

Module Handbook (Description of Course Unit)

Course designation	Mathematics Learning in Senior High School
Semester(s) in which the Course is taught	5th (fifth)
Person responsible for the Course	Yuni Arrifadah
Language	Indonesian Language
Relation to curriculum	Compulsory
Teaching methods	Lecture (L), Project (P), Group Discussion (GD), Presentation (P)
Workload (incl. contact hours, self-study hours)	Total workload: Hours in Class, specified in hours: 35 (Lecture) (please specify whether lecture, exercise, laboratory session, etc.) A private study including examination preparation, specified in hours: 56
Credit points	3 CP / 4.8 ECTS
Required and recommended prerequisites for joining the Course	Mathematics Learning in Junior High School

<p>Course objectives/intended learning outcomes</p>	<p>Students are able to master theoretical concepts and solve problems about numbers, algebra, measurement and geometry, data analysis, and probabilities in mathematics learning for secondary education. Students are able to master pedagogic-didactic concepts to plan, implement, and evaluate mathematics learning for secondary education that is critical, creative, communicative, and collaborative. Students are able to arrange and implement limited learning tools and evaluation tools for secondary education by utilizing various learning resources and technology that are oriented toward life skills. Students are able to develop media and mathematics learning resources for mathematics learning in Senior High School based on research results and are oriented towards Islam and East Javanese culture.</p>
<p>Content</p>	<p>Mathematics Learning in Senior High School discusses and provides students experience to practice developing:</p> <ul style="list-style-type: none"> ● mathematics teaching materials for senior high school, ● mathematics learning strategies and methods for senior high school, ● mathematics learning media for senior high school, ● mathematics learning assessment for senior high school, ● mathematics learning devices for senior high school.
<p>Examination forms</p>	<ul style="list-style-type: none"> ● Final Examination (Paper based exam) (120 min), ● Mid-examination (Paper based exam)(120 min), ● Assignments (Presentation Materials) (120 min). ● Exam paper (120 min)
<p>Study and examination requirements</p>	<p>Requirements for successfully passing the Course:</p> <ul style="list-style-type: none"> ● Attendance 10% ● Assignments 30% ● Mid-evaluation 20% ● Final Evaluation 40% <p>The minimum grade to pass the course is C (61).</p>

Reading list

1. As'ari, A.R. 2019. *Mengembangkan Hots melalui Matematika*. Malang: Universitas Negeri Malang.
2. *Buku siswa dan Buku guru pelajaran Matematika kelas X, XI, XII kurikulum 2013 revisi*.
3. *Capaian Pembelajaran Matematika Fase E dan F*
<https://guru.kemdikbud.go.id/kurikulum/referensi-penerapan/capaian-pembelajaran/sd-sma/matematika/fase-e>
<https://guru.kemdikbud.go.id/kurikulum/referensi-penerapan/capaian-pembelajaran/sd-sma/matematika/fase-f>
4. *Modul Ajar Kurikulum Merdeka jenjang SMA*
<https://www.amongguru.com/download-modul-ajar-kurikulum-merdeka-jenjang-sma-tahun-2022/>
5. Sumarmo, U. 2019. *Tes dan skala matematika*. Cimahi: Refika.
6. Wahyu, I.G. 2020, The Assessment instrument of Mathematics Learning Outcomes Based on HOTS toward two-dimensional Geometry Topic. *Indonesian Journal of Education Research and Review*, Vol 3, no 2.