COURSE OVERVIEW

This modular MSc course is designed to prepare students for work in the demanding field of Safety Systems Engineering (SSE) by exposing them to the latest science and technology within this field.

The courses may be used as part of a Continuing Professional Development programme for The Institution of Engineering & Technology (IET) or British Computer Society (BCS) members.

The course aims to provide you with a thorough grounding and practical experience in the use of state-of-the-art techniques for development and operation of safety critical systems, together with an understanding of the principles behind these techniques so that you can make sound engineering judgments during the design, deployment and operation of such a system. On completing the course, you will be equipped to play leading and professional roles in safety-critical systems engineering related aspects of industry and commerce.
SAFETY CRITICAL SYSTEMS ENGINEERING MSc

MODULES*

- Foundations of System Safety Engineering – Core
- Systems Engineering for Safety – Core
- Hazard and Risk Assessment – Core
- Software Requirements – Optional
- System Safety Assessment – Core
- Safety Management Systems – Core
- Safety Case Development & Review – Core
- Human Factors for Safety – Optional
- Computers and Safety – Core
- Through Life Safety – Optional

ENTRY REQUIREMENTS

Typically, you will have achieved a first degree in a numerate, technical discipline, and industrial experience. This course is specifically directed at those with several years of industrial experience. If you do not have a first degree but have relevant experience, this will be considered on a case by case basis.

If English is not your first language, or your first degree was not taught in English, then you will need to have attained a suitable language qualification no more than two years before the start of the course.

HOW TO APPLY

For more information, and details of how to apply, go to cs.york.ac.uk/applyPG, or call +44 (0)1904 325404. Alternatively, you can email postgraduate@cs.york.ac.uk

KEY FACTS

- First-class teaching, blending theory and practice in a world-class research environment
- Dedicated state-of-the-art facilities, including hardware and software laboratories
- Internships available at leading organisations
- Excellent career prospects – nine out of ten students in employment or further study within six months of graduating
- High staff-student ratio, including your own personal supervisor
- REF assessment: seventh overall in the UK (Research Excellence framework 2014)

*modules included as a guide – subject to change

As a practitioner of system/functional safety in the automotive industry I cannot recommend the MSc in Safety Critical Systems Engineering highly enough. The course structure and the mandatory modules cover the fundamentals of system safety in such depth and breadth as to be applicable to any safety standard. Unlike previous degree courses, I refer to my York notes a great deal, since they are extremely relevant to my day to day safety activities.”

Robert Palin
Jaguar Land Rover