# MASONRY STRUCTURES

| 1 | Course Title: | MASONRY STRUCTURES |
|---|---|---|
| 2 | Course Code: | INS5087 |
| 3 | Type of Course: | Optional |
| 4 | Level of Course: | Second Cycle |
| 5 | Year of Study: | 1 |
| 6 | Semester: | 1 |
| 7 | ECTS Credits Allocated: | 6.00 |
| 8 | Theoretical (hour/week): | 3.00 |
| 9 | Practice (hour/week): | 0.00 |
| 10 | Laboratory (hour/week): | 0 |
| 11 | Prerequisites: | None |
| 12 | Language: | Turkish |
| 13 | Mode of Delivery: | Face to face |
| 14 | Course Coordinator: | Doç.Dr. TURAN ARSLAN |
| 15 | Course Lecturers: | |
| 16 | Contact information of the Course Coordinator: | arsltur@uludag.edu.tr<br>0 224 294 2639 |
| 17 | Website: | http://insaat.uludag.edu.tr/ |
| 18 | Objective of the Course: | To understand the nature of travel demand and transportation planning and use common transportation planning models for planning  future transportation systems |
| 19 | Contribution of the Course to Professional Development: | |
| 20 | Learning Outcomes: | |

| | | 1 | Be able to describe the dimensions of urban transportation systems and the relationship to community goals and objectives |
|---|---|---|---|
| | | 2 | Be able to recognize the data needed for planning urban transportation systems |
| | | 3 | Be able to understand  standard transportation planning models |
| | | 4 | Be able to evaluate alternative transportation technologies |
| | | 5 | Be able to evaluate alternative transportation systems |
| | | 6 | |
| | | 7 | |
| | | 8 | |
| | | 9 | |
| | | 10 | |

| 21 | Course Content: | |
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| Course Content: | | |
|---|---|---|
| Week | Theoretical | Practice |
| 1 | Introduction to Urban Transportation Systems and Planning | |
| 2 | Urban Transportation Planning Process Alternatives, Decision Making, Inventories | |
| 3 | Travel Characteristics | |

| 4 | Land Use | |
|---|---|---|
| 5 | Social-Economic Factors | |
| 6 | Trip Generation | |
| 7 | Repeating courses and midterm exam I | |
| 8 | Trip Distribution (Fratar Method) | |
| 9 | Trip Distribution (Gravity Method) | |
| 10 | Mode Choice (Logit Model) | |
| 11 | Traffic and Trip Assignment (All-or-Nothing, Shortest Path, Capacity Constraint) | |
| 12 | Traffic and Trip Assignment (All-or-Nothing, Shortest Path, Capacity Constraint) | |
| 13 | Traffic and Trip Assignment (All-or-Nothing, Shortest Path, Capacity Constraint) | |
| 14 | Class Presentations | |

| 22 | Textbooks, References and/or Other Materials: | - Urban Transportation Planning, M. D. Meyer, E. J. Miller, McGraw-Hill<br>- Trafik Mühendisliği ve Uygulamaları, Argun Tunç, Asil Yayın Dağıtım<br>- Transportation Engineering: An Introduction, C. J. Khisty, B. K. Lall, Prentice Hall |
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| 23 | Assesment |
|---|---|

| TERM LEARNING ACTIVITIES | NUMBE | WEIGHT | | |
|---|---|---|---|---|
| Activites | | Number | Duration (hour) | Total Work Load (hour) |
| Theoretical Homework-project | 1 | 35 14 | 3.00 | 42.00 |
| Practicals/Labs | | 0 | 0.00 | 0.00 |
| Total Self study and preperation | 3 | 100 40 | 8.00 | 112.00 |
| Homeworks | | 1 | 25.00 | 25.00 |
| Success Grade Projects | | 0 | 0.00 | 0.00 |
| Field Studies | | 0 | 0.00 | 0.00 |
| Total Midterm exams | | 1 00.00 | 2.00 | 2.00 |
| Others | | 0 | 0.00 | 0.00 |
| Course Final Exams | | 1 | 2.00 | 2.00 |

| 24 ECTS / WORK LOAD TABLE | | | |
|---|---|---|---|
| Total Work Load | | | 183.00 |
| Total work load/ 30 hr | | | 6.10 |
| ECTS Credit of the Course | | | 6.00 |

| 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 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ÖK2 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 |
| ÖK3 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ÖK4 | 4 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 |

| ÖK5 | 4 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 |
|-----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **LO: Learning Objectives    PQ: Program Qualifications** | | | | | | | | | | | | | | | | |
| **Contribution Level:** | **1 very low** | | | **2 low** | | | **3  Medium** | | | **4 High** | | | **5 Very High** | | | |

| ÖK5 | 4 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 |
|-----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
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