

MODULE HAND BOOK MECHANICAL ENGINEERING VOCATIONAL EDUCATION STUDY PROGRAM FACULTY OF ENGINEERING – UNIVERSITAS NEGERI PADANG

COURSE NAME		CODE		Course classification	C	U	Sem	Version
					Theory	Pract		
Pancasila		UNP.1.60.1402 / 1403		l compulsory course/ er building	2 0 2		1	
Responsible		Drs. Nurman S, M.Si, Rita A Luthfi, M.Pd	ngraini, N	I.Pd, Irwan, M.Sc and Zaky Farid		signa	ture	
Information		Dean		Head of Department		Coordinator of study program		
		<u>Dr. Fahmi Rizal, M.Pd.,</u> NIP. 195912041985033		<u>Drs. Purwantono, M.Pd</u> NIP. 196308041986031002		<u>s. Purwan</u> 19630804		
Learning Outcome	The learning outcome program	m of Mechanical engineering	g vocatior	al education:				
Program	professional jobs / pro 1.1. possess a good und 1.2. possess a good und 1.3. possess a good und 2. Possess a critical and c	jects(Knowledge-understa derstanding and can apply derstanding and can apply derstanding and can apply reative thingking in identif ng using the most app	nding) the basic basic the basic the fying, for	c concept of mathematics to so e concept of physics to solve va e concept of chemistry to solve mulating, problem solving and	natics and natural sciences) and other disciplines in cept of mathematics to solve various technical problems cept of physics to solve various technical problems cept of chemistry to solve various technical problems ing, problem solving and evaluating various problems in effective scientific method <i>(Engineering analysis,</i>			

- 2.1. problem identification skills
- 2.2. problem analysis skills
- 2.3. problem evaluation skills
- 3. Possess a good ability in designing, manufacturing and operating machines (Engineering design)
 - 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 standard operating procedure
 - 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 system
- 4. Possess a good ability to design, organize and evaluate the education and learning process in mechanical engineering vocational education. *(Education design)*
 - 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 media
- 5. Possess a good ability to adapt to development in science and technology and apply it into professional jobs by considering any non-technical aspects. *(Engineering practice)*
 - 5.1. able to innovate and develop technology in the field of mechanical engineering by considering social, economic and environmental aspects
 - 5.2. able to carry out the optimization process and increase the efficiency of machines or machining system.
 - 5.3. able to improve the performance of machine / machinery system by applying the information technology
- 6. Possess a good soft skill and spirit of lifelong learning(Transferable skills / soft skills)
 - 6.1. possess a religious character
 - 6.2. possess a spirit of nationalism, 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 outcomes	Course learning outcomes						
outcomes	CLO	CPL					
	1. Able to explain basic concepts, history, foundation, urgency and goals of Citizenship Education in higher education.						
	2. Able to identify National Identity as one of the determinants of national development and character	6.1, 6.2, 6.3					
	3. Able to analyze the urgency of National Integrity as one of the parameters of national unity and integrity						
	4. Understand the values and norms of the Constitution, the 1945 Constitution and the constitutionality of the statutory provisions under the 1945 Constitution						
	5. Able to demonstrate the obligations and rights of the state and citizens in a democracy that are rooted in people's sovereignty and deliberation for consensus.						
	 6. Able to explain the nature of the instrumentation and praxis of Indonesian democracy based on Pancasila and the 1945 Constitution 7. Able to analyze historical dynamics of constitutional, socio-political, cultural, and just law enforcement. 						
	8. Able to understand the historical dynamics and urgency of the Archipelago insight as a collective concept and view of the Indonesian nationality in the context of world relations.	6.2, 6.3, 6.4					
	9. Able to analyze the urgency and challenges of national resilience and state defense for the Indonesian nation in building a national collective commitment.	6.2, 6.3, 6.4					
Course description	The Citizenship course teaches students to become citizens with Pancasila spirit and to behave in accordation values, understand the Indonesian state system based on the 1945 Constitution. Understand the rights citizens and contribute to the nation's development						
References	Main references (RU):						
	 Abdul A'ala Maududi, 1985. Human Rights in Islam. Bandung: Putaka. Akmal, 2015. Citizenship Education in the Perspective of National Resilience: Theory, Problems and Bung Hatta University Perss. 	Strategies. Padang:					

	3. Asyuri Ibn Chamin, et al. 2003. Citizenship Education. Yogyakarta: MPTPP Muhammadiyah University.
	4. Bahar, S. 1996. National Integration: Problem Theory and Strategy. Jakarta: Ghalia Indonesia.
	5. Basrie, C. 2002. The Concept of Indonesian National Resilience in the Capita Selecta of Citizenship Education. Part II. Jakarta: Academic Personnel Improvement Project, Dirjend Dikti, Depdiknas.
	6. CICED. 1999. Democratic Citizens in a Civil Society: Report of the Conference on Civic Education for Civil Society. Bandung: CICED
	7. Director General of Belmawa Kemenristekdikti. 2016. Citizenship Education for Higher Education. Jakarta. Mold I
	8. Hardiman, BF. 2011. Human Rights, Polemic with Religion and Culture. Jakarta: Kanisius
	 Kaelan, 2007. Citizenship Education. Yogyakarta: Paradigm.
	10. Pasha, MK, 2008. Civic Education. Yogyakarta: Citra Karsa Mandiri.
	11. Rahayu, Minto, 2009. Civics: The Struggle to Live the Nation's Self. Jakarta: Grasindo.
	12. Winarno, 2014. New Paradigm of Citizenship Education, a Guide to Studying in Higher Education. Jakarta: Earth
	Literacy.
	13. Winataputra, US. 2001. Identity of Citizenship Education as a Systematic Vehicle for Democracy Education. Bandung:
	Dissertation of SPS UPI Bandung.
Add	litional references (RP)
1.	Asshiddiqie, J. 2006. Indonesian Constitution and Constitutionalism. Jakarta: Secretariat General & Registrar's Office
	of the Constitutional Court.
2.	Azhari, AF. 2005. Finding Democracy. Surakarta: Muhammadiyah University Press.
3.	Budimansyah, D and Suryadi, K. 2008. Civics and Multi-structural Society. Bandung: UPI SPS.
4.	Esposito. JL and Voll, JO,. 1999. Democracy in Islamic Countries: Problems and Prospects. Bandung: Mizan.
5.	
	(Civics). UNP TINGKAP Scientific E-Journal Vol. XI No. 1 year 2015.
6.	Edi Saputra. 2012. The Existence of Civics as Value Education in Building National Character. National Seminar
	Proceedings: UNP Press.
7.	Hatta, M. 1992. Our Democracy. Jakarta: Idayu Press.
8.	Kaelan. 2012. Epistemological Problems of the Four Pillars of Nation and State. Yogyakarta: Paradigm
9.	Lemhanas Committee. 1980. Interest of National Resilience. Conception and Theory. Jakarta: PT Ripres Utama.
10	. Tilaar, HAR. 2007. Indonesian Ethnicity and National Identity of Indonesia. Jakarta: PT Rineka Putra.

	National Anthem. 13. Yamin, M. 1956. Indonesian cons	4 of 2009. Regarding the Flag, Language and National Symbol, as well as the stituents in the arena of democracy. Jakarta: PT Djambat. of Citizenship Education as a Systematic Vehicle for Democracy Education.				
Learning media	Software:	Hardware:				
		Computer, LCD Projector and whiteboards and other devices				
Teaching team						
Assessment	Mid Test, Final Test, Individual task & tea	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	References	Week
1	2	3	4	5	6	7	8
(1)	CLO-1: (PLO-6.1, 6.2, 6.3) Know, understand, and appreciate the importance of Civics courses in higher education	 Learning contract Syllabus and learning subjects Lecture method and assignments 	Presentation, question and answer, discussion, and homework	100 minute	 Understand the lecture contract Understand RPS and SAP Understand the lecture strategy 	 Explain the lecture contract Describe RPS and SAP Explain the lecture strategy 	RU-1 and RU-2
(2)	CLO-2: (PLO-6.1, 6.2, 6.3)	The Concept and Urgency of Citizenship:	Explanation of course material,	100 minute	 Students listen to information about lecture materials 	1. Understand the concept and urgency of the lecture	RU-1 and RU-2

	Able to explain basic concepts, history, foundation, urgency and goals of Citizenship Education in higher education	 Reasons for the need for Civics in Higher Education Historical, sociological, and political sources of Civics in Indonesia Arguments about the dynamics and challenges of Civics The essence and urgency of Civics for the future Examples of civics practices 	Questions and Answers, Discussions, and assignments		 2. Students ask and discuss lecture material 3. Students receive assignments from lecturers for the next meeting 	 2. Finding reasons for the need for Civics at PT 3. Able to explore historical, sociological, and political sources about Civics in Indonesia 4. Build arguments about the dynamics and challenges of Civics 5. Describe the essence of Civics for the future 	
(3)	CLO-3: (PLO- 6.2, 6.3) Able to identify National Identity as one of the determinants of national development and character	 National Identity Concept and urgency of National Identity Reasons for the need for an Indonesian National Identity Historical, sociological, and political sources of National Identity Arguments about the dynamics and challenges of Indonesia's National Identity 	Explanation of course material, Questions and Answers, Discussions, and assignments	100 minute	 The lecturer directs guides student discussions The group presents the results of their resume Students discuss about the resume that is presented. Students make a summary of the discussion results under the guidance of the lecturer. The lecturer gives assignments for the 	 Understand the concept and urgency of National Identity Find reasons for the need for a National Identity Exploring historical, sociological, and political sources regarding National Identity Building arguments about the dynamics and challenges of Indonesia's National Identity 	RU-1 and RU-2

		 The essence and urgency of Indonesia's National Identity Summary of National Identity Examples of civics practices 		100	next meeting.	 Summarize material about Indonesia's National Identity The practice of citizenship 	
(4)	CLO-4: (PLO-6.2, 6.3) Able to analyze the urgency of National Integrity as one of the parameters of national unity and integrity	National Integration 1. Concept and urgency of National Integration 2. Reasons for the need for National Integration 3. Historical, sociological, and political sources on National Integration 4. Arguments about the dynamics and challenges of National Integration 5. The essence and urgency of National Integration 6. Conclusion of Indonesian National Integration 7. Examples of civics practices.	Explanation of course material, Questions and Answers, Discussions, and assignments	100 minute	 The lecturer directs / guides student discussions The group presents the results of their resume Students discuss (not just questions and answers) about the resumes that are presented. Students make a summary of the discussion results under the guidance of the lecturer. The lecturer gives assignments for the next meeting. 	 Understand the concept and urgency of National Integration Finding reasons for the need for National Integration Exploring historical, sociological, and political sources on National Integration Building arguments about the dynamics and challenges of National Integration Describe the essence and urgency of National Integration Summarize Indonesia's National Integration The practice of citizenship 	RU-1 and RU-2
(5,6)		Constitution and UUD	Explanation of	100 minute	1. Lecturers guide	1. Understand the	RU-1

CLO-5: (PLO- 6.2	. 1945	course	student discussions	concept and urgency of	and
6.3)	1. The concept and	material,	2. The group presents	the constitution in the life	RU-2
0.3)	urgency of the	Questions and	the results of their	of the nation and state.	
Understand the	constitution in the life	Answers,	resume	2. Finding reasons for the	
values and norm	ns of of the nation and	Discussions,	3. Students discuss (not	need for a constitution in	
the Constitution	, state.	and	just questions and	the life of the nation and	
the 1945	2. The reasons for the	assignments	answers) about the	state	
Constitution and	d the need for a		resumes that are	3. Exploring historical,	
constitutionality	of constitution in the life		presented.	sociological and political	
the statutory	of the nation and		4. Students make a	sources of the	
provisions unde	r the state		summary of the	Constitution in the life of	
1945 Constitutio	on. 3. Historical,		discussion results under	the nation and state in	
(2 week of	sociological, and		the guidance of the	Indonesia	
classroom)	political sources of the		lecturer.	4. Building arguments	
	Constitution in the life		5. The lecturer gives	about the dynamics and	
	of the nation and		assignments for the	challenges of the	
	state in Indonesia		next meeting.	constitution in the life of	
	4. Arguments			the nation and state in	
	regarding the			Indonesia	
	dynamics and			5. Describe the essence	
	challenges of the			and function of the	
	constitution in the life			Constitution in the life of	
	of the nation and			the nation and state	
	state in Indonesia			6. Summary of the	
	5. The essence and			Constitution / UUD	
	responsibility of the			7. The practice of	
	Constitution in the life			citizenship.	
	of the nation and				
	state				
	6. Conclusions on the				
	Constitution				
	7. The practice of				

		citizenship.					
6.3) Abl the righ (7) and den roo sov deli	O-6: (PLO-, 6.2, 3) ble to demonstrate e obligations and ghts of the state ad citizens in a emocracy that are oted in people's vereignty and eliberation to ach a consensus	Harmonization of State's Obligations and Rights with Citizens in Democracy 1. The concept and urgency of harmonizing the obligations and rights of the state and citizens. 2. Reasons for the need to harmonize the obligations and rights of the state and citizens. 3. Historical, sociological, and political sources regarding the harmonization of the obligations and rights of the state and citizens. 4. Building arguments regarding the dynamics and challenges of harmonizing the obligations and rights of the state and	Explanation of course material, Questions and Answers, Discussions, and assignments	100 minute	 Lecturers guide student discussions The group presents the results of their resume Students discuss (not just questions and answers) about the resumes that are presented. Students make a summary of the discussion results under the guidance of the lecturer. The lecturer gives assignments for the next meeting. 	 Understand the concept and urgency of harmonizing the obligations and rights of the state and citizens. Finding reasons for the need to harmonize the obligations and rights of the state and citizens. Exploring historical, sociological and political sources regarding the harmonization of the obligations and rights of the state and citizens. Building arguments regarding the dynamics and challenges of harmonizing the obligations and rights of the state and citizens. Describe the essence and responsibility of harmonizing the obligations and rights of the state and citizens. A summary of the harmonization of obligations and rights of the state and citizens. 	RU-1 and RU-2

		citizens.				7. The practice of	
		5. Describe the				citizenship.	
		essence and				enzensnip.	
		responsibility of					
		harmonizing the					
		obligations and rights					
		of the state and					
		citizens.					
		6. A summary of the					
		harmonization of					
		obligations and rights					
		of the state and					
		citizens.					
		7. The practice of					
		citizenship					
(8)				Mid	Test	1	
		Pancasila Democracy	Explanation of	100 minute	1. Lecturers guide	1. Understand the	RU-1
		1. The concept and	course		student discussions	concept and urgency of	and
	CLO-6: (PLO-, 6.2,	urgency of democracy	material,		2. The group presents	democracy that comes	RU-2
	6.3)	originating from	Questions and		the results of their	from Pancasila.	
		Pancasila.	Answers,		resume	2. Finding the reasons for	
	Able to explain the	2. The reason for the	Discussions,		3. Students discuss (not	the need for democracy	
	nature of the	need for democracy	and		just questions and	that originates from	
(9,10)	instrumentas and	that comes from	assignments		answers) about the	Pancasila.	
(9,10)	praxis of Indonesian	Pancasila.			resumes that are	3. Exploring the historical,	
	democracy based on	3. Historical,			presented.	sociological, and political	
	Pancasila and the	sociological, and			4. Students make a	sources of democracy that	
	1945 Constitution	political sources of			summary of the	come from Pancasila.	
		democracy that come			discussion results under	4. Building arguments	
		from Pancasila.			the guidance of the	about the dynamics and	
		4. Arguments			lecturer.	challenges of democracy	
		regarding the			5. The lecturer gives	that originate from	

		dynamics and challenges of democracy originating from Pancasila. 5. Describe the essence and function of democracy that comes from Pancasila. 6. A summary of democracy that comes from Pancasila. 7. The practice of citizenship Just Law Enforcement	Presentation,	100 minute	assignments for the next meeting. 1. Lecturers guide	Pancasila. 5. Describe the essence and function of democracy that comes from Pancasila. 6. A summary of democracy that comes from Pancasila. 7. The practice of citizenship. 1. Understand the	RU-1
		1. The concept and urgency of a just law	question and answer,		student discussions 2. The group presents	concept and urgency of a just law enforcement.	and RU-2
		enforcement.	discussion, and		the results of their	2. Finding reasons for the	
		2. Reasons for the	homework		resume	need for just law	
	CLO-7: (PLO-, 6.2,	need for just law			3. Students discuss (not	enforcement.	
	6.3)	enforcement.			just questions and	3. Exploring historical,	
	Able to analyze	3. Historical,			answers) about the resumes that are	sociological, and political	
	historical dynamics	sociological, and political sources on			presented.	sources on just law enforcement.	
	of constitutional,	just law enforcement.			4. Students make a	4. Building arguments	
(11)	socio-political,	4. Building arguments			summary of the	about the dynamics and	
	cultural, and just law	about the dynamics			discussion results under	challenges of just law	
	enforcement.	and challenges of just			the guidance of the	enforcement.	
		law enforcement.			lecturer.	5. Describe the essence	
		5. Describe the			5. The lecturer gives	and function of a just law	
		essence and function			assignments for the	enforcement.	
		of a just law			next meeting.	6. A summary of just law	
		enforcement.				enforcement.	

	CLO-8: (PLO- 6.2, 6.3, 6,4) Understand the	 6. A summary of just law enforcement. 7. The practice of citizenship Review of Indonesiaa Archipelago: 1. Concept and urgency of archipelago insight 2. Reasons for the need for Archipelago Insights. 3. Historical, sociological, and 	Presentation, question and answer, discussion, and homework	100 minute	 Lecturers guide student discussions The group presents the results of their resume Students discuss (not just questions and answers) about the resumes that are presented. 	 7. The practice of citizenship. 1. Understand the concept and urgency of Archipelago Insights. 2. Finding the reasons for the need for Archipelago insight. 3. Exploring historical, sociological, and political sources on the Archipelago Concept. 	RU-1 and RU-2
	Understand the	sociological, and			presented.	Archipelago Concept.	
	historical dynamics	political sources on			4. Students make a	4. Building arguments	
(12,13)	and urgency of the Archipelago as a	the Archipelago Concept			summary of the discussion results under	about the dynamics and challenges of the	
	collective concept	4. Building arguments			the guidance of the	Archipelago insight.	
	and view of the	about the dynamics			lecturer.	5. Describe the essence	
	Indonesian	and challenges of the			5. The lecturer gives	and function of the	
	nationality in the context of world	Archipelago insight 5. Describe the			assignments for the next meeting.	Archipelago insight. 6. A summary of the	
	relations	essence and function			next meeting.	Archipelago's Insights.	
	(2)	of the Archipelago				7. The practice of	
	(2)	insight				citizenship	
		6. A summary of the				onizenomp	
		Archipelago's Insights					
		7. The practice of					
		citizenship					
		National Resilience	Presentation,	100 minute	. 1. Lecturers guide	1. Understand the	RU-1
(14,15)	CLO-9: (PLO- 6.2,	and State Defense	question and		student discussions	concept and urgency of	and
		1. The concept and	answer,		2. The group presents	National Resilience and	RU-2

	6.3, 6,4)	urgency of National Resilience and State	discussion, and homework		the results of their resume	State Defense. 2. Finding reasons for the
	6.3, 6,4) Understand the urgency and challenges of national resilience and state defense for the Indonesian nation in building a collective national commitment (2)	Resilience and State Defense. 2. Reasons for the need for National Resilience and State Defense. 3. Historical, sociological, and political sources on National Resilience and State Defense 4. Building arguments about the dynamics and challenges of National Defense and state defense 5. Describe the essence and function of National Defense and state defense. 6. A summary of National Resilience and State Defense				
-		7. The practice of citizenship				
(16)				Finale Test		

MSN1.62.4007	Assessment	Point		PLO-1	L		PLO-2	2		PLO	D-3			PLO-4	ŀ		PLO-5	5			PLO-6	5	
		(%)	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	V	
CLO-1	SA.2.3	20																		V	V	V	
CLO-2	Mid-Test 1	5																		V	V	V	
CLO-2	Mid-Test 2	5																		V	V	V	
CLO-2	Mid-Test 3	5																		V	V	V	
CLO-3	Mid-Test 4	5																		V	V	V	
CLO-3	Mid-Test 5	5																		V	V	V	
CLO-3	Mid-Test 6	5																		V	V	V	
CLO-3	Mid-Test 7	5																		V	V	V	
CLO-4	Final Test-1	5																		V	V	V	
CLO-4	Final Test-2	5																		V	V	V	
CLO-4	Final Test-3	5																		V	V	V	
CLO-5	Final Test-4	5																		V	V	V	
CLO-5	Final Test-5	5																		V	V	V	
Presence		10																		V	V	V	
TOTAL		100																					

The linkage between CLO and PLO and assessment methods

Assessment components

Mid Test (UTS)	: 30%
Final Test (UAS)	: 30%
Student assignment	: 30%
Presence	: 10%
Total	: 100%

Scoring / Grading level description

	Excellent	Good	Satisfy	Fail
ability to describe	Able to describecorrectly and completely	Able to describecorrectly but not complete	Able to describe but less clear and incomplete	Unable to describe
ability to formulate	Able to formulatecorrectly and completely	Able to formulatecorrectly but not complete	Able to formulate but less clear and incomplete	Unable to formulate
ability to calculate	Able to calculatecorrectly and completely	Able to calculatecorrectly but not complete	Able to calculate but less clear and incomplete	Unable to calculate
The ability to analyze	Able to analyzecorrectly and completely	Able to Analyzecorrectly 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	-	Postpone
60 -	64	C +	2.3	Acceptable				