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|  | **ECTS Course Description Form** |
| **PART I ( Senate Approval)** |
| **Offering School**  | College of Engineering |
| **Offering Department** | Industrial Engineering |
| **Program(s) Offered to** | *Industrial Engineering* | *Elective* |
| *Computer Engineering* | *Elective* |
| *Civil Engineering / Electrical Engineering* | *Elective* |
| **Course Code**  | IE 472 |
| **Course Name** | Supply Chain Management |
| **Language of Instruction** | English |
| **Type of Course** | **Departmental Area Elective** |
| **Level of Course** | Undergraduate |
| **Hours per Week** | **Lecture:** 3 hours | **Laboratory:** | **Recitation:** 1 | **Practical:**  | **Studio:** | **Other:** |
| **ECTS Credit** | 6 |
| **Grading Mode** | Letter Grade |
| **Pre-requisites** | IE 361 |
| **Co-requisites** |  |
| **Registration Restriction** |  |
| **Educational Objective** | At the end of this course, the student should be able to develop familiarity with current practices in supply chain management and earn system thinking skills, both quantitative and qualitative, necessary to assess and solve problems encountered in managing business operations. |
| **Course Description** | Introduction to supply chain management, strategy, products and capacity, manufacturing and service processes, supply chain processes, global sourcing and procurement, supply and demand planning and control |
| **Learning Outcomes**  | **LO1** | * To develop an overall view of modern supply chain management
* To appreciate the dynamic nature of supply chain management for products and services and the theory of supply chain design
* To be familiar with strategies for customer service and quality
* To be able to analyze supply chain processes
* To be able to develop supply and demand planning and control systems
* To be familiar with practices in global sourcing and procurement
 |
| **LO2**  |
| **LO3** |
| **LO4** |
| **LO5** |
| **LO6** |
| **n..** |
| **PART II ( Faculty Board Approval)** |
| **Basic Outcomes (University-wide)** | **No.** | Program Outcomes | **LO1** | **LO2** | **LO3** | **LO4** | **LO5** | **LO6** |
| **PO1** | Ability to communicate effectively and write and present a report in Turkish and English.  | 🗸 🗸 🗸 🗸 🗸 🗸 🗸 🗸 🗸 🗸 🗸 🗸 🗸 🗸 🗸 🗸 🗸 🗸 🗸 🗸 🗸 🗸 🗸 🗸 🗸 🗸 🗸 🗸 🗸 🗸 🗸 🗸 🗸 🗸 🗸 🗸  |
| **PO2** | Ability to work individually, and in intra-disciplinary and multi-disciplinary teams. |
| **PO3** | Recognition of the need for life-long learning and ability to access information, follow developments in science and technology, and continually reinvent oneself. |
| **PO4** | Knowledge of project management, risk management, innovation and change management, entrepreneurship, and sustainable development. |
| **PO5** | Awareness of sectors and ability to prepare a business plan. |
| **PO6** | Understanding of professional and ethical responsibility and demonstrating ethical behavior. |
| **Faculty Specific Outcomes** | **PO7** |  |
| **PO8** |  |
| **PO9** |  |
| **PO10** |  |
| **PO11** |  |
| **PO12** |  |
| **Discipline Specific Outcomes (program)** | **PO13** |  |
| **PO14** |  |
| **PO15** |  |
| **PO16** |  |
| **PO17** |  |
| **PO18** |  |
| **Specialization Specific Outcomes** | **PO N….** |  |
| **PART III ( Department Board Approval)** |
| **Course Subjects, Contribution of Course Subjects to Learning Outcomes, and Methods for Assessing Learning of Course Subjects** | **Subjects** | **Week** |  | **LO1** | **LO2** | **LO3** | **LO4** | **LO5** | **LO6** |
| **S1** | 1 | Introduction to supply chain management | A1, A2, A5 | A1, A2, A5 | A1, A2, A5 | A1, A2, A5 | A1, A2, A5 | A1, A2, A5 |
| **S2** | 2 | Strategy, products, and capacity  | A1, A2, A5 | A1, A2, A5 | A1, A2, A5 | A1, A2, A5 | A1, A2, A5 | A1, A2, A5 |
| **S3** | 3-5 | Manufacturing and service processes | A1, A2, A5 | A1, A2, A5 | A1, A2, A5 | A1, A2, A5 | A1, A2, A5 | A1, A2, A5 |
| **S4** | 6-8 | Supply chain processes | A1, A2, A5 | A1, A2, A5 | A1, A2, A5 | A1, A2, A5 | A1, A2, A5 | A1, A2, A5 |
| **S5** | 9 | Global sourcing and procurement | A1, A2, A5 | A1, A2, A5 | A1, A2, A5 | A1, A2, A5 | A1, A2, A5 | A1, A2, A5 |
| **S6** | 10-12 | Supply and demand planning | A1, A2, A5 | A1, A2, A5 | A1, A2, A5 | A1, A2, A5 | A1, A2, A5 | A1, A2, A5 |
| **S7** | 13-14 | Inventory control | A1, A2, A5 | A1, A2, A5 | A1, A2, A5 | A1, A2, A5 | A1, A2, A5 | A1, A2, A5 |
| **S8** |  |  |  |  |  |  |  |  |
| **S9** |  |  |  |  |  |  |  |  |
| **S10** |  |  |  |  |  |  |  |  |
| **S11** |  |  |  |  |  |  |  |  |
| **S12** |  |  |  |  |  |  |  |  |
| **S13** |  |  |  |  |  |  |  |  |
| **S14** |  |  |  |  |  |  |  |  |
| **Assessment Methods, Weight in Course Grade, Implementation and Make-Up Rules**  | **No.** | **Type** | **Weight** | **Implementation Rule** | **Make-Up Rule** |
| **A1** | **Exam** | 55% | *Books, notes, and electronic devices are prohibited in the examinations except for calculator.* | *If an exam is missed, a make-up exam may be granted if student’ absence from the exam is because of a valid and documented excuse.* |
| **A2** | **Quiz** | 10% | *Books, notes, and electronic devices are prohibited in the examinations except for calculator.* | *If an exam is missed, a make-up exam may be granted if student’ absence from the exam is because of a valid and documented excuse.* |
| **A3** | **Homework** |  |  |  |
| **A4** | **Project** |  |  |  |
| **A5** | **Report** | 30% | *final work to be submitted at pre-specified time* | *No compensation, no makeup* |
| **A6** | **Presentation** |  |  |  |
| **A7** | **Attendance/ Interaction** | 5% |  | *No compensation, no makeup* |
| **A8** | **Class/Lab./****Field Work** | - | - | - |
| **A9** | **Other** | - | - | - |
| **TOTAL** | **100%** |
| **Evidence of Achievement of Learning Outcomes** | *%70 course attendance and gaining 70% or more on taken exams and other assignments.*  |
| **Method for Determining Letter Grade** | *The %70 total attendance is required otherwise student will fail the course due to absenteeism. Letter grades are determined by applying catalogue system on student’s total weighted grade. Following is an example:*≥ 97% A+[93 97) A[90 93) A-[87 90) B+[83 87) B[80 83) B-[77 80) C+[73 77) C[70 73) C-[67 70) D+[60 67) D< 60 F |
| **Teaching Methods, Student Work Load** | **No** | **Method** | **Explanation** | **Hours** |
| ***Time applied by instructor*** |
| **1** | **Lecture** | *(14 weeks) × (3 hrs per week)* | *42* |
| **2** | **Interactive Lecture** |  |  |
| **3** | **Recitation** | *(14 weeks) × (1 hr per week)* | *14* |
| **4** | **Laboratory** |  |  |
| **5** | **Practical** |  |  |
| **6** | **Field Work** |  |  |
| ***Time expected to be allocated by student*** |
| **7** | **Project** |  |  |
| **8** | **Homework** | *(14 weeks) × (2 hrs per week)* | *28* |
| **9** | **Pre-class Learning of Course Material**  | *(14 weeks) × (1 hr per week)* | *14* |
| **10** | **Review of Course Material** | *(14 weeks) × (3 hrs per week)* | *42* |
| **11** | **Studio** |  |  |
| **12** | **Office Hour** | *(14 weeks) × (3 hrs per week)* | *42* |
| **TOTAL** |  182 |
| **IV. PART** |
| **Instructor** | **Name** |  |
| **E-mail** |  |
| **Phone Number** |  |
| **Office Number** |  |
| **Office Hours** |  |
| **Course Materials** | **Mandatory** |  |
| **Recommended** |  |
| **Other** | **Scholastic Honesty** | Violations of scholastic honesty include, but are not limited to cheating, plagiarizing, fabricating information or citations, facilitating acts of dishonesty by others, having unauthorized possession of examinations, submitting work of another person or work previously used without informing the instructor, or tampering with the academic work of other students. Any form of scholastic dishonesty is a serious academic violation and will result in a disciplinary action. |
| **Students with Disabilities** | Reasonable accommodations will be made for students with verifiable disabilities. |
| **Safety Issues**  | The course does not require any special safety precautions. |
| **Flexibility** | Circumstances may arise during the course that prevents the instructor from fulfilling each and every component of this syllabus; therefore, the syllabus is subject to change.  Students will be notified prior to any changes. |