Entry Requirements

The standard academic qualification required is a Grade 2:1 Batchelors-level degree in an appropriate subject, not necessarily engineering. However, applications will be considered from those without this qualification but who have suitable work experience or knowledge in the field of transportation, highways, railways or similar.

Applicants whose first language is not English must normally achieve an overall score of 6.0 on the British Council IELTS test (or equivalent) with a minimum score of 5.0 in each element.

Course Fees (2007/8)

For all home or EU students: £4230

For all international (non-EU) students: £12000

Part-time students pay either half or a third of the fee each year depending on whether they are registered for 2 or 3 years.

Fees include lectures, laboratory classes, all course materials, access to university facilities and supervision time.

Enquiries

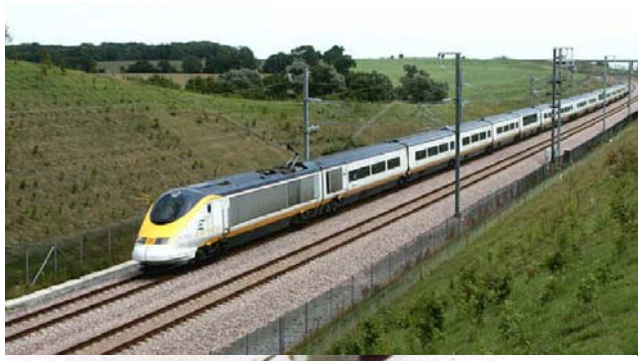
Please address enquiries to:

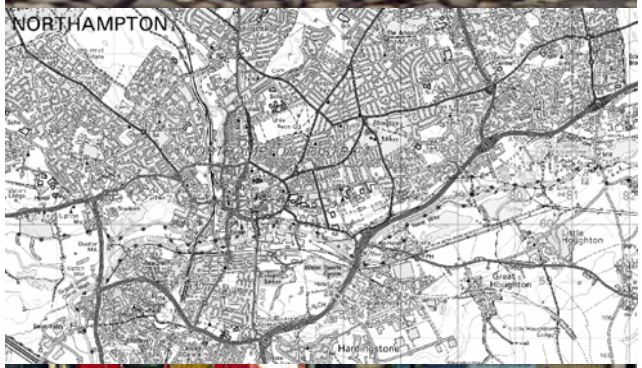
Dr Nick Thom
School of Civil Engineering
University of Nottingham
University Park
Nottingham
NG7 2RD
nicholas.thom@nottingham.ac.uk
tel: +44 (0)115 9513901
fax: +44 (0)115 9513909

Application Process

Application forms for postgraduate studies can be down-loaded from the University of Nottingham website (www.nottingham.ac.uk) or obtained from Dr Nick Thom at the above address.

Applications must be supported by two references and a detailed CV.





The University of Nottingham

NTEC
Nottingham Transportation Engineering Centre

MSc in Transportation Infrastructure

A Full-time or Part-time course covering issues relating to highways, railways, ports and airports, together with the broader fields of transportation policy, the environment and sustainable development

Course subject to University approval

The University

Nottingham is one of the top civil engineering universities in the UK, with an excellent record in highway and railway-related research, and with strengths in environmental and energy issues as well as geotechnics. It is therefore well placed to provide an MSc on this topic.

Scope

This course will major on the engineering design of transportation-related infrastructure, namely highways, railways, ports and airports, including both alignment and structural design. It is intended to give students a thorough grounding in geometric issues, traffic control, pavement and railway materials, design and maintenance, as well as infrastructure-related earthworks, structures, drainage etc. A substantial part of the course is also devoted to environmental and management issues, notably sustainable development, energy, traffic management and transport policy.

Key University Staff

Dr Gordon Airey	Dr Lloyd Bennet
Professor Andy Collop	Mr Andrew Dawson
Dr Ed Ellis	Dr David Hargreaves
Dr Tony Parry	Dr Nick Thom
Dr Salah Zoorob	

Who is the Course aimed at?

The course content and structure is particularly suitable for practicing engineers who wish to expand their area of expertise and specialization, but who cannot be released for full-time study. It is also aimed at graduates, both UK and world-wide, who wish to obtain a Masters level qualification, and for whom it will open the door to career opportunities in transportation, pavement design, urban planning etc. The University of Nottingham is recognized by the ICE and IHT as a provider of suitable masters-level education to satisfy chartership requirements.

Course Programme

Module 1 **Geometric Design**
- 1a: Design Principles
- 1b: Speed and Safety
- 1c: Intersection Design

Module 2 **Materials for Pavements and Railway Trackbeds**
- 2a: Soils and Unbound Materials
- 2b: Asphalt
- 2c: Concrete and other Paving Materials

Module 3 **Pavement Design, Construction and Maintenance**
- 3a: Design
- 3b: Construction and Maintenance
- 3c: Evaluation and Rehabilitation

Module 4 **Environmental Issues**
- 4a: Sustainable Construction
- 4b: Alternative Materials
- 4c: Environmental Impact

Module 5 **Specialist Pavements**
- 5a: Airfield Pavements
- 5b: Heavy Industrial Pavements
- 5c: Unsealed or Thinly Surfaced Roads

Module 6 **Geotechnics, Structures and Drainage**
- 6a: Earthworks
- 6b: Bridges and Culverts
- 6c: Drainage

Module 7 **Railway Engineering**
- 7a: Construction and Maintenance
- 7b: Track Design and Analysis
- 7c: Railway Operations

Module 8 **Management and Policy**
- 8a: Asset Management
- 8b: Traffic Management
- 8c: Transport Policy

+ **Dissertation** on topic chosen by student from within the subject areas covered by the course

Course Structure

The course comprises 8 15-credit taught modules and a 60-credit dissertation, as follows:

September – December:	Modules 1-4
January:	Examinations
February – May:	Modules 5-8
May/June:	Examinations
June-August:	Dissertation

Part-time students must take all eight modules but may spread them over 2 or 3 years. Modules 2, 3 and 5 have to be taken in order; other modules can be taken in any year. Dissertation work may be carried out throughout the study period.

Module Delivery

Each module will be delivered in one week of intensive teaching and student-centred learning. This will be separated from the following module (or exam period) by at least 2 weeks, during which further student-centred learning, coursework and dissertation work can be carried out.

Structure of Teaching Week

Monday:	Lectures – sub-module a
Tuesday:	Lectures – sub-module b
Wednesday:	Student-centred learning
Thursday:	Lectures – sub-module c
Friday:	Student-centred learning

Module Assessment

Module assessment will be 50% by examination and 50% by coursework. Coursework will be project-based, for example designing a highway scheme, evaluating a material or reporting on environmental impact.

Dissertation

This will comprise a major report on an agreed topic. The report may be based on laboratory or field work or a desk study as appropriate to the topic. There will be an initial project planning phase, which will be assessed separately and which is worth 10 of the 60 credits.