Hydrographic Applications (CEGE0045)

Description
The course covers the technology and procedures used in the acquisition of data in the marine environment, and its subsequent processing and analysis. In particular, it covers single and multi-beam echo sounding, side scan sonar, electronic charting, underwater position fixing, and offshore operations. Teaching is led by the Port of London, and practical implementation is emphasised where possible.

In the context of this module, the marine environment encompasses everything from ports and harbours, through navigable rivers and estuaries, out to coastal and deep sea oceanic work. The aim is to give you a thorough knowledge of the technology and methods used in all these areas. More specifically, through work carried out aboard PLA survey vessels on additional boat days you will gain practical working experience of bathymetric surveying and electronic chart production. You will also gain an understanding of topics such as seismic surveying, rig moves, ROV operations and positioning. You will also explore regulatory issues such as the Law of the Sea and its impact on maritime zones and boundaries.

Key information
- **Year**: 2019/20
- **Credit value**: 15 (150 study hours)
- **Delivery**: PGT L7, Campus-based
- **Reading List**: View on UCL website
- **Tutor**: Dr Jonathan Iliffe
- **Term**: Term 2
- **Timetable**: View on UCL website

Assessment
- Coursework: 80%
- Other Departmentally Managed: 20%

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