

MODULE HAND BOOK

MECHANICAL ENGINEERING VOCATIONAL EDUCATION STUDY PROGRAM

FACULTY OF ENGINEERING – UNIVERSITAS NEGERI PADANG

COURSE NAME		CODE	Со	urse classification	CI	J	Sem	Version	
					Theory	Pract			
Entrepreneurship		UNP1.60.3101	General course building for ent	for softskill / Character repreneur	3	0	3	1	
Responsible		Muhd. Adri, S.Pd, I	MT, Dr. Marwan,	. M.Pd, Thamrin, S.Pd, MM	Signature				
INFORMATION		Dea	n	Head of Department	Coordi	nator of	study p	rogram	
		Dr. Fahmi Rizal, M NIP. 19591204198	5031004	Drs. Purwantono, M.Pd NIP. 196308041986031002	-	wanton 5308041		002	
Program Learning	Program learning outcom	e of Mechanical eng	gineering vocation	onal education:					
Outcome	profesional jobs / p 1.1. possess a good problems 1.2. possess a good problems 1.3. possess a good problems 2. Possess a critical a problems in mecha <i>analysis, investigat</i> 2.1. problem identif 2.2. problem analys 2.3. problem evalua	d understanding and understanding and understanding and understanding and understanding and creative thing and assessment of the stills and assessment of the stills attion skills	e-understandir and can apply the and can apply nd can apply k king in identify using the most ent):	nathematics and natural scien og) e basic concept of mathemat basic the concept of physi basic the concept of chemist ing, formulating, problem sc appropriate and effective sc nd operating machines (Engin	tics to sol ic to sol ry to so olving an cientific r	olve vari ve vario lve vario d evalu nethod	ous tec ous tec ous tec ating v	chnical chnical chnical arious	

	3.1. able to formulate ideas/concepts into a technical drawing, design and budget plans	
	3.2. able to operate various machines and other engineering equipment with the correct stand procedure	ard operating
	3.3. able to design a machine or machinery system based on a valid scientific theory	
	3.4. able to realize a concept/design into a prototype, manufacturing process and engineering sy	stem
	 4. Possess a good ability to design, organize and evaluate the education and learning process engineering vocational education. (Education design) 4.1. able to design survivulum and learning process by considering various aspects 	in <i>mechanical</i>
	4.1. able to design curriculum and learning process by considering various aspects	
	4.2. able to organize, control, evaluate and improve the quality of the learning process	
	 4.3. able to develop an interesting, effective and efficient learning medias 5. Possess a good ability to adapt to development in science and technology and apply it into proby considering any non-technical aspects. <i>(Engineering practice)</i> 	fessional jobs
	5.1. able to innovate and develop technology in the field of mechanical engineering by cons economic and environmental aspects	idering social,
	5.2. able to carry out the optimization process and increase the efficiency of machines or machine5.3. able to improve the performance of machine/ machinery system by applying the information	• /
	 Possess a good softskil and spirit of lifelong learning (Transferable skill / softskill) 6.1. possess a religious character 	
	 6.2. possess a spirit of nasionalisme, social sensitivity and environmental consevation orientation 6.3. possess the ability to communicate effectively and work together in teamwork 6.4. possess the ability to transfer science and technology to society to improve the quality of life 	
	6.5. possess a good characters of entrepreneur	
Course learning	Course Learning Outcomes	
outcomes		1
		PLO
	1. Students are able to observe, understand, explain the definition of entrepreneurship, the terms and characteristics of entrepreneurship	6.3, 6.4, 6.5
	2. Students are able to understand, explain the steps in building a business organization and starting a business	6.3, 6.4, 6.5
	3. Students are able to understand how to determine business ideas and ideas and analyze the type of business to be developed	6.3, 6.4, 6.5
	 Students are able to compile, present and revise a Business Plan according to the characteristics of the business to be developed 	6.3,6.4, 6.5

	2. Excel Application for Business Plan Budgets	2. Sample Product
	3. Video Lecture Teaching	3. Display Design
	4. Mobile e-Commerce Application	
	5. Mobile Social Media Application	
Teaching team		
Assessment	Mid Test, Final Test, Individual task & team, group	discussion and presentation
Prerequisite courses	No	

COURSE SUBJECT

Week	Expected competencies	Topics	Method and strategy for leraning	Assignment	Criterion / Assessment indicattor	Reference s
1	2	4	5		6	7
(1)	CLO-1: (PLO-6.3, 6.4, 6.5) Students are able to observe, understand and explain the importance of entrepreneurship courses and the role of entrepreneurs in nation building, factors that cause entrepreneurial success and motivation.	 Introduction to courses & lecture contracts. The purpose and benefits of lectures Entrepreneurship related issues Examples of successful entrepreneurs Entrepreneurial motivation 	- Discussio n	 Paper Oral test Quiz Observation Report 	 Assignment Paper Assessment Sheet Assessment quiz Field Observation Report Assessment Instruments 	RU. 1,2,3 RP. 1,2,3,4,5
(2)	CLO-1: (PLO-6.3, 6.4, 6.5) Students are able to observe, understand, explain the definition of entrepreneurship, the terms and characteristics of entrepreneurship	 Entrepreneurship Concept Definition of entrepreneurship Entrepreneurial requirements Characteristics of entrepreneurship (Learning through observation of the experiences of successful and failed entrepreneurs) Determine business models 	 Discussio n Discovery Learning Case study Field observati on 	- Oral test - Quiz - Report	 Assignment Paper Assessment Sheet Assessment quiz Field Observation Report Assessment Instruments 	RU. 1,2,3 RP. 1,2,3,4,5

		- Business Law and Ethics				
(3)	CLO-2: (PLO-6.3, 6.4, 6.5) Students are able to understand, explain the steps in starting a business	Starting a business : - Analyze the business environment - - Analyzing Business Opportunities	 Field observatio n Discussion Discovery Learning 	 Oral test Quiz Observation report 	 Assignment Paper Assessment Sheet Assessment quiz Field Observation Report Assessment Instruments 	RU. 1,2,3 RP.,3,4,5,6, 7,8,9
(4)	CLO-3: (PLO-6.3, 6.4, 6.5) Students are able to understand how to determine business ideas and ideas and analyze types of businesses	 Determine business ideas and ideas Analyze the type of business - product or service 	 Field observatio n Discussion Discovery Learning 	 Oral test Quiz Observation report 	 Assignment Paper Assessment Sheet Assessment quiz Field Observation Report Assessment Instruments 	RU. 1,2,3 RP. 1,2,3,4,5,6, 7,8,9
(5)	CLO-3: (PLO-6.3, 6.4, 6.5) Students are able to compile a business plan according to the business being run	 Business Plan Systematics Business Profile Market share Strategy (Technology and information) Production of Goods and Services Marketing Competition and Risk Analysis Financial aspect 	 Discussion Problem based learning 	 Oral test Quiz Assignment of the Draft Business Plan 	 Assignment Paper Assessment Sheet Assessment quiz Business Plan Assessment Instruments 	RU. 1,2,3 RP. 1,2,3,4,5,6, 7,8,9
(6)	CLO-4: (PLO-6.3, 6.4, 6.5) Students are able to present a Business Plan	 Business plan presentation techniques Business Plan Presentation 	 Discussion Discovery learning Project 	- Presentation Assessment	- Presentation Assessment Rubric	RU. 1,2,3 RP. 1,2,3,4,5,6, 7,8,9
			base learning			

	Students are able to present	- Revision and improvement	- Discovery	Assessment	Assessment Rubric	1,2,3,4,5
	and revise business plans	of business plans	learning	- Business	- Business Plan	RP.
			- Project	Plan	Proposal	1,2,3,4,5,6,
			Base	Proposal	Assessment	7,8,9
			Learning		Instrument	, -, -
(8)	CLO-6: (PLO-6.3, 6.4, 6.5)	- Entrepreneurial	- Discussion	- Oral test	- Assignment Paper	RU.
	Students understand the	Opportunities and	- Discovery	- Quiz	Assessment Sheet	1,2,3,4,5
	opportunities and challenges	Challenges in the	learning	- Observation	- Assessment quiz	RP.
	of entrepreneurship in the IT	Information Technology era	Project	report on e-	- Field Observation	1,2,3,4,5,6,
	era and take a role with	- e-Commerce, Social Media	Base	commerce	Report	7,8,9
	technology as a means of	and Mobile Apps	Learning	and mobile	Assessment	
	competition and business	- IT era business competition		apps	Instruments	
	development	and development				
(9)		MIDI	TERM EXAM (UTS)			1
(10)			D			
(10)	CLO-7: (PLO-6.3, 6.4, 6.5)	- Concepts and Principles of	- Discussion	- Oral test	- Assignment Paper	RU.
	Students understand and	Social Entrepreneurship	- Discovery	- Quiz	Assessment Sheet	1,2,3,4,5
	implement the concepts and	- Social entrepreneurship	learning	- Observation	- Assessment quiz	RP.
	principles of social	as a responsibility in	 Project Base 	reports on	- Field	1,2,3,4,5,6,
	entrepreneurship as part of	building the community's	Learning	social	Observation	7,8,9
	their responsibility to build	economy		entrepreneu	Report	
	the community's economy			rs such as	Assessment	
				Garbage	Instruments	
				Banks and so		
				on.		
(11,12)	CLO-7: (PLO-6.3, 6.4, 6.5)	- Entrepreneurial practice	- Field	- Entrepr	- Entrepreneurial	RU.
	Students are able to put a		Practices	eneurial	process	1,2,3,4,5
	business plan into a real			process	assessment	RP.
	business			assessm	instrument	1,2,3,4,5,6,
				ent	- Instrumental	7,8,9
				- Entrepr	Video	
				eneurial	Assessment of	
				activity	entrepreneurial	
				videos	activities	

(13,14)	CLO-8: (PLO-6.3, 6.4, 6.5) Students are able to compile reports on entrepreneurial practice and present them	 Entrepreneurial Practice Report Entrepreneurial Practice Report Presentation 	 Discussion Case study 	- Entrepr eneurial Practice Report	 Entrepreneurial Practice Report Assessment Instrument 	RU. 1,2,3,4,5 RP. 1,2,3,4,5,6, 7,8,9
(15)	CLO-9: (PLO-6.3, 6.4, 6.5) Students are able to reflect and review the results of business practices that have been carried out	 Reflection and review of business practices Completion and Development of the Business Plan 	- Case study	 Reviwer Entrepren eurship practices Business Plan Developm ent Assessme nt 	 The instrument reviews entrepreneurial practices Business Plan Development Assessment 	RU. 1,2,3,4,5 RP. 1,2,3,4,5,6, 7,8,9
(16)	Final exams (UAS)	PORTFOLIO (Business Plan, E and Entrepreneurial Practice	Portfolio Assessment Ins	truments		

The linkage between CLO and PLO and assessment methods

MSN1.62	Assessment	Point	I	PLO-1	L		PLO-2	2		PLO	D-3			PLO-4	1		PLO-5	5			PLO-(5	
.4007		(%)	1	2	3	1	2	3	1	2	3	4	1	2	3	1	2	3	1	2	3	4	5
CLO-1	SA.1	10																		V	V		
CLO-1	SA.2.3	20																		V	V		
CLO-2	Mid-Test 1	5																		V	V		
CLO-2	Mid-Test 2	5																		V	V		
CLO-2	Mid-Test 3	5																		V	V		
CLO-3	Mid-Test 4	5																		V	V		
CLO-3	Mid-Test 5	5																		V	V		
CLO-3	Mid-Test 6	5																		V	V		
CLO-3	Mid-Test 7	5																		V	V		
CLO-4	Final Test-1	5																		V	V		
CLO-4	Final Test-2	5																		V	V		
CLO-4	Final Test-3	5																		V	V		

CLO-5	Final Test-4	5									V	V	
CLO-5	Final Test-5	5									V	V	
Presence		10									V	V	
TOTAL		100											

Assessment Component

- 1. Student activities and assignments : 40%
- 2. Mid Test : 20%
- 3. Final Test : 30%
- 4. Attendances : 10%

Scoring/Grading level description

	Excellent	Good	Satisfy	Fail
ability to describe	Able to describe correctly and	Able to describe correctly but not	Able to describe but less clear and incomplete	Unable to describe
	completely	complete		
ability to formulate	Able to formulate correctly and completely	Able to formulate correctly but not complete	Able to formulate but less clear and incomplete	Unable to formulate
ability to calculate	Able to calculate correctly and completely	Able to calculate correctly but not complete	Able to calculate but less clear and incomplete	Unable to calculate
ability to analyze	Able to analysize correctly and completely	Able to analyze correctly but not complete	Able to analyze but less clear and incomplete	Unable to analyze

Scoring and grading system

Score	Quality	Quality score	Designation	Score	Quality	Quality score	Designation
85 – 100	А	4.0	Outstanding	55 - 59	С	2.0	Acceptable

80 - 84	A-	3.6	Excellent	50 - 54	C-	1.6	Poor
75 – 79	B+	3.3	Very good	40 - 49	D	1.0	Poor
70 - 74	В	3.0	Good	≤ 39	E	0.0	Fail
65 - 69	B-	2.6	Good	-	Т	-	Tertunda
60 - 64	C+	2.3	Acceptable				