

Universitas Negeri Surabaya Faculty of Mathematics and Natural Sciences Bachelor of Science Education Study Program

Document Code

UNESA	ı	Bacl	helor of Science Education Study Program													
			SE	ME	ST	ER	LEA	RNI	NG I	PLAN	I					
Courses			CODE Course Family		у	Credit Weight		SEMES	TER	Compile Date	ation					
Integrated So Application	cience Learning and	dits	8420103	111						T=3 P	=0 E0	CTS=4.77	0		July 19,	2024
AUTHORIZA [*]	TION		SP Deve	loper					Cours	e Cluste	r Coor	dinator	Study Program Coordinator			
										Prof. Dr. Erman, M.Pd.			Pd.			
Learning model	Case Studies															
Program Learning	PLO study progr			argeo	to th	e cou	rse									
Outcomes (PLO)	Program Objecti PLO-PO Matrix	ves (F	,0)													
	PO Matrix at the	end o	P.O Week 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16													
Short Course Description	This course discus- integrated learning concepts and esse	proce	ss. Lecti	ıres a	re car	ried ou	t with pr	nd biolo esenta	ngy on so tions and	cience top d discuss	oics or i	themes ar roject ass	nd is able ignments	to ap inteq	pply them grating so	in an cience
References	Main: 1. Fogarty, Robin J., Judy Stoehr, and Howard Gardner. 2017. Integrating Curricula With Multiple Intelligences: Teams, Themes, and Threads / Edition 2. New York: SAGE Publications. 2. Hewitt, Paul G., Suzanne A Lyons, John A. Suchocki, Jennifer Yeh, Leslie A. Hewitt. 2006. Practicing Science for Conceptual Integrated Science / Edition 1. New York, Usa: Addison-Wesley. 3. Robin J. Fogarty, and Brian M. Pete. 2009. How to Integrate the Curricula 3rd Ed. New York: SAGE Publications. 4. Tillery, Bill, Eldon Enger and Frederick Ross. 2012. Integrated Science / Edition 6. New York: MC Graw Hill Book.															
	Supporters:															
Supporting lecturer	Prof.Dr. Wahono W Dr. Mohammad Bu Enny Susiyawati, S Wahyu Budi Sabtia	diyanto S.Si., M	o, S.Pd., I.Sc., M.F	d., Pł	ı.D.						•					
									H	elp Learr	iing,		Loor			

Week-	Final abilities of each learning stage	ch learning		Help Learning, Learning methods, Student Assignments, [Estimated time]		Learning materials [References	Assessment Weight (%)
(SuĎ-PO)	Indicator	Criteria & Form	Offline (offline)	Online (online)]		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)

1	Utilizing learning resources and ICT-assisted learning media to explore data, collect information and solve problems to support learning	1.Explaining the Definition of Natural Science 2.Identifying Characteristics	Criteria: 1.4: correct description 2.3: the description is generally	Student- centered learning approach (student- centered learning)		0%
	implementation. Mastering the concept of integrated (connected, shared, webbed and integrated) science learning models in junior high school.	of the Science Study Field 3. Explaining the Objectives of Integrated Science Learning 4. Describe the concept of integrated learning in science	correct, there is one aspect where the explanation is incorrect 3.2: the description is generally correct, there is more than one aspect where the explanation is incorrect 4.1: the description is wrong	Deductive learning method Strategy Lectures, discussions, presentations 3 X 50		
2	Utilizing learning resources and ICT-assisted learning media to explore data, collect information and solve problems to support learning implementation. Mastering the concept of integrated (connected, shared, webbed and integrated) science learning models in junior high school.	1.Analyze the weaknesses and advantages of integration models. 2.Create an example of an integration model in science learning. 3.Create power point presentation media.	Criteria: 1.4: correct description 2.3: the description is generally correct, there is one aspect where the explanation is incorrect 3.2: the description is generally correct, there is more than one aspect where the explanation is incorrect 4.1: the description is wrong	Student- centered learning approach (student- centered learning) Deductive learning method Strategy Lectures, discussions, presentations 3 X 50		0%
3	Utilizing learning resources and ICT-assisted learning media to explore data, collect information and solve problems to support learning implementation. Mastering the concept of integrated (connected, shared, webbed and integrated) science learning models in junior high school.	1.Analyze the weaknesses and advantages of integration models. 2.Create an example of an integration model in science learning. 3.Create power point presentation media.	Criteria: 1.4: correct description 2.3: the description is generally correct, there is one aspect where the explanation is incorrect 3.2: the description is generally correct, there is more than one aspect where the explanation is incorrect 4.1: the description is wrong	Student- centered learning approach (student- centered learning) Deductive learning method Strategy Lectures, discussions, presentations 3 X 50		0%

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4	Utilizing learning resources and ICT-assisted learning media to explore data, collect information and solve problems to support learning implementation. Mastering the concept of integrated (connected, shared, webbed and integrated) science learning models in junior high school.	1.Explaining the Webbed model 2.Create a concept map 3.Using concept maps to find common themes across subjects in junior high school 4.Analyzing competency standards in junior high schools that have similar themes 5.Designing a Syllabus with a Webbed model	Criteria: 1.4: correct description 2.3: the description is generally correct, there is one aspect where the explanation is incorrect 3.2: the description is generally correct, there is more than one aspect where the explanation is incorrect 4.1: the description is wrong	Student-centered learning approach (student-centered learning) Deductive learning method Discussion, workshop and presentation strategies 3 X 50		0%
5	Utilizing learning resources and ICT-assisted learning media to explore data, collect information and solve problems to support learning implementation. Mastering the concept of integrated (connected, shared, webbed and integrated) science learning models in junior high school.	1.Explaining the Webbed model 2.Create a concept map 3.Using concept maps to find common themes across subjects in junior high school 4.Analyzing competency standards in junior high schools that have similar themes 5.Designing a Syllabus with a Webbed model	Criteria: 1.4: correct description 2.3: the description is generally correct, there is one aspect where the explanation is incorrect 3.2: the description is generally correct, there is more than one aspect where the explanation is incorrect 4.1: the description is wrong	Student-centered learning approach (student-centered learning) Deductive learning method Discussion, workshop and presentation strategies 3 X 50		0%
6	Utilizing learning resources and ICT-assisted learning media to explore data, collect information and solve problems to support learning implementation. Mastering the concept of integrated (connected, shared, webbed and integrated) science learning models in junior high school.	Communicate the results of integration model analysis.	Criteria: 1.4: correct description 2.3: the description is generally correct, there is one aspect where the explanation is incorrect 3.2: the description is generally correct, there is more than one aspect where the explanation is incorrect 4.1: the description is wrong	Student- centered learning approach (student- centered learning) Deductive learning method Strategy Lectures, discussions, presentations 3 X 50		0%

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7	Utilizing learning resources and ICT-assisted learning media to explore data, collect information and solve problems to support learning implementation. Mastering the concept of integrated (connected, shared, webbed and integrated) science learning models in junior high school.	Communicate the results of integration model analysis.	Criteria: 1.4: correct description 2.3: the description is generally correct, there is one aspect where the explanation is incorrect 3.2: the description is generally correct, there is more than one aspect where the explanation is incorrect 4.1: the description is wrong	Student-centered learning approach (student-centered learning) Deductive learning method Strategy Lectures, discussions, presentations 3 X 50		0%
8	Utilizing learning resources and ICT-assisted learning media to explore data, collect information and solve problems to support learning implementation. Mastering the concept of integrated (connected, shared, webbed and integrated) science learning models in junior high school.	Meeting Indicators 1 to 7	Criteria: 1.4: correct description 2.3: the description is generally correct, there is one aspect where the explanation is incorrect 3.2: the description is generally correct, there is more than one aspect where the explanation is incorrect 4.1: the description is wrong	3 X 50 test		0%
9	Able to make decisions based on information and data analysis in applying the science education context to plan, implement and evaluate learning activities so that they can be adapted to various learning conditions. Have a responsible attitude towards the task of making integrated science equipment products resulting in self-learning, assignments and agreements with colleagues. Creating book products that are oriented towards integration models	Compiling a book oriented towards integration models.	Criteria: 1.4: correct description 2.3: the description is generally correct, there is one aspect where the explanation is incorrect 3.2: the description is generally correct, there is more than one aspect where the explanation is incorrect 4.1: the description is wrong	Student-centered learning approach (student-centered learning) Deductive learning method Discussion and presentation strategy 3 X 50		0%

10	Able to make decisions based on information and data analysis in applying the science education context to plan, implement and evaluate learning activities so that they can be adapted to various learning conditions. Have a responsible attitude towards the task of making integrated science equipment products resulting in self-learning, assignments and agreements with colleagues. Creating book products that are oriented towards integration models	Compiling a book oriented towards integration models.	Criteria: 1.4: correct description 2.3: the description is generally correct, there is one aspect where the explanation is incorrect 3.2: the description is generally correct, there is more than one aspect where the explanation is incorrect 4.1: the description is wrong	Student- centered learning approach (student- centered learning) Deductive learning method Discussion and presentation strategy 3 X 50		0%
11	Able to make decisions based on information and data analysis in applying the science education context to plan, implement and evaluate learning activities so that they can be adapted to various learning conditions. Have a responsible attitude towards the task of making integrated science equipment products resulting in self-learning, assignments and agreements with colleagues. Creating book products that are oriented towards integration models	Compiling a book oriented towards integration models.	Criteria: 1.4: correct description 2.3: the description is generally correct, there is one aspect where the explanation is incorrect 3.2: the description is generally correct, there is more than one aspect where the explanation is incorrect 4.1: the description is wrong	Student-centered learning approach (student-centered learning) Deductive learning method Discussion and presentation strategy 3 X 50		0%
12	Able to make decisions based on information and data analysis in applying the science education context to plan, implement and evaluate learning activities so that they can be adapted to various learning conditions. Have a responsible attitude towards the task of making integrated science equipment products resulting in self-learning, assignments and agreements with colleagues. Creating book products that are oriented towards integration models	Compiling a book oriented towards integration models.	Criteria: 1.4: correct description 2.3: the description is generally correct, there is one aspect where the explanation is incorrect 3.2: the description is generally correct, there is more than one aspect where the explanation is incorrect 4.1: the description is wrong	Student- centered learning approach (student- centered learning) Deductive learning method Discussion and presentation strategy 3 X 50		0%

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13	Able to make decisions based on information and data analysis in applying the science education context to plan, implement and evaluate learning activities so that they can be adapted to various learning conditions. Have a responsible attitude towards the task of making integrated science equipment products resulting in self-learning, assignments and agreements with colleagues. Creating book products that are oriented towards integration models	Compiling a book oriented towards integration models.	Criteria: 1.4: correct description 2.3: the description is generally correct, there is one aspect where the explanation is incorrect 3.2: the description is generally correct, there is more than one aspect where the explanation is incorrect 4.1: the description is wrong	Student-centered learning approach (student-centered learning) Deductive learning method Discussion and presentation strategy 3 x 50		0%
14	Able to make decisions based on information and data analysis in applying the science education context to plan, implement and evaluate learning activities so that they can be adapted to various learning conditions. Have a responsible attitude towards the task of making integrated science equipment products resulting in self-learning, assignments and agreements with colleagues. Creating book products that are oriented towards integration models	Communicate book products that have been prepared.	Criteria:	Student- centered learning approach (student- centered learning) Deductive learning method Discussion and presentation strategy 3 X 50		0%
15	Able to make decisions based on information and data analysis in applying the science education context to plan, implement and evaluate learning activities so that they can be adapted to various learning conditions. Have a responsible attitude towards the task of making integrated science equipment products resulting in self-learning, assignments and agreements with colleagues. Creating book products that are oriented towards integration models	Communicate book products that have been prepared.	Criteria: 1.4: correct description 2.3: the description is generally correct, there is one aspect where the explanation is incorrect 3.2: the description is generally correct, there is more than one aspect where the explanation is incorrect 4.1: the description is wrong	Student-centered learning approach (student-centered learning) Deductive learning method Discussion and presentation strategy 3 X 50		0%
16						0%

Evaluation Percentage Recap: Case Study

No	Evaluation	Percentage
		0%

- study program obtained through the learning process.
- The PLO imposed on courses are several learning outcomes of study program graduates (CPL-Study Program) which
 are used for the formation/development of a course consisting of aspects of attitude, general skills, special skills and
 knowledge.
- 3. Program Objectives (PO) are abilities that are specifically described from the PLO assigned to a course, and are specific to the study material or learning materials for that course.
- 4. **Subject Sub-PO (Sub-PO)** is a capability that is specifically described from the PO that can be measured or observed and is the final ability that is planned at each learning stage, and is specific to the learning material of the course.
- 5. **Indicators for assessing** ability in the process and student learning outcomes are specific and measurable statements that identify the ability or performance of student learning outcomes accompanied by evidence.
- 6. Assessment Criteria are benchmarks used as a measure or measure of learning achievement in assessments based on predetermined indicators. Assessment criteria are guidelines for assessors so that assessments are consistent and unbiased. Criteria can be quantitative or qualitative.
- 7. Forms of assessment: test and non-test.
- 8. **Forms of learning:** Lecture, Response, Tutorial, Seminar or equivalent, Practicum, Studio Practice, Workshop Practice, Field Practice, Research, Community Service and/or other equivalent forms of learning.
- Learning Methods: Small Group Discussion, Role-Play & Simulation, Discovery Learning, Self-Directed Learning, Cooperative Learning, Collaborative Learning, Contextual Learning, Project Based Learning, and other equivalent methods.
- 10. Learning materials are details or descriptions of study materials which can be presented in the form of several main points and sub-topics.
- 11. The assessment weight is the percentage of assessment of each sub-PO achievement whose size is proportional to the level of difficulty of achieving that sub-PO, and the total is 100%.
- 12. TM=Face to face, PT=Structured assignments, BM=Independent study.