

SURVEYING

| | | | |
|------|--|---|--|
| 1 | Course Title: | SURVEYING | |
| 2 | Course Code: | BSM1502 | |
| 3 | Type of Course: | Compulsory | |
| 4 | Level of Course: | First Cycle | |
| 5 | Year of Study: | 1 | |
| 6 | Semester: | 2 | |
| 7 | ECTS Credits Allocated: | 4.00 | |
| 8 | Theoretical (hour/week): | 1.00 | |
| 9 | Practice (hour/week): | 2.00 | |
| 10 | Laboratory (hour/week): | 0 | |
| 11 | Prerequisites: | None | |
| 12 | Language: | Turkish | |
| 13 | Mode of Delivery: | Face to face | |
| 14 | Course Coordinator: | Dr. Öğr. Üyesi MÜGE KİRMİKİL | |
| 15 | Course Lecturers: | | |
| 16 | Contact information of the Course Coordinator: | muge@uludag.edu.tr U.Ü. Ziraat Fakültesi Biyosistem Mühendisliği Bölümü 0.224.2941623 | |
| 17 | Website: | | |
| 18 | Objective of the Course: | Course objectives are to give the student a basic understanding surveying measurement procedures, and basic principles for using instruments, to show agricultural land measurement techniques. | |
| 19 | Contribution of the Course to Professional Development: | | |
| 20 | Learning Outcomes: | | |
| | | 1 | learn the basic land surveys which are necessary for data acquisition in agricultural engineering studies, work with basic surveying equipment |
| | | 2 | understand the basic principles of height measurement, design and conduct those surveys |
| | | 3 | conduct surface leveling and draw contours |
| | | 4 | gain skill to interpret topographical maps |
| | | 5 | |
| | | 6 | |
| | | 7 | |
| | | 8 | |
| | | 9 | |
| | | 10 | |
| 21 | Course Content: | | |
| | | Course Content: | |
| Week | Theoretical | Practice | |
| 1 | Introduction | Introduction | |
| 2 | Definition, content, and historical development of Surveying | Definition, content, and historical development of Surveying | |
| 3 | Units of Measurement and Scale | Measurement Units and Scale | |

| | | |
|----|--|--|
| 4 | Basic surveying equipment Horizontal distance measurement tools and methods | Basic surveying equipment Horizontal distance measurement tools and methods |
| 5 | Equipment providing perpendicularity to the line | Equipment providing perpendicularity to the line |
| 6 | Area measurements methods | Area measurements methods |
| 7 | Area measurement by Planimeter | Area measurement by Planimeter |
| 8 | Leveling and Leveling Instruments | Vertical distance measurements |
| 9 | Differential and Profile Leveling | Differential and Profile Leveling |
| 10 | Repeating courses and midterm exam | |
| 11 | Surface Leveling | Surface Leveling |
| 12 | Drawing of Contours | Drawing of Contours |
| 13 | Map Interpretation | Map Interpretation |
| 14 | Global Positioning Systems | Global Positioning Systems |

| | | |
|----|---|---|
| 22 | Textbooks, References and/or Other Materials: | Ayyıldız, M. 1985. Ölçme Bilgisi, Ankara Üniversitesi Ziraat Fakültesi Yayını N.:952 Yüksel, A.N., 1991. Ölçme Bilgisi, Trakya Üniversitesi, Tekirdağ Ziraat Fakültesi, Yayın no:112, Tekirdağ. Balcı, A. ve M. Avcı, 1998. Ölçme Bilgisi-1, Ege Üniversitesi, Ziraat Fakültesi yayınları, No:532, Bornova, İzmir. Yağanoğlu, V. ve ark.1991. Ölçme Bilgisi-1 (Uygulama Ders Notu). Atatürk Üniversitesi Ziraat Fakültesi Ders |
|----|---|---|

| Activities | | Number | Duration (hour) | Total Work Load (hour) |
|---|---------------|---------------|-----------------|------------------------|
| TERM LEARNING ACTIVITIES | NUMBER | WEIGHT | 1.00 | 14.00 |
| Practicals/Labs | | 14 | 2.00 | 28.00 |
| Self study and preparation | 1 | 5 | 3.00 | 15.00 |
| Quiz | | 20.00 | | |
| Homeworks | | 0 | 0.00 | 0.00 |
| Projects | | 0 | 0.00 | 0.00 |
| Final Exam | 1 | 60.00 | | |
| Field Studies | | 3 | 2.00 | 6.00 |
| Midterm exams | | 1 | 20.00 | 20.00 |
| Contribution of Term (Year) Learning Activities to Others | | 40.00 | | |
| | | 6 | 3.00 | 18.00 |
| Final Exams | | 1 | 20.00 | 20.00 |
| Contribution of Final Exam to Success Grade | | 60.00 | | |
| Total Work Load | | | | 141.00 |
| Total work load/ 30 hr | | | | 4.03 |
| Measurement and Evaluation Techniques Used in the ECTS Credit of the Course | | | | 4.00 |

24 ECTS / WORK LOAD TABLE

| 25 | CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS | | | | | | | | | | | | | | | |
|-----|---|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|
| | PQ1 | PQ2 | PQ3 | PQ4 | PQ5 | PQ6 | PQ7 | PQ8 | PQ9 | PQ10 | PQ11 | PQ12 | PQ13 | PQ14 | PQ15 | PQ16 |
| ÖK1 | 1 | 4 | 1 | 0 | 1 | 2 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ÖK2 | 1 | 4 | 1 | 0 | 1 | 2 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ÖK3 | 1 | 4 | 1 | 0 | 1 | 2 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ÖK4 | 1 | 3 | 1 | 0 | 1 | 3 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| LO: Learning Objectives PQ: Program Qualifications | | | | | |
|---|------------|-------|----------|--------|-------------|
| Contrib ution Level: | 1 very low | 2 low | 3 Medium | 4 High | 5 Very High |