UNIVERSITAS NEGERI YOGYAKARTA

FACULTY OF MATHEMATICS AND NATURAL SCIENCES
DEPARTMENT OF MATHEMATICS EDUCATION
Jalan Colombo Nomor 1 Yogyakarta 55281
Telepon: (0274) 565411 Pesawat 217, (0274) 565411 (TU); Fax. (0274) 548203
Laman: fmipa.uny.ac.id, E-mail: humas_fmipa@uny.ac.id

Module name:	Solid Geometry
Module level, if applicable:	Undergraduate
Code:	MAT6206
Sub-heading, if applicable:	-
Classes, if applicable:	-
Semester:	2nd
Module coordinator:	Nila Mareta Murdiyani, M.Sc.
Lecturer(s):	Nila Mareta Murdiyani, M.Sc; Himmawati P.L., MSi.; Murdanu, M.Pd;
Language:	Bahasa Indonesia
Classification within the curriculum:	Compulsory Course
Teaching format / class hours per week during the semester:	100 minutes lectures and 120 minutes structured activities per week.
Workload:	Total workload is 90,67 hours per semester which consists of 100 minutes lectures, 120 minutes structured activities, and 120 minutes self-study per week for 16 weeks.
Credit points:	2
Prerequisites course(s):	Plane Geometry (MAT6203)
Course Outcomes	After taking this course the students have ability to: CO1. Demonstrate collaborative attitude and respect the opinions of others in carrying out individual tasks and group assignments CO2. Communicate ideas in solving mathematical problems verbally and in writing CO3. Master the concepts of space geometry in deductive axiomatic CO4. Explore and prove the theorems of space geometry in deductive axiomatic CO5. Solve the problems of space geometry in deductive axiomatic

<table>
<tr><td>Content:</td><td>This course discusses elements of space and their relations, drawing geometrical objects, perpendicularity, angle, distance, polyhedrons, cylinder, cone, and sphere.</td></tr>
<tr><td>Study / exam achievements:</td><td>Attitude assessment is carried out at each meeting by observation and / or self-assessment techniques using the assumption that basically every student has a good attitude. The student is given a value of very good or not good attitude if they show it significantly compared to other students in general. The result of attitude assessment is not a component of the final grades, but as one of the requirements to pass the course. Students will pass from this course if at least have a good attitude.

The final mark will be weight as follow:
<table>
<tr><th>No</th><th>CO</th><th>Assessment Object</th><th>Assessment Technique</th><th>Weight</th></tr>
<tr><td>1</td><td>CO 2</td><td>Presentation</td><td>Observation</td><td>10%</td></tr>
<tr><td>2</td><td>CO 3, CO 4, and CO 5</td><td>a. Individual Assignment
b. Group Assignment
c. Quiz
d. Mid
e. Final Exam</td><td>Written test</td><td>10%
10%
15%
25%
30%</td></tr>
<tr><td colspan="4">Total</td><td>100%</td></tr>
</table>
</td></tr>
<tr><td>Forms of media:</td><td>Board, LCD Projector, Laptop/Computer, Ruler, Compass</td></tr>
<tr><td>Literatures:</td><td>A. A, Sardjana. 2008. Geometri Ruang. Penerbit Universitas Terbuka: Yogyakarta.
B. Aarts, J.M. 2008. Plane and solid geometry. Springer Science: New York.
C. Rich, Barnett & Thomas, Christopher. 2009. Schaum Outline Series: Geometry. McGraw Hill: New York.
D. Iswadji, Djoko. 2011. Geometri Ruang. JICA: Yogyakarta.</td></tr>
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PLO and CO mapping

	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PLO10	PLO11	PLO12
CO1		✓										
CO2				✓								
CO3					✓							
CO4						✓						
CO5							✓					