Doctoral Program in Mathematics Education   **MODULE HANDBOOK**

Module designation	:	Review of Reputable Journals of Mathematics Education/ GMA7102
Module level, if applicable	:	Doctor
Code	:	GMA7102
Subheading, if applicable	:	-
Class, if applicable	:	-
Semester	:	1st /odd
Module coordinator	:	Prof. Dr. Zulkardi, M.I. Komp., M.Sc.
Person responsible for the module	:	Prof. Dr. Zulkardi, M.I. Komp., M.Sc. Prof. Dr. Ratu Ilma Indra Putri, M.Si. Dr. Duano Sapta Nusanatara.
Language	:	English
Relation to the curriculum	:	Study Program Compulsory Course
Teaching format/ class hours per week during the semester	:	Teaching format: lectures, tutorial assignment, and individual study 3 x 300 minutes = 900 minutes = 15 hours
Workload	:	14 weeks per semester consisting of: ➢ 1 hour lecture (1 x 50 minutes) per week, ➢ 2 hours assignments (2 x 50 minutes) per week, ➢ 2 hours individual study (2 x 75 minutes) per week, Total workload: 14x3x300 minutes=12,600 minutes= 8.4 ECTS*
Credit points	:	3 (8.4 ECTS)
Prerequisite's course(s)	:	-
Course Outcomes	:	After taking this course, students should be: CO-1: able to analyze the international journal article CO-2: able to present and discuss about the result of analysis the international journal article CO-3: able to master the systematic literature review and how to make it. CO-4: able to find a conceptual and theoretical framework for designing mathematics education CO-5: able to write literature review articles published in international /national scientific journals/seminars
Content	:	Study of review of reputable journals of mathematics education

		which includes trends in mathematics education research themes, article analysis in reputable national and international journals, construction of research ideas through systematic literature review, and writing of academic works to develop a theoretical and conceptual framework for a theme/focus of mathematics education research according to the research plan chosen by students, write literature reviews the results of the literature review, and published in reputable international/national journals or to be presented in international seminars
Study/ exam achievement	:	1. 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 56 or C. 2. It is expected that students attend 80% of the total meetings in the modules. 3. 35% midterm exam + 15% assignments + 10% participation + 40% final exam. 4. Final index is defined as follow: The total score is converted into a qualitative score, <table><tr><th>Total Score</th><th>Grade</th><th>Description</th></tr><tr><td>86 – 100</td><td>A</td><td>Excellent</td></tr><tr><td>71 – 85.99</td><td>B</td><td>Good</td></tr><tr><td>56 – 70.99</td><td>C</td><td>Fair</td></tr><tr><td>41 – 55.99</td><td>D</td><td>Bad</td></tr><tr><td>0 – 40.99</td><td>E</td><td>Worse</td></tr></table>
Reading lists	:	. De Lange, J. (2021). There is, Probably, no need for a design framework. *Journal on Mathematics Education*, *12*(2), 365–388. https://doi.org/10.22342/JME.12.2.14387.365-388 . Fauziah, A., Putri, R. I. I., Zulkardi, & Somakim. (2020). Developing pmri learning environment through lesson study for pre-service primary school teacher. *Journal on Mathematics Education*, *11*(2), 193–208. https://doi.org/10.22342/jme.11.2.10914.193-208

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Heuvel-panhuizen, M. Van Den, Drijvers, P., Education, M., Sciences, B., & Goffree, F. (2014). Realistic Mathematics Education. In *Encyclopedia of Mathematics Education* (pp. 521–532). https://doi.org/10.1007/978-94-007-4978-8

Tanudjaya, C. P., & Doorman, M. (2020). Examining higher order thinking in Indonesian lower secondary mathematics classrooms. *Journal on Mathematics Education*, *11*(2), 277–300. https://doi.org/10.22342/jme.11.2.11000.277-300

Xiao, Y., & Watson, M. (2019). Guidance on Conducting a Systematic Literature Review. *Journal of Planning Education and Research*, *39*(1), 93–112. https://doi.org/10.1177/0739456X17723971

Zawacki-Richter, O., Kerres, M., Bedenlier, S., Bond, M., & Buntins, K. (2020). *Systematic reviews in educational research: Methodology, perspectives and application* (p. 161). Springer Nature. https://link.springer.com/chapter/10.1007/978-3-658-27602-7_1
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Note	:	*Total hours per 1 credit in 1 semester = {(1 credit x 300 minutes x 14 weeks)/60 minutes} = 70 hours. Each ECTS equals 25 hours therefore 1 credit in 1 semester equals 2.8 ECTS.

PLO and CO Mapping

	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9
CO1				✔					
CO2		✔		✔				✔	✔
CO3		✔		✔					
CO4		✔		✔				✔	✔