HASANUDDIN UNIVERSITY

Agricultural Engineering
Bachelor Program

2023
MODULE
DESCRIPTION

BACHELOR PROGRAM
AGRICULTURAL ENGINEERING
FACULTY OF AGRICULTURE
HASANUDDIN UNIVERSITY
2023

Computer Programming

Semester 5

Module designation	*Computer Programming*
Semester(s) in which the module is taught	*V*
Person responsible for the module	*• Prof. Dr. Ir. Ahmad Munir, M.Eng* *• Dr. Suhardi, STP., MP* *• Ir. Helmi A. Koto, M.Si*
Language	*Indonesia*
Relation to curriculum	*Compulsory*
Teaching methods	*Lecture*
Workload (incl. contact hours, self-study hours)	*(Estimated) Total workload:* *2 SKS = 3.4 ECTS = 91.8 hours* *> Lecture = 23.3 hours* *> Excercise = 28 hours* *> Sel Study = 28 hours* *> Exam = 4 hours (MID term and final)* *>Exam preparation= 8.5 hours*
Credit points	*2 SKS = 3.4 ECTS*
Required and recommended prerequisites for joining the module	*Engineering Mathematics*
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)*
Content	*This course discusses the preparation of a series of instructions that are translated from a system (especially systems in the field of agricultural engineering) in the form of specific functions and then translated into computer program languages. The subject begins with an introduction to the source code which is a code that can be read by humans and then coded for the language of computer programs, building program algorithms, making programs in computer program languages and program execution. Thus, this course will shape students' skills in thinking logically, structured and able to formulate problems encountered in everyday life in the field of agricultural engineering into mathematical functions and translate them into computer program languages.*
Examination forms	*Writing exam*
Study and examination requirements	*Attendance above 80%*
Reading list	*-*