

Module Handbook

Module Name:	Etnomathematics
Module Level:	Sarjana (S-1) / Bachelor
Abbreviation, if applicable:	8420202052
Sub-heading, if applicable:	-
Course included in the module, if applicable:	-
Semester/term:	8/ fourth year
Module Coordinator(s):	Prof. Dr. Mega Teguh Budiarto, M.Pd
Lecturer(s):	Prof. Dr. Mega Teguh Budiarto, M.Pd Dr. Rini Setianingsih, M.Kes.
Language:	Indonesia
Relation to Curriculum:	For all level students, Compulsory course / elective studies
Teaching format/class hours per week during the semester	Teaching format: lectures, tutorial assignment, and individual study. 2 x 170 minutes = 340 minutes = 5.67 hours lectures
Workload:	15 weeks per semester consisting of: <ul style="list-style-type: none"> ➤ 2 hours lectures (2 x 50 minutes) per week, ➤ 2 hours tutorial assignments (2 x 60 minutes) per week, ➤ 2 hours individual study (2 x 60 minutes) per week, Total workload : 14x2x170 minutes = 4,760 minutes = 3.17 ECTS*
Credit Point:	2
Requirements:	-
Learning Goals :	<p>Knowledge</p> <p>CLO-1 Determine the fact, rationale, the use of ethnomathematics and theory related to Ethnomathematics</p> <p>Skill</p> <p>CLO-2 Develop learning tools with the basis of ethnomathematics</p> <p>Competence</p> <p>CLO-3 Communicate ideas and introductory research about ethnomathematics in the context of mathematics learning</p> <p>Attitude and Social</p> <p>CLO-4 Criticize the developed mathematics learning with the basis of ethnomathematics</p>

Content	The concepts of ethno-mathematics, reviewing various articles on ethno-mathematics, exploring the culture or tradition in Indonesia that has ethno-mathematical value and using it in designing mathematics learning.																														
Study/exam achievements	<ul style="list-style-type: none"> ➤ Students are considered competent and pass if the final score calculated from the score of midterm exam, assignments, participation, and final exam is at least 55 or C. ➤ Final score is calculated as follows: ➤ 20% midterm exam + 30% assignments + 20% participation + 30% final exam ➤ Final index is defined as follow: <table border="1" data-bbox="654 793 1297 1276" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Index</th> <th>Converted Score</th> <th>Score Range</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>4.00</td> <td>$85 \leq A \leq 100$</td> </tr> <tr> <td>A-</td> <td>3.75</td> <td>$80 \leq A- < 85$</td> </tr> <tr> <td>B+</td> <td>3.50</td> <td>$75 \leq B+ < 80$</td> </tr> <tr> <td>B</td> <td>3.00</td> <td>$70 \leq B < 75$</td> </tr> <tr> <td>B-</td> <td>2.75</td> <td>$65 \leq B- < 70$</td> </tr> <tr> <td>C+</td> <td>2.50</td> <td>$60 \leq C+ < 65$</td> </tr> <tr> <td>C</td> <td>2.00</td> <td>$55 \leq C < 60$</td> </tr> <tr> <td>D</td> <td>1.00</td> <td>$40 \leq D < 55$</td> </tr> <tr> <td>E</td> <td>0.00</td> <td>$0 \leq E < 40$</td> </tr> </tbody> </table>	Index	Converted Score	Score Range	A	4.00	$85 \leq A \leq 100$	A-	3.75	$80 \leq A- < 85$	B+	3.50	$75 \leq B+ < 80$	B	3.00	$70 \leq B < 75$	B-	2.75	$65 \leq B- < 70$	C+	2.50	$60 \leq C+ < 65$	C	2.00	$55 \leq C < 60$	D	1.00	$40 \leq D < 55$	E	0.00	$0 \leq E < 40$
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Forms of Media	Slides and LCD projectors, whiteboard, samples of learning media																														
Literature	<p>[1] Franscois, Karen and Van Kerkhove, Bart. 2011. Ethnomathematics and The Philosophy of Mathematics (Education). In Benedikt Lowe, Thomas Muller (eds). PhiMSAMP. Philosophy of Mathematics: Sociological Aspects and Mathematical Practice. College Publications, London. 2010. Texts in Philosophy 11; pp.121-154.</p> <p>[2] Mesquita, Monica, Restivo, Sal. & D'Ambrosio, Ubiratan. 2011. Asphalt Children and City Streets: A Life, A City, and A Case Study of History, Culture, and Ethnomathematics in Sao Paulo. ROTTERDAM: SENSE PUBLISHER.</p> <p>[3] Powell, Arthur B. & Frankenstein, Marilyn (Eds). 1997. Ethnomathematics: Challenging Eurocentrism in Mathematics Education. New York: State University of New York Press.</p>																														

	[4] Ascher, Marcia. 1991. Ethnomathematics: A Multicultural View of Mathematics Ideas. Pasific Grove: Brooks/Cole Publishing Company
Note	*Total hours per 1 credit in 1 semester= $\{(1 \text{ credit} \times 170 \text{ minutes} \times 14 \text{ weeks}) / 60 \text{ minutes}\} = 39.67 \text{ hours}$. each ECTS equals with 25 hours therefore 1 credit in 1 semester equals 1.59 ECTS.