PgDip ADVANCED HYDROGRAPHY FOR PROFESSIONALS

**Level 4** EHYD101
An Introduction to Hydrography and the Marine Environment
- Studying effectively at a distance
- Introduction to marine charts
- Introduction to hydrography
- Introduction to meteorology
- Introduction to oceanography
10 credits

**Level 7**

**EHYD501**
Advanced Nautical Science for Hydrography
- Navigation, charting, seamanship
- Projections & grids, datums
- Earth observation, satellite remote sensing
- ENC & ECDIS
- Types of survey, IHO specifications
- Ship behaviour
- Research methods 1
20 credits

**EHYD502**
Sensors & Underwater Acoustics
- Acoustic theory and propagation
- Transducers
- Single beam, sidescan, multibeam
- Corrections & calibrations
- Non-acoustic techniques
- Marine environment
20 credits

**EHYD503**
Advanced Practical Techniques in Hydrography 1 (residential)
- Advanced mathematics
- Safety and seamanship
- Navigation and boat handling
- Assessed practical survey and activities
- Practical survey afloat
- Teamwork and management
20 credits

**EHYD504**
Earth Science & Positioning
- Advanced geodesy
- Advanced geology and geophysics
- Coastal processes & sedimentation
- Satellite positioning
- Horizontal and vertical positioning
- Sensors
- Errors
20 credits

**EHYD505**
Hydrographic Survey Practice & Management
- Creating specifications & tender documents
- Survey planning
- Data management
- Legal/Law of Sea
- Marine management, ICZM, EIA
- Research methods 2
20 credits

**EHYD506**
Advanced Practical Techniques in Hydrography 2 (residential)
- 1 week e-learning preparation (non residential)
- 2 weeks residential:
  - Survey planning
  - Data management
  - Marine management, ICZM, EIA
- 4 weeks on-going practical work (non residential):
  - Processing and presentation
20 credits

**Key to levels:**
- 4: Degree level Yr 1 (Certificate)
- 4: Level 4/5 bridging module*
- 7: Masters level
- P: Practical residential

* = Additional bridging modules to be studied depending on students' qualifications and experience.

Please see DipHE Hydrography for Professionals syllabus for details of module content.