

Part 1 Programme details

Proposed title	BSc (Hons) in Sustainable Transport Management (TU814)
Current title and code	DT028 BSc (Hons) in Transport Operations and Technology
Mode and duration of programme	Four years full-time
ECTS	240
TU Dublin award(s) sought	Bachelor of Science in Sustainable Transport Management
Classifications of award(s)	First Class Honours; Second Class Honours, First Division; Second Class Honours, Second Division; Pass
School responsible	School of Transport Engineering, Environment and Planning
Professional body accreditation and relevant dates (where applicable)	Professional accreditation/recognition shall be sought from appropriate professional bodies once approved.
External provider type (where applicable)	NA
Delivery location	TU Dublin

Part 2 Programme approval information

Date of review event	19th December 2019 (first event)/ 12th January 2021
Date of approval by Academic Council and Governing Body	
Proposed date of commencement	September 2021

Part 3 Programme background/structure

Background

The programme, to be renamed BSc (Hons.) in Sustainable Transport Management, is a multi-disciplinary programme, which aims to provide a professional degree qualification in transportation operations management, nationally and internationally. The programme is intended for those who wish to gain the skills and knowledge in the management, operations and technology associated with road, rail, marine and aviation transport. It aims to produce

graduates with appropriate skillsets and a competent understanding to enable them to apply best practice in the development, operation and management related to the freight and passenger transport sector. The programme content is grounded in the principle of management, operations, technology and sustainability. It critically considers current national and international best practices and policies and ethical dimensions. The competent transport graduate requires innovative tools and techniques but also awareness of the impacts of modes of transport on the economy and the environment. It is an engaged programme and allows students to connect with industry through active learning and participation and ethical awareness. Students are required, within the programme, to participate in a relevant placement in the transport sector and to undertake independent research.

Stated learning outcomes of the programme (see Part 6, Recommendations of the Panel)

- (a) Knowledge and understanding of the management of multimodal transport systems, sustainable transport and logistics operations, smart and emerging transport technologies and skillsets and graduate attributes for the professional transport practitioner.
- (b) Ability to identify, formulate and solve broadly defined problems in the context of sustainable transport management.
- (c) Ability to understand and critique the role of sustainability and the United Nations Sustainable Development Goals in the context of sustainable transport management.
- (d) Ability to analyse and develop solutions of broadly-defined problems within the transport sector.
- (e) Understanding of the need for high ethical standards in the practice of sustainable transport management, including the responsibilities of the transport profession towards society, the economy and the environment.
- (f) Ability to work effectively as an individual, in teams and in multi-disciplinary settings together with the capacity to undertake lifelong learning.
- (g) Ability to communicate effectively within the transport sector and with society at large.

Programme structure

The programme is delivered full-time over four years. A total of 30 ECTS is assigned to the work placement in semester two of year 3 and 15 ECTS is assigned to the dissertation in year 4.

Entry Requirements (see Part 6, Recommendations of the Panel)

The following are the entry requirements to the programme:

- the required minimum points as deemed by the Central Applications Office;
- an ability to demonstrate professional experience in the transport sector in the area of operations and/or technology or a related discipline will be considered an advantage, and;
- in the case of international applicants, a minimum overall IELTS (or equivalent) score of no lower than 6.0.

Graduates of appropriate Level Seven programmes may enter the programme at an advanced stage, either at year 3, or year 4 for those who graduated with a Distinction of Merit Upper Division/Grade One.

Student assessment

In accordance with TU Dublin's General Assessment Regulations.

Derogations from the General Assessment Regulations, including rationale for derogation and view of the Panel:

None sought

Part 4 Review Details and Membership of Panel

Schedule of meetings – first meeting of the Panel

**Thursday 19th December 2019 Venue: Boardroom (2nd floor), TU
Dublin Bolton Street**

09.30 am	Introductory meeting between Panel, Head and Assistant Head of School of Transport Engineering, Environment and Planning, Chairperson and members of Programme Committees as appropriate. Presentation from School.
10.00 am	Private meeting of Panel to discuss agenda.
11.00 am	Panel meets with Director and Dean of the College of Engineering & Built Environment.
11.15 am	Meeting with Head, Assistant Head of School, Chairperson and appropriate members of the Programme Committee, to discuss specific issues raised by the Panel.
12.15 pm	Meeting of Panel with staff teaching on both programmes to discuss such matters as syllabi, teaching methods and assessment issues.
1.15 pm	Panel meets with group of current students and graduates of the BSc (Hons) in Transport Operations and Technology.
1.45 pm	Lunch

- 2.15 pm Private meeting of Panel to consider draft reports.
- 4.00 pm Final meeting of Panel with Head, Assistant Head of School of Transport Engineering, Environment and Planning, Programme Chair and other staff as appropriate.

Schedule of meetings – second meeting of the Panel

Tuesday 12 January 2020 (via Microsoft Teams)

- 09.30 am Introductory meeting between Panel, Head of School of Transport Engineering, Environment & Planning and Assistant Head of School.
- 10.00 am Private meeting of the Panel, to identify outstanding matters for discussion with the School.
- 10.30 am Meeting of the Panel with the Head of School, Assistant Head of School, Programme Chair and teaching staff as appropriate.
- 11.30 am Private meeting of Panel.
- 12.00 pm Panel reports back to School on its findings.

Panel Membership

External Members

Mick Curran CEO, Chartered Institute of Transport and Logistics

Dr Michael J O'Mahony Head of Department, Process, Energy and Transport Engineering, Cork Institute of Technology

Internal Members

Dr Sharon Feeney (Chair) Academic Liaison to TU Team, College of Business, TU Dublin - City

Deborah Brennan School of Multidisciplinary Technologies, TU Dublin - City

Dr John Colleran School of Chemical & Pharmaceutical Sciences, TU Dublin - City

Quality Assurance Office

Documentation submitted

The Panel received Background Information in relation to the programme and the Student Handbook which included module descriptors. For the second meeting, the Panel received the Student Handbook, Supporting Documentation for the Programme, Dissertation Guidelines and Logbook, and Work Placement Handbook.

Part 5 Summary of Panel findings against key questions

Note: the Panel's findings (ie yes/no) and any additional comments against each of the key questions should be recorded below. Where a 'no' is recorded, an associated condition or recommendation should be included in Part 6, Findings of the Panel.

Is the market demand and need for the programme clear and articulated?	Yes
Are the aims, objectives and learning outcomes of the programme well-founded and clearly formulated?	See condition of the Panel
Are the entry requirements clear and appropriate?	See condition of the Panel
Are the arrangements for access, transfer and progression in accordance with University policy and NFQ?	Yes, see recommendation regarding impact of exemptions in final year.
Are the programme learning outcomes at the appropriate level as set out by the NFQ requirements?	See condition of Panel
Do the individual modules 'add up' to a coherent programme?	Yes
Are Graduate Attributes embedded within the programme?	Yes
Will the accumulation of the module learning outcomes result in the attainment of the programme learning outcomes?	Yes
Is there appropriate use of student-centred learning, teaching and assessment strategies, including the First Year Framework for Success checklist, which recognise the needs of diverse student groups?	Yes
Do the curricula and teaching schemes in each module descriptor give realisable substance to the module's aims, objectives and learning outcomes?	Yes
Are the assessment methods and criteria aligned to the learning outcomes in each module?	See condition of Panel.
Are facilities and resources, including staff, in place to support the delivery of the programme at the standard proposed?	Yes

Is there parity between off-campus/on-campus delivery (if applicable)?	NA
Are the roles and responsibilities of each partner clearly specified (if applicable)?	NA

Part 6 Recommendations of the Panel

The Panel is pleased to recommend approval of the Bachelor of Science in Sustainable Transport Management to Academic Council, at Level Eight on the National Framework of Qualifications, subject to five conditions and with five recommendations.

The Panel had agreed at its first meeting in December 2019 that it was not able at that stage to recommend continuing approval of the programme. It did agree that it would issue an interim report to provide guidance to the Programme Team and that it would reconvene at a later stage to consider revised proposals. It advised that the Programme Team should use this as an opportunity to reboot the programme thereby strengthening the position of the programme in the transport sector and ensuring the long-term success and viability of the programme.

The Panel reconvened in January 2021 to consider revised documentation. It is highly impressed with the work undertaken by the Programme Team to transform the programme. It also supports the proposed new title for the programme – BSc in Sustainable Transport Management.

Conditions

1. The programme learning outcomes should follow the NFQ award-type descriptor template.
2. The entry requirements should be revised to refer to the minimum entry requirements, ie Leaving Certificate passes, rather than the Leaving Certificate points.
3. A mapping process between module learning outcomes and assessment methods should be undertaken to ensure that learning outcomes evolve and advance throughout the programme, and this alignment should be more evident within module descriptors, reflecting the increasing complexity of the learning expected.
4. Module learning outcomes should be revised to include more appropriate terminology/verbs that are measurable, following guidelines available from the LTTC.
5. GDPR should be included explicitly in the Data Management and Analytics module descriptor.

Recommendations

1. The Panel is impressed by how sustainability is embedded throughout the latter stages of the programme. It recommends that in the early stages of the programme the spirit of sustainability should be further embedded and made explicit within the module descriptors.
2. The Panel recommends that the Programme Team keep under review the final year modules, particularly the appropriateness of their delivery within one semester.
3. It should be stated within the Student Handbook how any modules for which exemptions are obtained impact upon the calculation of the final award classification
4. The School should liaise with CILT to explore the School becoming an approved Transport Management provider
5. The Programme Team should proofread the documentation thoroughly to ensure consistency and accuracy throughout, eg dissertation guidelines and work placement handbook.