UIN SUNAN KALIJAGA YOGYAKARTA
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Undergraduate Programme in Physics

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MODULE HANDBOOK

Module Name	Mechanic 2
Module level, if applicable	Bachelor
Code, if applicable	FIS414010
Subtitle, if applicable	-
Courses, if applicable	Mechanic 2
Semester(s) in which the module is taught	3rd (third)
Person responsible for the module	Andi, M.Sc.
Lecturer(s)	Andi, M.Sc
Language	Indonesia
Relation to curriculum	Compulsory course in the second year (3rd semester) Bachelor Degree
Type of teaching, contact hours	150 minutes lectures and 180 minutes structured activities per week.
Workload	Total workload is 136 hours per semester, which consists of 150 minutes lectures per week for 14 weeks, 180 minutes structured activities per week, 180 minutes individual study per week, in total is 16 weeks per semester, including mid exam and final exam
Credit points	3
Requirements according to the examination regulation	Minimum attendance 75% All assignments submitted Attendance on time
Recommended prerequisites	No prerequisites stated on
Module objectives/intended learning outcomes	After completing this course, the students: CO 1. Formulate mechanical quantities in discrete and continuous distributed particle systems. CO 2. Analyze the dynamics of rotation of a rigid body about a fixed axis and a free axis and determine the associated physical quantities. CO 3. Formulate the equations of motion of physical systems using Lagrange Mechanics and Hamiltonian.
Content	1. Dynamics of Systems of Particles 2. Mechanics of Rigid Bodies: Planar Motion 3. Motion of Rigid Bodies in Three Dimensions 4. Lagrangian Mechanics
Study and examination requirements and forms of examination	The final mark will be weighted as follows:

NO	Assessment methods (components, activities)	Weight (percentage)
1	Final Examination	40%
2	Mid-Term Examination	30%

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	3	Class Activities : Quiz, Homework, etc.	30%

The final assessment is expressed in the form of a letter value converted from a number value with the following categories:

NO	Number Value	Letter Value	NO	Number Value	Letter Value
1	≥ 95	A	7	65-69.99	B/C
2	90-94.99	A-	8	60-64.99	C+
3	85-89.99	A/B	9	55-59.99	C
4	80-84.99	B+	10	50-54.99	C-
5	75-79.99	B	11	55-34.99	D
6	70-74.99	B-	12	<35	E

Media employed	White-board, Lcd Projector, e-learning (https://daring.uin-suka.ac.id/)
Reading list	1. Analytical Mechanics, G.L.Fowles and G.L.Cassiday, 7th edition, Thomson Brooks/Cole 2. Classical Mechanics, H.Goldstein, C.Poole, and J.Safko, 3rd edition, Addison Wesley 3. Introduction to Classical Mechanics, Atam P.Arya, Allyn and Bacon 4. An Introduction To Mechanics, D.Kleppner and R.J.Kolenkow, McGraw-Hill

PLO and CO Mapping

	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	PLO 7	PLO 8	PLO 9
CO 1		√		√					
CO 2		√		√					
CO 3		√		√					