



Course Description

Institute: Maritime Postgraduate Studies Institute

Program: Doctorate of Maritime Transport Technology

1- Course Data		
Course Code: MPI 803	Course Title: Research Data Management	Academic : 3 Chr.
Specialization: Doctorate	No. of Instructional Units : 13	

2- Course Aim	This course aims to provide researchers with the process of controlling information generated during a research project. However, How data is managed depends on the types of data involved, how data is collected and stored, and how it is used - throughout the research lifecycle. This course also aims to provide researcher with information on how to organize research files and data for easier access and analysis. Couse helps to ensure the quality of the research. It supports the published results of the work and, in the long term, helps to ensure accountability in data analysis.
3- Intended Learning Outcome:	
a- Knowledge and Understanding, students will be able to:	<ol style="list-style-type: none"> 1. Understand data collection techniques. 2. How to conduct a visibility study 3. How to carry out SWOT analysis. 4. Designating the responsibilities of every individual involved in the study. 5. Implementing the data management plan. 6. Deciding how data will be dealt with through each modification of the study.
b- Intellectual Skills, students will be able to:	<ol style="list-style-type: none"> 1. Understand creative thinking and problem solving techniques. 2. Use risk management and route causes techniques. 3. Create Data Modeling - Conceptual, Logical, and Physical Data Models
c- Professional Skills, students will be able to:	<ol style="list-style-type: none"> 1. define the materials covered in a data management plan 2. Create Data Planning - outlines steps to take before beginning a research project 3. Data Management - describes procedures



	<p>for organizing and controlling research data.</p> <ol style="list-style-type: none"> 4. Data Security - provides considerations for data access and long-term data stability. 5. Data Sharing - explains why sharing research data is important
d- General Skills, students will be able to:	<ol style="list-style-type: none"> 1. Classify data collected 2. Determining how data will be stored and backed up.
4- Course Content	<p>Week No.1 Introduction to creative thinking and problem solving techniques.</p> <p>Week No.2 Creative thinking and problem solving techniques.</p> <p>Week No.3 Risk Management and route causes. (1)</p> <p>Week No. 4 Risk Management and route causes. (2)</p> <p>Week No.5 Research Data - defines the materials covered in a data management plan</p> <p>Week No.6 Data Planning - outlines steps to take before beginning a research project</p> <p>Week No.7 7th Week Evaluation (Research Essay)</p> <p>Week No.8 Data collection and classification</p> <p>Week No.9 Visibility studies techniques</p> <p>Week No.10 SWOT analysis techniques.</p> <p>Week No.11 Questionnaire techniques</p> <p>Week No.12 12th Week Evaluation Seminar presentation</p> <p>Week No.13 Data Management - describes procedures for organizing and controlling research data.</p> <p>Week No.14 Data Security - provides considerations for data access and long-term data stability</p> <p>Week No. 15 Data Sharing - explains why sharing research data is important</p> <p>Week No.16 Final Evaluation- Research Essay</p>
5- Teaching and Learning Methods	<p>A mixture of lectures, tutorials, exercises, and case studies are used to deliver the various topics in this subject, some of which are covered in a problem-based format, thereby enhancing the learning objectives. Others are covered through directed study in order to enhance the students' ability of "learning to learn."</p>



6- Teaching and Learning Methods for Students with Special Needs	A mixture of lectures, tutorials, exercises, and case studies are used to deliver the various topics in this subject, some of which are covered in a problem-based format, thereby enhancing the learning objectives by using Office hours and Additional Follow up.
7- Student Assessment:	
a- Procedures used:	<ol style="list-style-type: none"> 1. Participation 2. Assignments 3. Presentations 4. Case Study 5. Quiz 6. Written Exams 7. Workshop
b- Schedule:	Assessment (1) Mid Assessment (2) 12 th Assessment (3) 16 th .
c- Weighing of Assessment:	7 th Week Examination , 12 th Week Examination , Final-term Report Writing , Oral seminar exam , Practical Examination , Semester Work , Total 100%
8- List of References:	
a- Course Notes	<ul style="list-style-type: none"> • Power point slides of lectures • Documents such as reports, case studies
b- Required Books (Textbooks)	Mercury, (2013), "Research Data Management in practice", project solutions, Last viewed on the following mail address: (http://www.and.s.org.au/datamanagement/data-management-practice-guide.pdf)
c- Recommended Books	Eynden, et al.(2011), "Managing and Sharing Data", UK Data Archive, Last viewed on the following web address: http://www.data-archive.ac.uk/media/2894/managingsharing.pdf
d- Periodicals, Web Sites, ..., etc.	The Maritime Economist Marine Policy - Journal – Elsevier

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