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| Electroneurophysiology | | | |
| Associate | TR-NQF-HE: Level 5 | QF-EHEA: Short Cycle | EQF-LLL: Level 5 |

Course Introduction and Application Information

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|---|---|----------------------------|-------------------------------|-----------|---------------------------------|----------------------------|-------------------------------|
| Course Code: | SHM035 | | | | | | |
| Course Name: | Basic Mathematics | | | | | | |
| Semester: | Spring | | | | | | |
| Course Credits: | <table border="1"> <tr> <td>ECTS</td> </tr> <tr> <td>2</td> </tr> </table> | | | ECTS | 2 | | |
| ECTS | | | | | | | |
| 2 | | | | | | | |
| Language of instruction: | Turkish | | | | | | |
| Course Condition: | | | | | | | |
| Does the Course Require Work Experience?: | No | | | | | | |
| Type of course: | Departmental Elective | | | | | | |
| Course Level: | <table border="1"> <tr> <td>Associate</td> <td>TR-NQF-HE:5. Master`s Degree</td> <td>QF- EHEA:Short Cycle</td> <td>EQF-LLL:5. Master`s Degree</td> </tr> </table> | | | Associate | TR-NQF-HE:5. Master`s Degree | QF- EHEA:Short Cycle | EQF-LLL:5. Master`s Degree |
| Associate | TR-NQF-HE:5. Master`s Degree | QF- EHEA:Short Cycle | EQF-LLL:5. Master`s Degree | | | | |
| Mode of Delivery: | Face to face | | | | | | |
| Course Coordinator: | Dr. Öğr. Üy. EMRE DEMİR | | | | | | |
| Course Lecturer(s): | Dr. Öğr. Üyesi Emre DEMİR | | | | | | |
| Course Assistants: | | | | | | | |

Course Objective and Content

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| Course Objectives: | Providing a better understanding of the basic subjects of the vocational courses, producing concrete and quick solution to the problems encountered in business life by using mathematical information, Helping to make risk analysis, Providing the most profitable choice at the lowest cost and spreading the use of mathematical operations |
| Course | Arithmetic; Arithmetic terms and signs, numbers, multipliers and superscripts, ratio and |

Content: proportion, averages and percentages, Algebra; evaluation of simple algebraic expressions, four operations, parenthesized operations, linear equations, number systems, first order equations, second order equations, logarithm, Geometry; simple geometric constructions, space and volume, graphs, equation and function graphs.

Learning Outcomes

The students who have succeeded in this course;

- 1) Apply mathematical knowledge to problems and calculations in departmental courses
- 2) Ability to gain analytical and rapid thinking skills
- 3) To be able to transfer reasoning and versatile thinking into daily life,
- 4) Mathematical reading and writing
- 5) Ability to perform mathematical modeling.
- 6) Ability to identify and correct errors and select the most appropriate solution path.

Course Flow Plan

| Week | Subject | Related Preparation |
|------|------------------------------|--|
| 1) | Integers and Natural Numbers | Lecturer`s Lecture Notes MEB High School Mathematics Textbooks |
| 2) | Rational and dedy numbers | Lecturer`s Lecture Notes MEB High School Mathematics Textbooks |
| 3) | Splitting and dividing | Lecturer`s Lecture Notes MEB High School Mathematics Textbooks |
| 4) | Ratio-proportion | Öğretim Üyesi Ders Notları MEB Lise Matematik Kitapları |
| 5) | Exponenmed numbers | Lecturer`s Lecture Notes MEB High School Mathematics Textbooks |
| 6) | Rooted numbers | Lecturer`s Lecture Notes MEB High School Mathematics Textbooks |
| 7) | Midterm | Lecturer`s Lecture Notes MEB High School Mathematics Textbooks |
| 8) | Multiplier allocation | Lecturer`s Lecture Notes MEB High School Mathematics Textbooks |
| 9) | Identifies | Lecturer`s Lecture Notes MEB High School Mathematics Textbooks |
| 10) | Number-fraction problems | Lecturer`s Lecture Notes MEB High School |

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| | | Mathematics Textbooks |
| 11) | Age-mixing problems | Lecturer`s Lecture Notes MEB High School Mathematics Textbooks |
| 12) | Percentage problems | Lecturer`s Lecture Notes MEB High School Mathematics Textbooks |
| 14) | Basic Properties of Triangles, Quadrilaterals, Circles, and Disks. | Lecturer`s Lecture Notes MEB High School Mathematics Textbooks |
| 15) | Analytical Geometry of the Line - Volume of Regular Geometric Shapes | Lecturer`s Lecture Notes MEB High School Mathematics Textbooks |
| 16) | Final Exam | Lecturer`s Lecture Notes MEB High School Mathematics Textbooks |

Sources

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|---------------------------|--|
| Course Notes / Textbooks: | Öğretim Üyesi Ders Notları MEB Lise Matematik Kitapları |
| References: | Öğretim Üyesi Ders Notları MEB Lise Matematik Kitapları |

Course - Program Learning Outcome Relationship

| Course Learning Outcomes | 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|---|
| Program Outcomes | | | | | | |
| 1) Has a basic level of theoretical and practical knowledge about the field of electrophysiology. | | | | | | |
| 2) Has the necessary medical and technical terminology for the effective use of the devices used. | | | | | | |
| 3) By using his / her basic knowledge, he / she carries out a given task independently and takes responsibility when he / she encounters an unforeseen situation and develops solutions. Collaborates with other fields related to the field. | | | | | | |
| 4) A foreign language at least at the level of European Language Portfolio A2 General Level by following the information in the field. | | | | | | |
| 5) Uses information and communication technologies together with computer software at the basic level of European Computer Driving License required by the field. | | | | | | |

| Course Learning Outcomes | 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|---|
| 6) Has the necessary theoretical knowledge about the risks and the measures that can be taken. | | | | | | |
| 7) Acts and participates in quality management and processes. | | | | | | |
| 8) Has the necessary discipline, high communication skills, technical and practical knowledge for team work. | | | | | | |
| 9) Contributes to social, scientific, cultural and ethical values in the stages of collecting, interpreting, applying and announcing the data related to the field of electroneurophysiology. | | | | | | |
| 10) Acts in accordance with laws, regulations, legislation and professional ethics rules related to its duties, rights and responsibilities as individuals. | | | | | | |
| 11) Has the awareness of lifelong learning and directs its learning to a level of advanced education in the same field or a profession of the same level | | | | | | |
| 12) Has knowledge about ethical principles and rules related to his / her field. | | | | | | |
| 13) Has sufficient consciousness about individual and public health, environmental protection and occupational safety | | | | | | |
| 14) Contributes to projects and activities for the social environment in which they live with a sense of social responsibility. | | | | | | |

Course - Learning Outcome Relationship

| No Effect | 1 Lowest | 2 Average | 3 Highest |
|-----------|----------|-----------|-----------|
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| | Program Outcomes | Level of Contribution |
|----|--|-----------------------|
| 1) | Has a basic level of theoretical and practical knowledge about the field of electroneurophysiology. | |
| 2) | Has the necessary medical and technical terminology for the effective use of the devices used. | |
| 3) | By using his / her basic knowledge, he / she carries out a given task independently and takes responsibility when he / she encounters an unforeseen situation and develops solutions. Collaborates with other fields related to the field. | |
| 4) | A foreign language at least at the level of European Language Portfolio A2 General Level by following the information in the field. | |

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|-----|--|--|
| 5) | Uses information and communication technologies together with computer software at the basic level of European Computer Driving License required by the field. | |
| 6) | Has the theoretical and practical knowledge about the risks and the measures that can be taken. | |
| 7) | Acts and participates in quality management and processes. | |
| 8) | Has the necessary discipline, high communication skills, technical and practical knowledge for team work. | |
| 9) | Contributes to social, scientific, cultural and ethical values in the stages of collecting, interpreting, applying and announcing the data related to the field of electroneurophysiology. | |
| 10) | Acts in accordance with laws, regulations, legislation and professional ethics rules related to its duties, rights and responsibilities as individuals. | |
| 11) | Has the awareness of lifelong learning and directs its learning to a level of advanced education in the same field or a profession of the same level | |
| 12) | Has knowledge about ethical principles and rules related to his / her field. | |
| 13) | Has sufficient consciousness about individual and public health, environmental protection and occupational safety | |
| 14) | Contributes to projects and activities for the social environment in which they live with a sense of social responsibility. | |

Assessment & Grading

| Değerlendirme Yöntemleri ve Kriterleri | Number of Activities | Level of Contribution |
|--|----------------------|-----------------------|
| Midterms | 1 | % 40 |
| Final | 1 | % 60 |
| total | | % 100 |

Workload and ECTS Credit Calculation

| Activities | Number of Activities | Preparation for the Activity | Aktivitede Harcanan Süre | Completing the Activity Requirements | Workload |
|--------------|----------------------|------------------------------|--------------------------|--------------------------------------|----------|
| Course Hours | 14 | 0 | 1 | | 14 |
| Study Hours | 14 | 0 | 1 | | 14 |

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|-----------------------|---|----|---|--|-----------|
| Out of Class | | | | | |
| Midterms | 1 | 16 | 1 | | 17 |
| Final | 1 | 16 | 1 | | 17 |
| Total Workload | | | | | 62 |