Module Description

Module name	Specific Topic in Software Engineering
Module level, if applicable	Bachelor of Informatics
Code, if applicable	438D4233
Subtitle, if applicable	-
Course, if applicable	-
Semester(s) in which the module is taught	7th
Person responsible for the module	**Dr. Ir. Zahir Zainuddin., M.Sc**
Lecturer	1. Dr. Ir. Zahir Zainuddin., M.Sc 2. Elly Warni, S.T., M.T 3. Muhammad Alief Fadhal Imran Oemar., ST., M.Sc
Language	Indonesian Language [Bahasa Indonesia]
Relation to Curriculum	This course is an elective course and is offered starting from the 7th semester.
Type of teaching, contact hours	Teaching methods: [group discussion], [collaborative learning]. Teaching forms: [lecture]. 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	3 credit points (equivalent with 5.1 ECTS)

Requirements according to the examination regulations	Students have participated in at least 80% of the learning activities (Academic Regulations, Chapter VII)
Recommended prerequisites	-
Module objectives/intended learning outcomes	**Intended Learning Outcomes (ILO):** After completing this course, students are able to: **ILO 2:** Have the knowledge of advanced topics in an Informatics specific fields of either Artificial Intelligence, Data Science, Computer Network, Cloud Computing or Internet of Things. **ILO 6:** Perform effectively in a team, either as a member or leader, in activities related to the program's discipline **ILO 7:** Communicate their ideas in a convincing and effective manner, either in written or orally, to propose solutions. **Course Learning Objective (CLO):** After attending the Specific Topic in Software Engineering course, students should have the knowledge of software engineering research trends, are able to work together in groups to discuss and present the topic of software engineering research trends. ILO 2 => CLO 1: Students have the knowledge of general description software engineering research trends ILO 6 => CLO 2: Students are able to work together in groups to discuss the topic of software engineering research trends ILO 7 => CLO 3: Students present software engineering research trends
Content	Students will learn about : 1. Overview of software engineering research trends 2. Software effort estimation 3. Requirement engineering 4. Software Testing 5. Software Architecture 6. Software Defect Prediction 7. Software Process Improvement 8. Software Product Line 9. Self Adaptive System 10. Software Literature Review

Forms of Assessment	Assessment techniques: [observation], [participation], [written test]. Assessment forms: [quiz], [midterm exam], [assignment], [presentation]. Quiz = 15%, Midterm exam = 25%, Assignment = 40%, Presentation = 20% CLO 1 => ILO 2: 40% (Quiz and Mid term exam: written test) CLO 2 => ILO 6: 40% (Assignment: participation) CLO 3 => ILO 7: 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 final grade. **Form of examination:** Written test
Media employed	Video conference, slide presentation, Learning Management System (LMS)
Reading list	1. Software Engineering A Practitioner's Approach – Seventh Edition, Roger S. Pressman, 2010