

Universitas Negeri Surabaya Vocational Faculty , D4 Sports Coaching Study Program

Document Code

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				SEM	ESTER	LEA	RNIN	IG F	PLA	N			
Courses	3		cc	DDE		Course I	amily		Cred	lit We	ight	SEMESTER	Compilation Date
Sports T	echn	ology	85	20604031					T=1	P=1	ECTS=3.18	3	July 16, 2024
AUTHOR	RIZAT	TION	SP	Develope	r	1		Cours	e Clu	ster C	oordinator	Study Progr Coordinator	
												Dr. Kunjung Ashadi, S.Pd. M.Fis., AIFO.	
Learning model	9	Case Studies	•										
Progran		PLO study pro	PLO study program that is charged to the course										
Learnin		PLO-5	PLO-5 Have devotion to God Almighty and be able to show a religious attitude										
(PLO)		PLO-15	Able to design physical training programs and various types of science and technology-based training models for both individuals and athletes or sports teams according to physical characteristics in accordance with individual needs for health or sports needs										
		Program Object	ctives (PO)									
		PLO-PO Matrix	(
			I	P.O	PLO-5	P	LO-15						
		PO Matrix at th	e end of e	each learn	ing stage (S	ub-PO)							
			P.O					W	eek				
				1 2	3 4	5 6	7	8 9	1	0 1	11 12	13 14	15 16
Short Course Descrip		This course is a sports technology	n introducti y, sports he	ion, learnin ealth techno	g/teaching, de llogy, sports fa	evelopmen acilities and	t, imple I infrasti	mentati ucture	on and	d eval e deve	uation of spo elopment of sp	orts technology ports technolog	the scope of
Referen	ices	Main :											
		 Thompson, G, 2001, 1CSports Technology 1D, Nelson Library, Australia Ross, S, 2010, 1CSports Technology 1D, Evan Brothers Limited, London Fridell,R, 2009, 1CSports Technology-Cool Science 1D, Lerner, London Fuss, K., Subic, A., Strangwood, M., Mehta, R., 2014, 1CRoutledge Handbook of Sports Technology and Engineering 											
		Supporters:											
Support lecturer		Dr. Abdul Hafidz, Dr. Mochamad P Muhammad Khai Dr. Donny Ardy k Dio Alif Airlangga	urnomo, S. ris Fajar, S. Kusuma, S.	Pd., M.Kes .Pd., M.Pd. Pd., M.Kes									
Week-	eac			Eva	luation			Lea: Stude	elp Le rning i ent Ass stimat	metho signm	nods, Learning ments, materials		Assessment Weight (%)
	(Su	b-PO)	Indic	cator	Criteria &	& Form		ine (ine)	0	nline	(online)	1	
(1)		(2)	(;	3)	(4)		(5)		(6)	(7)	(8)

1	Understanding the	1 41.1.	Critorio	Loctures		0%
1	history and	1.Able to understand the	Criteria: 1.The assessment	Lectures, Discussions,		0%
	development of	history and	is carried out on	Questions		
	Sports Technology	development of	the following	and		
		sports	aspects:	Answers		
		technology	2.Participation	2 X 50		
		2.Able to explain	during lectures			
		the history and	and peer teaching			
		development of	is carried out			
		sports	through			
		technology	observation			
		3.Able to apply	(weight 2)			
		the history and	Subsummative			
		development of	tests (UTS) are			
		sports	carried out once			
		technology	with indicators 1-7			
			through written			
			exams and are			
			given weights (2)			
			Written test			
			assessments in			
			peer teaching and			
			practicum are			
			considered as			
			assignments, the			
			scores are			
			averaged , then			
			given a weight of			
			(3) The UAS			
			score is done in writing with			
			indicators 9-16			
			given a weight of			
			(3) The final NA is			
			(participation			
			score x2) (Task			
			score x 3) (UTS			
			score x 2) UAS			
			score (3) divided			
			by 10			
			Subsummative			
			Exam Results			
			(UTS) is given a			
			weight of 2. Final			
			Semester			
			Examination			
			(UAS) results are			
			given a weight of			
			3		 	

2 Understanding of the sports industry and its development. 2. Able to explain the sports industry and its development 3. Able to apply an understanding of the sports industry and its development 4. Able to explain the sports industry and its development 5. Able to explain the sports industry and its development 6. Able to apply an understanding of the sports industry and its development 8. Able to apply an understanding of the sports industry and its development 8. Able to apply an understanding of the sports industry industry and its development 9. Subsummative tests (UTS) are carried out once with indicators 1-7 through written exams and are given weights (2). Written test assessments in peer teaching and practicum are considered as assignments, the scores are averaged, then given a weight of (3) The UAS score is done in writing with indicators 9-1.6 given a weight of (3) The final NA is (participation score x2) (Task
score x 3) (UTS score x 2) UAS score (3) divided by 10 Subsummative Exam Results (UTS) is given a weight of 2. Final Semester Examination (UAS) results are given a weight of 3

2	Understanding of	1 411 :	Cuitouio	Loctures		00/
3	Understanding of technological developments in sports equipment and support in the Running (Athletics) branch	1.Able to understand the development of equipment technology and sports support in running (athletics) 2.Able to explain the development of equipment technology and sports support in running (athletics) 3.Able to implement technological developments in sports equipment and support in running (athletics)	Criteria: 1.The assessment is carried out on the following aspects: 2.Participation during lectures and peer teaching is carried out through observation (weight 2) Subsummative tests (UTS) are carried out once with indicators 1-7 through written exams and are given weights (2) Written test assessments in peer teaching and practicum are considered as assignments, the scores are averaged , then given a weight of (3) The UAS score is done in writing with indicators 9-16 given a weight of (3) The final NA is (participation score x2) (Task score x 2) UAS score (3) divided by 10 Subsummative Exam Results (UTS) is given a weight of 2. Final Semester Examination (UAS) results are given a weight of 3	Lectures, discussions, questions and answers 2 X 50		0%

		1				
ted de sp an	Inderstanding of echnological evelopments in ports equipment and support in umping (Athletics)	1.Able to understand the development of equipment technology and sports support in Jumping (Athletics) 2.Able to explain the development of equipment technology and sports support in Jumping (Athletics) 3.Able to implement the implementation of technological developments in sports equipment and support in Jumping (Athletics)	Criteria: 1.The assessment is carried out on the following aspects: 2.Participation during lectures and peer teaching is carried out through observation (weight 2) Subsummative tests (UTS) are carried out once with indicators 1-7 through written exams and are given weights (2) Written test assessments in peer teaching and practicum are considered as assignments, the scores are averaged , then given a weight of (3) The UAS score is done in writing with indicators 9-16 given a weight of (3) The final NA is (participation score x2) (Task score x 3) (UTS score x 2) UAS score (3) divided by 10 Subsummative Exam Results (UTS) is given a weight of 2. Final Semester Examination (UAS) results are given a weight of 3	Lectures, discussions, questions and answers 2 X 50		0%

		T	I		
5 Understandin technological developments sports equipn and support in Throwing (Athletics)	in understand the development of	is carried out on the following aspects: 2.Participation during lectures and peer teaching is carried out through observation (weight 2)	Lectures, discussions, questions and answers 2 x 50		0%

	Lindaustausius: -f	Ablata	1	I		00/
6	Understanding of technological developments in sports equipment and support in the branch of football	Able to understand the development of equipment technology and sports support in the branch of football	Criteria: 1.The assessment is carried out on the following aspects: 2.Participation during lectures and peer teaching is carried out through observation (weight 2) Subsummative tests (UTS) are carried out once with indicators 1-7 through written exams and are given weights (2) Written test assessments in peer teaching and practicum are considered as assignments, the scores are averaged , then given a weight of (3) The UAS score is done in writing with indicators 9-16 given a weight of (3) The final NA is (participation score x2) (Task score x 3) (UTS score x 2) UAS score (3) divided by 10 Subsummative Exam Results (UTS) is given a weight of 2. Final Semester Examination (UAS) results are given a weight of	Lectures, discussions, questions and answers 2 X 50		0%
			3			

technological developments in sports equipment and support in badminton 2. Able to explain the development of equipment technology and sports support in badminton 3. Able to apply technological developments in sports support in badminton 3. Able to apply technological developments in sports equipment and support in badminton 3. Able to apply technological developments in sports equipment and support in badminton 3. Able to apply technological developments in sports equipment and support in badminton 4. Able to apply technological developments in sports equipment and support in badminton 5. Able to apply technological developments in sports equipment and support in badminton 6. Able to apply technological developments in sports equipment and support in badminton 7. Able to apply technological developments in sports equipment and support in badminton 8. Socieval to the following aspects: 9. Subsummative tests (UTS) are carried out once tests (UTS) is given a weight of (3) The Inal N is (participation score x2) (Task score x 3) (UTS score x 2) UAS score is done in writing with indicators 9-16 given a weight of (3) The final NA is (participation score x2) (Task score x 2) UAS score x 3) (UTS score x 3) (UT	7 Understein	iding of 4	Outsout	1	I	00/
given a weight of	technologi developmi sports equ and suppo	ical ents in ignent in	is carried out on the following aspects: 2. Participation during lectures and peer teaching is carried out through observation (weight 2) Subsummative tests (UTS) are carried out once with indicators 1-7 through written exams and are given weights (2) Written test assessments in peer teaching and practicum are considered as assignments, the scores are averaged , then given a weight of (3) The UAS score is done in writing with indicators 9-16 given a weight of (3) The final NA is (participation score x2) (Task score x 3) (UTS score x 2) UAS score (3) divided by 10 Subsummative Exam Results (UTS) is given a weight of 2. Final Semester Examination (UAS) results are given a weight of	questions and answers		0%

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10	Understanding of technological	1.Able to	Criteria:	Lectures,		0%
	developments in	understand the	1.The assessment	discussions,		
	sports equipment	development of		questions		
	and support in	equipment	the following	and answers		
	combat sports	technology and	aspects:	2 X 50		
		sports support	2.Participation	2 X 30		
		in combat	during lectures			
		sports	and peer teaching			
		2.Able to explain	is carried out			
		the	through			
		development of				
		equipment	(weight 2)			
		technology and	Subsummative			
		sports support	tests (UTS) are			
		in combat	carried out once			
		sports	with indicators 1-7			
		3.Able to apply	through written			
		technological	exams and are			
		developments	given weights (2)			
		in sports	Written test			
		equipment and	assessments in			
		support in	peer teaching and			
		combat sports	practicum are considered as			
			assignments, the scores are			
			averaged , then			
			given a weight of			
			(3) The UAS			
			score is done in			
			writing with			
			indicators 9-16			
			given a weight of			
			(3) The final NA is			
			(participation			
			score x2) (Task			
			score x 3) (UTS			
			score x 2) UAS			
			score (3) divided			
			by 10			
			Subsummative			
			Exam Results			
			(UTS) is given a			
			weight of 2. Final			
			Semester			
			Examination			
			(UAS) results are			
			given a weight of			
			3			

	1	7			T	1
11	Understanding of technological developments in sports equipment and support in basketball	1.Able to understand technological developments in sports equipment and support in basketball 2.Able to explain the development of sports equipment and support technology in basketball 3.Able to apply the ethics of technological development of sports equipment and support in the sport of basketball	(weight 2) Subsummative tests (UTS) are carried out once with indicators 1-7 through written exams and are given weights (2)	Lectures, discussions, questions and answers 2 X 50		0%

12	Understanding of	1 Abla ta	Criteria:	Lectures,		0%
12	technological	1.Able to understand	1.The assessment	discussions,		U%0
	developments in	technological	is carried out on	questions		
	sports equipment and support in	developments	the following	and		
	water sports	in sports	aspects:	answers		
	water operto	equipment and	2.Participation	2 X 50		
		support in	during lectures			
		water sports	and peer teaching			
		2.Able to explain	is carried out			
		the	through			
		development of	observation			
		sports	(weight 2)			
		equipment and	Subsummative			
		support	tests (UTS) are			
		technology in	carried out once			
		water sports	with indicators 1-7			
		3.Able to apply	through written			
		ethical	exams and are			
		developments	given weights (2)			
		in equipment	Written test			
		technology and	assessments in			
		sports support	peer teaching and			
		in water sports	practicum are			
			considered as			
			assignments, the			
			scores are			
			averaged , then			
			given a weight of			
			(3) The UAS			
			score is done in			
			writing with indicators 9-16			
			given a weight of			
			(3) The final NA is			
			(participation			
			score x2) (Task			
			score x 3) (UTS			
			score x 2) UAS			
			score (3) divided			
			by 10			
			Subsummative			
			Exam Results			
			(UTS) is given a			
			weight of 2. Final			
			Semester			
			Examination			
			(UAS) results are			
			given a weight of			
			3			

13	Understanding of technological developments in sports equipment and support in cycling sports	1.Able to understand the development of equipment technology and sports support in cycling sports 2.Able to explain the development of equipment technology and sports support in cycling sports 3.Able to apply ethical developments in equipment technology and sports support in cycling sports 3.Able to apply ethical developments in equipment technology and sports support in cycling sports	Criteria: 1. The assessment is carried out on the following aspects: 2. Participation during lectures and peer teaching is carried out through observation (weight 2) Subsummative tests (UTS) are carried out once with indicators 1-7 through written exams and are given weights (2) Written test assessments in peer teaching and practicum are considered as assignments, the scores are averaged , then given a weight of (3) The UAS score is done in writing with indicators 9-16 given a weight of (3) The final NA is (participation score x2) (Task score x 3) (UTS score x 2) UAS score (3) divided by 10 Subsummative Exam Results (UTS) is given a weight of 2. Final Semester Examination (UAS) results are given a weight of 3	Lectures, discussions, questions and answers 2 X 50		0%

14	Understanding of	4	Guitavia.	Lastinas		00/
14	Understanding of technological developments in equipment and sports support in the Paralympic Games	1.Able to understand technological developments in equipment and sports support in the Paralympic Games 2.Able to explain technological developments in equipment and sports support in the Paralympic Games 3.Able to apply ethical developments in equipment technology and sports support in the Paralympic Games	Criteria: 1.The assessment is carried out on the following aspects: 2.Participation during lectures and peer teaching is carried out through observation (weight 2) Subsummative tests (UTS) are carried out once with indicators 1-7 through written exams and are given weights (2) Written test assessments in peer teaching and practicum are considered as assignments, the scores are averaged , then given a weight of (3) The UAS score is done in writing with indicators 9-16 given a weight of (3) The final NA is (participation score x2) (Task score x 2) UAS score (3) divided by 10 Subsummative Exam Results (UTS) is given a weight of 2. Final Semester Examination (UAS) results are given a weight of 3	Lectures, discussions, questions and answers 2 X 50		0%

Understanding of technological developments in acrospace sports equipment and support 1. Able to understand developments in acrospace sports equipment and support 2. Able to explain the development of aerospace sports equipment and support 3. Able to apply ethics in technological development and support for aerospace sports sports 4. Able to explain the development of aerospace sports 5. Participation during lectures and peer teaching its carried out on the discoverage of the development of aerospace sports 6. Weight 2. Subsummative tests (UTS) are carried out once with indicators 1-7 through written est assessments in peer teaching and are given weights (2) Written test assessments in peer teaching and are given weights (2) Written test assessments in peer teaching and are given weights (2) Written test assessments in peer teaching and are given weights (2) Written test assessments in peer teaching and are given weights (2) Written test assessments in peer teaching and are given weights (2) Written test assessments in peer teaching and are given weights (2) Written test assessments in peer teaching and are given weights (2) Written test assessments in peer teaching and are given weights (2) Written test assessments in peer teaching and are given weights (2) Written test assessments in peer teaching and are given weights (2) Written test assessments in peer teaching and are given weights (2) Written test assessments in peer teaching and are given weights (2) Written test assessments in peer teaching and are given weights (2) Written test assessments in peer teaching and are given weights (2) Written test assessments in peer teaching and are given weights (2) Written test assessments in peer teaching and are given weights (2) Written test assessments in peer teaching and are given weights (2) Written test assessments in peer teaching and are given weights (2) Written test as a second and are given the form are given weights (2) Written test as a second are given weights (2) Written test as a second are gi
weight of 2. Final Semester Examination (UAS) results are given a weight of

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16	Understanding current and future technological developments in the world of Health and Sports Science	1.Able to understand current and future technology in the world of Health and Sports Science 2.Able to explain current and future technology in the world of Health and Sports Sciences 3.Able to apply technology ethics in the world of health and sports science today and in the future	Criteria: 1.The assessment is carried out on the following aspects: 2.Participation during lectures and peer teaching is carried out through observation (weight 2) Subsummative tests (UTS) are carried out once with indicators 1-7 through written exams and are given weights (2) Written test assessments in peer teaching and practicum are considered as assignments, the scores are averaged , then given a weight of (3) The UAS score is done in writing with indicators 9-16 given a weight of (3) The final NA is (participation score x2) (Task score x 3) (UTS score x 2) UAS score (3) divided by 10 Subsummative Exam Results (UTS) is given a weight of 2. Final Semester Examination (UAS) results are given a weight of 3	Lectures, discussions, questions and answers 2 X 50		0%

Evaluation Percentage Recap: Case Study

		70	
No	Evaluation	Percentage	
		0%	

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.
- 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.
- 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 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%.

 ${\bf 12.}\ \ {\bf TM\text{--}Face\ to\ face,\ PT\text{--}Structured\ assignments,\ BM\text{--}Independent\ study.}$