

**Learning Unit: IMM03 – Enterprise Information Management**

Semester	Frequency	Duration	Type	ECTS points	Student workload
1	Semesterly	1 Sem.	Mandatory	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	Prof. Dr. Andreas Stern

**Learning objectives**

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

- analyse and visualise maritime business processes.
- integrate modelling tools into operational planning.
- know and apply the principles of a good programming style.
- understand the principles and problems of programming.
- design and develop automated solutions for their operational practice.
- understand and customize third party programming solutions.
- identify business transactions and apply scientific methods for their description.
- model maritime business processes and use them to present an informed opinion.

**Unit contents**

- System Analysis: theoretical knowledge of scientific methods for business process modelling; practical application of the structured analysis method, flow charts, sequence diagrams, function trees and data structure diagrams.
- System Development: basics of an event based user interface and programming techniques; practical tasks with “Visual Basic for Applications; development of forms and user defined functions.

**Lectures**

Lecturer(s)	Name of learning unit	Weekly lessons
Prof. Dr. Andreas Stern	Enterprise Information Management	-