



**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 <sup>st</sup>
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:

	<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>																				
Content:	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																				
Study / exam achievements:	<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"> <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>20% 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	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	✓	✓			✓			