**SECTION 1: KEY PROGRAMME DETAILS**

| PART A: PROGRAMME INFORMATION | |
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| **Highest Award** | MSc Transport |
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| **Interim Award** | PGCert Transport |
| **Interim Award** | PGDip Transport |

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| **Awarding Institution** | UWE Bristol |
| **Teaching Institution** | UWE Bristol |
| **Delivery Location** | Frenchay Campus |
| **Study Abroad / Exchange / Credit Recognition** | Placement X<br><br>Sandwich Year X<br><br>Credit Recognition X<br><br>Year Abroad X |
| **Faculty Responsible For Programme** | Faculty of Environment & Technology |
| **Department Responsible For Programme** | FET Dept of Geography & Envrnmental Mgmt |
| **Professional Statutory or Regulatory Body (PSRB) Links** | Chartered Institute of Logistics and Transport (CILT) |
| **Professional Statutory or Regulatory Body (PSRB) Links** | Joint Board of Moderators |
| **Professional Statutory or Regulatory Body (PSRB) Links** | Royal Town Planning Institute (RTPI) |
| **Professional Statutory or Regulatory Body (PSRB) Links** | Transport Planning Professional |
| **Apprenticeships** | |
| **Mode of Delivery** | Full-time |

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| ENTRY REQUIREMENTS | UCAS Tariff Points:<br><br>For the current entry requirements see the UWE public website. |
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| **For Implementation From** | 1 Sep 2018 |
| **ISIS Code/s** | Programme Code  K4NA12-SEP-FT-FR-K46512<br><br>Other codes:<br>JACS<br>HECoS<br>UCAS<br>SLC |

## SECTION 2: PROGRAMME OVERVIEW, AIMS and LEARNING OUTCOMES

### PART A: PROGRAMME OVERVIEW, AIMS and LEARNING OUTCOMES

#### 1. (Programme) Overview (c. 400 words)

The MSc Transport, which allows students to mix taught modules across both pathways. The university will not pursue accreditation for this programme.

The course offers a year-long master's programme, with a two to three year part-time route and a flexible 'module gathering' option. It prepares students for, or supports students already working in, transport planning and/or engineering in a wide range of jobs including in local or central government, private and third sectors both in the UK and internationally.

#### 2. Educational Aims (c. 4-6 aims)

The general aims of the programme are:

To provide a coherent programme of advanced study in transport, underpinned by staff research, consultancy and scholarship, in which all staff members are engaged.

To provide a programme related to the needs of professional practice, that enables students to become effective transport practitioners.

To provide a programme that is academically challenging and encourages students to develop the capacity for critical thought and action.

To offer varied study patterns in order to broaden access to the programme (flexible part-time study through the module gathering option);

Specific Aims

To analyse the complex relationships between transport and society;

To apply the concept of sustainability to spatial development and transport planning;

To use techniques of analysis of transport systems at an advanced level, drawing on an understanding of demand management and the role of different modes of transport.

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## PART A: PROGRAMME OVERVIEW, AIMS and LEARNING OUTCOMES

To identify and evaluate policy and funding mechanisms in the context of current and emerging transport issues in the UK, the European Union, and beyond;

To design and conduct rigorous research.

To develop additional transferable skills in communication, presentation and the management of learning.

### 3. Programme and Stage Learning Outcomes  (c. 6-8 outcomes)

**Programme (Learning) Outcomes (POs)**

#### Knowledge and Understanding

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| A1 | The role and significance of transport in a modern economy and society. |
| A2 | The nature and significance of problems and solutions which arise from the demand for movement by people and of goods. |
| A3 | The concept of sustainability within a global, national and local context and its application to transport planning. |
| A4 | The policy, political and practical constraints on the conduct of research in a transport context. |
| A5 | The mechanisms and systems of spatial planning. |
| A6 | Engineering principles as applied to the design of transport infrastructure . |
| A7 | The principles of network management. |

#### Intellectual Skills

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| B1 | Identify problems and to apply appropriate techniques in the investigation of problems, and to deal with complexity and with gaps and contradictions within the knowledge base. |
| B2 | Plan strategies and tactics in response to unusual and unexpected situations. |
| B3 | Synthesise information and create and evaluate new approaches in the resolution of complex problems. |
| B4 | Apply theory to the practical resolution of complex problems. |
| B5 | Reflect on own educational progress and professional practice. |
| B6 | Design and implement a research proposal in response to complex problems. |
| B7 | Apply appropriate quantitative methods to the analysis of complex transport planning or engineering problems. |

#### Subject/Professional Practice Skills

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| C1 | Design solutions to complex transport planning problems on the basis of analysis and through the application of comparative study. |
| C2 | Evaluate and justify alternative approaches to transport problems and to accurately assess and report on own/others work. |
| C3 | Demonstrate an awareness of the ethical dilemmas likely to arise in research and professional practice. |
| C4 | Apply modelling techniques in the analysis of transport problems. |
| C5 | Design, develop and write appropriate plans for a range of spatial scales in a range of sectors. |
| C6 | Use skills of negotiation, mediation, and  advocacy in the planning process. |
| C7 | Design key elements of transport networks, used by different modes. |
| C8 | Design transport infrastructure. |

## PART A: PROGRAMME OVERVIEW, AIMS and LEARNING OUTCOMES

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| C9 | Apply GIS to problems of transport design and planning. |

**Transferable Skills and other attributes**

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| D1 | Engage in a full professional and academic communication with others in the transport and planning fields, and with non-specialist audiences, through presentations and writing. |
| D2 | Demonstrate authority in study and use of resources and make professional use of others in support of self-directed learning. |
| D3 | Work effectively as a member of a team. |
| D4 | Apply computing techniques to the creation of complex databases, to the analysis of data, and the application of quantitative models. |

## PART B: Programme Structure

### 1. Structure

**Year 1**

**Year 1 Compulsory Modules**

| Code | Module Title | Credit | Type |
|---|---|---|---|
| UBGM8P-15-M | Changing Travel Behaviour 2020-21 | 15 | Compulsory |
| UBGM8M-15-M | Transport Economics and Appraisal 2020-21 | 15 | Compulsory |
| UBGM8Q-15-M | Transport Policy and Finance 2020-21 | 15 | Compulsory |

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| UBGM8N-15-M | Travel Demand Analysis 2020-21 | 15 | Compulsory |

**Year 1 Compulsory Project Module Choices**
Students must choose one of the following modules:

| Code | Module Title | Credit | Type |
|------|-------------|--------|------|
| UBLLY7-60-M | Dissertation 2020-21 | 60 | Optional |
| UBGMRK-60-M | Masters Project 2020-21 | 60 | Optional |

**Year 1 Optional Modules**
Students choose 60 credits from the following modules:

Students can take either:
UBGMN3-30-M Plan Making
or BOTH of the following:
UBGLWP-15-M Sustainable transport management and operations.
UBGMU4-15-M Introduction to Applied Geographical Information Systems.

| Code | Module Title | Credit | Type |
|------|-------------|--------|------|
| UBGMP3-30-M | Implementation and Design Quality 2020-21 | 30 | Optional |
| UBGMU4-15-M | Introduction to Applied Geographical Information Systems (GIS) 2020-21 | 15 | Optional |
| UBGMN3-30-M | Plan Making 2020-21 | 30 | Optional |
| UBGLWP-15-M | Sustainable Transport Management and Operations 2020-21 | 15 | Optional |
| UBGMLK-15-M | Traffic Engineering 2020-21 | 15 | Optional |
| UBGMFX-15-M | Transport Infrastructure Engineering 2020-21 | 15 | Optional |

## PART C: Higher Education Achievement Record (HEAR) Synopsis

Graduates of MSc Transport are able to:

Analyse the complex relationships between transport and society, including the dimension of social justice.

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## PART C: Higher Education Achievement Record (HEAR) Synopsis

Apply the concept of sustainability to spatial development and transport planning.

Analyse transport systems at an advanced level, drawing on an understanding of demand management and the role of different modes of transport.

Identify and evaluate policy and funding mechanisms in the context of current and emerging transport issues in the UK, the European Union, and beyond.

Demonstrate the potential to be effective transport planning practitioners.

## PART D: EXTERNAL REFERENCE POINTS AND BENCHMARKS

The existing programme is accredited by the Transport Planning Society (Transport Planning Professional), the Chartered Institute of Logistics and Transport and the Royal Town Planning Institute (RTPI).

The programme is designed to be consistent with the qualifications descriptors set out in the National Qualification Framework (August 2008) issued by the Quality Assurance Agency for Higher Education.

The programme responds, and will look to deliver in coming years, against the goals and priorities of the UWE vision and mission and the UWE strategic plan for the period 2007-2012. Particular attention is to be given in the short to medium term towards making the programme's curriculum more international in its outlook, and to enhancing the student experience.

Staff research and consultancy interests and expertise

The University of the West of England's Centre for Transport and Society (CTS) is recognized as one of the UK's leading transport research centres.  It has continued to generate research income from government, European and research council sources, even through periods of recession.  All of the teaching staff are research active, and they make a substantial contribution to the Faculty's input to the REF exercise.

Employer feedback Competitor Analysis and Market Research Overseas

A review of similar and related courses provided by other universities in the UK was undertaken in 2013, before the MSc Transport Engineering and Planning pathway was validated.  We also conducted a survey of transport employers within the Southwest region, and a focus group in Ahmedabad, India. These indicated strong support and potential demand for the MSc Transport Engineering and Planning option. Indeed, applications have risen nearly threefold for the second intake on the programme in September 2015 as compared with its previous first year of operation. We have expanded the Industrial Advisory Board of the Civil Engineering Group to include two senior representatives from the regional transport industry to help us continue close collaboration in respect of our transport teaching.

## PART E: REGULATIONS

Approved to University Regulations and Procedures.

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