

**SEMESTER LEARNING ACTIVITY PLANS
(SLAP)
SEMESTER EVEN 2022/2023**



Physics Undergraduate Study Program
Physics Department
Science and Technology Entrepreneurship
MFF 3892/ 2 Credits

Lecturer Coordinator:

Drs. Gede Bayu Suparta, M.S., Ph.D.
Prof. Dr. Harsojo, SU., M.Sc.

UNIVERSITAS GADJAH MADA
FACULTY OF MATHEMATICS AND NATURAL SCIENCE
2022



Universitas Gadjah Mada

Faculty of Mathematics and Natural Science
 Physics Department / Physics Undergraduate Study Program
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Document Number :

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Code	Course Name	Credits (Credits)		Semester	Status	Prerequisite	
<i>MFF 3892</i>	<i>Science and Technology Entrepreneurship</i>	<i>T: 2</i>	<i>P: ...</i>	<i>EVEN</i>	<i>Elective</i>	<i>None</i>	
Short Description	The Science and Technology Entrepreneurship course is an elective course of 2 Credits in the 2021 curriculum for the Undergraduate Physics Study Program, Universitas Gadjah Mada, which can be taken in the Even semester. In the 2021 Physics Undergraduate Study Program curriculum, this subject is associated with competencies in the Long-Life Learning/Self-Development Aspect (PLO 5).						
Program Learning Outcomes (PLO) Imposed on the Course	<i>PLO 5</i>	Long Life Learning. Able to analyze various alternative solutions to physical problems and conclude them for appropriate decision-making, both in familiar and new problems.					
Course Outcomes (CO)	After completing this course, students are expected to be able to:						
	<i>CO1</i>	Knowing and Understanding the Philosophy of Entrepreneurship and the development of an entrepreneurial spirit					
	<i>CO2</i>	Know and understand Education oriented to job creators and leaders with an entrepreneurial spirit					
	<i>CO3</i>	Know and understand Intellectual Property Rights and Contract Law					
	<i>CO4</i>	Knowing and understanding Entrepreneurship and how to build good relations and selling techniques					
	<i>CO5</i>	Knowing and understanding how to set up a small business and how to manage a small and medium business					
	<i>CO6</i>	Knowing and understanding about Ethics in entrepreneurship					
The Correlation of CO to Learning Materials and Methods, and Time Allocation		Learning Materials		Learning Methods		Time Allocation	
	<i>CO 1</i>	Entrepreneurship Philosophy		TCL-SCL mixed		<i>4X50 minutes</i>	
	<i>CO 1</i>	Entrepreneurial Spirit Development		TCL-SCL mixed		<i>2X50 minutes</i>	
	<i>CO 2</i>	Job Creation-Oriented Education		TCL-SCL mixed		<i>2X50 minutes</i>	
	<i>CO 2</i>	Entrepreneurial leader		TCL-SCL mixed		<i>2X50 minutes</i>	
	<i>CO 3</i>	Intellectual property rights		TCL-SCL mixed		<i>2X50 minutes</i>	
	<i>CO 3</i>	Legal Agreement		TCL-SCL mixed		<i>2X50 minutes</i>	
	Midterm exam/Project Task Results/Case Analysis Results						
	<i>CO 4</i>	Entrepreneurship		TCL-SCL mixed		<i>4X50 minutes</i>	
	<i>CO 4</i>	Good relations and selling techniques		TCL-SCL mixed		<i>4X50 minutes</i>	
	<i>CO 5</i>	Setting up a small business		TCL-SCL mixed		<i>2X50 minutes</i>	

	CO 5	Managing Small and Medium Enterprises	TCL-SCL mixed	<i>2X50 minutes</i>						
	CO 6	Ethics in entrepreneurship	TCL-SCL mixed	<i>2X50 minutes</i>						
	Final exams/ Project Task Results/Case Analysis Results									
Learning Methods	SCL (Student Centered Learning): Project-based learning (Team-based Project)/Case-based learning/PBL/other SCL methods									
Student Learning Experience	Listen, ask, answer questions and discuss									
Access to Learning Media/ LMS and Offline and Online Percentage	Offline (LCD, PPT Slide, Whiteboard, Laptop) and Online (Zoom Meeting, Google Meet, Google Classroom)									
Assessment Methods and Synchronization with CO	Assessment Methods	Assessment Percentage	Criteria/ Indicators	CO1	CO2	CO3	CO4	CO5	CO6	
	Participatory Activity*									
	Project Results/ Case Study Results/ PBL Results*									
	Cognitive									
	Assignment	10		√	√	√	√	√	√	√
	Quiz	10		√	√	√	√	√	√	√
	Midterm Exam	40		√	√	√				
	Final Exam	40					√	√	√	
	Total	100								
	*) can also be obtained from the Midterm or Final Exam as the result of participatory activities or project/ case study results. According to IKU 7, the percentage of project results/ case study/ PBL results is at least 50%.									
References	<p>Main References;</p> <ol style="list-style-type: none"> Jati, B.M.E; Priyambodo, T.K. , 2011: Kewirausahaan (Technopreneurship) untuk Mahasiswa Sains dan Teknologi, edisi 1, Penerbi Andi, Yogyakarta . Meridith, G.G., dkk., 2000: Kewirausahaan Teori dan Praktek, PT Pustaka Binaman Pressindo, Jakarta Suryana, 2001: Kewirausahaan, Penerbit Salemba 4, Jakarta . Waldiono, dkk., 1999: Entrepreneurship (EPS) di Perguruan Tinggi, Proyek Pemandu EPS di Perguruan Tinggi, LP3 – UGM, Yogyakarta . Wibowo, dkk., 2000: Petunjuk Mendirikan Perusahaan Kecil, Penerbit Swadaya, Jakarta . Wibowo, dkk., 2000: Pedoman Mengelola Perusahaan Kecil, Penerbit Swadaya, Jakarta . Wijandi,S., 2000: Pengantar Kewiraswastaan, Sinar Baru, Algensindo, Bandung . <p>Additional References:</p> <ol style="list-style-type: none"> Junus, E., 1999: Undang-Undang dan Informasi Umum Perlindungan Hak Atas Kekayaan Intelektual, Jurnal P & PT, Vol.1, No.9, 1999, Jakarta 									

	2. Sutomo, B.P.G., 1997: Hukum Perjanjian pada Jual Beli Pesawat Terbang Produksi IPTN, Skripsi S1 Ilmu Hukum Perdata UGM, Yogyakarta.			
Lecturers (Team Teaching)	1. Drs. Gede Bayu Suparta, M.S., Ph.D. 2. Prof. Dr. Harsojo, SU., M.Sc.			
Authorization	Date of Drafting	Lecturer Coordinator	Head of Curriculum Committee	Head of Study Program
		<i>Drs. Gede Bayu Suparta, M.S., Ph.D.</i>		<i>Dr. Eng. Ahmad Kusumaatmaja, S.Si., M.Sc.</i>