Realistic Mathematics Teaching and Learning

Module designation	Realistic Mathematics Teaching and Learning
Semester(s) in which the module is taught	1 st Semester
Person responsible for the module	Dr. Pinta Deniyanti M.Si Dr. Meiliasari, S.Pd., M.Sc
Language	Indonesian
Relation to curriculum	Elective
Teaching methods	Lecture, structured project, seminar
Workload (incl. contact hours, self-study hours)	16×100 minutes of lectures (27 hours/semester) 16×200 minutes of independent study (53 hours/semester) 15×200 minutes of structured project (50 hours/semester)
Credit points	2 SKS = 5,2 ECTS
Required and recommended prerequisites for joining the module	NA
Module objectives/intended learning outcomes	 Students understand the principles and characteristics of RME Students develop an instructional design underpinning realistic mathematics education (RME) Students conduct and evaluate RME-based lessons
Content	1. the principles and characteristics of realistic mathematics education 2. designing, implementing, and evaluating realistic mathematics instructional activities
Examination forms	Written testProject
Study and examination	Study and examination requirements:
requirements	 Students have at least 80% of attendance Students complete all assignments with satisfactory result

1. Gravemeijer, Developing Realistic Mathematics Education Reading list 2. R. Sembiring dkk., A Decade of PMRI in Indonesia 3. Gravemeijer, K. (1999), How Emergent Models May Foster the Constitution of Formal Mathematics, Mathematical Thinking and Learning 1(2), pp. 155 - 177 4. Mousley, J., Sullivan, P., & Zevenbergen, R. (....). Alternative Learning Trajectory 5. Sembiring, R. K., (2008), Apa dan Mengapa PMRI, Majalah PMRI Vol. VI No. 4 6. Uzel, D. (2006), Attitudes of 7th Class Students Toward Mathematics in Realistic Mathematics Education, International Mathematical Forum, 1, No. 39, pp 1951 - 1959 7. Van den Heuvel-Panhuizen, M. (1996), Assessment and Realistic Mathematics Education, CD- β Press, Center for Science and Mathematics Education, Utrecht