MSc Human Factors and Ergonomics

As technology becomes ever more complex and pervasive within our society, it is the human factors in engineering design that often dictate success or failure. This MSc course aims to equip students with the knowledge and skills required to design products, jobs/tasks and environments from the human perspective.

The diversity in humans (in abilities, limitations, experiences, expectations, behaviours etc) creates many challenges for researchers and practitioners in industry. By adopting a human-centred approach, there may be many benefits for customers and/or employees and by neglecting human factors and ergonomics issues, companies are likely to encounter major reliability failures, accidents, labour relations problems and unsuccessful introductions of products and technology.

In this course students will learn about a range of human characteristics as they relate to our interactions with jobs, environments, products, services and other people.
MSc Human Factors and Ergonomics

Course structure
The course is designed to lead from the theoretical basis of each topic to the practical application of that knowledge. It is a combination of 120 credits of taught modules and a 60 credit independent research project. The course can be taken full time over one year or part time over two or three years. Please be aware that modules are subject to change.

Modules are assessed by a combination of project and coursework.

Core modules
- Cognitive Ergonomics
- Physical Ergonomics
- Systems Engineering and Human Factors
- Studying Human Performance
- Simulation and Digital Human Modelling
- Risk and Safety Science for Engineers
- Human-Computer Systems
- Advanced Methods in Human Factors
- Contemporary Issues in Human Factors

Option of 20 credits at an appropriate level.

Individual project
A major individual project is undertaken in the summer term. This is intended to integrate knowledge, methodology and practical skills. Students are encouraged to work with an industrial company, wherever possible.

Previous projects have included:
- CCTV and eye witness testimony
- Implementing ergonomics in engineering design
- Sub-sea engineering supervision
- Manual handling on construction sites
- What makes a Virtual Environment usable?
- Assembly ergonomics for automotive design engineers
- Data visualisation and 3D displays
- Situational awareness measurement in rail traffic control
- Distance judgement in vehicle navigation systems
- Digital human modelling

Funding opportunities
Funding options can be found at:
- Home and EU: www.nottingham.ac.uk/fundingPG
- International: www.nottingham.ac.uk/internationalstudents/scholarships

Entry requirements
Applicants are usually required to have at least a high 2.2 (high lower second class honours degree) although equivalent professional qualifications may also be accepted, in a relevant subject.

The course is accredited as the educational qualification for The Institute Ergonomics and Human Factors.

English language requirements:
- IELTS score of at least 6.0 with a minimum score of 5.5 in individual elements

Other qualifications are accepted.

How to apply
Candidates are encouraged to apply online at:
www.nottingham.ac.uk/pgstudy/apply

Contact us
For further information, please contact:
Enquiry Centre
t: +44 (0)115 951 5559
www.nottingham.ac.uk/enquiry
w: www.nottingham.ac.uk/m3

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