MINISTRY OF EDUCATION AND CULTURE



UNIVERSITAS NEGERI SURABAYA FACULTY OF MATHEMATICS AND NATURAL SCIENCES DEPARTMENT OF NATURAL SCIENCES

Ketintang Campus, Jl. Ketintang C12 Building, Surabaya 60231 Phone (031)18296427

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Undergraduate Programme in Science Program

Module Handbook

Module Name:	Pembelajaran Inovatif 1		
	(Innovative Learning 1)		
Module Level:	Bachelor Degree/Undergraduate Program		
Course Code:	8420103107		
Abbreviation, if applicable:	PI 1		
Sub-heading, if applicable:			
Courses included in the module, if	Not applicable		
applicable:			
Semester/term	IV/second year (sophomore)		
Module coordinator(s):	Tutut Nurita, S.Pd., M.Pd.		
Lecturer(s):	Prof. Dr. Erman., M.Pd.		
	Laily Rosdiana, S.Pd., M.Pd.		
	An Nuril MF, S.Pd., M.Pd.		
	Enny Susiyawati, Ph.D		
Language:	Bahasa Indonesia (Indonesian Language)		
Classification within the curriculum:	Compulsory Course / Elective Studies		
Teaching format/class hours per	3 contact hours of lectures (Indonesia credit semester or		
week during the semester:	sks*)		
Workload:	3 x 50 minutes lectures, 3 x 60 minutes structured activity,		
	3 x 60 minutes individual activity, 14 weeks per semester,		
	119 total hours per semester ~ 3.97 ECTS**		
Credit point:	3 sks (3.97 ECTS)		
Requirements:	Educational Psychology (8420102183)		
	 Introductory of Natural Science (8420102028) 		
	Learning Theory (8420103155)		
	History and Philosophy of Science Education		
	(8420102159)		
	 Management and Safety Work in Laboratory 		
	(8420103161)		
Learning goals/competencies:	Course Learning Outcomes (CLO):		
	After taking this course, university students have ability to;		
	Apply knowledge about the characteristics of		
	innovative learning models 1		
	2. Apply pedagogical knowledge in designing,		
	implementing, and evaluating integrated science		
	learning		
	3. Designing, implementing and evaluating learning by		
	utilizing ICT to support the implementation of		
	innovative learning 1		
	Sub-CLOs:		
	1. Apply knowledge about the characteristics of learning		
	models including concept acquisition, meaningful		
	verbal learning, direct instruction, discussion, SET;		



Content: Attribute Soft skill: Study/exam achievements:	utilizing ICT to support the innovative learning incluse Learning Models, Meaning Instruction, discussions, and Technology) and strategic competence; 3. Implementing learning melearning models (Concept Meaningful Verbal Learn discussion, SET) according students; 4. Make decisions in design equipment, learning resolved technology-based learning support the implementating including Concept Acquisition Goncept Acquisition of concepts, meaningful Verbal Learn Learning, discussions, SE characteristics of the subcharacteristics of studenting Acquisition of concepts, meaningture instruction, discussion, SET, Discipline, collaboration, resing the natural classroom setting Students are considered to the subcharacteristics of students are considered to the students are considered to the subcharacteristics of students are considered to the students are considered to the students are considered to the subcharacteristics of students are considered to the stu	3. Implementing learning management using relevant learning models (Concept Acquisition Learning Model, Meaningful Verbal Learning, Direct Instruction, discussion, SET) according to the learning styles of	
	(NA) is calculated based on the following weight:		
	Assessment Components	Percentage Contribution	
	Participation	20%	
	Assignment	30%	
	Mid-semester test	20%	
	Final semester test	30%	
	Total	100%	
Learning Methods	learning, lecturing, discussio	Constructivism, student-centered approach, project-based learning, lecturing, discussion, and presentation (structured activities), and flip learning	
Form of Media:		LCD, PowerPoint slides, worksheets, simulation, and e-	
Literature (main references):	 Arends, Richard I.2012. Learning To Teach sixth Edition. New York: McGraw-Hill Book Company Arends, Richard I. 2004. Guide to Field Experiences and Portofolio Development: to accompany ;learning to teach. New York: McGraw-Hill Book Company. Ibrahim, Muslimin, Rachmadiarti, Fida, Ismono. 2005. Pembelajaran Kooperatif. Surabaya: Pusat Sains dan Matematika Sekolah. Ibrahim, Muslimin. 2012. Konsep, Miskonsepsi, dan Cara Pembelajarannya. Surabaya: University Press 		

	 Nur, Mohamad. 2000. Strategi-strategi Belajar. Surabaya: Pusat Sains dan Matematika Sekolah Nur, Mohamad, Kardi Soeparman. Pembelajaran langsung. Surabaya: Pusat Sains dan Matematika Sekolah 	
Notes:	*1 sks in learning process = three contact hours that 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	