

Modul Description

Module name	Course Module
Module level, if applicable	Bachelor of Electronics Engineering
Code, if applicable	5215-xxx-x
Subtitle, if applicable	-
Course, if applicable	Mechanics and Electronics Workshop
Semester(s) in which the module istaught	I
Person responsible for the module	Lecturer of course
Lecturer	
Language	Indonesian Language [Bahasa Indonesia]
Relation to Curriculum	This course is a compulsory course and offered in the 1 st semester.
Type of teaching, contact hours	<p>Teaching methods used in this course are:</p> <ul style="list-style-type: none"> - Lecture (i.e., group investigation, small group discussion, casestudy, and video based learning) - Structured assignments (i.e., essays and case study) - Practice (i.e., computer simulation and case study in laboratory) <p>The class size for lecture is 30 students. Contact hours for lecture is 27 hours, assignments is 32 hours</p>
Workload	<p>For this course, students required to meet a minimum of 91 hours in one semester, which consist of:</p> <ul style="list-style-type: none"> - 27 hours for lecture, - 32 hours for structured assignments, - 32 hours for private study
Credit points	2 credit points (equivalent with 3.0 ECTS)
Requirements according to the examination regulations	Students must have attended all classes and submitted all class assignments that are scheduled before the final tests.
Recommended prerequisites	Students must have attended all classes and submitted all class assignments that are scheduled before the final tests.

<p>Module objectives/intended learning outcomes</p>	<p>After completing the course and given with this case:</p> <p>Course Learning Objectives (CLO1): Mahasiswa mampu memahami macam-macam peralatan tangan dan mesin (K1) (10)</p> <p>Course Learning Objectives (CLO2): Mahasiswa mampu menerapkan penggunaan dan perawatan peralatan tangan dan mesin (K1, S1, S3, C1) (30)</p> <p>Course Learning Objectives (CLO3): Mahasiswa mampu memahami peraturan, norma, standar dan sistem keselamatan kerja (K1) (10)</p> <p>Course Learning Objectives (CLO4): Mahasiswa mampu merancang alat/peralatan untuk keperluan Teknik Elektronika (A2, K1, S1, S3, C1) (50)</p> <p>Program Learning Outcomes (PLO2): Menerapkan ilmu-ilmu dasar untuk memecahkan masalah teknik elektronika</p> <p>Program Learning Outcomes (PLO3): Menerapkan kompetensi teknik elektronika untuk memecahkan masalah keteknikan</p> <p>Program Learning Outcomes (PLO4): Untuk melakukan keterampilan manajerial, komunikasi yang efektif dan membangun kerja tim dalam karir profesional.</p> <p>Program Learning Outcomes (PLO5): Bertindak secara bertanggung jawab, etika profesi dan kesadaran kesehatan dan keselamatan kerja.</p> <p>Attitude (2): Untuk berkolaborasi sebagai sebuah tim, berkomunikasi secara efektif baik lisan maupun tulisan dalam lingkungan akademik dan profesional.</p> <p>Knowledge (K1): Menerapkan matematika, ilmu dasar dan teknik dasar untuk merancang dan menganalisis untuk memecahkan masalah di bidang teknik elektronika.</p> <p>Engineering and Education Skill (S1): Mampu merancang prinsip dan aplikasi sistem rekayasa elektronik</p> <p>Engineering and Education Skill (S3): Mampu mencari alternatif solusi dan pemecahan masalah di bidang teknik elektronika.</p> <p>Competence (C1): Menerapkan teknologi baru di bidang rekayasa dengan</p>
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	mempertimbangkan standar teknis, aspek kinerja, keandalan, penerapan, dan keberlanjutan
Content	Students will learn about: Introduction to electrical circuit, passive and active component/devices, Ohm law, Kirchoff law, circuit theorem, basic circuit analysis method, and general circuit analysis method (nodal and mesh equation).
Forms of Assessment	Assessment is carried out based on written examinations, assessment/evaluation of the learning process and performance with the following components: Structured tasks: 20% ; Quiz 10% ; Mid Test : 35% Final Test: 35%
Study and examination requirements and forms of examination	Study and examination requirements: <ul style="list-style-type: none"> - Students must attend 15 minutes before the class starts. - Students must switch off all electronic devices. - Students must inform the lecturer if they will not attend the class due to sickness, etc. - Students must submit all class assignments before the deadline. - Students must attend the exam to get final grade. Form of examination: Written exam: Essay
Media employed	Direct Whiteboard and Power Point Presentation.
Reading list	