Postgraduate Diploma (PgDip) in Smart Buildings and Digital Engineering (SBDE) Programme Structure

Term 1

Core Knowledge

- Building systems physics (15 credits) BENV0084
- Engineered environmental elements (15 credits) BENV0085
- Integrated Building Design for Health and Well-being (15 credits) BENV0055
- Building systems modelling (15 credits) BENV0086

Integrated Building Design and Operation

Option Modules

- Optional module 1 (15 credits)
- Optional module 2 (15 credits)

Advanced Methods

- Building systems development and operation (15 credits) BENV0087
- Integrated building systems simulation (15 credits) BENV0088

- Red lines connect modules which either complement each other or follow a logical progression.
- Four Study areas: Fundamentals (Green), Integrated Design and Operation (Yellow), Advanced Methods (Orange), Directed Learning (Blue).
- The structure is arranged so that lectures can be scheduled so both part-time and modular/flexible students can attend on a one day per week basis.

Full-time Students: | Part-time/Modular students: (one day per week basis)
---|---
Term 1: Day 1: BENV0084 & BENV0085 | Term 1, Day 1: BENV0084 & BENV0085
Day 2: BENV0055 & BENV0086 | Term 2, Day 1: Optional Modules 1 and 2
Term 2: Day 1: BENV0087 & BENV0088 | Term 1, Day 2: BENV0055 & BENV0086
Day 2: Optional Modules 1 and 2 | Term 2, Day 2: BENV0087 & BENV0088

Modular/flexible students: Devise a study plan in consultation with the programme director.

- Optional Modules: Students choose two from the list of seven optional modules (depending upon availability):
  - Indoor Air Quality in Buildings
  - Light, Lighting and Wellbeing in Buildings
  - Multi-Objective Design Optimisation
  - Building Acoustics
  - Post-Occupancy Evaluation
  - Low-Energy Housing Retrofit
  - Mathematical Modelling Methods for the built environment

Information correct for the 2019/20 academic year