

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

COURSE NAME		CODE	Cou	Irse classification	CU		Sem	Version
					Theory	Pract		
Social and cultural sci	ence	UNP2.60.1402	Character Buildi	ng and General education	2		1	1
					TTD Respo	onsible L	ecturer	
INFORMATION		Dean of the Faculty	y of Engineering	Head of Mechanical	Re	sponsib	le of ME	VE
				Engineering Department				
		Dr. Fahrei Dizal			Dire	Duran	topo N	
		Dr. Fahmi Rizal, M.Pd., MT Drs. Purwantono, M.F NIP. 195912041985031004 NIP. 19630804198603104		NIP. 196308041986031002	<u>Drs. Purwantono, M.Pd</u> NIP. 196308041986031002			
Program Learning	Program Learning Outcomes (1985051004	NIP. 190508041980051002	NIP. 1	.9050604	4196003	51002
Outcomes	<u> </u>	•				•••••	•••••	· /
Outcomes			nce (mathematics	and natural sciences) and othe	r discipline	s in proi	esional	, 2005 <i> </i>
	projects (Knowledge-und	0.						
		•	. ,	cept of mathematics to solve var		•	lems	
				cept of physic to solve various te				
	1.3. possess a good unde	erstanding and can ap	oply basic the cond	cept of chemistry to solve variou	us technical	problen	ns	
	2. Possess a critical and c	reative thingking in	identifying, form	nulating, problem solving and	evaluating	various	proble	ms in
	mechanical engineering	using the most appro	opriate and effect	ive scientific method (Enginee	ring analys	is, inves	tigation	is and
	assessment):							

 able to carry out the optimization process and increase the efficiency of machines or machining system. able to improve the performance of machine/ machinery system by applying the information technology Possess a good softskil and spirit of lifelong learning (<i>Transferable skill / softskill</i>) possess a religious character possess a spirit of nasionalisme, social sensitivity and environmental consevation orientation possess the ability to communicate effectively and work together in teamwork possess the ability to transfer science and technology to society to improve the quality of life possess a good characters of entrepreneur 		 5.3. able to improve the performance of machine/ machinery system by applying the information technology 6. Possess a good softskil and spirit of lifelong learning (<i>Transferable skill / softskill</i>) 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
Course Learning Course Learning Outcomes (CLO)	Course Learning	

Outcomes		
	CLO	PLO
	1. Student able to describe the nature and scope of social and cultural science and part of General	6.2; 6.3
	Education. 2. Student able to describe and analyze socio-cultural phenomena related to humans as individuals and social	6.2; 6.3
	 3. Student able to explain and analyze the problems of society and culture, as well as problem solving ideas 	6.2; 6.3
	4. Student able to explain socio-cultural phenomena related to socio-cultural changes	6.2; 6.3
	5. Student able to describe socio-cultural phenomena related to diversity and equality issues	6.2; 6.3
	6. Student able to explain and analyze socio-cultural phenomena related to humans, values, morals and laws	6.2; 6.3
	7. Student able to describe and analyze socio-cultural phenomena related to humans, science, technology and art	6.2; 6.3
	8. Student able to explain and analyze socio-cultural phenomena related to humans and the environment	6.2; 6.3
Course descriptions	This course aims to study social and cultural science especially in Indonesia, the development of science, and environmental problems in the local, national, and global context.	technology and arts, cultural
References	Main references (RU):	
	 Elly, M. Setiadi, et al. 2006. Basic Social and Cultural Sciences. Jakarta: Kencana Prenada Media. Herimanto, W. 2011. Basic Social and Cultural Studies. Jakarta: Earth Literacy. 	
	3. Huntington, P.S. The Clash of Civilizations and the Front Masses. Yogyakarta: Qalam.	
	4. Koentjaraningrat. 2000. Culture, Mentality and Development. Jakarta: Gramedia Pustaka Utama.	
	5. Nasikun. 2012. Indonesian Social System. Jakarta: Raja Crafindo Persada.	
	6. Koentjaraningrat. 2016. Introduction to Ilmu Anthropology. Jakarta: Rineka Cipta.	
	7. Soekanto, Soejono. 2009. An Introduction to Sociology. Jakarta: Rajawali Press.	
	8. Dirdjosisworo, Soedjono. 2010. Introduction to Law Science. Jakarta: Raja Grafindo Perdas	

	Additional references (RF	?)					
	ISSN.1693-167X (Ope	opology, Faculty of Social and Political Sciences, University of Indonesia. Indonesian Journal of Anthropology. n Access in: http:/journal.ui.ac.id					
	 Department of Sociology, Faculty of Social and Political Sciences, University of Indonesia. Society: Journal of Sociology. e-ISSN 2460-8165a p- ISSN 0852-8489 (open Access In: http://Journal.ui.ac.id/indexs Indonesian Center for Environmental Studies. UGM. Jumal Ivlanusia don the Environment. E-ISSN: 2460-5727; p-ISSN 0854-5510 (Open Access in: http:// Jpe-ces-ugm.ac.Id./ojs/index.php/jstnl/index/). 						
Learning Media	Software:	Hardware:					
	-						
Team Teaching		· · ·					
Assessment	Asignment, Mid Semester Examination, Final Semester Examination						
Requirements	-						
Subject							

COURSE SUBJECTS

Week		Topics	Method and strategy for	Assignment	Criterion /	References
	Expected competencies		learning		Assessment	
					indicator	
(1)	CLO 1	- Vision, mission and	Material explanation [1x40 ']	writing a summary	Able to describe	RU-1, RU-2,
	Students able to describe	objectives.	Question and answer [1x20 ']	and description of the	vision, mission and	RU-3, RU-4,
	the nature and scope of	 General function of 	Discussion [1x40 ']	topic discussion	objectives of social	RU-5, RU 6,
	social and cultural	General Education			and cultural	RU-7, RU-8,
	science and part of	courses in Higher			science, general	RP-1, RP-2,
	General Education.	Education.			function of	RP3
		 The essence and skop of 			educational and	
		course			Collective Life	
		 Learning process in 			(MBB) courses in	
		Higher Education.			Higher Education,	

Week	Expected competencies	Topics	Method and strategy for learning	Assignment	Criterion / Assessment indicator	References
		 Social and Culture as an alternative to solve socio- cultural problems 			the essence and skop of course, learning process in Higher Education, social and culture as an alternative to solve socio-cultural problems	
(2)	CLO 2 Students able to describe and analyze socio- cultural phenomena related to humans as individuals and social	 Humans as individual and social creatures; The functions and roles of humans as individual and social beings; Human nature as individual and social creatures 	Material explanation [1x40 '] Question and answer [1x20 '] Group Discussion [1x40 ']	writing a summary and description of the topic discussion	Able to describe humans as individual and social creatures, the functions and roles of humans as individual and social beings, human nature as individual and social creatures.	RU-1, RU-2, RU-3, RU-4, RU-5, RU 6, RU-7, RU-8, RP-1, RP-2, RP3
(3)	CLO 2 Students able to describe and analyze socio- cultural phenomena related to humans as individuals and social	 Individual rights and obligations public Social interaction gives rise to various forms of interaction 	Material explanation [1x40 '] Question and answer [1x20 '] Group Discussion [1x40 ']	writing a summary and description of the topic discussion	Able to describe impact of individual rights and obligations public social interaction on various forms of interaction	RU-1, RU-2, RU-3, RU-4, RU-5, RU 6, RU-7, RU-8, RP-1, RP-2, RP3

Week	Expected competencies	Topics	Method and strategy for learning	Assignment	Criterion / Assessment indicator	References
(4)	CLO 2 Students able to describe and analyze socio- cultural phenomena related to humans as individuals and social	 Impact of social interactions on various stereotypical styles Impact of prejudice on discrimination and conflict. Several cases of stereotypes, prejudice and discrimination as well as conflicts; Solutions to stereotypes, prejudice, discrimination and conflict; The dilemma between individual and social interests. 	Material explanation [1x40 '] Question and answer [1x20 '] Group Discussion [1x40 ']	writing a summary and description of the topic discussion	Able to describe impact of social interactions on various tereotypical styles, impact of prejudice on discrimination and conflict, the dilemma between individual and social interests. Able to analysis several cases of stereotypes, prejudice and discrimination as well as conflicts, solutions to stereotypes, prejudice, discrimination and conflict.	RU-1, RU-2, RU-3, RU-4, RU-5, RU 6, RU-7, RU-8, RP-1, RP-2, RP3
(5)	CLO 3 Students able to explain and analyze the problems of society and culture, as well as problem solving ideas	 Definition of culture; form and cultural characteristics Function of the human mind Humans as creators and users of culture. Culture as guideline for 	Material explanation [1x40 '] Question and answer [1x20 '] Group Discussion [1x40 ']	writing a summary and description of the topic discussion	Able to describe definition of culture; form and cultural characteristics, function of the human mind, humans as creators	RU-1, RU-2, RU-3, RU-4, RU-5, RU 6, RU-7, RU-8, RP-1, RP-2, RP3

Week	Expected competencies	Topics	Method and strategy for learning	Assignment	Criterion / Assessment indicator	References
		human life			and users of culture. Able to describe culture as guideline for human life	
(6)	CLO 3 Students able to explain and analyze the problems of society and culture, as well as problem solving ideas	 Community and cultural dynamics; Community problems and culture in people's lives. 	Material explanation [1x40 '] Question and answer [1x20 '] Group Discussion [1x40 ']	writing a summary and description of the topic discussion	Able to describe community and cultural dynamics. Able to analyze community problems and culture in people's lives.	RU-1, RU-2, RU-3, RU-4, RU-5, RU 6, RU-7, RU-8, RP-1, RP-2, RP3
(7)	CLO 4 Students able to explain socio-cultural phenomena related to socio-cultural changes	 Definition of manners, civilization and socio- cultural changes; Humans as civilized creatures and civilized society. Theories regarding socio- cultural change; Tradition, modernization and civil society 	Material explanation [1x40 '] Question and answer [1x20 '] Group Discussion [1x40 ']	writing a summary and description of the topic discussion	Able to explain definition of manners, civilization and socio-cultural changes, humans as civilized creatures and civilized society. Able to explain theories regarding socio-cultural change, tradition, modernization and civil society	RU-1, RU-2, RU-3, RU-4, RU-5, RU 6, RU-7, RU-8, RP-1, RP-2, RP3
(8)	Mid Semester Examination	1			civil society	

Week	Expected competencies	Topics	Method and strategy for learning	Assignment	Criterion / Assessment indicator	References
(9)	CLO 5 Students able to explain socio-cultural phenomena related to diversity and equality issues	 The meaning of diversity and equality; The diverse and dynamic structure of Indonesian society is characterized by the diversity of ethnicities and religions; The influence of diversity on various patterns of human life; Every society has culture as a way of life together (community and state); The concept of Bhineka Tungal Ika in the life of the Indonesian nation 	Material explanation [1x40 '] Question and answer [1x20 '] Group Discussion [1x40 ']	writing a summary and description of the topic discussion	Able to explain meaning of diversity and equality, diverse and dynamic structure of Indonesian society that characterized by the diversity of ethnicities and religions. Able to describe influence of diversity on various patterns of human life and concept of Bhineka Tungal Ika in the life of the Indonesian nation	RU-1, RU-2, RU-3, RU-4, RU-5, RU 6, RU-7, RU-8, RP-1, RP-2, RP3
(10)	CLO 5 Students able to describe socio-cultural phenomena related to diversity and equality issues	 Plurality in social dynamics culture; The diversity and equality of the Indonesian people as the nation's wealth; The problems of diversity and their solutions in the life of society and the country. Indonesian Multicultural Society 	Material explanation [1x40 '] Question and answer [1x20 '] Group Discussion [1x40 ']	writing a summary and description of the topic discussion	Able to describe plurality in social dynamics culture, diversity and equality of the Indonesian people as the nation's wealth. Able to analyze problems of diversity and their solutions in the life	RU-1, RU-2, RU-3, RU-4, RU-5, RU 6, RU-7, RU-8, RP-1, RP-2, RP3

Week	Expected competencies	Topics	Method and strategy for learning	Assignment	Criterion / Assessment indicator	References
(11)	CLO 6 Students able to	- Definition of values, moral and law;	Material explanation [1x40 '] Question and answer [1x20 ']	writing a summary and description of the	of society and the country and describe Indonesian Multicultural Society. Able to explain definition of values,	RU-1, RU-2, RU-3, RU-4,
	explain and analyze socio-cultural phenomena related to humans, values, morals and laws	 The function of values, morals and law in the life of society and the state; The process of forming values, morals and laws; 	Group Discussion [1x40 ']	topic discussion	moral and law, function of values, morals and law in the life of society and the state. Able to describe process of forming values, morals and laws.	RU-5, RU 6, RU-7, RU-8, RP-1, RP-2, RP3
(12)	CLO 6 Students able to explain and analyze socio-cultural phenomena related to humans, values, morals and laws	 Embodiment of values, morals and law in the life of society and the state; Moral and legal demands and sanctions in society and the state; Justice, order and social welfare as a form of a society that is moral and obeys the law; Problems with values, morals and laws in society and the state. 	Material explanation [1x40 '] Question and answer [1x20 '] Group Discussion [1x40 ']	writing a summary and description of the topic discussion	Able to explain Embodiment of values, morals and law in the life of society and the state. Able to describe moral and legal demands and sanctions in society and the state. Able to decribe justice, order and social welfare as a	RU-1, RU-2, RU-3, RU-4, RU-5, RU 6, RU-7, RU-8, RP-1, RP-2, RP3

Week	Expected competencies	Topics	Method and strategy for learning	Assignment	Criterion / Assessment indicator	References
(13)	CLO 7 Students able to describe and analyze socio-cultural phenomena related to humans, science, technology and art	 Definition of science, technology and art; The relationship between science, technology and art. Humans as subjects and objects of science, technology and art Development of Science and technology in society 	Material explanation [1x40 '] Question and answer [1x20 '] Group Discussion [1x40 ']	writing a summary and description of the topic discussion	form of a society that is moral and obeys the law. Able to analyze problems with values, morals and laws in society and the state Able to describe definition of science, technology and art, relationship between science, technology and art. Able to describe humans as subjects and objects of science, technology and art. Able to describe development of science and technology in society	RU-1, RU-2, RU-3, RU-4, RU-5, RU 6, RU-7, RU-8, RP-1, RP-2, RP3
(14)	CLO 7 Students able to describe and analyze socio-cultural phenomena related to	 The impact of the misuse of science and technology on socio- cultural life; Problems on the use of 	Material explanation [1x40 '] Question and answer [1x20 '] Group Discussion [1x40 ']	writing a summary and description of the topic discussion	Able to analyze impact of the misuse of science and technology on socio-cultural life	RU-1, RU-2, RU-3, RU-4, RU-5, RU 6, RU-7, RU-8, RP-1, RP-2,

Week	Expected competencies	Topics	Method and strategy for learning	Assignment	Criterion / Assessment indicator	References
	humans, science, technology and art	science and technology in Indonesia			and problems on the use of science and technology in Indonesia	RP3
(15)	CLO 8 Students able to explain and analyze socio-cultural phenomena related to humans and the environment	 Definition of environment; Human nature as a subject and environmental object Human view of the environment; The reciprocal influence between natural environmental conditions and socio-cultural conditions; Demographic problems and population growth in Indonesia; The quantity and quality of the population and its relation to the welfare of human life; Problems in the development of the socio-cultural and natural environment in society Indonesia. 	Material explanation [1x40 '] Question and answer [1x20 '] Group Discussion [1x40 ']	writing a summary and description of the topic discussion	Able to explain definition of environment, human nature as a subject and environmental object, human view of the environment, the reciprocal influence between natural environmental conditions and socio-cultural conditions, demographic problems and population growth in Indonesia, the quantity and quality of the population and its relation to the welfare of human life. Able to analyze problems in the	RU-1, RU-2, RU-3, RU-4, RU-5, RU 6, RU-7, RU-8, RP-1, RP-2, RP3

Week	Expected competencies	Topics	Method and strategy for learning	Assignment	Criterion / Assessment indicator	References
					development of the socio-cultural and natural environment in society.	
(16)	Final Semester Examinatio	n				

The linkage between CLO and PLO and assessment methods

UNP2.60.140	Assessment	Point		PLO-1	-		PLO-2			PLO	D-3			PLO-4			PLO-5	;			PLO-6	5	
2		(%)	1	2	3	1	2	3	1	2	3	4	1	2	3	1	2	3	1	2	3	4	5
CLO1	UTS 1.a	10																		V	V		
CLO2	UTS 2.a	10																		V	V		
CLO3	UTS 3 b	10																		V	V		
CLO4	UAS 1.a	10																		V	V		
CLO5	UAS 2.b	10																		V	V		
CLO6	UAS 3.a	10																		V	V		
CLO7	UAS 4.a	10																		V	V		
CLO8	Asignment	15																		V	V		
Presence		15																					
TOTAL		100																					

Assessment Component

Mid semester examination	: 35 %
Final semester examination	: 35%
Asignment	: 15%
Presence	: 15 %
Total	: 100%

Scoring/Grading level description

	Excellent	Good	Satisfy	Fail
ability to describe	Able to describe correctly	Able to describe correctly	Able to describe but less	Unable to describe
	and completely	but not complete	clear and incomplete	
ability to formulate	Able to formulate correctly	Able to formulate correctly	Able to formulate but less	Unable to formulate
	and completely	but not complete	clear and incomplete	
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	≤ 3 9	Е	0.0	Fail
65 - 69	B-	2.6	Good	-	Т	-	Postpone
60 - 64	C+	2.3	Acceptable				