



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:	Soft Condensed Matter
Module level, if applicable:	Bachelor Program
Code:	FSK6353
Sub-heading, if applicable:	-
Classes, if applicable:	-
Semester:	Even
Module coordinator:	Wipsar Sunu Brams Dwandaru, M.Sc., Ph.D
Lecturer(s):	Wipsar Sunu Brams Dwandaru, M.Sc., Ph.D
Language:	Indonesian English
Classification within the curriculum:	Elective Course
Teaching format/class hours per week during the semester:	150 minutes lectures and 180 minutes structured activities per week.
Workload:	Total workload is 136 hours per semester, which consists of 150 minutes lectures, 180 minutes structured activities, and 180 minutes individual study per week for 16 weeks.
Credit points:	3 SKS (4.86 ECTS)
Prerequisites course(s):	-
Course Outcomes	CO1. To show an understanding of the concepts of soft condensed matter. CO2. To show an understanding of the particle interactions in the soft condensed matter physics. CO3. To show an understanding of the methods in soft condensed matter studies.

Content:	The content of this subject includes: a) Brief history and definition of Condensed Matter Physics; b) Classification of soft condensed matter; c) Characteristics of soft condensed matter; d) Particle interactions of soft condensed matter physics; e) Methods in studying soft condensed matter; and f) Application of soft condensed matter.																					
Study/exam achievements:	<p>The achievements of this study are that students are able to understand the overall concepts of Soft Condensed Matter Physics</p> <p>The final mark of the subject may be given as follows:</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 rowspan="4">1</td> <td rowspan="4">CO1, CO2, and CO3,</td> <td>a. Individual Assignment</td> <td rowspan="4">Presentation/written</td> <td>15%</td> </tr> <tr> <td>b. Group Assignment</td> <td>15%</td> </tr> <tr> <td>c. Mid Exam</td> <td>25%</td> </tr> <tr> <td>d. Final Exam</td> <td>45%</td> </tr> <tr> <td colspan="4">Total</td> <td>100%</td> </tr> </tbody> </table>	No.	CO	Assessment Object	Assessment Technique	Weight	1	CO1, CO2, and CO3,	a. Individual Assignment	Presentation/written	15%	b. Group Assignment	15%	c. Mid Exam	25%	d. Final Exam	45%	Total				100%
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1	CO1, CO2, and CO3,	a. Individual Assignment	Presentation/written	15%																		
		b. Group Assignment		15%																		
		c. Mid Exam		25%																		
		d. Final Exam		45%																		
Total				100%																		
Forms of media:	Whiteboard, LCD Projector, Laptop/Computer																					
Literatures:	<p>A. Jones, R.A.L. 2002. Soft Condensed Matter. Oxford Master Series in Physics.</p> <p>B. Lubensky, T.C. 1997. Soft Condensed Matter Physics. Solid State Communications, 102, 2-3: 187 - 197.</p>																					

PLO and CO mapping

	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9
CO1		✓							
CO2		✓							
CO3		✓							