School of Art & Design

MA / MSc
Technology Integrated Knit Design

NOTTINGHAM
TRENT UNIVERSITY

MA / MSc Technology Integrated Knit Design

Overview

This technology-driven postgraduate course combines creative design with an in-depth understanding of new textile materials, smart products and technological skills.

Textile manufacturers are offering global products with increasingly complex manufacturing processes and design components. This course will allow you to gain the insight and expertise to develop both your creativity and technological competence.

The course is particularly suitable for people with existing traditional skills, such as flat-bed knitting and design development, who are interested in the rapidly developing area of technical textile development. You will benefit from the School of Art & Design's decades of expertise in the areas of knitwear design and knitted textiles. This includes significant links with major industry producers in the technical textiles industry, world-leading flat-bed knitting machine manufacturers, yarn manufacturers, suppliers and design companies.

Course focus

The course emphasises:

- The practical application of technical and design knowledge within a modern industrial context.
- The changing global context for the application of knitted structures across a range of industrial sectors.
- The development of both traditional and newly-developed fibre materials.

- The 3D construction processes used in computerised flat-bed knitting technology for design and manufacture.
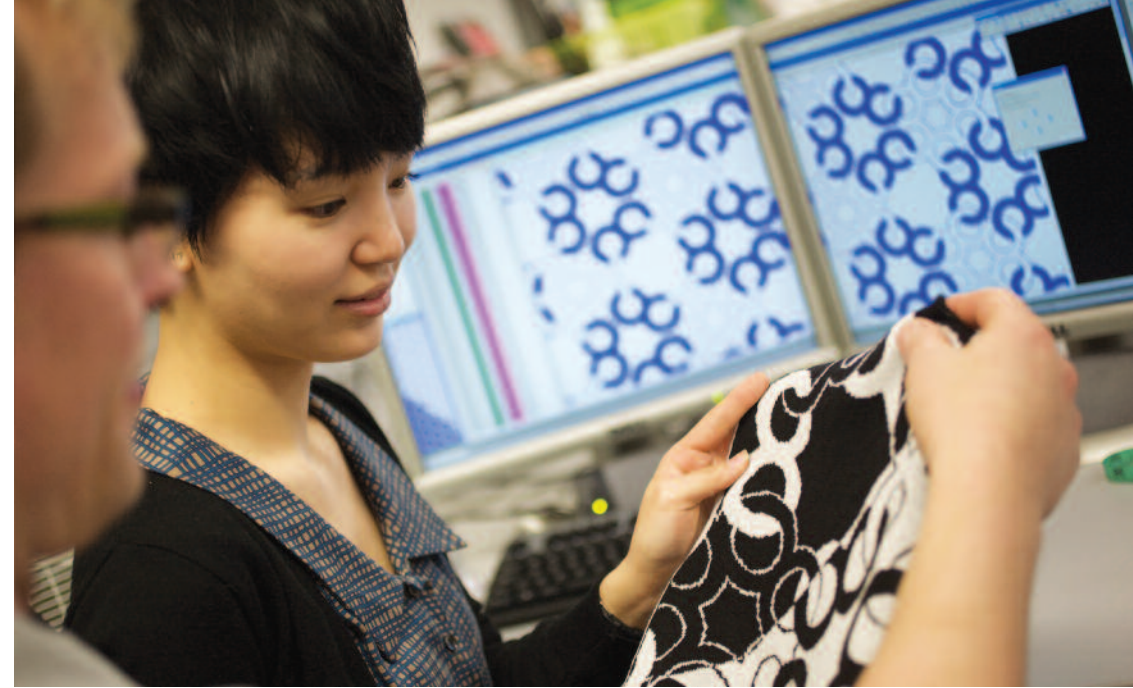
Key features

- Input from professionals from across the textile industry.
- Optional work experience opportunities.
- State-of-the-art knit technology including Shima and Stoll.
- Study visits to international locations, yarn / trend shows and knitting machine manufacturers.
- Business innovation support through access to The Hive, the University's enterprise development centre.
- Opportunities for collaboration across the multi-disciplinary postgraduate community.

Course structure

During the first 30 weeks of the course you will develop the knowledge and skills to become proficient within the field of technology integrated knit design. A structured teaching schedule, including opportunities for industry-linked projects, will help you to develop an individual learning agreement. This will support your final route of either MA or MSc.

The MA route will include a project following predominantly qualitative research methodology with the ultimate outcome being the creation of advanced knitted products with a design application.

The MSc route will include a project implementing predominantly quantitative research methodology. The focus will be in

medical textiles, smart textiles and e-textiles and will culminate in a written dissertation demonstrating the scientific analysis and evaluation of the research findings.

Taught modules will include lectures on the following:

- Research methods and practices.
- Project development and presentation skills.
- Fibres and the creation of advanced knitted products.
- Design concepts and applications.
- Knitting and Knit CAD technology.
- Industrial applications and the subject in a wider context.

You will develop technical skills and practical applications in seminars and workshops.

Project work will help you to practically apply the skills that you are developing.

You will have the opportunity to present your projects to professionals, tutors and peers for critique and evaluation.

Entry requirements

- A good honours degree (minimum 2.2) or equivalent in a relevant discipline. For mature students and industry professionals work experience will be taken into account if you do not have an honours degree.
- IELTS 6.5 (applicants whose first language is not English).
- A project proposal, for more information on what this should include please visit **www.ntu.ac.uk/projectproposal**
- Examples of your work.

For all further information

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This information can be made available in alternative formats.

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