

**MODULE HANDBOOK**  
**RESEARCH**  
**METODOLOGY**



**BACHELOR DEGREE PROGRAM**  
**DEPARTEMENT OF STATISTICS**  
**FACULTY OF SCIENCE AND DATA ANALYTICS**  
**INSTITUT TEKNOLOGI SEPULUH NOPEMBER**

## ENDORSEMENT PAGE



# MODULE HANDBOOK RESEARCH METODOLOGY DEPARTMENT OF STATISTICS INSTITUT TEKNOLOGI SEPULUH NOPEMBER

Proses <i>Process</i>	Penanggung Jawab <i>Person in Charge</i>			Tanggal <i>Date</i>
	Nama <i>Name</i>	Jabatan <i>Position</i>	Tandatangan <i>Signature</i>	
Perumus <i>Preparation</i>	Dra. Wiwiek Setya Winahju, M.S.	Dosen <i>Lecturer</i>		March 28, 2019
Pemeriksa dan Pengendalian <i>Review and Control</i>	Dra. Wiwiek Setya Winahju, M.S. ; Dra. Madu Ratna, M.Si ; Wibawati, S.Si, M.Si	Tim kurikulum <i>Curriculum team</i>		April 15, 2019
Persetujuan <i>Approval</i>	Prof. NUR Iriawan	Koordinator RMK <i>Course Cluster Coordinator</i>		July 17, 2019
Penetapan <i>Determination</i>	Dr. Kartika Fithriasari, M.Si	Kepala Departemen <i>Head of Department</i>		July 30, 2019

# MODULE HANDBOOK

## MATRICES

Module name	RESEARCH METODOLOGY	
Module level	Undergraduate	
Code	KS184618	
Course (if applicable)	RESEARCH METODOLOGY	
Semester	Sixth Semester	
Person responsible for the module	Dra. Wiwiek Setya Winahju, M.S.	
Lecturer	Dra. Wiwiek Setya Winahju, M.S. ; Dra. Madu Ratna, M.Si ; Wibawati, S.Si, M.Si	
Language	Bahasa Indonesia and English	
Relation to curriculum	Undergraduate degree program, <b>mandatory</b> , 6 <sup>th</sup> semester.	
Type of teaching, contact hours	Lectures, <50 students	
Workload	<ol style="list-style-type: none"> <li>1. Lectures : 3 x 50 = 150 minutes per week.</li> <li>2. Exercises and Assignments : 3 x 60 = 180 minutes (3 hours) per week.</li> <li>3. Private learning : 3 x 60 = 180 minutes (3 hours) per week.</li> </ol>	
Credit points	3 credit points (sks)	
Requirements according to the examination regulations	A student must have attended at least 80% of the lectures to sit in the exams.	
Mandatory prerequisites	-	
Learning outcomes and their	<ol style="list-style-type: none"> <li>1. <i>Able to compile equal research proposals Thesis;</i></li> <li>2. <i>Can identify research descriptions and statistical methods to analyze problems in the fields of business and industry, social and population, environment and health, economics and finance, and computing.</i></li> </ol>	PLO-03 PLO-04 PLO-05 PLO-06 PLO-07 PLO-08 PLO-09

Content	<p><i>Research Methodology is one of the expertise courses that are part of the field of study in the Statistical Modeling course family. The purpose of studying Research Methodology is that students are able to understand concepts and methodologies in scientific research, especially the stages in research in the field of applied statistics, and can apply them to a real problem in society. Through this course, it is hoped that students will have a learning experience to think critically and be able to make the right decisions about the stages in carrying out scientific research that is appropriate for a problem and its solution. The learning strategy used is discussion and practice as well as the task of making a research proposal.</i></p>
Study and examination requirements and forms of examination	<ul style="list-style-type: none"> <li>• In-class exercises</li> <li>• Assignment 1, 2, 3</li> <li>• Mid-term examination</li> <li>• Final examination</li> </ul>
Media employed	LCD, whiteboard, websites (myITS Classroom), zoom.
Reading list	<ol style="list-style-type: none"> <li>1. FMIPA-ITS. 1996. Pedoman Kerja Praktek dan Tugas Akhir.</li> <li>2. Kemenristek Dikti. 2016. Panduan PKM. Jakarta.</li> <li>3. Sekaran, U., 2006. Metodologi Penelitian untuk Bisnis. Buku 1. Edisi 4. Diterjemahkan oleh Universitas Indonesia. Jakarta: Salemba Empat.</li> <li>4. Sekaran, U., 2006. Metodologi Penelitian untuk Bisnis. Buku 2. Edisi 4. Diterjemahkan oleh Universitas Indonesia. Jakarta: Salemba Empat.</li> <li>5. Vanderstoep SW and Johnston D.D. 2009. Research Methods for Everyday Life: Blending Qualitative and Quantitative Approaches. San Francisco: A Wiley Imprint 989 Market Street.</li> </ol>

<b>Bahan Kajian</b> <i>Study Materials</i>	
<b>CPL yang dibebankan MK</b> <i>PLO</i>	<p>CPL-3 Mampu menganalisis data dengan metode statistika yang tepat dan mengintepretasikannya  CPL-4 Mampu mengidentifikasi,memformulasi, dan menyelesaikan masalah statistika di berbagai bidang terapan  CPL-6 Memiliki pengetahuan tentang isu terkini dan mendatang yang berkaitan dengan bidang statistika dan sains data  CPL-7 Mampu berkomunikasi secara efektif dan bekerjasama dalam tim yang interdisiplin dan multidisiplin  CPL-8 Memiliki tanggung jawab dan etika profesi  CPL-9 Mampu memotivasi diri untuk berpikir kreatif dan belajar sepanjang hayat</p> <p><i>CPL-3 Able to analyze data with appropriate statistical methods and interpret them  CPL-4 Able to identify, formulate, and solve statistical problems in various applied fields  CPL-6 Have knowledge of current issues and upcoming related to the field of statistics and science of data  CPL-7 Ability to communicate effectively and work together in teams of interdisciplinary and multidisciplinary teams  CPL-8 Have responsibility and professional ethics  CPL-9 Able to motivate yourself to creative thinking and lifelong learning</i></p>
<b>CP-MK</b> <i>CLO</i>	

<b>Perte- muan</b> <i>Meeting</i>	<b>Kemampuan Akhir Sub CP-MK</b> <i>Final Ability</i>	<b>Keluasan (materi pembelajaran)</b> <i>Extent (learning material)</i>	<b>Metode Pembelajaran</b> <i>Learning methods</i>	<b>Estimasi Waktu</b> <i>Duration</i>	<b>Bentuk Evaluasi</b> <i>Evaluation Type</i>	<b>Kriteria dan Indikator Penilaian</b> <i>Assessment Criteria and Indicators</i>	<b>Bobot Penilaian</b> <i>Scoring</i>
	<b>ETS</b>						
	<b>EAS</b>						