



UNIVERSITAS NEGERI YOGYAKARTA
FACULTY OF MATHEMATICS AND NATURAL SCIENCES
DEPARTMENT OF PHYSICS EDUCATION
PHYSICS STUDY PROGRAM

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Bachelor of Physics

MODULE HANDBOOK

Module name:	Transformasi Digital
Module level, if applicable:	Undegraduate
Code:	MKU6212
Sub-heading, if applicable:	-
Classes, if applicable:	-
Semester:	1 st
Module coordinator:	Tim
Lecturer(s):	Tim
Language:	Bahasa Indonesia
Classification within the curriculum:	Compulsory Course
Teaching format / class hours per week during the semester:	100 minutes lectures and 120 minutes structured activities per week.
Workload:	Total workload is 90 hours per semester which consists of 100 minutes lectures, 120 minutes structured activities, and 120 minutes individual study per week for 16 weeks.
Credit points:	2 SKS (3.25 ECTS)
Prerequisites course(s):	-
Course Outcomes	After taking this course the students have ability to:

	<p>CO1. Menunjukkan sikap kolaboratif dan kemandirian dalam melaksanakan tugas individu maupun tugas kelompok</p> <p>CO2. Mampu mendokumentasikan, menyimpan, mengamankan, dan menemukan kembali data untuk menjamin kesahihan dan mencegah plagiasi</p> <p>CO3. Mampu menganalisis suatu konsep perkembangan Transformasi Digital dari aspek input, output dan prosesnya</p> <p>CO4. Mampu mengolah informasi untuk menyelesaikan permasalahan terkait bidang ilmu yang ditekuni.</p>																				
<p>Content:</p>	<p>Mata kuliah ini penting guna mendukung proses transformasi digital khususnya dalam dunia pendidikan. Topik yang dibahas dalam mata kuliah ini meliputi: makna transformasi digital, peran teknologi dalam mengubah semua bidang, technology-enabled disruptions dan mekanismenya, area transformasi bisnis digital, kemampuan informasi untuk keunggulan kompetitif, social networks and enterprise 2.0, digital trends past and future, digital ethics and privacy, cloud technology & big data, introduction to programming, pengenalan artificial intelligence, internet of things</p>																				
<p>Study / exam achievements:</p>	<p>Attitude assessment is carried out at each meeting by observation and / or self-assessment techniques using the assumption that basically every student has a good attitude. The student is given a value of very good or not good attitude if they show it significantly compared to other students in general. The result of attitude assessment is not a component of the final grades, but as one of the requirements to pass the course. Students will pass from this course if at least have a good attitude.</p> <p>The final mark will be weight as follow:</p> <table border="1" data-bbox="610 1377 1398 1665"> <thead> <tr> <th>No</th> <th>CO</th> <th>Assessment Object</th> <th>Assessment Technique</th> <th>Weight</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>CO1</td> <td>a. Presentasi</td> <td>Observasi</td> <td>10%</td> </tr> <tr> <td>1</td> <td>CO2, CO3 and CO4</td> <td>b. Individual Assignment c. Group Assignment d. Ujian Sisipan e. Final Exam</td> <td>Presentation / written test</td> <td>15% 25% 30%</td> </tr> <tr> <td colspan="4">Total</td> <td>100%</td> </tr> </tbody> </table>	No	CO	Assessment Object	Assessment Technique	Weight	1	CO1	a. Presentasi	Observasi	10%	1	CO2, CO3 and CO4	b. Individual Assignment c. Group Assignment d. Ujian Sisipan e. Final Exam	Presentation / written test	15% 25% 30%	Total				100%
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Total				100%																	
<p>Forms of media:</p>	<p>Board, LCD Projector, Laptop/Computer, online</p>																				
<p>Literature:</p>	<p>1.OECD, Key Issues For Digital Transformation In The G20. 2017.</p> <p>2.Gerhard Oswald, Michael Kleinemeier (eds.). Shaping the Digital Enterprise: Trends and Use Cases in Digital</p>																				

	Innovation and Transformation, Publisher: Springer International Publishing, Year: 2017
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PLO and CO mapping

	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8
CO1	✓	✓			✓			
CO2	✓	✓			✓			
CO3	✓	✓			✓			
CO4	✓	✓			✓			