

MODULE HANDBOOK

TECHNOLOGY INSIGHT AND APPLICATIONS

Module name	TECHNOLOGY INSIGHT AND APPLICATIONS	
Module level	Undergraduate	
Code	UG184916	
Course (if applicable)	Technology Insight and Applications	
Semester	Seventh Semester (Gasal)	
Person responsible for the module	Dra. Endang Susilowati, M.Kes	
Lecturer	Ir.Josaphat Pramudijanto, M.Eng.	
Language	Bahasa Indonesia and English	
Relation to curriculum	Undergraduate degree program, mandatory , 7 th semester.	
Type of teaching, contact hours	Lectures, <60 students Mondays, 07.00-08.40 (GMT+7)	
Workload	<ol style="list-style-type: none"> 1. Lectures : 2 x 50 = 100 minutes per week. 2. Exercises and Assignments : 2 x 60 = 120 minutes (2 hours) per week. 3. Private learning : 2 x 60 = 120 minutes (2 hours) per week. 	
Credit points	3 credit points (sks)	
Requirements according to the examination regulations	A student must have attended at least 75% of the lectures to sit in the exams.	
Mandatory prerequisites	Prerequisites for taking this course are semester 5 and above (for D3), and semester 6 (for S1)	
Learning outcomes and their corresponding PLOs	<p>Course Learning Outcome (CLO) after completing this module,</p> <p>CLO 1: Students understand the outline of the lecture from the beginning to the implementation of KKN</p> <p>CLO 2: Students are able to change information into something that is simpler to understand</p> <p>CLO 3: Able to create Logframe matrix</p> <p>CLO 4: Have insight and are able to implement the principles of sustainable development according to their field of expertise in solving problems in society and the surrounding environment.</p>	<p>PLO-11</p> <p>PLO-10</p> <p>PLO-10</p> <p>PLO-10</p>

	<p>CLO 5: Able to understand the basics of using technology by optimizing information and communication technology in solving problems in society and its environment.</p> <p>CLO 6: Able to use open source-based information technology to create agency websites.</p> <p>CLO 7: Able to use applied information technology to solve common problems in society</p> <p>CLO 8: Able to develop a cooperative attitude and have social sensitivity and high concern for society and the environment.</p> <p>CLO 9: Students can be part of the solution to problems that exist in community groups</p> <p>CLO 10: Skilled in the use of technology and creativity in solving problems in society and the environment.</p>	<p>PLO-10</p> <p>PLO-10</p> <p>PLO-10</p> <p>PLO-10</p> <p>PLO-10</p> <p>PLO-12</p>
Content	<p>Technology Insights and Applications courses will provide inspiration to students in developing insight into science, technology and innovation as well as the forms of their application in society and the environment. As citizens, students will be able to have skills and creativity in comprehensively utilizing technology. During the recovery process, students develop a thinking pattern based on a constructive information transformation thinking model with a systemic logframe matrix, by leveraging open source technology and mobile applications. Starting from observing problems, exploring problems to finding effective forms of solutions that allow concrete solutions to be achieved. In developing forms of problem solving in the community based on the principle of sustainable development. Strengths that are prioritized to be increased in the application of information and communication technology accompanied by increased social sensitivity so that they become more adaptive individuals in working together to achieve the target of solving problems in society. The ability to observe and interview in the field also supports the skills given to students so that factual data in the field can be used optimally.</p> <p>Towards the end of lectures, students are able to optimally design a Real Work Lecture (KKN) proposal based on field facts. By utilizing ICT and involving the skills that each student has according to their scientific background creatively for the benefit of development in society and the environment. At the end of the lecture, students carry out a Thematic Field Work Practice (KKN) that emphasizes capacity building in the community. So that students as intelligent people need to be given the opportunity to be and be part of the solution to problems that exist in society.</p>	

Study and examination requirements and forms of examination	<ul style="list-style-type: none"> ● Mid-term examination ● Discussion and Presentation ● Community Service Program Report
Media employed	LCD, whiteboard, websites (myITS Classroom), zoom.
Reading list	<p>Main :</p> <ol style="list-style-type: none"> 1. Buku Transformasi Informasi, Dr.techn. Pujo Aji, ST.MT., ITS Pres., 2016 2. Alfred Watkins and Michel Ehst, "Science, Technology and Innovation: Capacity Building for Sustainable Growth and Poverty Reduction", The International Bank for Reconstruction and Development, Washington DC, 2008. 3. Frieder Meyer Kraemer, "Innovation and Sustainable Development-Lesson for Innovation Policies, " A Springer-Verlag Company, Heidelberg, 1998. 4. Arahan Pelaksanaan Tujuan Pembangunan, Alamat Kontak: Website : sdgs.bappenas.go.id