

## 2023 MODULE DESCRIPTION

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BACHELOR PROGRAM AGRICULTURAL ENGINEERING FACULTY OF AGRICULTURE HASANUDDIN UNIVERSITY 2023

## **Farm Electrification Practicum**

## Semester 4

Farm Electricfication Practicum IV Muhammad Tahir Sapsal, STP., M.Si Muhammad Rizal, S.TP., M.Si Indonesia Compulsory Practicum (Estimated) Total workload: 1 SKS x 1.7 = 1.7 ECTS = 45.9 hours • Lecture = 11.6 hours • Excercise = 14 hours • Sel study = 14 hours • Sel study = 14 hours • Exam preparation = 4.3 hours 1 SKS = 1.7 ECTS
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Basic physics
Farm Electricfication
ILO 3: apply knowledge of mathematics, sciences, and engineering principles in
agricultural fields;
ILO 5: use techniques, skills, and modern tools necessary for agricultural engineering practices;
This practicum introduces students to electrical codes and rules and discusses low voltage transmission (220 V and 380 V), AC and DC sources, DC circuits, 1- and 3-phase AC, testing procedures, methods of calculating electrical power requirements and power correction factors, electrical installation methods, load distribution (electric heaters, electric motors, lighting). This course includes laboratory practice for 1 and 3 phase AC electrical installations for electric motors, lighting and lamps.
Writing and Oral exam
Completation of all laboratory reports
Bovay, H.E 1981. Handbook of Mechanical and Electrical Systems for Buildings. McGraw-Hill Book Company Lister, E.C. 1980. Electric Circuits and Machine. McGraw-Hill Book Company. Mullin, R.C and R.L. Smith, 1992. Electrical Wiring Commercial. Sixth Edition. Delmar Publishing Inc. Seidman, A.H., H. Mahrous, and T.G. Hicks 1983. Handbook of Electric Power Calcularions. McGrawHill Book Company. Turner, W.C. 1982. Energy Management Handbook. Jonh Wiley & Son. New York.
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