

GENERAL GEOLOGY END

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| 1 | Course Title: | GENERAL GEOLOGY END |
| 2 | Course Code: | AYHZ107 |
| 3 | Type of Course: | Compulsory |
| 4 | Level of Course: | Short Cycle |
| 5 | Year of Study: | 1 |
| 6 | Semester: | 1 |
| 7 | ECTS Credits Allocated: | 5.00 |
| 8 | Theoretical (hour/week): | 2.00 |
| 9 | Practice (hour/week): | 0.00 |
| 10 | Laboratory (hour/week): | 1 |
| 11 | Prerequisites: | None |
| 12 | Language: | Turkish |
| 13 | Mode of Delivery: | Face to face |
| 14 | Course Coordinator: | Öğr. Gör. Dr. NURHAN SÜMER |
| 15 | Course Lecturers: | Meslek Yüksekokulları Yönetim Kurullarının görevlendirdiği öğretim elemanları |
| 16 | Contact information of the Course Coordinator: | nsumer@uludag.edu.tr Uludağ Üniversitesi Büyükorhan Meslek Yüksekokulu, Orhan Mah., Dr. İbrahim Öktem Cad., No: 28, 16990 Büyükorhan/Bursa Telefon : +90 (224) 8412439 |
| 17 | Website: | |
| 18 | Objective of the Course: | Giving information about the basic principles of geosciences and soil science. Being able to use this knowledge to solve problems about natural resources and wild life |
| 19 | Contribution of the Course to Professional Development: | Students who complete this program learn the properties and types of elements and minerals within the scope of general geology. Learns what rock groups are and how to differentiate. Learn the formation processes of various rocks and the factors affecting them. Learns the soil structural properties and soil types. |
| 20 | Learning Outcomes: | |
| | 1 | Having basic knowledge on geology and analyze potential problems. |
| | 2 | Having knowledge of the structure and generation of planet earth. |
| | 3 | Being able to identify landforms and their relations between natural forces. |
| | 4 | Rock and minerals allows the properties, their specifications and their roles on soil production. |
| | 5 | Gain information about engineering properties of rock and earth mass, |
| | 6 | Gain skills and knowledge to produce solutions to the problems related to natural resources |
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| 21 | Course Content: | |

| | Course Content: | | | |
|--|--|--|-----------------|------------------------|
| Week | Theoretical | Practice | | |
| 1 | Introduction; Definiton, history of geology and general specifications of the planet earth | Genesis of the planet (Powerpoint presentation) | | |
| 2 | Minerals; their physical and chemical properties. | Introduction to cyrstal shapes | | |
| 3 | Rocks; Magmatic, sedimentary and metamorphic rocks | Introduction to minerals part | | |
| 4 | Dissolution effects, soil generation and progress | Introduction to minerals part | | |
| 5 | Factors affect soil generation | Introduction to rock samples | | |
| 6 | Clay minerals | Introduction to rock samples | | |
| 7 | Soil profile and horizon | Field observation | | |
| 8 | Physical properties of soil | Soil sampling | | |
| 9 | Mid-term exam | Introduction to topographic and geologic maps and cross sections | | |
| 10 | Chemical properties of soil | Texture analysis | | |
| 11 | Soil Classification | Introduction to minerals and rocks | | |
| 12 | Geological time sequences and maps, epyrogenical and orogenical movements | Technical trip to mine sites | | |
| 13 | Earthquakes and natural disasters, management and usage of natural resources | Introduction to earthquakes | | |
| 14 | Carstic formations | Technical trip to carstic areas | | |
| Activites | | Number | Duration (hour) | Total Work Load (hour) |
| Theoretical | | Sciences ", Volume 1 I.T. Printing House, Istanbul. Lütgens, F.K., Frederick, K., Tarbuck, E. J. 2013, General | 2.00 | 2.00 |
| Practicals/Labs | | 14 | 1.00 | 14.00 |
| Self study and preperation | | Sagittarius. No: 531. Ankara, 2013. General | 4.00 | 56.00 |
| Homeworks | | 0 | 0.00 | 0.00 |
| Projects | | Kantarci, M. D., 2000, Soil Science, Istanbul University Faculty of Forestry Publications, I I I Publication No: 4261 | 0.00 | 0.00 |
| Field Studies | | 5 | 5.00 | 25.00 |
| Midterm Assessment | | 1 | 7.00 | 7.00 |
| Others | | 0 | 0.00 | 0.00 |
| Final Exams | | 1 | 14.00 | 14.00 |
| Midterm Exam | | 1 | 30.00 | |
| Total Work Load | | | | 144.00 |
| Total work load/ 30 hr | | | | 4.80 |
| Home work-project | | 0 | 0.00 | |
| ECTS Credit of the Course | | | | 5.00 |
| Final Exam | | | | |
| Total | | 3 | 100.00 | |
| Contribution of Term (Year) Learning Activities to Success Grade | | 40.00 | | |
| Contribution of Final Exam to Success Grade | | 60.00 | | |
| Total | | 100.00 | | |
| Measurement and Evaluation Techniques Used in the Course | | Measurement and evaluation is carried out according to the principles of Bursa Uludağ University Associate and Undergraduate Education Regulation. | | |
| 24 | ECTS / WORK LOAD TABLE | | | |

| 25 | CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS | | | | | | | | | | | | | | | |
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| | PQ1 | PQ2 | PQ3 | PQ4 | PQ5 | PQ6 | PQ7 | PQ8 | PQ9 | PQ10 | PQ11 | PQ12 | PQ13 | PQ14 | PQ15 | PQ16 |
| ÖK1 | 3 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ÖK2 | 3 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ÖK3 | 3 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ÖK4 | 3 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ÖK5 | 3 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ÖK6 | 3 | 3 | 0 | 0 | 3 | 0 | 3 | 0 | 3 | 4 | 0 | 0 | 0 | 0 | 0 | 0 |
| LO: Learning Objectives PQ: Program Qualifications | | | | | | | | | | | | | | | | |
| Contribution Level: | 1 very low | | | 2 low | | | 3 Medium | | | 4 High | | | 5 Very High | | | |