

Universitas Negeri Surabaya Faculty of Education, Educational Technology Undergraduate Study Program

Document Code

SEMESTER LEARNING PLAN CODE Course Family Credit Weight SEMEST

Courses			CODE			ſ	Course Family			Cre	Credit Weight			SEM	ESTEF	c	Con Date	npilation e	
	nformation and Communication Fechnology Based Learning		8620304048			Compulsory Study Program Subjects		T=4	P=0	ECTS	6=6.36		4		July	14, 2022			
AUTHORIZAT	TION		SP Developer					Cours	Course Cluster Coordinator Study Program Coordinator					ator					
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Learning model	Project Based L	earning.	I												I				
Program	PLO study pro	-O study program which is charged to the course																	
Learning Outcomes (PLO)	PLO-2	Demor spirit	Demonstrate the character of being tough, collaborative, adaptive, innovative, inclusive, lifelong learning and entrepreneurial																
	PLO-6	Able to	o design, imp	lemer	nt, evalı	uate I	earning	j in vis	ual coi	nmunica	ation d	esign,	animat	ion, bro	adcas	sting an	d inforn	natics	
	PLO-9		Able to produce creative products in the field of educational technology that are educational and market them to the user community																
	Program Objectives (PO) PO - 1 Able to Implement a Learning Management System (LMS) in an E-learning Context																		
	PO - 1	Able to	Implement a	a Lear	ning M	anag	ement	Systen	n (LMS	5) in an E	E-learn	ing Co	ontext						
	PO - 2	Able to	carry out pla	anning	g and d	evelo	pment	of lear	ning m	anagem	ent sy	stems	(LMS)						
	PO - 3	Able to	Manage Us	ers, S	tudent	Intera	action, I	Evalua	tion, a	nd Exter	nal To	ol Inte	gration						
	PO - 4	Able to	Manage Se	curity	and Us	age I	Policies	, LMS	Devel	opment									
	PLO-PO Matrix	с Г																	
			P.O PLO-2			2	PLO-6 PLO			_0-9									
			PO-1					1			1								
			PO-2					1			1								
			PO-3																
			PO-4		1														
	PO Matrix at the end of each learning stage (Sub-PO)																		
			P.0								W	eek							
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
		PO	-1	1	1	1	1												
		PO							1	~	1								
		PO						-	<u> </u>	+	-	~	~	1	~				
		PO-	-		$\left \right $					$\left \right $	-+	•	•	•	•			1	1
		190	-4		<u> </u>		<u> </u>		<u> </u>							•	•	•	•
Short Course Description	This course prov Based Learning various kinds of learning course, Technology and	Develop material you will	ment. Learn are presente become an e	ning U ed tha expert	sing Pı ıt can ir	roject mprov	Based /e knov	Learr	ning (F , skills	BL) to and att	create tudes	a Lea so tha	arning M at it is h	Aanage oped ti	ement nat aft	Systen er impl	n (LMS) ementir). In th ig the I	is cours CT-base
References	Main :																		
	 Main : Referensi Anderson, terry dan Fathi Elloumi. 2004. Theory and Practice of Online Learning. USA: Athabasca University. Beetham, Helen dan Rhona Sharpe. 2007. Rethinking Pedagogy for a Digital Age: Designing and delevering e-learning. USA: Routledge. Durin, Allison. 2009. Mobile Technology for Children: Design for Interaction and Learning. USA: Elseiver. Ficarra, Francisco V. Cipolla. 2010. Quality and Communicability for Interactive Hypermedia Systems: Concepts and Practices for Design USA: IGI Global. Lee, Willliam W dan Diana L. Owens. 2004. Multimedia-based Instructional Design: Computer-based Training, Web-Based Training Distance Broadcast training, Performance-Based Solution. Ed. ke-2. USA John Wiley & Sons, Inc. Lehman, Rosemary M. Dan Simone C. O. ConceiD7D3o. 2010. Creating a sense of presence in online teaching how to be there for distance learners. USA: Jossey-Bass. Sumarno, Alim, dkk. 2020. Handout Pembelajaran Berbasis Teknologi Informasi dan Komunikasi . Surabaya: Teknologi Pendidikan FIF Unesa 																		

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		USA: IGI 2. Edy I., Ju 3. Moller, Le	, Global. rike V. 2014. Pengant	010. Quality and Communi ar Teknologi Informasi. Yoq tt dan Douglas M. Harvey. :	gyakarta: Deepubl	ish	·	Ũ
Support lecturer	Ci	. Alim Sumarno tra Fitri Kholidya rnanda Dimas P	a, S.Pd., M.Pd.					
Week-		abilities of earning	Eva	aluation	Learn Studen	p Learning, ing methods, t Assignments, <mark>imated time]</mark>	Learning materials	Assessment Weight (%)
	(SuĎ-F	°O)	Indicator	Criteria & Form	Offline (<i>offline</i>)	Online (<i>online</i>)		
(1)		(2)	(3)	(4)	(5)	(6)	(7)	(8)
1	to ana basic	nts are able alyze the concepts of ming based ng	 Students' ability to explain the basic concepts of e-learning based learning Active participation in group discussions 	Criteria: 1. Students' ability to summarize basic e- learning concepts 2. Ability to identify characteristics of e- learning based learning 3. Level of contribution within the group 4. Ability to compare experiences and perspectives Form of Assessment : Project Results Assessment / Product Assessment, Test	Group discussion about how to apply e-learning in various contexts. Explain the characteristics and advantages of e-learning based learning together. 2 X 50	Opening with an explanation of the basic concepts of e-learning. Discussion about the characteristics of e- learning based learning. Presentation of benefits using case examples and literature studies. 2 x 50	Material: Database structure Bibliography: References Anderson, Terry and Fathi Elloumi. 2004. Theory and Practice of Online Learning. USA: Athabasca University. Material: Database Analysis Bibliography: Beetham, Helen and Rhona Sharpe. 2007. Rethinking Pedagogy for a Digital Age: Designing and delevering e- learning. USA: Routledge. Material: definition, characteristics, functions and benefits of information and communication technology Reference: Edy I., Jurike V. 2014. Introduction to Information Technology. Yogyakarta: Deepublish	5%
2	the ro Learn Mana	gement m (LMS) in ducational	 Students' ability to detail the role of LMS in the educational context Quality of analysis and participation in case study discussions 	Criteria: 1.Students' ability to detail the role of the LMS 2.Understanding of key LMS features 3.Ability to analyze the positive impact of LMS on learning 4.Active participation in group discussions Form of Assessment : Project Results Assessment / Product Assessment	Presentation of case studies of LMS implementation in various educational institutions. Group discussion about the benefits and challenges of using LMS 2 X 50	Introduction to the concept of the role of LMS in education. Explanation of the features and uses of LMS in supporting learning. 2 X 50	Material: Computing systems in information technology. References: Sumarno, Alim, et al. 2020. Information and Communication Technology Based Learning Handout. Surabaya: Unesa FIP Educational Technology	5%
3	out le analy	ents can carry arning needs sis for LMS opment	 Students' ability to use analytical methods correctly The quality of preparing a list of learning needs 	Criteria: 1.Students' ability to use analytical methods correctly. 2.Creativity in identifying needs. 3.Completeness and detail of learning needs 4.Relevance to the needs of the LMS development project Form of Assessment : Participatory Activities, Project Results Assessment / Product Assessment	Discussion of student experiences in conducting needs analysis. Group division for case studies. 2 X 50	Presentation of concepts and methods of learning needs analysis. Demonstration of requirements analysis tools and techniques. Presentation of case studies involving LMS needs analysis. Online discussions to analyze and detail learning needs. 2 X 50	Material: Computer components References: Sumarno, Alim, et al. 2020. Information and Communication Technology Based Learning Handout. Surabaya: Unesa FIP Educational Technology Material: Computer components References: Edy I., Jurike V. 2014. Introduction to Information Technology. Yogyakarta: Deepublish	5%

4	Students analyze Moodle as an LMS choice	 Students' ability to present the advantages and limitations of Moodle. Activity and quality of contribution in case discussion and analysis. 	Criteria: 1.Students' ability to explain clearly. 2.Deep understanding of Moodle's advantages and limitations. 3.Activities and participation in group discussions. 4.Contribute new ideas or views to the case analysis. Form of Assessment : Test	Group discussion regarding experiences of using Moodle. Preparation of a list of Moodle's advantages and limitations. 2 X 50	Exposure to the concepts and features of Moodle as an LMS. Demonstration of using Moodle in learning. Case analysis of Moodle implementation in various educational institutions. Online discussion regarding the results of analysis and lessons learned from the case. 2 X 50	Material: telecommunications systems and networks in information technology References : <i>Lee</i> , Willliam W and Diana L. Owens. 2004. Multimedia- based Instructional Design: Computer- based Training, Web-Based Training, Distance Broadcast training, Performance-Based Solution. Ed. 2nd. USA	5%
5	Students are able to plan LMS development, including server selection and preparation	 Students' ability to plan the stages of LMS development. The quality of the LMS development plan prepared 	 Criteria: 1. Students' ability to detail the stages of LMS development. 2. Understanding of the relationship between server selection and development stages. 3. Details in planning projects. 4. Relevance and consistency with the concepts taught. Form of Assessment : Project Results Assessment / Product Assessment 	Explanation of the concept and stages of LMS development. Online discussion regarding server selection and preparation. 2 X 50	In-class discussion of case studies about LMS development projects. Identify success factors and barriers. LMS project planning demonstration. Online discussions regarding development stages and resource allocation. 2 X 50	Material: software and applications References: Durin, Allison. 2009. Mobile Technology for Children: Design for Interaction and Learning. USA: Elseiver.	5%
6	Students can design LMS user interfaces (UI/UX).	 Students' ability to design LMS UI/UX design sketches. Creativity and consistency of interface designs created. 	Criteria: 1. Skills in designing UI/UX design sketches. 2. Correct use of UI/UX principles. 3. Active contribution to group discussions. 4. Ability to give and receive feedback. Form of Assessment : Project Results Assessment / Product Assessment	Division of tasks for designing LMS interface design sketches. Direct consultation and feedback from teachers. 2 X 50	Effective presentation of UI/UX concepts and principles in LMS. Demonstration of examples of good LMS interface design. Group discussion regarding important UI/UX elements in the LMS. Joint analysis of the designs that have been created. 2 X 50	Material: concepts and functions of Telecommunications and Networks in Information Technology References: Lee, William W and Diana L. Owens. 2004. Multimedia- based Instructional Design: Computer- based Training, Web-Based Training, Distance Broadcast training, Performance-Based Solution. Ed. 2nd. USA	5%
7	Students can develop learning modules in the LMS	 Students' ability to develop learning module prototypes. Application of concepts and best practices taught in lectures. 	Criteria: 1. Conformity to development guidelines. 2. Creativity and innovation in the modules developed. 3. Students' ability to apply the concepts and best practices taught. 4. Respond to feedback and consultation. Form of Assessment : Project Results Assessment / Product Assessment	Demonstration of practical steps in developing modules in LMS. Direct consultation and feedback from teachers. Demonstration of practical steps in developing modules in LMS. Direct consultation and feedback 2 X 50	Independent development of learning modules with guidance. Online consultations to provide guidance and get feedback. Presentation of concepts and best practices in developing learning modules. Online discussions regarding challenges that may be faced in the project. 2 X 50	Material: Definition, types of application systems References: Ficarra, Francisco V. Cipolla. 2010. Quality and Communicability for Interactive Hypermedia Systems: Concepts and Practices for Design. USA: IGI Global. Material: explains the meaning, types of application systems. Readers: Lee, Willliam W and Diana L. Owens. 2004. Multimedia- based Instructional Design: Computer- based Training, Web-Based Training, Distance Broadcast training, Performance-Based Solution. Ed. 2nd. USA	5%

8	UTS	 Students' ability to apply knowledge to create a simple LMS prototype. Conformity of the prototype to the guidelines and concepts being taught. 	Criteria: 1. Conformity to development guidelines. 2. Functionality and usability of the prototype. 3. Students' ability to apply the knowledge that has been taught. 4. Respond to feedback and consultation. Form of Assessment : Project Results Assessment / Product Assessment	Independent development of a simple LMS prototype Online consultation to provide guidance and get feedback. 4 X 50	-	Material: types of application systems References: Edy I., Jurike V. 2014. Introduction to Information Technology. Yogyakarta: Deepublish	7%
9	Students are able to manage users and access rights in the LMS	 Students' ability to manage users and access rights in the LMS. Creativity and understanding in completing case studies. 	 Criteria: 1.Students' ability to manage LMS users. 2.Suitability of implementation to case needs. 3.Students' ability to manage LMS user access rights. 4. The relevance of access rights settings to the needs of the case study. Form of Assessment : Project Results Assessment / Product Assessment 	Group discussion regarding user management and access rights case studies. Problem solving and analysis together in class. 2 X 50	Exposure to the concept of user management and access rights in LMS. Demonstration of implementation steps on the LMS. Providing online case studies regarding the implementation of user management and access rights in LMS. Online discussions on solutions and strategic thinking. 2 X 50	Material: Definition and examples of e- learning References: Moller, Leslie, Jason Bond Huett and Douglas M. Harvey. 2009. Learning and Instructional Technologies for the 21st Century: Vision of the Future. USA: Springer. Material: Definition and examples of e- learning Library: John Wiley & Sons, Inc. Lehman, Rosemary M. And Simone CO ConceiD7D30. 2010. Creating a sense of presence in online teaching: how to be there for distance learners. USA: Jossey-Bass.	3%
10	Students can develop student interactivity and involvement in the LMS	 Students' ability to plan and implement strategies to increase student interaction and involvement in the LMS. The effectiveness of the plans and implementation made. 	Criteria: 1.Students' ability to plan and implement strategies to increase student interaction and involvement in the LMS. 2.The effectiveness of the plans and implementation made. Form of Assessment : Project Results Assessment / Product Assessment	Providing case studies in class on increasing student interaction and engagement. Group discussion regarding solutions and implementation. 2 X 50	Exposure to concepts and strategies for increasing interaction in LMS. Demonstration of best practices and case studies. Online discussions in groups regarding experiences and ideas for improving interactions in the LMS. Division of tasks and implementation plans. 2 X 50	Material: mobile learning Readers: Moller, Leslie, Jason Bond Huett and Douglas M. Harvey. 2009. Learning and Instructional Technologies for the 21st Century: Vision of the Future. USA: Springer. Material: mobile learning References: Ficarra, Francisco V. Cipolla. 2010. Quality and Communicability for Interactive Hypermedia Systems: Concepts and Practices for Design. USA: IGI Global.	5%
11	Students are able to develop forms of evaluation and assessment in the LMS	 Students' ability to organize evaluations and assessments in the LMS. Conformity of arrangements with the principles of evaluation and assessment. 	 Criteria: 1. Conformity of arrangements with guidelines and needs. 2. Creativity and innovation in settings. 3. Understanding the concept of evaluation and assessment. 4. Respond to feedback. Form of Assessment : Test 	Practical in- class exercises to organize evaluations and assessments within the LMS. Direct consultation and feedback from teachers. 2 X 50	Presentation of evaluation and assessment concepts and strategies in the LMS. Presentation of setup guides in the LMS. 2 X 50	Material: Definition and examples of hypermedia References: Edy I., Jurike V. 2014. Introduction to Information Technology. Yogyakarta: Deepublish Material: Definition and examples of hypermedia Reference: Sumarno, Alim, et al. 2020. Information and Communication Technology Based Learning Handout. Surabaya: Unesa FIP Educational Technology	5%

12	Students can integrate LMS with external tools	 Student's ability to integrate LMS with external tools. Creativity in responding to challenges that may arise. 	Criteria: 1. Compatibility of integration with selected external tools. 2. Creativity in optimizing LMS functionality. 3. Students' ability to respond to and solve problems that arise. 4. Relevance of the solution to the study case. Form of Assessment : Participatory Activities	Live classroom demonstration of the integration process with examples of external tools. Direct consultation and feedback from teachers. 2 X 50	Presentation of LMS integration concepts and guidance with external tools. Online discussion of the benefits and potential of integration. Providing online case studies about LMS integration experiences with external tools. Online discussion of strategies and solutions. 2 X 50	Material: Definition, function, benefits of learning management system Reader: Beetham, Helen and Rhona Sharpe. 2007. Rethinking Pedagogy for a Digital Age: Designing and delevering e- learning. USA: Routledge. Material: Definition, functions, benefits of learning management systems References: Durin, Allison. 2009. Mobile Technology for Children: Design for Interaction and Learning. USA: Elseiver. Material: Definition, functions, benefits of learning. USA: Elseiver. Material: Definition, functions, benefits of learning management systems References: Ficara, Francisco V. Cipolla. 2010. Quality and Communicability for Interactive Hypermedia Systems: Concepts	5%
13	Students are able to manage security and usage policies in the LMS	 Student's ability to manage security and usage policies in the LMS. Conformity of policy implementation with security principles. 	Criteria: 1. Compliance of implementation with needs and guidelines. 2. Effectiveness in improving LMS security. 3. Students' ability to respond and solve security-related problems. 4. Relevance of the solution to the study case. Form of Assessment : Participatory Activities	Group discussions in class regarding case studies related to security and usage policies. Joint problem solving and analysis. Direct consultation and feedback 2 X 50	Presentation of concepts and guidelines regarding security and usage policies in LMS. Online discussion regarding the importance of security in the context of online learning. Implementation of security policies in the LMS independently by students. 2 X 50	and Practices for Design. USA: IGI Global. Material: Applications and features in the learning management system References: <i>References:</i> <i>References:</i> <i>References:</i> <i>Anderson, Terry and</i> <i>Fathi Elloumi. 2004.</i> <i>Theory and Practice</i> of Online Learning. USA: Athabasca University. Material: Applications and features in the learning management system Reader: Beetham, Helen and Rhona Sharpe. 2007. Rethinking Pedagogy for a Digital Age: Designing and delevering e- learning. USA: Routledge.	5%

14	Students can develop a comprehensive LMS	 Students' ability to evaluate and design improvements to the LMS. Quality of evaluation and improvement documentation. 	Criteria: 1.Quality of evaluation analysis. 2.Creativity in designing improvements. 3.Quality and completeness of documentation. 4.Quality of improvement recommendations. Form of Assessment : Project Results Assessment / Product Assessment, Test	Evaluation of the LMS being developed. Problem solving and group discussions. 2 X 50	Presentation of LMS evaluation concepts and principles. Presentation of LMS evaluation case studies. Online discussion regarding evaluation results and proposed improvements. Making evaluation and improvement documentation. 2 X 50	Material: Learning management system in accordance with learning problems . Reference : Anderson, Terry and Fathi Elloumi. 2004. Theory and Practice of Online Learning. USA: Athabasca University. Material: Learning management system in accordance with learning problems Readers: Beetham, Helen and Rhona Sharpe. 2007. Rethinking Pedagogy for a Digital Age: Designing and delevering e- learning. USA: Routledge. Material: Learning management system in accordance with learning problems Readers: Moller, Leslie, Jason Bond Huett and Douglas M. Harvey. 2009. Learning and Instructional Technologies for the 21st Century: Vision of the Future. USA: Springer.	5%
15	Students are able to evaluate and design improvements to the LMS	 Students' ability to evaluate and design improvements to the LMS. Quality of evaluation and improvement documentation. 	Criteria: 1. Quality of evaluation analysis. 2. Creativity in designing improvements. 3. Quality and completeness of documentation. 4. Quality of improvement recommendations. Form of Assessment : Project Results Assessment / Product Assessment	Evaluation of the LMS being developed. Problem solving and group discussions in class. 2 X 50	Presentation of LMS evaluation concepts and principles. Presentation of evaluation and improvement case studies. Online discussion regarding evaluation results and proposed improvements. Making evaluation and improvement documentation. -	Material: learning management system according to learning problems References: Ficarra, Francisco V. Cipolla. 2010. Quality and Communicability for Interactive Hypermedia Systems: Concepts and Practices for Design. USA: IGI Global. Material: learning management system according to learning problems Readers: Moller, Leslie, Jason Bond Huett and Douglas M. Harvey. 2009. Learning and Instructional Technologies for the 21st Century: Vision of the Future. USA: Springer. Material: learning management system according to learning problems References: Ficarra, Francisco V. Cipolla. 2010. Quality and Communicability for Interactive Hypermedia Systems: Concepts and Practices for Design. USA: IGI Global.	5%

16	UAS	 The quality of student presentations regarding LMS development. Students' ability to explain the improvements implemented. 	Criteria: 1.Quality of presentation. 2.Ability to explain repairs in detail. 3.Ability to explain implemented fixes and improvements. Form of Assessment : Project Results Assessment / Product Assessment	Each student presented the results of the LMS development that had been carried out. Describes the improvements and improvements implemented. 4 X 50	-	Material: UAS Literature: Sumarno, Alim, et al. 2020. Information and Communication Technology Based Learning Handout. Surabaya: Unesa FIP Educational Technology	25%
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Evaluation Percentage Recap: Project Based Learning

No	Evaluation	Percentage
1.	Participatory Activities	12.5%
2.	Project Results Assessment / Product Assessment	72.5%
3.	Test	15%
		100%

Notes

- Learning Outcomes of Study Program Graduates (PLO Study Program) are the abilities possessed by each Study Program graduate which are the internalization of attitudes, mastery of knowledge and skills according to the level of their study program obtained through the learning process.
- 2. 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.
- 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.
- 9. 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 subtopics.
- 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.