

Development and Problems in Mathematics Education

Module designation	Development and Problems in Mathematics Education
Semester(s) in which the module is taught	2 nd Semester
Person responsible for the module	Dr. Meiliasari, S.Pd., M.Sc
Language	Indonesian
Relation to curriculum	<i>Compulsary</i>
Teaching methods	<i>Lecture, structured project, seminar</i>
Workload (incl. contact hours, self-study hours)	16 × 150 minutes of lectures (40 hours/semester) 16 × 300 minutes of independent study (80 hours/semester) 15 × 300 minutes of structured project (75 hours/semester)
Credit points	3 SKS/ 7,8 ECTS
Required and recommended prerequisites for joining the module	NA
Module objectives/intended learning outcomes	<ul style="list-style-type: none"> • Students will understand the development of trends and research in mathematics education. • Students will be able to find proper resources in mathematics education. • Students will be able to analyze and synthesize information from various resources. • Students will be able to write a systematic literature review a specific topic in mathematics education.
Content	<p>Students will learn about:</p> <ol style="list-style-type: none"> 1. Developing skills in finding proper resources in mathematics education 2. Critical analysis of literature in mathematics education 3. Writing a systematic literature review
Examination forms	<ol style="list-style-type: none"> 1. Project 2. Seminar
Study and examination requirements	<p>Study and examination requirements:</p> <ul style="list-style-type: none"> - Students have at least 80% of attendance - Students complete all assignments with satisfactory results.
Reading list	<ul style="list-style-type: none"> • Xiao, Y., & Watson, M. (2019). Guidance on conducting a systematic literature review. <i>Journal of planning education and research</i>, 39(1), 93-112. • Sriraman, B., & English, L. D. (2005). Theories of mathematics education: A global survey of theoretical frameworks/trends in mathematics education research. <i>ZDM</i>, 37(6), 450-456 • Awofala, A. O., & Ajao, E. A. Trends in Research in Problem Solving in Mathematics.