivering a project within an industry structured team. The project allows you to develop a range of skills including learning how to establish team member roles and responsibilities, project management, delivering technical presentations and working with members who have a variety of backgrounds and experience.

**Future career**

There is a strong industry demand for talented individuals with expertise in engineering software development and technical programming skills in industry standard languages and tools. In this environment, where demand for the high calibre skills provided by this programme is outstripping supply, our graduates are in demand, internationally and across multiple industries and sectors. We receive many enquiries from engineering IT businesses during the programme, seeking to recruit our students on completion.

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* subject to University approval.

Every effort is made to ensure the information on this sheet is correct at the time it was produced in October 2019. Please check the web pages for the latest information.