ÜSKÜDAR UNIVERSITY

 Faculty of Engineering and Natural Sciences

 Industrial Engineering Department

To All Senior Students of the Industrial Engineering Program,

As you are well aware there are two compulsory courses on your curriculum: IE491 Graduation Project and IE492 Graduation Thesis which serve as an opportunity for you to put into practice in a project framework some of the theoretical techniques covered in your courses. The work you will undertake is intended to continue and cover two semesters. It involves selection of a project topic, defining a problem, survey of relevant literature, formulating a model, computational experiments and solution, and writing a thesis document reporting all your effort and progress. You will be working in team of your classmates and have an IE faculty member as a project/thesis advisor. We would like to pair you with a advisor whose research interests match with your project/thesis learning objectives but at the same time we need to balance the work load of our faculty. Therefore you may not be able to work with the advisor of your choice. Follow the directions below to submit your team roster and preference list.

**Step 1:** Form a project/thesis team with your classmates, min=2 max=3 team members. Select your teammates carefully as you will be stuck with them until the end of the semester, in case you experience strong discord within your team you will not be allowed to break it upeven. The whole team will get the same grade from *project progress check points* and reports no matter the discrepancy among the amount of contribution by team members. Individual team members may receive different grades based on their performance a) in *weekly meetings* with their advisor, and b) in the end-of-semester *project/thesis presentation*.

**Step 2:** Make a preference list of project topics & advisors for your team. Examine the project topics offered by our faculty given on the next page. You may propose a topic that is not listed below but you still need to specificy with whom you would like to study it with. You cannot list the same faculty member more than once. After your team is assigned to an advisor with everyone’s agreement

**Step 3:** Use the table at the end as a template to submit your team roster and project preferences to zelihanur.kiris@uskudar.edu.tr by **5.11.2020.** The advisor-team matchups will be announced on **9.11.2020.**

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| **Faculty** | **Project Topics** | **Techniques/Tools** |
| Prof.Dr. Mehmet Savsar | Modeling and analysis of inventory systems; Buffer storage analysis; Just in time production | Demand forecasting; Inventory models; Kanban systems and applications. |
| Process improvement through system simulation and OR applications | Analysis and redesign of a production or a service system using IE tools; simulation applications.  |
| Manufacturing systems analysis and Assembly line balancing | Manufacturing systems analysis; Assembly line balancing techniques and applications to a specific problem. |
| Location analysis and Facility layout design. | Location analysis of certain facilities such as fire stations etc. using LP or other IE tools. Facility planning and applications of layout design tools. |
| Asst.Prof. Münire Berna Beşkese | How to become best engineers |  |
| Investigating best universities in the world |  |
| Investigating best universities in Turkiye |  |
| Investigating best engineers in the world |  |
| Investigating best engineers in Turkiye |  |
| Establishing best engineer education system |  |
| Establishing best engineer lifelong education system |  |
| Asst.Prof. MuhammedEnis Bulak | Production Planning and Control |  |
| Multi-Criteria Decision Making |  |
| Sustainability |  |
| Quality Control and Management |  |
| System Simulaton |  |
| Product Design and Usability |  |
| Statistical Methods in Service/Manufacturing Sector |  |
| Asst.Prof. Hasan Çiçek | Quality Management system |  |
| Human Resource Management |  |
| Supply Chain Management |  |
| Process Improvement |  |
| Production Planning |  |
| Asst.Prof. Osman Murat Anlı | Inventory Systems Reorder Point, Order Size Determination | Simulation, Worksheet Calculations |
| Production Planning and Control, Make-to-Order vs Make-to-Stock Comparison | Simulation, Worksheet Calculations |
| Supply Chain Logistic Network Design | Linear + Mixed Int. Programming |
| Warehouse Design, Order Picking Policies | Simulation, Worksheet Calculations |
| Asst.Prof. Orkun Kozanoğlu | Production system design and improvement |  |
| Supply chain management |  |
| Optimization |  |
| System simulation |  |
| Multi-criteria decision making |  |
| Lean manufacturing |  |

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| **Team Roster** |  |
|  | **Student ID** | **Name Lastname** |
| 1. |  |  |
| 2. |  |  |
| 3. |  |  |
| **Project Preferences** |
|  | **Faculty Member** | **Project** |
| 1. |  |  |
| 2. |  |  |
| 3. |  |  |