| | PERFORMAN | ICE IN | BUILDING MATERIAL | | | | | | |
|------|---|---|--|--|--|--|--|--|--|
| 1 | Course Title: | PERFOR | RMANCE IN BUILDING MATERIAL | | | | | | |
| 2 | Course Code: | MIM5049 | | | | | | | |
| 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: | | | | | | | | |
| 12 | Language: | Turkish | | | | | | | |
| 13 | Mode of Delivery: | Face to f | ace | | | | | | |
| 14 | Course Coordinator: | Doç.Dr. 2 | ZEHRA SEVGEN PERKER | | | | | | |
| 15 | Course Lecturers: | | | | | | | | |
| 16 | Contact information of the Course Coordinator: | zsperker@uludag.edu.tr | | | | | | | |
| 17 | Website: | | | | | | | | |
| 18 | Objective of the Course: | The aim of this course is to teach that the performances of building materials (nature, environmental effects, production processes and use), life and deterioration of building materials. | | | | | | | |
| 19 | Contribution of the Course to Professional Development: | This course contributes to professional development in using building materials in accordance with its performance and realizing the correct architectural practices. | | | | | | | |
| 20 | Learning Outcomes: | | | | | | | | |
| | | 1 | Teaching the performances of building materials (nature, environmental effects, production processes and use), life and deterioration of building materials. | | | | | | |
| | | 2 | Teaching academic research on the performances of building materials | | | | | | |
| | | 3 | Teaching orally and writing to the performances of building materials research accurately | | | | | | |
| | | 4 | | | | | | | |
| | | 5 | | | | | | | |
| | | 6 | | | | | | | |
| | | 7 | | | | | | | |
| | | 8 | | | | | | | |
| | | 9 | | | | | | | |
| 04 | Course Content: | 10 | | | | | | | |
| 21 | Course Content. | Ca | ourse Content: | | | | | | |
| Week | Theoretical | Co | Practice | | | | | | |
| 1 | To Define That the Performance of E Materials | Building | T TOURS | | | | | | |
| 2 | Properties of Building Materials, Mat – Deterioration Relationship | erial Life | | | | | | | |

| 3 | Properties of Building Materials, Mate – Deterioration Relationship | erial Life | | | | | | | |
|------------------|--|------------|--|--|--|--|--|--|--|
| 4 | Physical, Chemical, Mechanical, Biol and Human Based Problems of Buid Materials | | | | | | | | |
| 5 | Physical, Chemical, Mechanical, Biol and Human Based Problems of Buid Materials | | | | | | | | |
| 6 | Production Processes of Building Ma Material Life – Deterioration Relation | | | | | | | | |
| 7 | Production Processes of Building Ma Material Life – Deterioration Relation | | | | | | | | |
| 8 | Environmental Effects of Building Ma Material Life – Life Cycle and Deterio Relationship | | | | | | | | |
| 9 | Environmental Effects of Building Ma Material Life – Life Cycle and Deterio Relationship | | | | | | | | |
| 10 | Performance of Building Materials in Component Level | Building | | | | | | | |
| 11 | Performance of Building Materials in Component Level | Building | | | | | | | |
| 12 | Performance of Building Materials in Component Level | Building | | | | | | | |
| 13 | Homeworks Presentation | | | | | | | | |
| 14 | Homeworks Presentation | | | | | | | | |
| 22 | Textbooks, References and/or Other Materials: | | Cook, G., Hinks, J. (1997). Technology of Building Defects, Spone Press. Duggal, S.K. (2008). Building Materials, New Age International Publishers. Ransom, W.H. (2005). Building Failures, Spon Press. Toydemir, N. (2011) Yapı Elemanı Tasarımında Malzeme, Literatür Yayıncılık. Weston, R. (2003). Materials, Form and Architecture, Laurence King Publishing. | | | | | | |
| 23 | Assesment | | | | | | | | |
| TERM L | EARNING ACTIVITIES | NUMBE R | WEIGHT | | | | | | |
| Midtern | n Exam | 1 | 20.00 | | | | | | |
| Quiz | | 0 | 0.00 | | | | | | |
| Home v | vork-project | 1 | 20.00 | | | | | | |
| Final E | xam | 1 | 60.00 | | | | | | |
| Total | | 3 | 100.00 | | | | | | |
| | ution of Term (Year) Learning Activities s Grade | es to | 40.00 | | | | | | |
| Contrib | ution of Final Exam to Success Grade |) | 60.00 | | | | | | |
| Total | | | 100.00 | | | | | | |
| Measur Course | • | sed in the | Course success is evaluated through the midterm exam (written exam), final exam (written exam) and homework. | | | | | | |
| 24 | ECTS / WORK LOAD TABLE | | | | | | | | |

| Activites | | | | | | | | | Numb | er | | Dura | Duration (hour) | | | Total Work Load (hour) | | |
|----------------------------|-------|---|-----|-----|-----|-----|-----|-----|------|----------|------|-------|-----------------|------|-------|---------------------------|--|--|
| Theoretical | | | | | | | | | | | | 3.00 | | | 42.00 | | | |
| Practicals/Labs | | | | | | | | |) | | | 0.00 | | | 0.00 | | | |
| Self study and preperation | | | | | | | | 1 | 14 | | | 6.00 | | | 84.00 | | | |
| Homeworks | | | | | | | | 1 | l | | | 40.00 | | | 40.00 | | | |
| Projects | | | | | | | | (|) | | | 0.00 | | | 0.00 | | | |
| Field Studio | es | | | | | | | 4 | 1 | | | 2.00 | | | 8.00 | | | |
| Midterm ex | ams | | | | | | | 1 | 1 | | | 3.00 | | | 3.00 | | | |
| Others | | | | | | | | (|) | | | 0.00 | | | 0.00 | | | |
| Final Exam | ıs | | | | | | | 1 | l | | | 3.00 | 3.00 | | | 3.00 | | |
| Total Work | Load | | | | | | | | | | | | | | | 183.00 | | |
| Total work | load/ | 30 hr | | | | | | | | | | | | | 6.00 | | | |
| ECTS Credit of the Course | | | | | | | | | | | | | 6.00 | | | | | |
| 25 | | CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS | | | | | | | | | | | | | | | | |
| | PQ1 | PQ2 | PQ3 | PQ4 | PQ5 | PQ6 | PQ7 | PQ8 | PQ9 | PQ1 0 | PQ11 | PQ12 | PQ1 3 | PQ14 | PQ15 | PQ16 | | |
| ÖK1 | 5 | 2 | 3 | 5 | 5 | 2 | 2 | 1 | 1 | 5 | 5 | 5 | 0 | 0 | 0 | 0 | | |

| | | QUALIFICATIONS | | | | | | | | | | | | | | |
|----------------------------|-----|----------------|-------|------|--------|----------|-------|-----|--------|----------|-------|-------------|----------|------|------|------|
| | PQ1 | PQ2 | PQ3 | PQ4 | PQ5 | PQ6 | PQ7 | PQ8 | PQ9 | PQ1 0 | PQ11 | PQ12 | PQ1 3 | PQ14 | PQ15 | PQ16 |
| ÖK1 | 5 | 2 | 3 | 5 | 5 | 2 | 2 | 1 | 1 | 5 | 5 | 5 | 0 | 0 | 0 | 0 |
| ÖK2 | 5 | 2 | 3 | 5 | 5 | 2 | 2 | 1 | 1 | 5 | 3 | 5 | 0 | 0 | 0 | 0 |
| ÖK3 | 5 | 2 | 3 | 3 | 3 | 2 | 2 | 1 | 1 | 3 | 3 | 5 | 0 | 0 | 0 | 0 |
| | | | LO: L | earr | ning (| Objec | ctive | s P | Q: P | rogra | ım Qu | alifica | tions | \$ | | |
| Contrib ution Level: | ı | | 2 low | | | 3 Medium | | | 4 High | | | 5 Very High | | | | |