

Course Description

Institute: Maritime Postgraduate Studies Institute

Program: Doctorate of Maritime Transport Technology

| 1- Course Data | | | | |
|-------------------------------|---|-----------------|--|--|
| Course Code: MPI 801 | Course Title: Research Methodology and Applications | Academic: 3Hrs. | | |
| Specialization: Common | No. of Instructional Units:13 | | | |

| 2- Course Aim | The primary aims of this course are to develop a | | |
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| | research orientation among the scholars and to | | |
| | acquaint them with fundamentals of research | | |
| | methods. Specifically, the course aims at | | |
| | introducing them to the basic concepts used in research and to scientific social research methods | | |
| | and their approach. It includes discussions on | | |
| | sampling techniques, research designs and | | |
| | techniques of analysis. | | |
| 3- Intended Learning Outcome: | | | |
| a- Knowledge and Understanding, | To develop understanding of the framework | | |
| students will be able to: | of research process. | | |
| | • To develop an understanding of various | | |
| | research designs and techniques. | | |
| | • To identify various sources of information | | |
| | for literature review and data collection. | | |
| | for interactive review and data confection. | | |
| b-Intellectual Skills, students will be | Graduates are scientifically competent in | | |
| able to: | solving problems logically, analytically and | | |
| | creatively based on sound facts and ideas. | | |
| c- Professional Skills, students will be | • To develop an understanding of the ethical | | |
| able to: | dimensions of conducting applied research. | | |
| d-General Skills, students will be able | Appreciate the components of scholarly | | |
| to: | writing and evaluate its quality. | | |
| | Be familiar with the research project co- | | |
| | ordination and applications | | |
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| 4- Course Content | Week No.1 Introduction to research – The role of | | |
| | research, research process overview | | |
| | Week No.2 Philosophies and the language of | | |
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Development and Review of Post Graduate Courses Procedure

| 10 1 GQMB 2 | KCVISIUII IIU 1.U | | Graduate Courses Procedure |
|--------------------------|-------------------|--|---|
| | r | esearch theo | ory building – Science and its |
| | | functions, what is theory? and The meaning of | |
| | | methodology | |
| | | | |
| | 1 | Week No.3 Thinking like a researcher – | |
| | | Understanding Concepts, Constructs, Variables, | |
| | | and Definition | |
| | | | Problems and Hypotheses – Defining |
| | | | problem, Formulation of the research |
| | | • 1 | The importance of problems and |
| | | nypotheses | |
| | | | Research design – Experimental and |
| | | - | nental research design, Field research, |
| | | and Survey r | |
| | | | Methods of data collection – |
| | | - | ata collection methods, qualitative |
| | | methods of d of data collec | lata collection, and Survey methods |
| | | | ction 7 th Week Evaluation |
| | | | Attitude measurement and scaling – |
| | | | asurement scales; Questionnaire |
| | | • 1 | Reliability and Validity |
| | | | Sampling techniques – The nature of |
| | | | obability sampling design, Non- |
| | | | ampling design, Determination of |
| | 1 - | sample size | amping design, betermination of |
| | | 1 | Processing and analysis of data |
| | | | Ethical issues in conducting research |
| | | | 12 th Week Evaluation |
| | 7 | Week No.13 | Report generation, report writing, |
| | 8 | and APA for | mat – Title page, Abstract, |
| | | | Methodology, Results, Discussion, |
| | | | and appendices |
| | | | Research project generation, report |
| | | _ | APA format – Title page, Abstract, |
| | | | Methodology, Results, Discussion, |
| | | | and appendices Week |
| | | | Final Evaluation |
| 5- Teaching and Learnin | | | f lectures, tutorials, exercises, and |
| | | | are used to deliver the various topics |
| | | | ct, some of which are covered in a |
| | | - | sed format, thereby enhancing the |
| | | | ectives. Others are covered through |
| | | | dy in order to enhance the students' earning to learn." |
| 6- Teaching and Learnin | | • | f lectures, tutorials, exercises, and |
| o- reaching and Learling | | | are used to deliver the various topics |
| | | case studies | are asea to deriver the various topics |

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Doc. No.: PGQMS 2 Revision no.: 1.0

Development and Review of Post Graduate Courses Procedure

| Students with Special Needs 7- Student Assessment: | 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. |
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| a- Procedures used: | Participation Assignments Presentations Case Study Quiz Written Exams Workshop |
| b- Schedule: | Assessment (1) Mid Assessment (2) 12 th Assessment (3) 15 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 | Power point slides of lecturesDocuments such as reports, case studies |
| b- Required Books (Textbooks) | S. Rajasekar, (2013), "RESEARCH METHODOLOGY", Bharathidasan University, last viewed on the following web address: http://arxiv.org/pdf/physics/0601009.pdf |
| c- Recommended Books | C.R. Kothari (2004), "Methodology – methods and techniques", Second revised edition, New Age international Publishers, Last viewed on the following web address: http://www2.hcmuaf.edu.vn/data/quoctuan/Rese arch%20Methodology%20-%20Methods%20and%20Techniques%202004.p df |
| d- Periodicals, Web Sites,, etc. | |

Vice Dean for Educational Affairs Name & Signature:

Date:20/1/2015

Institute Dean Name & Signature: Date:20/1/2015

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