

## MINISTRY OF EDUCATION AND CULTURE UNIVERSITAS NEGERI SURABAYA FACULTY OF MATHEMATICS AND NATURAL SCIENCES DEPARTMENT OF PHYSICS

Ketintang Campus, Jalan Ketintang, C3 Building, Surabaya 60231 Website: https://pendidikan-fisika.fmipa.unesa.ac.id/, email: <a href="mailto:s1-pfis@unesa.ac.id">s1-pfis@unesa.ac.id</a>

## **Undergraduate Programme of Physics Education**

## **Module Handbook**

Module Name :	Pembelajaran Inovatif II Advanced Innovative Learning	
Module level :	Bachelor degree/Undergraduate Programme	
Course Code :	8420302258	
Abbreviation, if applicable:	-	
Courses included in the module, if applicable:	Not Applicable	
Semester/Term		
Module coordinator(s)	Dr. Eko Hariyono, M.Pd,	
Lecturer(s):	Dr. Eko Hariyono, M.Pd. Mita Anggaryani, S.Pd., M.Pd. Nurita Apridiana Lestari, S.Pd., M.Pd.	
Language:	Bahasa Indonesia	
Classification within the curriculum:	Compulsory/ Elective	
Teaching format/class hours per week during the semester:	2 contact hours of lectures (Indonesia credit semester or sks*)	
Workload :	$2 \times 50$ minutes lectures, $2 \times 60$ minutes structured activity, $2 \times 60$ minutes individual activity, $14$ weeks per semester, $90$ total hours per semester $\sim 3.18$ ECTS**	
Credit Point:	2 sks (3.18 ECTS)	
Requirements:		
Learning goals/competencies:	<ol> <li>Explain the characteristics of the STAD type cooperative learning model (Student Team Achievement Division)</li> <li>Explain the characteristics of the Jigaw . cooperative learning model</li> <li>Explaining the characteristics of the TPS (Think Pair Share) type of cooperative learning model</li> <li>Explaining the characteristics of the problem-based learning model / PBL (Problem Based Learning)</li> <li>Explain the characteristics of the project-based learning model / PjBL (Project Based Learning)</li> <li>Explaining the characteristics of the guided inquiry learning model (Guided Inquiry)</li> </ol>	
Content	The study of learning models that include cooperative learning (cooperative learning), scientific approach-oriented learning such as: problem based learning (problem based learning), project based learning (project based learning), and guided inquiry learning (guided inquiry). The study was carried out through the presentation of concepts, presentation of operational examples of each learning model in the form of learning tools,	





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Attribute Soft skill:	workshops on developing learning tools by students oriented to each model and learning strategy. The assessment activity ended with an exercise in implementing a certain learning model by each student in a peer teaching forum followed by discussion and reflection activities.  Scientific report, public speaking, and team work  Students are considered to complete the course and pass if they obtain at least 40% of maximum final grade. The final grade (NA)	
Study/exam achievements:	is calculated based on the follow  Assessment Components  Participation  Assignment  Mid-semester test  Final semester test	ving ratio:  Percentage of contribution  20%  30%  20%  30%
Learning Methods :	Student-centered approach, lecture and discussion, and presentations (structured activities)	
Form of Media:	Power Point slides, e-book file, and multimedia.	
Literature (primary references):	<ol> <li>Arends, Richar I. (2004). Learning To Teach sixth Edition. New York: McGraw-Hill Book Company.</li> <li>Ibrahim, Muslim. Rachmadiarti, Fida, Ismono. (2005). Cooperative Learning. Surabaya: Center for School Science and Mathematics.</li> <li>Nur, Mohamad. (2000). Cooperative Learning. Surabaya: School of Science and Mathematics Center</li> <li>Ibrahim, Muslim. (2012). Problem Based Learning Edition II. Surabaya: University Press</li> <li>Kuhltau, Carol C., Maniotes, Leslie K., &amp; Caspari, Ann K. (2007). Guided Inquiry. London: Libraries Unlimited</li> <li>Arends, Richard I. (2004). Guide to Field Experiences ad Portfolio Development: to accompany; learning to teach. New York: McGraw-Hill Book Company.</li> </ol>	
Notes:	*1 sks in learning process = three periods consist of: (a) scheduled instruction in a classroom or laboratory (50 minutes); (b) structured activity (60 minutes); and (c) individual activity (60 minutes) according to the Regulation of Indonesia Ministry of Research, Technology, and Higher Education No. 44 Year 2015 jo. the Regulation of Indonesia Ministry of Research, Technology, and Higher Education No. 50 Year 2018.  **1 sks = 1,59 ECTS according to Rector Decree Of Universitas Negeri Surabaya No. 598/Un38/Hk/Ak/2019	

