Introduction
The Postgraduate Certificate in Implementation Science course has been designed to improve the knowledge and skills of health, social care and education professionals who have responsibility for implementation of policies, programmes or projects in the area of Implementation Science. This internationally accredited course includes contributions from leading policymakers, senior managers and researchers in health, social care and education systems in Ireland and the US thus ensuring a practical focus and equipping participants with the skills and theoretical understanding needed to implement policies, programmes and interventions effectively in a rapidly changing environment. Particular emphasis is placed on the importance of interdisciplinary exchange within small group settings. Case studies and class discussion will facilitate the application of learning. The course is designed to cater for the needs of EU and non-EU students. The Course is a Level 9 course on the National Framework of Qualifications.

Course Aims
1. To impart the core theory of IS to health, social care and education practitioners and to support the application of IS in the health, social care and domains of practice.
2. To analyse the factors enabling or impeding implementation in a variety of settings.
3. To foster multi-disciplinary learning in an academic setting where the multi-disciplinary and multi-organisational backgrounds of the students will be developed as a source of learning.
4. To provide a firm foundation for those who wish to undertake research in IS.

Intended Students
Prospective students must be graduates in a health or social care-related discipline with at least 3-4 years professional experience. Other applications may be considered in exceptional circumstances based on workplace experience. Short-listed applicants may be interviewed if it is not possible to make a decision based on the online application. Candidates from within and outside the EU will be eligible for enrolment onto each course, providing their primary degree is from a recognised institution.

Applications for admission to the course will be made online at: http://www.tcd.ie/courses/graduate/az/course.php?id=DPCMD-isci-1P09. The closing date for applications for entry to the course will be 31st July 2018. However, late applications will be considered if places are available.

Course Structure and Timetable
The course is a taught programme, delivered over one academic year between September and May comprising 30 ECTS credits in a total of six modules:

- Core Elements of Implementation Science Part 1 (5 credits)
- Core Elements of Implementation Science Part 2 (5 credits)
- Information for implementation-using data to drive the implementation agenda (5 credits)
- Managing People in Organisations - Management and organisation behaviour (5 credits)
- Managing people in Organisations - Human resources management in implementation (5 credits)
- Project Management (5 credits)

Each module is typically three days duration (Wednesday/Thursday/Friday) and consists of a combination of formal face-to-face teaching sessions, workshops and interactive practical sessions. Some modules may consist of on-line (blended) learning. Completion of each module is obligatory. Students are recommended to attend all of the taught modules.

Course Content

Module 1: Core Elements of Implementation Science
This module introduces the aims and objectives of the course. It will introduce students to the core elements of Implementation Science, both theory and practice. It will expose students to a number of different implementation frameworks and strategies and to real life case studies of implementation in health and social services.

Module 2: Core Elements of Implementation Science
This module exposes students to further implementation frameworks and provides an opportunity for critical analysis of their usefulness in health, social care or educational settings.

Module 3 Information for implementation-using data to drive the implementation agenda
This module introduces the vital role of data, information, and knowledge to drive change and improvement throughout an implementation cycle. The theory and practice of the systematic use of data, information, and knowledge sources and systems will be explored; from how these can be used to set a change agenda, assist in the exploration of options and harnessing of knowledge to drive improvement and innovation. The module will address how to assess evidence, measure implementation outcomes, and evaluation. Students will have the opportunity to apply measurement tools to a workplace-based project.

Module 4: Managing People in Organisations - management and organisation behaviour
This module will describe organisational behaviours common to most organisations and provide insights into the role of managers and leaders in organisations. The synergistic relationship between individual and group behaviour and organisational culture is central to the module. Its aim is to ensure that participants fully appreciate the role, scope and importance of strategically managed organisations and to make the connection with relevant implementation frameworks.

Module 5: Managing People in Organisations - human resources management in implementation
The HRM module will focus on key drivers for implementation including selection and coaching of staff and implementation teams. Leading expert Dr Alison Metz from US National Implementation Research Network will, in part, deliver this module.

Module 6: Project Management
This module focuses on the principles and practices of project, programme and portfolio management and business process design within an implementation context. Key examples will be provided by the module coordinator. A number of different project management frameworks will be applied to real life examples of project management within public and private sectors. Students will have the opportunity to apply a project management framework to a workplace-based project.

Course Venue
The course will be run in the newly developed Trinity College Institute of Population Health in Tallaght.

Course Materials
Comprehensive course materials will be circulated electronically via an interactive web-based learning facility (Blackboard) for each module. Students will be expected to provide their own computer for online access. In addition, students will be provided with pre-module reading before each of the taught modules. The students will be expected to review all material provided and to study the reading lists contained in the course materials. Assignments for each module must be completed by each student and returned within the designated time frame. Late assignments will be subject to penalties.

Tuition Fees
Postgraduate fee schedule for 2018/2019 is available from:
https://www.tcd.ie/academicregistrar/fees-payments/course-fees/
Course Administration

The course is coordinated by the Department of Public Health and Primary Care at TCD and delivered in collaboration with the Centre for Effective Services (CES). CES is an independent organisation that connects policy, practice and research, helping to ensure the implementation of effective services, to improve the lives of people across the island of Ireland.

Professor Catherine Hayes, Course Director
Professor Catherine Hayes, Associate Professor in Public Health Medicine, has overall responsibility for the Postgraduate Course. She previously served a four-year term as Course Coordinator. She works with the HSE in her practitioner role on the implementation of the national obesity and physical activity strategies and is a member of the National Clinical Advisory Board on Obesity. She was successful in being selected for the highly competitive Training in Dissemination and Implementation Research Programme in the US in 2016. Her research addresses the development, implementation and evaluation of interventions addressing behavioural risk factors in prevention of chronic diseases using IS methodologies. She is Principal Investigator for a major Health Research Board funded trial on a community-based smoking cessation for disadvantaged women which involves the Irish Cancer Society, HSE and other university partners.

Professor Catherine Darker, Course Coordinator
Professor Catherine Darker, Assistant Professor in Health Services Research, is responsible for the day-to-day running of the course. She has over a decade of extensive experience in the implementation of applied research into policy and practice at local and national level within the health service and other bodies such as third level institutions, local authorities, charity and non-governmental organisations. She is particularly active in the areas of prevention and management of chronic disease. Her research focuses on process and outcome evaluation of programmes and services, and also the design, implementation and evaluation of behavioural change interventions of the major chronic diseases. She is a Health Psychologist by training.

Ms Katie Burke CES
Katie Burke is a Senior Manager at the Centre for Effective Services (CES) and is actively involved in the design and delivery of the course. Katie has a particular interest in implementation science and led CES’s work to establish an All-island Implementation Network and is a board member of the European Implementation Collaborative. Katie oversees much of CES’s work supporting policy makers in Ireland to implement significant reform programmes. Prior to joining CES in 2009, Katie was a management consultant in Ireland and France, providing strategic consultancy to government departments and agencies, and community and voluntary organisations across the health, social care and education sectors.

Professor Joe Barry, Course Committee Chair
Professor Joe Barry is Professor of Population Health Medicine. He was significantly involved in the organisation of a very successful Implementation Academy at TCD in 2015, held in association with the 3rd Global Implementation Conference in Dublin. He is an active member of national and international implementation networks. He has attracted considerable research funding in relation to substance misuse (drugs and alcohol) and has extensive research outputs relating to same. This has enhanced the research profile within the health services and has facilitated collaboration between the HSE and research activities in TCD.

Course Executive Officer
Ms Ailbhe Mealy is the Course Administrator. All enquiries to: amealy@tcd.ie.