

2023

MODULE DESCRIPTION

BACHELOR PROGRAM
AGRICULTURAL ENGINEERING
FACULTY OF AGRICULTURE
HASANUDDIN UNIVERSITY
2023



Research Methodology

Semester 4

Module designation	<i>Research Methodology</i>
Semester(s) in which the module is taught	<i>IV</i>
Person responsible for the module	<i>Prof. Dr. Ir. Junaedi Muhidong, M.Sc Dr. Iqbal, STP., M.Si Ir. Helmi A. Koto, M.Si Diyah Yumeina RD, STP., M.Agr., Ph.D</i>
Language	<i>Indonesia</i>
Relation to curriculum	<i>Compulsory</i>
Teaching methods	<i>Lecture</i>
Workload (incl. contact hours, self-study hours)	<i>(Estimated) Total workload: 2 SKS x 1.7 = 3.4 ECTS = 91.8 hours</i> <ul style="list-style-type: none"> • <i>Lecture = 23.3 hours</i> • <i>Excercise = 28 hours</i> • <i>Sel study = 28 hours</i> • <i>Exam = 4 hours (MID term and final)</i> • <i>Exam preparation = 8.5 hours</i>
Credit points	<i>2 SKS = 3.4 ECTS</i>
Required and recommended prerequisites for joining the module	-
Module objectives/intended learning outcomes	<i>ILO 2: demonstrate capacity for life-long learning in agricultural engineering profession. ILO 4: use quantitative analysis, information technology and critical thinking in agricultural engineering profession ILO 9: analyze the impact of engineering solutions to the environment and society using a multidisciplinary approach; ILO 10: explore and develop effective solutions related to agricultural engineering issues.</i>
Content	<i>This subject aims to introduce the concept of and scientific research theory to students and to equip students with the ability in conducting scientific research. Topics to be Discussed in this course including Identification research problems, formulation of hypothesis questions and research, literature review, Data collection techniques, data analysis (parametric and non- statistical analysis parametrics), and report writing.</i>
Examination forms	<i>Writing and oral exam</i>
Study and examination requirements	<i>Attendance above 80%</i>

Reading list	<p><i>Nana Sudjana 2013. Guidelines for the Preparation of Scientific Work: Papers, Thesis, Thesis, Dissertation. Fourteenth Printing. Bandung: Sinar Baru Algensindo</i></p> <p><i>Riswandha Imawan, 1996. Research Methodology. Post Graduate UNTAG. Surabaya</i></p> <p><i>Totok Djuroto and Bambang Suprijadi, 2013, Writing Articles and Scientific Works. Sixth Printing. Bandung: Teen Rosdakarya.</i></p>
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