# DEPARTMENT OF CIVIL ENGINEERING
# COURSE SYLLABUS

## Course Details

| Code | | | | Academic Year | | | Semester |
|---|---|---|---|---|---|---|---|
| BAU092 | | | | 1 | | | 2 |
| **Title** | | | | **T** | **A** | **L** | **ECTS** |
| Scientific Research Methods | | | | 2 | | | 2 |

| Language | German | | | | | |
|---|---|---|---|---|---|---|
| **Level** | **Undergraduate** | ✓ | **Graduate** | | **Postgraduate** | |
| **Department / Program** | Civil Engineering | | | | | |
| **Forms of Teaching and Learning** | Formal | | | | | |
| **Course Type** | **Compulsory** | ✓ | **Elective** | | | |
| **Objectives** | After successfully completing the module, students can independently conduct scientific analysis and studies. They can solve a technical problem and write a dissertation using the methods learned in engineering. | | | | | |
| **Content** | To search the literature<br>Compiling the information<br>Documentation and presentation of cases<br>Evaluation of scientific relations | | | | | |
| **Prerequisites** | | | | | | |
| **Coordinator** | | | | | | |
| **Lecturer(s)** | | | | | | |
| **Assistant(s)** | | | | | | |
| **Work Placement** | | | | | | |

## Recommended or Required Reading

| Books / Lecture Notes | |
|---|---|
| **Other Sources** | |

## Additional Course Material

| Documents | |
|---|---|
| **Assignments** | |
| **Exams** | |

## Course Composition

| Mathematics und Basic Sciences | | % |
|---|---|---|
| **Engineering** | | % |
| **Engineering Design** | | % |
| **Social Sciences** | | % |

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| Educational Sciences | | % |
|---|---|---|
| Natural Sciences | | % |
| Health Sciences | | % |
| Expert Knowledge | | % |

| Assessment | | |
|---|---|---|
| **Activity** | **Count** | **Percentage (%)** |
| Midterm Exam | | |
| Quiz | | |
| Assignments | | |
| Attendance | | |
| Recitations | | |
| Projects | 1 | 100 |
| Final Exam | | |
| **Total** | | **100** |

| ECTS Points and Work Load | | | |
|---|---|---|---|
| **Activity** | **Count** | **Duration** | **Work Load (Hours)** |
| Lectures | 14 | 2 | 28 |
| Self-Study | | | |
| Assignments | | | |
| Presentation / Seminar Preparation | 1 | 3 | 3 |
| Midterm Exam | | | |
| Recitations | | | |
| Laboratory | | | |
| Projects | 1 | 1 | 2 |
| Final Exam | | | |
| **Total Work Load** | | | **33** |
| **ECTS Points** (Total Work Load / Hour) | | | **2** |

| Learning Outcomes | |
|---|---|
| **1** | To gain the ability to do scientific work |
| **2** | To gain the ability to write scientific texts |
| **3** | To gain the ability to present the scientific study results |
| **4** | |
| **5** | |
| **6** | |
| **7** | |

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| 8 | |
|---|---|
| 9 | |
| 10 | |
| 11 | |
| 12 | |

| **Weekly Content** | |
|---|---|
| 1 | |
| 2 | |
| 3 | |
| 4 | |
| 5 | |
| 6 | |
| 7 | |
| 8 | |
| 9 | |
| 10 | |
| 11 | |
| 12 | |
| 13 | |
| 14 | |
| 15 | |

| **Contribution of Learning Outcomes to Program Objectives (1-5)** | | | | | | | |
|---|---|---|---|---|---|---|---|
| | **P1** | **P2** | **P3** | **P4** | **P5** | **P6** | **P7** |
| 1 | | | | | | | |
| 2 | | | | | | | |
| 3 | | | | | | | |
| 4 | | | | | | | |
| 5 | | | | | | | |
| 6 | | | | | | | |
| 7 | | | | | | | |
| 8 | | | | | | | |
| 9 | | | | | | | |
| 10 | | | | | | | |
| 11 | | | | | | | |
| 12 | | | | | | | |
| **Contribution Level** | 1: Low 2: Low-intermediate 3: Intermediate 4: High 5: Very High | | | | | | |

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|  |  |
|---|---|
| **Compiled by:** |  |
| **Date of Compilation:** |  |