

## Universitas Negeri Surabaya Faculty of Sports and Health Sciences Bachelor of Sports Science Study Program

Document Code

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Courses	3			CODE		Course I	amily		Cred	lit Wei	ght	SEMESTER	Compilation Date
Sports T	echn	ology		8920102173					T=2	P=0	ECTS=3.1	3	July 17, 2024
AUTHOR	RIZAT	TION		SP Develope	r			Cours	e Clu	ster C	oordinator	Study Progr Coordinator	am
													ahyudi, S.Or., I.Pd.
Learning model	9	Project Based L	.earnin	g									
Progran Learnin		PLO study pro	gram t	hat is charge	d to the cou	irse							
Outcom (PLO)		Program Object	ctives (	(PO)									
(PLO)		PLO-PO Matrix	O Matrix										
		P.O											
		PO Matrix at th	e end	of each learn	ing stage (S	Sub-PO)							
			P.	<del> </del>		- I o			eek		4   40	10   14	45 40
				1 2	3 4	5 6	7	8 9	1	0 ]	.1 12	13 14	15 16
Short Course Descrip		This course is a sports technolog	n introc y, sport	duction, learnin s health techno	g/teaching, do blogy, sports fa	evelopmen acilities and	t, impler I infrastr	mentatio ucture a	on and	d evali e deve	uation of sp lopment of	oorts technology sports technolog	the scope of
Referen	ices	Main :											
		2. Ross, S, 3. Fridell,R	2010, 2 , 2009,	2001, 1CSports 1CSports Tech 1CSports Tech A., Strangwoo	nology 1D, Ev nology-Cool \$	an Brother Science 1D	s Limite , Lerner	d, Lond , Londo	on n	ok of S	ports Techr	nology and Engi	neering
		Supporters:											
Support lecturer		Anna Noordia, S Dr. Roy Januardi Yetty Septiani M A Burhanuddin K	i Irawan ustar, S	, S.Or., M.Kes. .KM., M.P.H.									
Week-	eac	nal abilities of och learning age		Evaluation			Lear Stude	elp Le rning i ent Ass stimat	metho signm	ds, ents,	Learning materials [ References	Assessment Weight (%)	
	(Su	b-PO)	I	ndicator	Criteria d	& Form		ine ( ine )	0	nline	( online )	]	
(1)		(2)		(3)	(4	)	(!	5)		- (	6)	(7)	(8)

1 history and development of sports Technology 2. Able to explain the history and development of sports technology 3. Able to apply the history and development of sports technology 3. Able to apply the history and development of sports technology 4. Able to apply the history and development of sports technology 4. Able to apply the history and development of sports technology 5. Able to apply the history and development of sports technology 6. Able to apply the history and development of sports technology 6. Able to apply the history and development of sports technology 6. Able to apply the history and development of sports technology 7. Able to apply the history and development of sports technology 8. Able to apply the history and development of sports technology 9. Able to apply the history and development of sports technology 9. Able to apply the history and development of sports technology 9. Able to apply the history and development of sports technology 9. Able to apply the history and development of sports technology 9. Able to apply the history and development of sports technology 9. Able to apply the history and development of sports technology 9. Able to apply the history and development of sports the total number of sports and pear teaching and practicum are considered as assignments, the scores are averaged, then given a weight of (3) The final exam score is done in writing with indicators 9-16 given a weight of (3) The final basic score x.) (UTS score x.)		,		T		T	
	1	history and development of	understand the history and development of sports technology  2. Able to explain the history and development of sports technology  3. Able to apply the history and development of sports	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 weight (2) Written test assessments in peer teaching and practicum are considered as assignments, the scores are averaged , then given a weight (3) The final exam 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	Discussions, Questions and Answers		0%

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2	Understanding of the sports industry and its development.	1.Understand 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 development	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 weight (2)  Written test assessments in peer teaching and practicum are considered as assignments, the scores are averaged , then given a weight (3)  The final exam 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%

The chinological development of and support in the Running (Athletics) branch  The Running (At			_		I .	-	
	3	developments in sports equipment and support in the Running (Athletics)	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	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 weight (2) Written test assessments in peer teaching and practicum are considered as assignments, the scores are averaged , then given a weight (3) The final exam 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	questions and answers		0%

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4	Understanding of technological developments in sports equipment and support in Jumping (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 weight (2) Written test assessments in peer teaching and practicum are considered as assignments, the scores are averaged , then given a weight (3) The final exam 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%

5	Understanding of technological	1.Able to	Criteria:	Lectures, discussions,		0%
	developments in	understand the	1.The assessment	questions		
	sports equipment	development of	is carried out on	and		
	and support in	equipment	the following	answers		
	Throwing (Athletics)	technology and	aspects:	2 X 50		
	(Atmetics)	sports support	2.Participation	2 X 30		
		in throwing	during lectures			
		(athletics)	and peer teaching			
		<ol><li>Able to explain</li></ol>	is carried out			
		the	through			
		development of	observation			
		equipment	(weight 2)			
		technology and	Subsummative			
		sports support	tests (UTS) are			
		in throwing	carried out once			
		(athletics)	with indicators 1-7			
		3.Able to apply	through written			
		technological	exams and are			
		developments	given weight (2)			
		in sports	Written test			
		equipment and	assessments in			
		support in	peer teaching and			
		throwing	practicum are			
		(athletics)	considered as			
			assignments, the			
			scores are			
			averaged , then			
			given a weight (3)			
			The final exam			
			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			

6 Undarrata	ading of Ablo to	0.3	1 4		00/
6 Understar technolog developm sports equand suppobranch of	ical understand the ents in development of equipment ort in the technology and	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 weight (2) Written test assessments in peer teaching and practicum are considered as assignments, the scores are averaged , then given a weight (3) The final exam 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%

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7	Understanding of technological developments in sports equipment and support in badminton	1.Able to understand the development of equipment technology and sports 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 equipment and support in badminton	the following aspects: 2.Participation during lectures and peer teaching is carried out	Lectures, discussions, questions and answers 2 X 50		0%

8	Understanding of technological developments in sports equipment and support in the field of tennis	1.Able to understand technological developments in sports equipment and support in the field of tennis 2.Able to explain the development of equipment technology and sports support in the field of tennis 3.Able to apply ethical developments in equipment technology and sports support in the field of tennis	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 weight (2)  Written test assessments in peer teaching and practicum are considered as assignments, the scores are averaged , then given a weight (3)  The final exam 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%
9	Midterm exam			2 X 50		0%

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10	Understanding of technological developments in sports equipment and support in combat sports	1. Able to understand the development of equipment technology and sports support in combat sports 2. Able to explain the development of equipment technology and sports support in combat sports 3. Able to apply technological developments in sports equipment and support in combat 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 weight (2) Written test assessments in peer teaching and practicum are considered as assignments, the scores are averaged , then given a weight (3) The final exam 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 subsummmative 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%

technological understand 1. The assessment discussions, questions	0%
sports equipment and 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  3. Able to apply the ethics of technological development of sports equipment and support in the sport of basketball  3. The final exam score is done in writing with indicators 9-16 given a weight of (3) The final NA is (participation score x 2) (Lask score x 3) (UTS score x 2) UAS score (3) divided by 10 subsummative exam results (UTS) is given a weight of 3 semester Examination (UAS) results are given aveight of 2 semester Examination (UAS) results are given aveight of 2 semester (UAS) results are given aveight of 2 semester (UAS) results are given aveight of 2 semest	

12	Understanding of	1 41-1-1	Critoria	Loctures		0%
12	technological	1.Able to understand	Criteria: 1.The assessment	Lectures, discussions,		U%
	developments in	technological	is carried out on	questions		
	sports equipment	developments	the following	and		
	and support in water sports	in sports	aspects:	answers		
	water sports	equipment and	2.Participation	2 X 50		
			during lectures			
		support in	and peer teaching			
		water sports  2.Able to explain	is carried out			
		the	through			
			observation			
		development of	(weight 2)			
		sports	Subsummative			
		equipment and	tests (UTS) are			
		support	carried out once			
		technology in	with indicators 1-7			
		water sports	through written			
		3.Able to apply ethical	exams and are			
		developments	given weight (2)			
		in equipment	Written test			
		technology and	assessments in			
		sports support	peer teaching and			
		in water sports	practicum are			
		iii water sports	considered as			
			assignments, the			
			scores are			
			averaged, then			
			given a weight (3)			
			The final exam			
			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			

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to constant	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	(weight 2) Subsummative tests (UTS) are carried out once with indicators 1-7 through written exams and are given weight (2) Written test assessments in peer teaching and practicum are considered as assignments, the scores are averaged , then given a weight (3) The final exam 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) (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	Lectures, discussions, questions and answers 2 X 50		0%

	1	T.	ı	1	1	1
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 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 weight (2)  Written test assessments in peer teaching and practicum are considered as assignments, the scores are averaged , then given a weight (3)  The final exam 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%

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15	Understanding of technological developments in aerospace sports equipment and support	1.Able to understand technological developments in aerospace sports equipment and support 2.Able to explain the development of aerospace sports equipment and support technology 3.Able to apply ethics in technological development of equipment and support for aerospace 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 weight (2)  Written test assessments in peer teaching and practicum are considered as assignments, the scores are averaged , then given a weight (3)  The final exam 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%

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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 weight (2) Written test assessments in peer teaching and practicum are considered as assignments, the scores are averaged , then given a weight (3) The final exam 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: Project Based Learning

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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.
- 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.
- 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.

- 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%.
   TM=Face to face, PT=Structured assignments, BM=Independent study.