|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| SYLLABUS  Faculty of Economics and Administrative Sciences | | | | | | | | | | | | | |
| Course Code | | | **Course Title** | | | | | | **Credits** | | | ECTS Value | |
| ITL 201 | | | Gezairi Academy Transportation Systems | | | | | | (3-0-3) | | | 6 | |
| Prerequisite Courses: | | | None | | | | | | | | | | |
| Course Language: | | | English | | | **Course Delivery Mode:** | | | | Face-to-face | | | |
| Course Type and Level: | | | Compulsory / Fall Semester / Undergraduate | | | | | | | | | | |
| Instructor's Title, Name, and Surname | | | | | | **Course Hours** | | | **Office Hours** | | | Contact | |
| Assist. Prof. Dr. Eda Kayhan | | | | | | Wednesday 10.15 -12.35 | | | Tuesday 13.25-15.45 | | | edakayhan@cag.edu.tr | |
| Course Coordinator: | | | Assist. Prof. Dr. Eda Kayhan | | | | | | | | | | |
| Course Objectives | | | | | | | | | | | | | |
| Course Learning Outcomes | Upon successful completion of this course, the student will be able to; | | | | | | | | | Relations | | | |
| Program Outcomes | | | Net Contribution |
| 1 | | Explains the fundamental concepts of transportation systems and defines infrastructure types (air, road, sea, rail). | | | | | | | 2, 3, 6 | | | 5 |
| 2 | | Analyzes the components of transportation systems and identifies bottleneck problems. | | | | | | | 2, 3, 8 | | | 5, 4, 4 |
| 3 | | Plans routes and demonstrates traffic flow in different operations. | | | | | | | 2, 5, 8 | | | 5 |
| 4 | | Compares the cost and pricing of transportation services and selects the most appropriate solution. | | | | | | | 2, 3, 8 | | | 5, 4, 4 |
| 5 | | Explains urban public transportation systems (bus, metro, etc.) and pipeline applications, interpreting them through examples. | | | | | | | 2, 3, 8 | | | 5, 4, 4 |
| 6 | | Classifies future transportation technologies and evaluates their potential impacts. | | | | | | | 2, 3, 8 | | | 5, 4, 4 |
| 7 | | Produces analytical and creative solutions to problems encountered in transportation systems and applies them through group work. | | | | | | | 2, 9, 4 | | | 5 |
| Course Content: | | | This course defines the relationship between customer requirements and transportation solutions, analyzes the movement of transportation vehicles and routes, and applies the most efficient planning strategies. Students develop teamwork and leadership skills, produce logistics solutions through projects and presentations, and evaluate service approaches. | | | | | | | | | | |
| Course Schedule (Weekly Plan) | | | | | | | | | | | | | |
| Week | | **Topic** | | | | | **Preparation** | | | | Teaching Methods and Techniques | | |
| 1 | | Course Introduction, Introduction to Transportation Systems: Analysis, Modeling, Planning, Evaluation | | | | | Textbook Ch. 1 | | | | Ice-breaking activities, lecture with slides, group discussion | | |
| 2 | | Components and Fundamental Concepts of Transportation Systems | | | | | Textbook Ch. 2 | | | | Presentation & Demonstration | | |
| 3 | | Road Transportation and Infrastructure Types | | | | | Textbook Ch. 3 | | | | Presentation & Demonstration, small group work | | |
| 4 | | Guest Speaker: Brand Representative – Road & Logistics Trends | | | | | Prepare questions for guest | | | | Presentation, Q&A, short case study | | |
| 5 | | Railway Transportation: Infrastructure, Capacity, Planning | | | | | Textbook Ch. 4 | | | | Presentation & Demonstration, sample problem solving | | |
| 6 | | Maritime Transportation and Port Management | | | | | Textbook Ch. 5 | | | | Presentation & Demonstration, group discussion | | |
| 7 | | Air Transportation and Airport Operations | | | | | Textbook Ch. 6 | | | | Presentation & Demonstration, in-class practice | | |
| 8 | | Midterm Exam | | | | | - | | | | Written Exam | | |
| 9 | | Midterm Exam | | | | | - | | | | Written Exam | | |
| 10 | | Branded Course Field Visit – Port or Logistics Center | | | | | Field visit preparation | | | | On-site observation, panel discussion | | |
| 11 | | Advanced Transportation Systems (Intermodal, Combined, Intelligent Transport) | | | | | Textbook Ch. 7 | | | | Presentation, case analysis | | |
| 12 | | Warehousing, Inventory Management, and Transport Connections | | | | | Textbook Ch. 8 | | | | Presentation & Demonstration, small group work | | |
| 13 | | Project Work I – Route Planning & Cost Analysis (Submission: Preliminary Report) | | | | | Project guideline | | | | Group work, workshop | | |
| 14 | | Project Work II – Comparative Analysis of Transport Modes (Submission: Progress Report) | | | | | Preliminary report data | | | | Group presentations, peer feedback | | |
| 15 | | Guest Speaker: Brand Representative – Sector Panel & Project Presentation Preparation | | | | | Panel questions | | | | Panel + short presentation rehearsals | | |
| 16 | | Project Work III – Final Report and Presentation Preparation | | | | | Final report | | | | Group presentations, feedback based on rubric | | |
| 17 | | Final Exam | | | | | - | | | | Comprehensive Written Exam | | |
| 18 | | Final Exam | | | | | - | | | | Comprehensive Written Exam | | |
| Course Resources | | | | | | | | | | | | | |
| Textbook: | | | | -Janic, Milan-Transport Systems \_ Modelling, Planning, and Evaluation-CRC Press (2016).pdf  -Mandzuka,Sadko-Intelligent Transport Systems (2015).pdf  -Rodrigue, Jean-Paul : The Geography of Transport Systems (2006).pdf | | | | | | | | | |
| Recommended References: | | | | Kayhan, Power point slides and course notes will be shared throughout the term. | | | | | | | | | |
| Course Assessment and Evaluation | | | | | | | | | | | | | |
| Activities | | | | **Number** | **Percentile** | | | Notes | | | | | |
| Midterm Exams | | | | 1 | %20 | | | One midterm exam is administered during Weeks 8 and 9. Includes problem set, short comment questions, and multiple-choice questions. | | | | | |
| Assignments | | | | 5 | %10 | | | Given in Weeks 3, 4, 6, 10 and 12. Includes individual problem-solving exercises and mini-case analysis. | | | | | |
| Project (Report + Presentation) | | | | 1 | %10 | | | Group project: capital budgeting or firm valuation. Progress report in Week 14, final presentation in Week 16. | | | | | |
| Participation & In-Class Activities | | | | 14 | %10 | | | Active participation in class discussions, case studies, in-class exercises, and guest speaker sessions. | | | | | |
| Final Exam | | | | 1 | %50 | | | Comprehensive written exam covering all course topics. | | | | | |
| ECTS Table | | | | | | | | | | | | | |
| Content | | | | | **Number** | | | **Hours** | | | | Total | |
| Course Duration | | | | | 14 | | | 3 | | | | 42 | |
| Out-of-Class Study | | | | | 14 | | | 3 | | | | 42 | |
| Assignment | | | | | 5 | | | 6 | | | | 30 | |
| Presentation | | | | | 1 | | | 6 | | | | 6 | |
| Project | | | | | 1 | | | 30 | | | | 30 | |
| Midterm Exam (Midterm Exam Duration + Midterm Exam Preparation) | | | | | 1 | | | 12 | | | | 12 | |
| Final Exam (Final Exam Duration + Final Exam Preparation) | | | | | 1 | | | 18 | | | | 18 | |
| Total: | | | | | | | | | | | | =180 | |
| Total / 30: | | | | | | | | | | | | 30: 180 ÷ 30 = 6 | |
| ECTS Credit: | | | | | | | | | | | | 6 | |

|  |  |
| --- | --- |
| Past Term Achievements | |
|  |  |
|  |  |