



UNIVERSITAS NEGERI YOGYAKARTA
FACULTY OF MATHEMATICS AND NATURAL SCIENCES
DEPARTMENT OF PHYSICS EDUCATION
PHYSICS 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
Prerequisites course(s):	-
Course Outcomes	After taking this course the students have ability to:

	CO1. Menunjukkan sikap kolaboratif dan kemandirian dalam melaksanakan tugas individu maupun tugas kelompok CO2. Mampu mendokumentasikan, menyimpan, mengamankan, dan menemukan kembali data untuk menjamin kesahihan dan mencegah plagiasi CO3. Mampu menganalisis suatu konsep perkembangan Transformasi Digital dari aspek input, output dan prosesnya CO4. Mampu mengolah informasi untuk menyelesaikan permasalahan terkait bidang ilmu yang ditekuni.																				
Content:	Mata kuliah ini penting guna mendukung proses trransformasi 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																				
Study / exam achievements:	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. The final mark will be weight as follow: <table><tr><th>No</th><th>CO</th><th>Assessment Object</th><th>Assessment Technique</th><th>Weight</th></tr><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>20% 15% 25% 30%</td></tr><tr><td colspan="4">Total</td><td>100%</td></tr></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	20% 15% 25% 30%	Total				100%
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Total				100%																	
Forms of media:	Board, LCD Projector, Laptop/Computer, online																				

Literature:	1. OECD, Key Issues For Digital Transformation In The G20. 2017. 2. Gerhard Oswald, Michael Kleinemeier (eds.). Shaping the Digital Enterprise: Trends and Use Cases in Digital 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	✓	✓			✓			