

1. MO18-5101 Research Methodology

Module name	Research Methodology
Module level, if applicable	Master
Code, if applicable	MO18-5101
Subtitle, if applicable	-
Course, if applicable	Research Methodology
Semester	1 st Semester
Person responsible for the module	Suntoyo, S.T., M.Eng., Ph.D.
Lecturer	Suntoyo, S.T., M.Eng., Ph.D. Silvianita, S.T., M.Sc., Ph.D.
Language	Indonesian
Relation to curriculum	Mandatory course for master degree program in Ocean Engineering, 1 st semester.
Type of teaching, contact hours	Lecture, <50 students 100 minutes x 16 weeks per semester
Workload	1. Class, $2 \times 50' = 100$ minutes per week 2. Independent Study, $2 \times 60' = 120$ minutes per week 3. Structured Activities, $2 \times 60' = 120$ minutes per week
Credit points	2 Credits ~ 3.2 ECTS CREDITS $\times$ 1.6 ECTS
Requirements according to the examination regulations	A student must have attended at least 80% of the lectures to sit in the exams.
Recommended prerequisites	-

Learning outcomes and their corresponding PLOs	CLO.1. Able to understand the nature of research CLO.2. Able to find research ideas to thesis and write to proposal CLO.3. Able to write proposal and research report well according to scientific rules CLO.4. Able to write journal to be submitted in a seminar or journal CLO.5. Able to present research result in a seminar	LO.1. Able to show the moral, ethical, responsibility and good personality in completing their duties LO.3. Able to propose complex designs and analyze them using logical thinking by considering standards, codes, rules, regulations, and recommended practices
Content	In this course, the students will learn to know the conditions of an activity called a scientific activity or research. Furthermore, be able to express idea in research framework, and make a good thesis proposal. The result of this course is that Able to prepare thesis proposal and plan a research schedule and are able to present the proposal well.	
Study and examination requirements and forms of examination	 In-class exercise  Assignment  Mid-term exam  Final exam	
Media employed	Offline: LCD, whiteboard, PowerPoint presentation Online: websites (myITS Classroom), Zoom, Microsoft Teams, PowerPoint presentation	
Reading list	1. Michaelson, H.B. "How to Write and Publish Engineering Papers and Reports", Third Edition, Oryx Press, 1990 2. Singh, Y.K., "Fundamental of Research Methodology and Statistics" Education - 2006 - 322 pages 3. Bock, P., "Getting It Right: R&D Methods for Science and Engineering" Academic Press, 2001, 406 pages. 4. Direktorat Akademik ITS, "Buku Pedoman Penyusunan tesis program Studi Magister", ITS Press, 2018.	

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Bahan Kajian	Dalam mata kuliah ini mahasiswa akan mempelajari pokok-pokok bahasan sebagai berikut: 1. Definisi riset/penelitian dan syarat penelitian 2. Bahasa penulisan ilmiah 3. Bentuk dan struktur tulisan ilmiah 4. Menyusun kerangka (komposisi) proposal tesis 5. Abstrak penelitian 6. Latar belakang masalah dalam suatu penelitian 7. Merumuskan masalah dan tujuan penelitian 8. Kajian pustaka dan dasar teori 9. Teknik sitasi dengan menggunakan Metode Harvard 10. Merumuskan metode dan langkah-langkah penyelesaian masalah 11. Teknik pengambilan kesimpulan 12. Merencanakan jadwal kegiatan penelitian 13. Menyusun paper untuk seminar/jurnal 14. Teknik presentasi dan seminar hasil penelitian 15. Seluk beluk peraturan Tesis DTK
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<i>Study Materials</i>	<i>The students will get the following materials:</i> <i>1. Definition of research and the requirements</i> <i>2. The language of scientific writing</i> <i>3. The form and structure of scientific writing</i> <i>4. Prepare the framework (composition) of the thesis proposal</i> <i>5. Research abstracts</i> <i>6. Background of the problem in research</i> <i>7. Formulating research problems and objectives</i> <i>8. Literature review and theoretical basis</i> <i>9. Citation technique using the Harvard Method</i> <i>10. Formulate methods and steps for solving problems</i> <i>11. Conclusion drawing technique</i> <i>12. Planning a schedule of research activities</i> <i>13. Prepare papers for seminars/journals</i> <i>14. Presentation techniques and seminars on research results</i> <i>15. Thesis regulations of Ocean Engineering Department</i>
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CPL yang dibebankan MK	1. Mampu menunjukkan moral, etika, tanggung jawab dan kepribadian yang baik dalam menyelesaikan tugasnya 2. Mampu mengusulkan desain yang kompleks dan menganalisisnya menggunakan pemikiran logis dengan mempertimbangkan standar, kode, aturan, regulasi, dan praktik yang direkomendasikan
PLO	1. <i>Able to show the moral, ethical, responsibility and good personality in completing their duties</i> 2. <i>Able to propose complex designs and analyze them using logical thinking by considering standards, codes, rules, regulations and recommended practices</i>
CP-MK	1. Mahasiswa mampu memahami hakikat penelitian pemilihan metodologi penelitian dan merancang penelitian 2. Mahasiswa mampu menemukan ide penelitian untuk Tesis dan menuangkannya dalam proposal. 3. Mahasiswa mampu menulis proposal dan laporan penelitian dengan baik sesuai dengan kaidah ilmiah. 4. Mahasiswa mampu memahami strategi penulisan jurnal nasional, prosiding seminar internasional bereputasi dan Jurnal internasional bereputasi. 5. Mahasiswa mampu mempresentasikan hasil penelitian dalam seminar
CLO	1. <i>Able to understand the nature of research, selection of research methodology, and how to plan research.</i> 2. <i>Able to find research ideas to thesis and write to proposal.</i> 3. <i>Able to write proposal and research report well according to rules and regulations.</i> 4. <i>Able to write journal to be submitted in a seminar or journal.</i> 5. <i>Able to present research result in a seminar.</i>

Perte- muan <i>Meeting</i>	Kemampuan Akhir Sub CP-MK <i>Final Ability</i>	Keluasan (materi pembelajaran) <i>Extent (learning material)</i>	Metode Pembelajaran <i>Learning methods</i>	Estimasi Waktu <i>Duration</i>	Bentuk Evaluasi <i>Evaluation Type</i>	Kriteria dan Indikator Penilaian <i>Assessment Criteria and Indicators</i>	Bobot Penilaian <i>Scoring</i>
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1	Memahami dan mampu menjelaskan pengertian penelitian (riset) dan nilai pentingnya <i>Able to understand and explain the definition of research</i>	Pengertian penelitian (riset) dan nilai pentingnya <i>Definition of research and its core</i>	Paparan, diskusi, contoh <i>Lecture, discussion, and example</i>	2 × 50'	Pertanyaan-pertanyaan langsung di kelas <i>Questions in class</i>	Ketepatan dan kedalaman dalam memberikan definisi uraian/ penjelasan tentang penelitian (riset) dan nilai pentingnya <i>The ability in providing a definition about research and its core</i>	
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2	Mahasiswa mampu membangkitkan ide dan strategi penyusunan keterbaruan sebuah penelitian <i>Able to come up with research idea and strategy to create the novelties of a research</i>	Membangkitkan ide penelitian <i>Generating research ideas and strategy to create the novelties of a research</i>	Paparan, diskusi, contoh <i>Lecture, discussion, and example</i>	2 × 50'	Pertanyaan-pertanyaan langsung di kelas dan tugas <i>Questions in class and assignments</i>	Ketepatan dan kedalaman dalam membangkitkan ide penelitian <i>Accuracy to generate research ideas and the strategy to create the novelties of a research</i>	
3	Mahasiswa mampu mengenal dan memahami metodologi penelitian dan strategi pilihannya. <i>Able to identify and understand the research methodology, also strategy to select the appropriate method.</i>	Metodologi penelitian dan strategi pilihannya <i>Research methodology, also strategy to select the appropriate method.</i>	Paparan, diskusi, contoh <i>Lecture, discussion, and example</i>	2 × 50'	Tugas kuliah <i>Assignment</i>	Ketepatan dalam Identifikasi masalah, merumuskan masalah dan tujuan <i>Accuracy to identify and understand the research methodology, also strategy to select the appropriate method.</i>	

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4	Mahasiswa mampu memanfaatkan Basis Data E-Journal dan Sitasi untuk penyusunan Proposal dan penulisan makalah <i>Able to make use of e-journal and citation database for the proposal and paper writing.</i>	Pemanfaatan Basis Data E-Journal dan Sitasi untuk penyusunan Proposal dan Penulisan makalah <i>Utilization of e-journal and citation database for the proposal and paper writing.</i>	Paparan, diskusi, contoh <i>Lecture, discussion, and example</i>	2 × 50'	Pertanyaan-pertanyaan langsung di kelas <i>Questions in class</i>	Ketepatan dalam Pemanfaatan Basis Data E-Journal dan Sitasi untuk penyusunan Proposal dan Penulisan makalah. <i>Accuracy to make use of e-journal and citation database for the proposal and paper writing.</i>	
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5	Mahasiswa mampu memahami Teknik Penyusunan Proposal thesis dan proyek riset <i>Able to understand the technique of preparing thesis proposals and research projects</i>	Teknik penyusunan Proposal thesis dan proyek riset <i>The technique of preparing thesis proposals and research projects</i>	Paparan, diskusi, contoh <i>Lecture, discussion, and example</i>	2 × 50'	Tugas kuliah <i>Assignment</i>	Ketepatan dalam menyusun Proposal thesis dan proyek riset <i>Accuracy to prepare the thesis proposals and research projects</i>	
6	Mahasiswa mampu memahami teknik dan strategi data processing <i>Able to understand the technique and strategy to data processing</i>	Pemilihan teknik dan strategi data processing <i>Selection of technique and strategy to data processing</i>	Paparan, diskusi, contoh <i>Lecture, discussion, and example</i>	2 × 50'	Tugas kuliah mengevaluasi abstrak <i>Assignment to evaluate abstracts</i>	Ketepatan dalam pemilihan teknik dan strategi data processing <i>Accuracy in selection of technique and strategy to data processing</i>	

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7	Mahasiswa mampu memahami teknik dan strategi penulisan seminar internasional dan jurnal internasional bereputasi <i>Able to understand the techniques and strategies of writing international seminars and reputable international journals</i>	Teknik dan strategi penulisan seminar internasional dan jurnal internasional bereputasi <i>The techniques and strategies of writing international seminars and reputable international journals</i>	Paparan, diskusi, contoh <i>Lecture, discussion, and example</i>	2 × 50'	Tugas kuliah <i>Assignment</i>	Ketepatan dalam mengkritisi penelitian sebelumnya <i>Accuracy to the techniques and strategies of writing international seminars and reputable international journals</i>	
8	Evaluasi Tengah Semester <i>Mid Semester Evaluation</i>						
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9	Mahasiswa mampu mengidentifikasi masalah, merumuskan masalah dan tujuan <i>Able to identify problems, formulate problems, and objectives</i>	Mendefinisikan Problem/Masalah Penelitian <i>Defining research problems</i>	Paparan, diskusi, contoh <i>Lecture, discussion, and example</i>	2 × 50'	Tugas kuliah <i>Assignment</i>	Ketepatan dan kedalaman dalam Identifikasi masalah, merumuskan masalah dan tujuan <i>Accuracy to identify problems, formulate problems, and objectives</i>	

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10	Mahasiswa mampu membedakan kajian pustaka dan dasar teori <i>Able to differentiate critical review and background theory</i>	Pedoman Penulisan Karya Ilmiah <i>Defining research Guide to scientific writing</i>	Paparan, diskusi, contoh <i>Lecture, discussion, and example</i>	2 × 50'	Tugas kuliah <i>Assignment</i>	Kedalaman dalam mengelaborasi dan penelusuran studi pustaka Ketepatan dalam mengambil sitasi suatu referensi. <i>Depth in elaborating and browsing literature review. Accuracy in citation of references.</i>	
11	Mahasiswa mampu merencanakan konsep (metode) dalam menyelesaikan masalah dan tujuan penelitian. <i>Able to plan research method to solve the problems and objectives</i>	Anatomi Proyek Penelitian: Metodologi Penelitian <i>Anatomy of research project: Research Methodology</i>	Paparan, diskusi, contoh <i>Lecture, discussion, and example</i>	2 × 50'	Tugas kuliah <i>Assignment</i>	Ketetapan mengambil metode untuk meyelesaikan masalah yang telah dirumuskan <i>Accuracy to choose the method to solve formulated problems</i>	

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12	Mahasiswa mampu mengambil/menarik kesimpulan dari serangkaian kegiatan penelitian <i>Able to draw conclusion from research activity</i>	Anatomi Proyek Penelitian: Evaluasi dan Rekomendasi <i>Anatomy of research project: Evaluation and Recommendation</i>	Paparan, diskusi, contoh <i>Lecture, discussion, and example</i>	2 × 50'	Tugas menyusun proposal <i>Assignment: Thesis proposal</i>	Ketepatan antara tujuan dan kesimpulan yang diambil. <i>Accuracy to draw conclusion from objectives</i>	
13	Mahasiswa mampu merencanakan dan menjadwalkan serangkaian kegiatan penelitian <i>Able to plan and schedule research activity</i>	Contoh Proposal <i>Example of proposal</i>	Paparan, diskusi, contoh <i>Lecture, discussion, and example</i>	2 × 50'	Tugas <i>Assignment</i>	Ketepatan waktu dalam menyelesaikan penelitian <i>Accuracy to finish the research on time</i>	

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14	Mahasiswa mampu memahami Etika Akademisi dan Plagiarism <i>Able to write paper for publishing in scientific journal or seminar</i>	Etika Akademisi dan Plagiarism <i>Academic ethics and plagiarism</i>	Paparan, diskusi, contoh <i>Lecture, discussion, and example</i>	2 × 50'	Tugas <i>Assignment</i>	Kedalaman dalam merangkum hasil penelitian dalam suatu paper <i>Depth to summarize research result in a paper</i>	
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15	Mahasiswa mampu menyiapkan materi untuk presentasi dalam suatu forum ilmiah. <i>Able to prepare presentation material to be presented in a scientific conference</i>	Teknik Presentasi <i>Presentation technique</i>	Paparan, praktik, presentasi <i>Lecture, practice, presentation</i>	2 × 50'	Presentasi di depan kelas <i>Presentation in front of class</i>	Ketetapan penyusunan materi terhadap alokasi yang disediakan dalam suatu forum ilmiah <i>Ability to summarize material presentation within the given time in scientific conference</i>	
16	Evaluasi Akhir <i>Final Evaluation</i>						

PUSTAKA/REFERENCES:

1. Michaelson, H.B. "How to Write and Publish Engineering Papers and Reports", Third Edition, Oryx Press, 1990
2. Singh, Y.K., "Fundamental of Research Methodology and Statistics" Education - 2006 - 322 pages
3. Bock, P., "Getting It Right: R&D Methods for Science and Engineering" Academic Press, 2001, 406 pages.

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