## AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM



| 13 | Theoretical | Conic, area and volume of conic, cutting pyramids, area and volumes of cutting pyramids, <br> applications related conic and cutting pyramids |
| :---: | :---: | :--- |
| 14 | Theoretical | Sphere, slice of sphere, concept of sphere cover, their area and volumes, applications related <br> sphere |
| 15 | Theoretical | Modern geometry theorems |
| 16 | Final Exam | Final Exam |

## Workload Calculation

| Activity | Quantity | Preparation | Duration | Total Workload |
| :--- | :---: | :---: | :---: | :---: |
| Lecture - Theory | 14 | 5 | 3 | 112 |
| Midterm Examination | 1 |  | 38 | 2 |
| Final Examination | 1 |  | 46 | 2 |
|  |  |  | Total Workload (Hours) | 200 |
|  | [Total Workload (Hours) $/ 25^{*}$ ] $=$ ECTS | 8 |  |  |
| *25 hour workload is accepted as 1 ECTS |  |  |  |  |

## Learning Outcomes

1 Explain and apply definition of geometry, its structure and geometry usage in real life
Solve problems related definition of triangle concept, kinds of triangles, basic and assistant elements of triangle, equivalence axioms and theorems about triangles, applications related to equivalences in triangles
3 Solve problems related similar triangles, similarity theorems, applications about similarity on trianglesExpress relations between concepts of line, plane and point Explain concepts of angle, polygon, triangle, disk and their applications
6 Explain the properties of objects in space, applications related to area and volume of solid objects

Programme Outcomes (Mathematics Education Master)
1 Learns sufficient theoretical knowledge in the field of mathematics education
2 Uses theoretical knowledge in educational settings

3 Integrates mathematics education knowledge with the other disciplines and products functional knowledge
4 Uses information and communication technologies efficiently in conceptual learning
5 Finds scientific solutions to the problems in the field of mathematics education
6 Evaluates the knowledge critically in the field
7 Participates team projects in the mathematics education field
8 Shares national and international data in the field of mathematics education
9 Comprehends and evaluates science-technology-society and mathematics interactions
10 Comprehends mathematics under the ethical values and takes account of ethical considerations
11 Follows the current development in the mathematics education field
12 Develops strategical plans and evaluates them in the context of quality processes
13 Adopts lifelong learning strategies to his/her studies
Contribution of Learning Outcomes to Programme Outcomes 1:Very Low, 2:Low, 3:Medium, 4:High, 5:Very High

|  | L1 | L2 | L3 | L4 | L5 | L6 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| P1 | 4 | 3 | 2 | 2 | 2 | 3 |
| P2 | 2 | 1 | 1 | 1 | 2 | 2 |
| P3 | 3 | 1 | 2 | 1 | 1 | 1 |
| P5 | 2 | 3 | 3 | 4 | 2 | 3 |
| P6 | 3 | 2 | 1 | 1 | 2 | 3 |
| P9 | 1 | 1 | 1 | 1 | 1 | 1 |
| P13 | 1 | 1 | 1 | 1 | 1 | 1 |

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