SEMESTER LEARNING PLAN

MARITIME SOCIAL AND CULTURAL INSIGHTS AND SCIENCE AND TEXT COURSES
(23U01111002)

TEACHING TEAM

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STUDI PROGRAM OF MATHEMATICS - S1
FACULTY OF MATHEMATICS AND NATURAL SCIENCES
HASANUDDIN UNIVERSITY
MAKASSAR

2025

STUDY PROGRAM OF MATEMATIKA - S1
FACULTY OF MATHEMATICS AND NATURAL SCIENCES
HASANUDDIN UNIVERSITY

Vision

The scientific vision is to become a study program with an international reputation in the development of mathematics based on the Indonesian maritime continent by 2030

Vision Strategy

Misson

To fulfill the above vision, the Undergraduate Mathematics Study Program has four missions, namely:

- Organizing innovative and effective mathematics learning to improve the quality and creativity of students in order to compete nationally and internationally.
- Improving a research culture that produces internationally reputable publications.
- Playing an active role in community service activities and collaborating with other academic institutions, government, business, media and society.
- Carry out governance in the Mathematics Study Program that is effective, efficient and transparent based on IT and ISO 9001:2015 standards to achieve the tridharma goals.

Graduate Profiles

Gagal diterjemahkan

PLO charged to courses

CPL-8 (S1) - The students have integrity that highly values the supreme divinity, social responsibility, and professional ethics

CPL-9 (S2) - The students are able to adapt and develop self-abilities, both in mathematics and other relevant areas of science in their professional lives

Course Learning Outcomes (CLO)

CPMK-1: Students are able to internalize humanistic and environmentally wise cultural and scientific values based on BMI. (CPL8)

CPMK-2: Students are able to describe the values of maritime culture and science and technology based on BMI as independent and characterful individuals and have a spirit of social sensitivity. (CPL8)

CPMK-3: Students are able to think critically, systematically and innovatively and communicate effectively regarding cultural and IPTEKS insights based on BMI which are humanistic and environmentally wise. (CPL9)

Sub-CLO

Sub CPMK-1: Able to demonstrate the Indonesian Maritime Continent (BMI), Geography and the Potential of Natural Resources of the Maritime Continent of Indonesia (CPMK-2)

Sub CPMK-2: Able to describe Maritime Society, Institutions and History (CPMK-2)

Sub CPMK-3: Able to internalize Maritime Culture and Cultural Values (CPMK-1)

Sub CPMK-4: Able to describe the concepts of knowledge, science and technology and their development (CPMK-2)

Sub CPMK-5: Able to explain the concept of art and beauty, in relation to the substance of science and technology. (CPMK-2)

Sub CPMK-6: Able to describe the Integrity and Ethics of Science and Technology, the influence of the development of Science and Technology on resource management in maintaining the sustainability of the BMI environment (CPMK-1)

Learning Analytics

Maritime Socio-Cultural Insights and Science and Technology

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Able to describe the Integrity and Ethics of Science and Technology, the influence of the development of Science and Technology on resource management in maintaining the sustainability of the BMI environment (CPMK-1)

↑

Able to explain the concept of art and beauty, in relation to the substance of science and technology. (CPMK-2)

↑

Able to describe the concepts of knowledge, science and technology and their development (CPMK-2)

↑

Able to internalize Maritime Culture and Cultural Values (CPMK-1)

↑

Able to describe Maritime Society, Institutions and History (CPMK-2)

↑

Able to demonstrate the Indonesian Maritime Continent (BMI), Geography and the Potential of Natural Resources of the Maritime Continent of Indonesia (CPMK-2)

HASANUDDIN UNIVERSITY
FAKULTY OF MATHEMATICS AND NATURAL SCIENCES
STUDY PROGRAM OF MATHEMATICS - S1
SEMESTER LEARNING PLAN

Course	Code	Cource Group	Credits	SEMESTER	Compilation Date
Maritime Socio-Cultural Insights and Science and Technology	23U01111002	MKWU	2	1	10 Agustus 2025

	SLP Developer Lecturer	Coordinator	Head of Study Program
AUTHORITY	Prof. Dr. Munsi Lampe, MA., Prof. Dr. Ir. Musrizal Muin, M.Sc., Prof. Dr. Ir. Indrabayu, S.T., M.T., M.Bus.Sys., IPM., ASEAN.Eng., Rahmatullah, SIP., M.Si., Dr. rer.nat. Ir. Zainal, STP., M.Food.Tech., Dr. Nur Umriani Permatasari, S.Si.,M.Si., Dr. Ahmad Ismail, S.Sos., M.Si.	Dr. Nur Umriani Permatasari, S.Si.,M.Si.	Dr. Firman, S.Si.,M.Si.

Learning Outcomes Course	**SLOs that are imposed on the course**	
	SLO-8:	Mahasiswa memiliki integritas yang sangat menghargai keilahian tertinggi, tanggung jawab sosial, dan etika profesional
	SLO-9:	Mahasiswa dapat beradaptasi dan mengembangkan kemampuan diri, baik dalam matematika dan bidang ilmu lain yang relevan dalam kehidupan profesional mereka, dengan budaya belajar sepanjang hayat
	SLO ⇒ Course Learning Outcomes	
	After completing this course, it is expected:	
	SLO-8	**CLO-1:** Students are able to internalize humanistic and environmentally wise cultural and scientific values based on BMI.
		CLO-2: Students are able to describe the values of maritime culture and science and technology based on BMI as independent and characterful individuals and have a spirit of social sensitivity.
	SLO-9	**CLO-3:** Students are able to think critically, systematically and innovatively and communicate effectively regarding cultural and IPTEKS insights based on BMI which are humanistic and environmentally wise.
	CLO ⇒ Sub-CLO	
	CLO-2	**Sub-CLO-1:**Able to demonstrate the Indonesian Maritime Continent (BMI), Geography and the Potential of Natural Resources of the Maritime Continent of Indonesia
		Sub-CLO-2: Able to describe Maritime Society, Institutions and History
		Sub-CLO-4: Able to describe the concepts of knowledge, science and technology and their development
		Sub-CLO-5: Able to explain the concept of art and beauty, in relation to the substance of science and technology.

	CLO-1	**Sub-CLO-3:**Able to internalize Maritime Culture and Cultural Values
		Sub-CLO-6: Able to describe the Integrity and Ethics of Science and Technology, the influence of the development of Science and Technology on resource management in maintaining the sustainability of the BMI environment

Correlation between SLOs/CLOs to Sub-CLOs

SLOs that are charged on the Course	CPMK	SUB CPMK	Form of Assessment*				Weight	Value	Student Score
			Formative	Sumative					
				Gagal diterjemahkan	Gagal diterjemahkan	Gagal diterjemahkan			
SLO-8	CLO-2	SUB-CLO-1	Accuracy of Ideas and Clarity of Description (SIKOLA 2.0 Forum)	11	0	0	11		
SLO-8	CLO-2	SUB-CLO-2	Accuracy of Ideas and Clarity of Description (Interactive Class/SIKOLA 2.0 Forum)	0	18	0	18		
SLO-8	CLO-1	SUB-CLO-3	Accuracy of Ideas and Clarity of Descriptions (Individual Assignments, Interactive Classes/SIKOLA 2.0 Forums)	0	0	21	21		
SLO-8	CLO-2	SUB-CLO-4	Accuracy of Ideas and Clarity of Description (Interactive SIKOLA 2.0 Class & Forum)	0	20	0	20		
SLO-8	CLO-2	SUB-CLO-5	Accuracy of Ideas and Clarity of Description (Interactive Class/SIKOLA 2.0 Forum)	9	0	0	9		
SLO-8	CLO-1	SUB-CLO-6	Accuracy of Ideas and Clarity of Descriptions (Individual Assignments, Interactive Classes/SIKOLA 2.0 Forums)	0	0	21	21		
				20	38	42	100		

Course Description	The Cultural Insights and Science and Technology subject of the Indonesian Maritime Continent (BMI) is included in the Unhas Compulsory Courses (MKWU) group and is a characteristic of Unhas. This course contains discussions about BMI's cultural and societal insight with all its main aspects, BMI's science and technology insight with all its main aspects, and the concept of BMI with its characteristics as a basis for implementing the Unhas Maritime Vision and Mission. In essence, this course aims to identify and discuss BMI-based cultural and science and technology values that are humanistic and environmentally sound as a source for the formation of independent and characterful human beings.

Learning Materials/Subjects	1. Vision and Conception of the Indonesian Maritime Continent (BMI). 2. Geography and Potential of Marine Natural Resources of the Indonesian Maritime Continent. 3. History, Maritime Society and Institutions 4. Maritime Culture and Cultural Values 5. Concepts of Knowledge, Science and technology and the relationship between science and technology 6. Technological developments and impacts its development 7. The concept of Art and Beauty, its relation to the substance of Science and Technology. 8. Integrity and Ethics of Science and Technology, the influence of the development of Science and Technology on the management of resources in maintain environmental sustainability BMI.
Reference	**Main References**
	1. Lampe, M. 2022. Maritime Textbook: Indonesian Maritime Social and Cultural Insights. ISBN. 9789795304487. Publisher Unhas Press. 2. National Defense and Security Council-BPP Technology. 1996. BMI (Indonesian Maritime Continent). Jakarta: Directorate of Natural Resources Inventory Technology. 3. Benardie, Hakim SP. 2003. Indonesian Maritime History. Marine Policy Study Project, Secretary General of the Indonesian Department of Maritime Affairs and Fisheries. 4. Kasim, S. 2017. Science and Technology Insight Philosophy (Unhas Textbook). ISBN: 978-602-6332-12-7. Pustaka Pena Press.Makassar. 5. Unhas Science and Technology Insights Lecturer Team, 2013, Science and Technology Insights Textbook UPT MKU UNHAS, 6th Edition. Unhas, Makassar. 6. Usman, H., et al. 2014. Science and Technology Insight Textbook (Using a Learning Approach). UPT MKU UNHAS. ISBN:978-602-99757-8-9. CV Offset Printing. Surprise. Makassar.
	Additional References
	1. DKP. 2007. United Nations Convention On The Law of The Sea (UNCLOS, DMI, Jakarta. 2. Gani, Radi A. Et al. (Drawing Team). 1999. Policy Framework for the Development of Basic Scientific Patterns. Hasanuddin University Makassar. 3. Joko, Pramono. 2005. Maritime Culture. Publisher PT Gramedia Pustaka Utama Jakarta. 4. Lampe, Munsi. 2021. Shipping and Reproduction of Insight into the Geo-Social-Cultural Unity of the Maritime Archipelago/Indonesia: A Focus of Maritime Anthropological Studies. Delivered at the Acceptance Ceremony for the Position of Professor in the Field of Maritime Anthropology at the Faculty of Social and Political Sciences, Hasanuddin University in front of the Extraordinary Open Senate Meeting of Hasanuddin University, Tuesday, 30 November 2021 in Makassar. 5. Hamid, Abd. Rahman. 2020. Indonesian Maritime History and Culture. Yogyakarta: Waves 6. Paeni, Mukhlis. 1995. Efforts to Understand Maritime Culture. Paper contributed to the General Basic Subject B Workshop, Faculty of Letters, Hasanuddin University. 7. Sallatang, Arifin. 1982. Pinggawa-Sawi: A Small Group Study (Dissertation) Hasanuddin University 8. Simangunsong, Bonar. 2015. Indonesia's Future Ocean. Jakarta: Publisher Gramedia. 9. Unhas Identity Compilation Team. 2009. Actualization of Identity (Self) at Hasanuddin University. Makassar. 10. Dadang Ahmad S., 2009. Materials for the Science and Technology Insight Workshop at UPT MKU Unhas (Combined Science and Technology Learning Materials), Makassar. 11. Kartono, H. 2003. Environmental Pollution. Director General of Higher Education, Ministry of National Education, Jakarta. 12. Kosela, S. 2003. Science and Technology for Human Life. Director General of Higher Education, Ministry of National Education, Jakarta. 13. Mappadjantji Amien, 2009. Science and Technology Insights (Philosophy and Conceptual Framework), Workshop Material for the Waste and Technology UPT MKU Unhas course, Makassar. 14. Masnur Muchlis, 2011. Education Character, Responding to the Challenge of Multidimensional Crisis. PT. Bumi Aksara, second printing. Jakarta. 15. Stock, Paul and Rob J.F. Burton, Journal of Sustainability, 2011. ISSN 2071-1050, 3, 1090-1113; doi;10.3390/su3081090 16. Suriasumantri, Jujun. 2003. Philosophy of Science A Popular Introduction. Sinar Harapan Library, Jakarta.
Teaching Team	Prof. Dr. Munsi Lampe, MA., Rahmatullah, SIP., M.Si., Dr. rer.nat. Ir. Zainal, STP., M.Food.Tech., Dr. Nur Umriani Permatasari, S.Si.,M.Si., Dr. Ahmad Ismail, S.Sos., M.Si.

Course requirement	

Week	Sub CPMK (End-of-stage learning ability)	Penilaian (*Assesment*)		Learning Forms and Methods [time estimate]		Content	Weight of Assessment (%)
		Indicator	Techniques & Criteria	Offline	Online		
1	2	3	4	5	6	7	8
1-2	Able to demonstrate the Indonesian Maritime Continent (BMI), Geography and the Potential of Natural Resources of the Maritime Continent of Indonesia (CPMK-2)	**Formative:** • **Capabilities in demonstrating :** 1. Unhas Vision and Mission based on the Unhas Maritime Continent (BMI) 2. BMI Conception 3. Geography of the Republic of Indonesia, Marine Natural Resources **Sumative:** **Capabilities outline** Conception of the Indonesian Maritime Continent Ability to answer SubCPMK 1 questions (Geography and Potential of BMI Marine Natural Resources)	**Formative Criteria:** Accuracy of Ideas and Clarity of Description (SIKOLA 2.0 Forum) **Sumative Criteria:** Collaborative Learning (CoL) (11) **Assessment Technique:** Test and Non-Test	**Studying:** Collaborative learning (Collaborative Learning) **Guided Learning Activities (KBT)** = **(1x2x50 Minutes)** **Learning Method (MP)** =**Collaborative Learning** **Learning Scenario :** Can be accessed in Menu SIKOLA 2.0 document Sub CPMK 1 1x2x50	**Response and Tutorial:** Collaborative learning (Collaborative Learning) Gagal diterjemahkan 2x2x60	1. Learning Contract 2. BMI Vision and Conception **Geography & Potential of Marine Natural Resources** REFERENCES : Main Books: 1 (part III, IV), 2 (part I: 1-13) Supporting Books: 1, 8 (Chapter 1: 1-70) MODULE 2	11

3-4	Able to describe Maritime Society, Institutions and History (CPMK-2)	**Formative:** Ability to outline: 1. **Maritime History** (Nusantara Maritime Empire, Shipping and Maritime Law) 2. **Maritime Society** (Concept of Maritime Society, Maritime Social Groups and Their Social Characteristics, Ethnic Diversity, Communities coastal villages and islands, Migration patterns and activity characteristics maritime) **3. Maritime Institutions** **Sumative:** Ability to present “Case Sub CPMK 2” 1. Maritime History 2. Maritime Society and Institutions	**Formative Criteria:** Accuracy of Ideas and Clarity of Description (Interactive Class/SIKOLA 2.0 Forum) **Sumative Criteria:** Case Study (CS) (18) **Assessment Technique:** Test and Non-Test	**Studying:** Case Study (Case Study) **Guided Learning Activities (KBT) =(1x2x50 Minutes)** **Learning Method (MP) = Case Study** **Learning Scenario :** Can be accessed in the Document Menu SIKOLA 2.0 Sub CPMK 2 2x2x50	**Response and Tutorial:** Case Study (Case Study) Gagal diterjemahkan 4x2x60	**Indonesian Maritime History** BIBLIOGRAPHY : Main Book: 1 (part V: 51-76), 3 (Chapter IX: 131-371) Supporting Books: 5 (Chapter I), 6 MODULE 4 **Maritime Society and Institutions** LIBRARY : Main Book: 1 (part VI: 77-96, VII: 97-170; VIII: 171-196). Supporting Books: 3 (Chapter I: 1-25) MODULE 5 **Demographics Maritime** LIBRARY : Main Book: 1 (part IV: 23-50), Supporting Books: 3 (Chapter IV: 127-156), 4 MODULE 3	18

5-8	Able to internalize Maritime Culture and Cultural Values (CPMK-1)	**Formative:** Ability to internalize: **1.BMI maritime cultural values in aspects** a. Cognitive/ mental, b. Language, c. Social grouping/organization, d. Economy, e. Technology, f. Arts, and g. Religion/ Belief **2. The function of maritime cultural values as a source of forming independent and characterful people.** **Sumative:** Ability to make presentations on "Project Sub CPMK 3" (Seven Cultural Elements)	**Formative Criteria:** Accuracy of Ideas and Clarity of Descriptions (Individual Assignments, Interactive Classes/SIKOLA 2.0 Forums) **Sumative Criteria:** Pjbl (Project Base Learning) (21) **Assessment Technique:** Non Test	**Response and Tutorial:** Project-Based Learning (Project-based Learning) **Guided Learning Activities (KBT)** = **(1x2x50 Minutes)** **Learning Scenario** :Can be accessed in the SIKOLA 2.0 Document Menu Sub CPMK 3 4x2x50	**Response and Tutorial:** Case Study (Case Study) Gagal diterjemahkan 8x2x60	**Culture and Maritime Cultural Values** BIBLIOGRAPHY : Main Book: 1 (part var(--bs-body-font-size); text-align: var(--bs-body-text-align);">**Maritime Economics** BIBLIOGRAPHY : Main Book: 1 (part IV: 23-50), Supporting Books: 3 (Chapter IV: 127-156), 4 MODULE 3	21

9-11	Able to describe the concepts of knowledge, science and technology and their development (CPMK-2)	**Formative:** Ability to describe: 1.Concepts of Knowledge, Science and Technology 2.Relationship between Science and Technology 3.Technological Development 4.Impact of Technological Development **Sumative:** Ability to answer SubCPMK 4 questions (Knowledge, Science and Technology Concepts and Relationship between Science and Technology) Ability to do presentation "Case Sub CPMK 4" (Technological developments and the impact of their development)	**Formative Criteria:** Accuracy of Ideas and Clarity of Description (Interactive SIKOLA 2.0 Class & Forum) **Sumative Criteria:** Case Study (CS) (20) **Assessment Technique:** Test and Non-Test	**Studying:** Case Study (Case Study) **Guided Learning Activities (KBT)** = **(1x2x50 Minutes)** **Learning Methods (MP)** =**Case Study** **Learning Scenarios :** Can be accessed in the SIKOLA 2.0 Document Menu Sub CPMK 4 3x2x50	**Response and Tutorial:** Case Study (Case Study) Gagal diterjemahkan 3x2x60	The concept of knowledge, science and technology and the relationship between science and technology. Technological developments and the impact of their developments REFERENCES : Science and Technology Insights Book Chapters 2,3, 4, 5, 6, 7 MODULE 7 & 8	20

12	Able to explain the concept of art and beauty, in relation to the substance of science and technology. (CPMK-2)	**Formative:** Ability to describe: 1.Concepts of Art and Beauty 2.Relationships with the substance of Science and Technology **Sumative:** Ability to answer SubCPMK 5 questions (Concepts of Art and Beauty and their relationship to the substance of Science and Technology)	**Formative Criteria:** Accuracy of Ideas and Clarity of Description (Interactive Class/SIKOLA 2.0 Forum) **Sumative Criteria:** Collaborative Learning (CoL) (9) **Assessment Technique:** Test and Non-Test	**Studying:** Collaborative learning (Collaborative Learning) **Guided Learning Activities (KBT) = (1x2x50 Minutes)** **Learning Method (MP) =Collaborative Learning** **Learning Scenario :** Can be accessed in Menu SIKOLA 2.0 document Sub CPMK 5 1x2x50	**Response and Tutorial:** Collaborative learning (Collaborative Learning) Gagal diterjemahkan 2x2x60	The concept of art and beauty, its relation to the substance of science and technology. REFERENCES: Science and Technology Insights Book Chapter 9 MODULE 9	9
13-16	Able to describe the Integrity and Ethics of Science and Technology, the influence of the development of Science and Technology on resource management in maintaining the sustainability of the BMI environment (CPMK-1)	**Formative:** Ability to Analyze : 1, Integrity and Ethics of S&T, 2, the influence of developments in science and technology on resource management in safeguarding environmental sustainability BMI **Sumative:** Ability to make presentations on “Project Sub CPMK 6”	**Formative Criteria:** Accuracy of Ideas and Clarity of Descriptions (Individual Assignments, Interactive Classes/SIKOLA 2.0 Forums) **Sumative Criteria:** Pjbl (Project Base Learning) (21) **Assessment Technique:** Non Test	**Studying:** Project-Based Learning (Project-based Learning) **Guided Learning Activities (KBT) = (1x2x50 Minutes)** **Learning Scenario :**Can be accessed in the SIKOLA 2.0 Document Menu Sub CPMK 6 2x2x50	**Response and Tutorial:** Collaborative learning (Collaborative Learning) Gagal diterjemahkan 4x2x60	Integrity and Ethics of Science and Technology, the influence of developments in Science and Technology on resource management in preserving the BMI environment. REFERENCES: Science and Technology Insights Book Chapter 10 MODULE 10	21

	100

Matrix of SLO, CLO, and Assessment Method

SLO / CLO	CLO-1	CLO-2
CPL-8 (S1)	data not found (Weight 21%) data not found (Weight 21%)	data not found (Weight 11%) data not found (Weight 18%) data not found (Weight 20%) data not found (Weight 9%)
CPL-9 (S2)		

Evaluation Type and Assessment Weight

Type	Assessment Weight
Collaborative Learning (CoL)	20
Case Study (CS)	38
Pjbl (Project Base Learning)	42
Total	100

Assessment and Evaluation of Student Achievement of CLOs

SLOs that are charged on the Course	CLO	SUB CLO	Form of Assessment*				Weight	Value	Student Score
			Formative	Sumative					
				Gagal diterjemahkan	Gagal diterjemahkan	Gagal diterjemahkan			
SLO-8	CLO-2	SUB-CLO-1	Accuracy of Ideas and Clarity of Description (SIKOLA 2.0 Forum)	11	0	0	11		
SLO-8	CLO-2	SUB-CLO-2	Accuracy of Ideas and Clarity of Description (Interactive Class/SIKOLA 2.0 Forum)	0	18	0	18		
SLO-8	CLO-1	SUB-CLO-3	Accuracy of Ideas and Clarity of Descriptions (Individual Assignments, Interactive Classes/SIKOLA 2.0 Forums)	0	0	21	21		
SLO-8	CLO-2	SUB-CLO-4	Accuracy of Ideas and Clarity of Description (Interactive SIKOLA 2.0 Class & Forum)	0	20	0	20		
SLO-8	CLO-2	SUB-CLO-5	Accuracy of Ideas and Clarity of Description (Interactive Class/SIKOLA 2.0 Forum)	9	0	0	9		
SLO-8	CLO-1	SUB-CLO-6	Accuracy of Ideas and Clarity of Descriptions (Individual Assignments, Interactive Classes/SIKOLA 2.0 Forums)	0	0	21	21		
				20	38	42	100		