HASANUDDIN UNIVERSITY

Agricultural Engineering
Bachelor Program

2023
MODULE
DESCRIPTION

BACHELOR PROGRAM
AGRICULTURAL ENGINEERING
FACULTY OF AGRICULTURE
HASANUDDIN UNIVERSITY
2023

Food Process Engineering Practicum

Semester 5

Module designation	*Food Processing Engineering Practicum*
Semester(s) in which the module is taught	*V*
Person responsible for the module	*Dr. Ir. Supratomo, DEA* *Prof. Dr. Ir. Salengke, M.Sc* *Prof. Dr. Ir. Mursalim*
Language	*Indonesia*
Relation to curriculum	*Compulsory*
Teaching methods	*Lab works*
Workload (incl. contact hours, self-study hours)	*(Estimated) Total workload:* *1 SKS = 1.7 ECTS = 45.9 hours (1 ECTS around 27 hours)* *> Laboratory session = 12 hours* *> Lab report = 30 hours* *> Virtual experiment = 1 hours* *> Final examination = 2.5 hours*
Credit points	*1 SKS = 1.7 ECTS*
Required and recommended prerequisites for joining the module	*Food ProcessingTechnology* *Heat Transfer*
Module objectives/intended learning outcomes	*ILO 3: Apply knowledge of mathematics, sciences, and engineering principles in agricultural fields; (Knowledge 1)* *ILO 4: Use quantitative analysis, information technology and critical thinking in agricultural engineering profession; (Knowledge 2)* *ILO 5: Use techniques, skills, and modern tools necessary for agricultural engineering practices; (Skill 1)* *ILO 7: Manage and utilise agricultural resources effectively, efficiently, and sustainably; (Competence 1)* *ILO8: demonstrate capacity in operating agricultural engineering related business either as producer or service provider; (Competence 1)*
Content	*At the end of the lesson, students are expected to be able to:* • *Explain food processing techniques in each operating unit to get optimal results.* • *Applying the principles of physics and engineering to food processing.* • *Complete calculations either manually or by using a computer program.*
Examination forms	*Writing and oral exam*
Study and examination requirements	*Completion all the report practicum*
Reading list	• *Singh, R. P. and Dennis R. Heldman. 2009. Introduction to Food Engineering 4th ed. Academic Press. San Diego..*