Jade University Wilhelmshaven/Oldenburg/Elsfleth Department of Maritime and Logistics Studies

M.Sc. International Maritime Management (IMM)



Learning Unit: IMM0704 – Human Factors in Shipping

| Semester | Frequency | Duration | Туре | ECTS points | Student workload | |
|----------|------------|----------|----------|-------------|--|--|
| 3 | Semesterly | 1 Sem. | Elective | 6 | 150 hours, comprising contact hours: 6 h self study: 144 h | |

| Prerequisites for participation | Utility | Examination type and duration (Prerequisite for transferal of ECTS) | Teaching and learning methods | Unit coordinator |
|---------------------------------|--------------|--|--|---------------------------|
| - | M.Sc. IMM | Course achievement (Studienleistung): computer test; Examination (Prüfungsleistung): home assignment | Course book, self study, discussion in bulletin board | Dr. Benjamin P. Brooks |

Learning objectives

Upon completion of this learning unit, students are able to ...

- identify human factors issues in the marine environment and assess an appropriate response.
- complete a task analysis for a complex task.
- examine a marine accident and disseminate the causes using a theoretical model of accident causation.
- identify a human factors issue in the shipping industry, explore the scope of the problem from the perspective of the socio-technical system that shipping occurs within and devise a solution.

Unit contents

- Introduction to Human Factors
- History of Human Factors in the maritime world
- Accident Investigation
- Beyond Accident Investigation Engineering resilience
- The Individual Part 1 Physiology, Anthropometry and Cognition
- The Individual Part 2 Error, Stress and Performance
- The Team Teamwork, Leadership, Communication & Shared Mental Models
- The Organisation Part 1 Organisational and Safety Culture.
- The Organisation Part 2 Risk Management & Safety Management Systems

| Lectures | | | | | |
|------------------------|---------------------------|----------------|--|--|--|
| Lecturer(s) | Name of learning unit | Weekly lessons | | | |
| Dr. Benjamin P. Brooks | Human Factors in Shipping | - | | | |