Module Description

Module name	Script Programming
Module level, if applicable	Bachelor of Informatics
Code, if applicable	21D12120702
Subtitle, if applicable	-
Course, if applicable	-
Semester(s) in which the module is taught	3rd
Person responsible for the module	Dr. Muhammad Niswar., ST., M.InfoTech
Lecturer	1. Dr. Ir. Zahir Zainuddin, M.Sc 2. Dr. Muhammad Niswar., ST., M.InfoTech
Language	Indonesian Language [Bahasa Indonesia]
Relation to Curriculum	This course is a compulsory course and offered in the 3th semester.
Type of teaching, contact hours	Teaching methods: [group discussion], [simulation], [collaborative learning]. Teaching forms: [lecture], [tutorial]. CH : 08.00 - 16.00
Workload	For this course, students are required to meet a minimum of 136.00 hours in one semester, which consist of: - 40.00 hours for lecture, - 48.00 hours for structured assignments, - 48.00 hours for private study
Credit points	2 credit points (equivalent with 3.4 ECTS)

Requirements according to the examination regulations	Students have participated in at least 80% of the learning activities (Academic Regulations, Chapter VII)
Recommended prerequisites	Basic Computer Programming, Algorithm and Data Structure
Module objectives/intended learning outcomes	**Intended Learning Outcomes (ILO):** After completing this course, students are able to: **ILO 1:** Have the knowledge of fundamental Computing Science that includes basic theory and concept of computer science, Mathematics and Statistics, Programming Algorithm, Software Engineering and Information System **ILO 4:** Design, implement, and evaluate a computing-based solution to meet a given set of computing requirements by applying computer science theory and software development fundamentals. **ILO 6:** Perform effectively in a team, either as a member or leader, in activities related to the program's discipline **Course Learning Objective (CLO):** After completing this course, students can understand the concept of interpreted programming language and can write python codes for creating an application program.. ILO 1 => CLO 1: Students can understand the concept of interpreted programming language. ILO 4 => CLO 2: Students can write python codes for creating application programs and evaluate the performance of the application program. ILO 6 => CLO 3: Students can work in a group assignment to create and evaluate an application program and present the results to other students.
Content	Students will learn about : 1. Introduction to Python 2. Data types, variables, input-output operation, operators 3. Conditional & Loop Statements 4. List, Tuples, Sets, and Dictionary 5. Function and Files 6. Modules, Packages, Class and Object

	7. Object-oriented Programming
Forms of Assessment	Assessment techniques: [observation], [participation], [written test]. Assessment forms: [Mid exam], [final term exam], [assignment], [presentation] Mid = 20%, Final term exam = 30%, Assignment = 40%, Presentation = 10% CLO 1 => ILO 1: 50% (Mid and Final term exam: written test) CLO 2 => ILO 4: 30% (Assignment: participation) CLO 3 => ILO 6: 20% (Presentation: observation)
Study and examination requirements and forms of examination	**Study and examination requirements:** - 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 a final grade. **Form of examination:** Written test
Media employed	Video conference, slide presentation, Learning Management System (LMS).
Reading list	**Main :** 1. Zed A. Show, "Learn Python 3 the Hard Way: A Very Simple Introduction to the Terrifyingly Beautiful World of Computers and Code" Addison-Wesley, 2017 2. Mark Lutz, "Learning Python", O'Reilly, 2013