SEMESTER LEARNING PLAN



INSTITUT TEKNOLOGI SEPULUH NOPEMBER (ITS)

Sub-Directorate of Common Lectures Coordination (SKPB)

Document Code

			Semester Learnin	ng Plan			
Course		Code	Cluster	Credit Hours		Semester	Compilation Date
Technology Based E	intrepreneurship	UG 234915	SKPB	2	0	VI / VII	19 June 2023
(Technopreneurship	o)						
Authorization / Val	idation	Compiled by:	led by:		Course Cluster Coordinator		ctorate
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		 Yuni Setyaningsih, 	S.K.PM., M.SC.				
		 Muhammad Ubaid 	illah Al Mustofa, M.SEI				
		 Tim Dosen Kewirau 	ısahaan Berbasis				
		Teknologi (Techno	preneurship) ITS				
Learning	LO	LO descriptions					
Objectives (LO)	LO 1	Demonstrate attitudes and character that reflect devotion to God Almighty, ethics and integrity, noble character, sensitive for social and environmental problems, respecting cultural differences and pluralism, upholding law enforcement, printerests of the nation and broader community through creativity and innovation, excellence, strong leadership, synergy notantials to achieve maximum results.				enforcement, prioritizing the	
	LO 3	potentials to achieve maximum results. Manage one's own learning and develop oneself as a lifelong learner to compete at national and international levels contribution to solving problems by implementing information and communication technology, paying attention to principles, and understanding technology-based entrepreneurship.					

	Course L	earning Outcomes (CLC	0)				
	CLO	Description					
	CLO 1 Adapt to the situation and survive in uncertain conditions by conducting appropriate feasibility analysis calculations.						
	CLO 2	Be innovative and cr	reative to produce	market-oriente	d, technology-based product designs (or prototypes) by utilizing Artificial Intelligence.		
	CLO 3	Prepare business pl	an proposals that a	are attractive ar	d persuasive to investors.		
	CLO 4	Formulate Digital M	arketing model an	d strategy.			
	CLO 5	Formulate needs for	or HR aspects and	operational as	pects based on stages which are realized in simulations to build a sense of team		
		responsibility that p	rioritizes business	ethics.			
	CLO 6	Prepare financial pla	ans in business pro	posals.			
	CLO 7	Create a simple web	content and opti	mize simple wel	pages.		
LO and CLO							
mapping			LO 1	LO 3			
		CLO 1	√	1			
		CLO 2		1			
		CLO 3		1 1			
		CLO 4	,	1 1			
		CLO 5	٧	1	4		
		CLO 6		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	_		
		CLO 7		ν	」		
Short Course Description	student's introduct be able t	s field of expertise and tion to theory and direction	develop business t practice (hands-ortunities in the fo	opportunities on experience)	to identify and evaluate technology-based business opportunities according to the using Digital Marketing (Artificial Intelligence). This course combines an integrated in developing business ideas and opportunities. In the end, students are expected to es or products that are ready to be sold and effective business plans as a team to be		
Study Materials	2. F	echnopreneur and Bus Recognizing Opportuniti easibility Analysis of Bu	es and Creating Bu		ng Artificial Intelligence		

	4. Develop an effective Business Model	
	5. Digital Marketing & Marketing Funnel	
	6. Create a Simple Google My Business Website	
	7. Operational and HR Management	
	8. Financial Management	
References	Main	
	References:	
	Main Reference	
	1. Technopreneurship. Tim Pengembangan Technopreneurship ITS (2015). Surabaya: ITS Press. Supporting References: Supporting references	
	Supporting	
	References:	
	Supporting references	
	1. Barringer, B. R., & Ireland, R. D. (2010). Entrepreneurship: Successfully launching new ventures. Upper Saddle River, N.J: Prentice Hall.	
	2. Osterwalder, A., Pigneur, Y., & Clark, T. (2010). Business model generation: A handbook for visionaries, game changers, and challengers. Hoboken, NJ: Wiley.	
	3. William, B. K., Sawyer, S. C., Berston, S., (2013). Business: A Practical Introduction. Upper Saddle River, N.J.: Prentice Hall	
	4. International Labor Organization., (2014) Start and Improve Your Business: Implemetation Guide. ISBN: 9789221288060; 9789221288077 (web pdf)	
	5. International Labor Organization., (2015). Generate Your Business Idea. ISBN: 9789221287575; 9789221287582 (web pdf)	
	6. Kotler, Philip. 2010. Manajemen Pemasaran. Edisi tiga belas Bahasa Indonesia. Jilid 1 dan 2. Jakarta: Erlangga.	
Lecturers	- Muchammad Nurif, SE., MT	
	- Yuni Setyaningsih, S.K.Pm., M.Sc.	
	- Muhammad Ubaidillah Al Mustofa, M.SEI	
	- ITS Technopreneurship Lecturer Team	
Prerequisites		

Week	Course Learning Outcomes	Assessm		Forms of Learn Methods, and A Stude [Estimate	ssignments of ents ed time]	Learning materials [References]	Assessme nt Weight (%)
		Assessment Indicators	Criteria and Forms of Assessment	Online	Offline		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1	CLO 1: Adapt to the situation and survive in uncertain conditions by conducting appropriate feasibility analysis calculations.	Introduction to Technopreneurship and Business a. Explain Technopreneurship principles and their role. b. Identify and explain the characteristics of a successful Technopreneur. c. Explain the process of becoming a Technopreneur. d. Explain the role of Technopreneurship in society. e. Explain the economy and Business in the VUCA (Volatility, Uncertainty, Complexity and Ambiguity) era.	Criteria: Mastery and Accuracy of answers Assessment Form: Report the results of interviews.	discussion, collaboration group presentation Assignments Environmental ar	ents (PT): tes ag (BM): tes construction of the services of	1. ITS Technopreneurs hip Book 2. Barringer 3. Task: Interview entrepreneurs and stakeholder analysis	5%

2	CLO 2:	Recognizing Opportunities and	Criteria:	٧	1. ITS	5%
2	CLO 2: Be innovative and creative to produce market-oriented, technology-based product designs (or prototypes) by utilizing Artificial Intelligence.	Recognizing Opportunities and Creating Business Ideas: a. Explain the importance of starting a new business. b. Identify the personal characteristics needed to identify business opportunities.	Criteria: Mastery and Accuracy of answers Assessment Form: Group Presentation	Form of Learning: Classical Lecture Face to Face Learning (TM): 2 credits x 50" minutes Structured assignments (PT): 2 credits x 50" minutes Independent learning (BM): 2 credits x 50" minutes Learning Method: Small group discussion, collaborative learning, group presentation Assignments & Exercises: 1. Develop a business idea (group presentation) 2. Students are asked to present Pre-Assignment 1 (Problem and Solution) to be discussed together at the 3rd meeting.	Technopreneurs hip Book 2. Barringer 3. Task: develop business ideas (ideation) – Problems and Solutions	5%

3	CLO 1	Business Feasibility:	Criteria:	V	1. ITS 5%
3	CLO 1 CLO 2	Business Feasibility: a. Explain the importance of business ideas, their feasibility and analysis. b. Explain and apply concept statements and market feasibility. c. Evaluate the feasibility of a business idea	Criteria: Mastery and Accuracy of answers Assessment Form: Group Presentation	Form of Learning: Classical Lecture Face to Face Learning (TM): 2 credits x 50" minutes Structured assignments (PT):	1. ITS 5% Technopreneurs hip Book 2. Barringer 3. Task: prepare a feasibility study
		busiliess lued		2 credits x 50" minutes Independent learning (BM): 2 credits x 50" minutes Learning Method: Small group discussion, collaborative learning, group presentation	
				Assignments & Exercises: Prepare a feasibility study draft (focuses on creating a business idea)	

4	CLO 1 CLO 2	Guest Lecture: 1. Introduction to Artificial Intelligence (AI). 2. Understand creative steps in identifying business opportunities using AI. 3. Introduction to Digital Marketing	Criteria: Mastery and Accuracy of answers Assessment Form: Group Presentation	Form of Learning: Classical Lecture Face to Face Learning (TM): 2 credits x 50" minutes Structured assignments (PT): 2 credits x 50" minutes Independent learning (BM): 2 credits x 50" minutes	 ITS Technopreneurs hip Book Barringer Assignment: Preparation of Presentation and Submission of Assignment 1 	5%
5	CLO 1 CLO 2	PRESENTATION AND ASSIGNMENT 1: Creating a Business Idea	Criteria: Mastery and Accuracy of answers Assessment Form: Group Presentation A business idea must answer three fundamental questions: 1. Problems 2. Solutions 3. Benefits	Form of Learning: Classical Lecture Face to Face Learning (TM): 2 credits x 50" minutes Structured assignments (PT): 2 credits x 50" minutes Independent learning (BM): 2 credits x 50" minutes Learning Method: Small group discussion, collaborative learning, group presentation Assignments & Exercises: Presentation Assignment 1	 ITS Technopreneurs hip Book Barringer Presentation and Submission of Assignment 1 	5%

6	CLO 3	Developing an effective	Criteria:	V	1. Osterwalder	5%
	Prepare business plan proposals	Business Model	Mastery and Accuracy of	•	2. PPT Tim	
	that are attractive and persuasive to	a. Explain business model	answers	Classical Lecture	Technopreneurshi	
	investors.	innovation.			p ITS	
		b. Compile and design a	Assessment Form:	Face to Face Learning (TM):	·	
		Business Model Canvas	Group Presentation	2 credits x 50" minutes		
		(BMC) based on proposed				
		business ideas.		Structured assignments (PT):		
		c. Evaluate business models.		2 credits x 50" minutes		
				Independent learning (BM):		
				2 credits x 50" minutes		
				Learning Method: Small group		
				discussion, collaborative learning,		
				group presentation		
				Assignments & Exercises: BMC		

7	CLO 4	Marketing Management:	Criteria:	V	1. Philip Kotler	5%
	Formulate Digital Marketing	a. Understand overall market	Mastery and Accuracy of	Form of Learning:	Marketing	
	model and strategy.	aspects.	answers	Classical Lecture	Management	
		b. Understand marketing			2. ITS	
		aspects and marketing	Assessment Form:	Face to Face Learning (TM):	Technopreneurs	
		strategies.	Group Presentation	2 credits x 50" minutes	hip Team PPT	
		c. Understand the concept of				
		4P Place, Product, Price		Structured assignments (PT):		
		Promotion.		2 credits x 50" minutes		
		d. Apply marketing plans to				
		<mark>business ideas by utilizing</mark>		Independent learning (BM):		
		digital marketing and		2 credits x 50" minutes		
		<mark>marketplaces</mark> .				
				Learning Method: Small group		
				discussion, collaborative learning,		
				group presentation		
				Assignments & Eversions		
				Assignments & Exercises: - Market analysis and 4P exercises		
				- Make a Digital Marketing plan		
				- Make a Digital Marketing plan		

8-9	СРМК 3	ASSIGNMENT 2:	Criteria:	٧	1. Osterwalder	10%
	СРМК 4	Business Model, Marketing	Mastery and Accuracy of		2. Kotler	
		Plan, and Prototyping	answers		3. PPT Tim	
					Technopreneurship	
			Assessment Form:	Face to Face Learning (TM):	ITS	
			Group Presentation	2 credits x 50" minutes		
			Task 2:	Structured assignments (PT):		
			1. BMC	2 credits x 50" minutes		
			2. Digital marketing			
			strategy and market	Independent learning (BM):		
			plan (marketplace)	2 credits x 50" minutes		
			3. Show the design or			
			prototype of the	Learning Method: Small group		
			product/service created	discussion, collaborative learning,		
			created	group presentation		
				Assignments & Exercises:		
				Task 2: Business Model, Marketing		
				Plan, and Prototyping		
				Transparent recessions		

10	CLO 3	Writing a Business Plan	Criteria:	V	1. Example of 5	5%
		a. Explain the purpose of the	Mastery and Accuracy of	Form of Learning:	business	
		business plan.	answers	Classical Lecture	proposals from	
		b. Explain the business			the competition	
		process of the business	Assessment Form:	Face to Face Learning (TM):	2. ITS	
		idea being designed.	Analysis and Draft	2 credits x 50" minutes	Technopreneurs	
		c. Write a business plan	Business Plan		hip Book	
		systematically and		Structured assignments (PT):	3. ITS	
		effectively.		2 credits x 50" minutes	Technopreneurs hip Team PPT	
				Independent learning (BM):	•	
				2 credits x 50" minutes		
				Learning Method: Small group discussion, collaborative learning, group presentation		
				Assignments & Exercises: Practice		
				preparing a Business Plan		
				preparing a Business rian		

11	CLO 5:	Operational and HR	Criteria:	Form of Learning:	a. ITS	5%
	Formulate needs for HR aspects and	Management:	Mastery and Accuracy of	Classical Lecture	Technopreneurs	
	operational aspects based on stages	a. Understand how to create	answers		hip Book	
	which are realized in simulations to	an organizational structure		Face to Face Learning (TM):	b. ITS	
	build a sense of team responsibility	and develop good	Assessment Form:	2 credits x 50" minutes	Technopreneurs	
	that prioritizes business ethics.	organizational	Group Presentation		hip Team PPT	
		management (HR		Structured assignments (PT):	c. Independent	
		Management).		2 credits x 50" minutes	learning	
		b. Understand business			assignments: HR	
		ethics and the concept of		Independent learning (BM):	management	
		Company Shared Value		2 credits x 50" minutes	aspects	
		(CSV)				
				Learning Method: Small group		
				discussion, collaborative learning,		
				group presentation		
				Assignments & Exercises:		
				- Creating a flow of business		
				operational activities and		
				developing an organizational		
				structure		
				- Establish Company Shared		
				Values (CSV)		

12	CLO 6:	Financial management	Criteria:	Form of Learning:	a. ITS	5%
	Prepare financial plans in business	a. Understand the function of	Mastery and Accuracy of	Classical Lecture	Technopreneurs	
	proposals.	the financial aspects in	answers		hip Book	
		making a business plan.		Face to Face Learning (TM):	b. ITS	
		b. Calculate breakeven point.	Assessment Form:	2 credits x 50" minutes	Technopreneurs	
		c. Calculate working capital	Group Presentation		hip Team PPT	
		requirements.		Structured assignments (PT):	c. Independent	
		d. Explain business feasibility		2 credits x 50" minutes	learning	
		using financial ratios (such as: Net Present Value, The		Independent learning (BM):	assignment: Financial	
		Payback Rule, The Average		2 credits x 50" minutes	Management	
		Accounting Return, The		2 credits x 50 minutes	aspects	
		Internal Rate of Return,		Learning Method: Small group	aspects	
		The Profitability Index,		discussion, collaborative learning,		
		etc.)		group presentation		
				Assignments & Exercises: establish a		
				business feasibility using a financial		
				ratio approach.		

13	CLO 7	Creating Web Content	Criteria:	Form of Learning:	a. ITS	5%
	Create a simple web content and	a. Create simple web	Mastery and Accuracy of	Classical Lecture	Technopreneurs	
	optimize simple web pages.	content.	answers		hip Book	
		b. Understand the concept		Face to Face Learning (TM):	b. ITS	
		of Search Engine	Assessment Form:	2 credits x 50" minutes	Technopreneurs	
		Optimization (SEO).	Group Presentation		hip Team PPT	
		c. Create business		Structured assignments (PT):	c. Independent	
		optimization plans on		2 credits x 50" minutes	learning	
		marketplace platforms,			assignment: <mark>SEO</mark>	
		blogs and simple		Independent learning (BM):		
		<mark>websites</mark> .		2 credits x 50" minutes		
				Learning Method: Small group		
				discussion, collaborative learning,		
				group presentation		
				Assignments & Exercises: Creating		
				Simple Web Content		

14	СРМК 5	PRODUCT EXHIBITION	Criteria:	Form of Learning:	Technopreneurship	5%
	СРМК 6		Mastery and Accuracy of	Classical Lecture	Books and PPTs from	
	СРМК 7		answers		the ITS Team	
				Face to Face Learning (TM):		
			Assessment Form:	2 credits x 50" minutes		
			Group Presentation			
				Structured assignments (PT):		
				2 credits x 50" minutes		
				Independent learning (BM):		
				2 credits x 50" minutes		
				Learning Method: Small group		
				discussion, collaborative learning,		
				group presentation		
				Assignments & Exercises: Product		
				Prototype Presentation		

15-16	СРМК 5	ASSIGNMENT 3:	Criteria: Mastery and	Form of Learning:	Technopreneurship	30%
	СРМК 6	Presentation of	Accuracy of answers	Classical Lecture	Books and PPTs from	
	СРМК 7	Business Plan			the ITS Team	
			Assessment Form:	Face to Face Learning (TM):		
			Group Presentation	2 credits x 50" minutes		
			Assignment 3 – Business	Structured assignments (PT):		
			Plan:	2 credits x 50" minutes		
			1. Conception and			
			background of the	Independent learning (BM):		
			business idea along	2 credits x 50" minutes		
			with its justification			
			(developed from	Learning Method: Small group		
			task 1);	discussion, collaborative learning,		
			2. Business Model and	group presentation		
			Marketing Plan (developed from	Assignments & Exercises: Business		
			task 2);	Plan Proposal		
			3. Operational analysis	Tian Troposai		
			and HR needs;			
			4. Financial analysis			
			and start-up fund			
			needs;			
			5. CSV;			
			6. Create simple web			
			content and			
			optimization			
			strategies;			
			7. Collect			
			product/service			
			prototypes that			
			have been created			
			to the class lecturer.			
			TOTAL			100%

Rules and Discipline

- Arrive on time.
- Students are prohibited from using electronic equipment (cellphones, laptops and tablets) during lectures, unless requested by the lecturer/tutor.
- Plagiarism in any form will result in a zero score, it is very easy to detect writing that has been published on the internet.
- Assignments must be submitted on time. Late submission of assignments will result in a reduction in grades (25% per day).
- Absence from presentation/practice questions and discussions for any reason will result in the score component being zero.
- Students who commit attendance fraud, commit violations that are considered inappropriate during lectures, will automatically be given an E grade.
- Your activity in class will affect individual grades.
- Each form of question in each session will receive a value (75 90).
- Students ask by raising their hands.

Assessment & Evaluation Plan

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Week	CLO (2)	Assessment and Grading	Weight (%) (4)
9-10	CLO 3	Assignment 2: Business Model, Marketing, and Prototyping	30
	CLO 4	- From the business ideas identified in the previous assignment (Task 1), make the following analysis:	
		Business Model Canvas	
		Digital marketing strategies and plans (Digital Marketing and Marketplace).	
		 Market analysis of business ideas plans and marketing strategies that will be implemented. 	
		Show designs or prototypes of products/services using Artificial Intelligence.	
		- Collected in the form of Progress Reports (PDF Format) and presentation materials (PPT Format)	
15-16	CLO 5	Assignment 3: Preparation of a Business Plan	35
	CLO 6	- Based on tasks 1 and 2, in Assignment 3 each group must prepare a complete Business Plan, which includes:	
	CLO 7	 Conception and background of the business idea along with its justification (developed from task 1). 	
		Business Model and Marketing Plan (developed from task 2).	
		Operational analysis and human resource needs.	
		Financial analysis and start-up fund needs.	
		Present CSV.	
		Creating simple web content and its optimization strategy.	
		Collect prototypes of products/services that have been created.	
		- Business Proposals (PDF Format) and PPT are collected in soft files	
		TOTAL WEIGHT	100