

SYSTEM DESIGN IE477 - IE 478

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Aslı Eroğlu Defne Tan

April 24, 2024



Outline

- IE478 Remaining Requirements and Dates
 - Last event: Project Fair
- Feedback



Remaining Requirements

- Booklet report (April 30)
- Final report (Draft May 6, Final May 17)
- One-page PowerPoint slide a project summary (May 10)
- Poster for fair (Draft May 10, Final May 18, twelve pre-qualified groups)
- Submission of the deliverables (company and Bluesky, May 17)
- Peer evaluation forms (May 17)
- Fourth CC Meetings (May 24 and 27, eight finalists ann. May 25)
- Project Fair (June 4, eight finalist rehearsal June 3)
- Meetings with companies (your own schedule)



Remaining Requirements

- April 30
 - booklet report
- May 6
 - final report draft
- May 10
 - one-page PowerPoint slide
 - poster draft
- May 17
 - final report
 - deliverables (company / Bluesky)
 - peer evaluation forms
- May 18
 - twelve pre-qualified groups
 - poster final

- May 24, 27
 - fourth CC Meetings,
 - eight finalists announced
- June 3
 - Project fair rehearsal of eight finalists
- June 4
 - · Project Fair
- June XX
 - Meetings with companies (schedule yourselves)



April 30 Booklet Report

- By the time the booklet is in print
 - Projects will be over
 - Do not describe any future work in the booklet report.
 - Do not use future tense for the jobs planned and to be completed before semester is over.
- If received Tübitak support,
 - do not forget to acknowledge the award
 - CPs were informed about the format of acknowledgment section.



May 6 – 17 Final report

- Titles, subtitles
 - not generic
 - descriptive of the content of the following section
- Use figures and tables
- Appendix
 - Start with a brief description of its content
 - Carry lonely figures and table to the main text
- Synthesis
 - Whole experience, lessons drawn, possible extensions
- Acknowledge Tübitak if received support



May 10 Poster

In Turkish

- Draft Submission: May 10
- Feedback: On or about May 15
- Final Submission: May 18





May 10 Powerpoint Slide

- To be shown on screen during the project fair
- In Turkish

- One page project summary
- Bilkent, approved company logo, project title
- Group photo

- Use template on the course web page
 - Do not modify the template



Endüstri Mühendisliği Bölümü



Proje Fuarı ve Yarışması



Montaj Hatlarında E-Kanban Tasarımı ve Uygulanması



- Anil Canatalay
- Metin Deniz Kavas
- Yasemen Özsan
- Öykü Talı
- Cansu Tanatmış
- Müge Taşelmas

Bu projede doğru malzemenin doğru zamanda ve miktarda dağıtımını sağlayacak e-kanban (çekme kanbanı) uygulaması tasarlanmıştır. Bu uygulama şirket veritabanına kurulmuş ve barkod ve barkod okuyucular ile fabrikada kullanılmaya başlanmıştır.



May 17 Deliverables

- To the company
 - Decision support system
 - installed
 - activated
 - ready to be used
 - Supporting documents
 - final project report
 - user manual (kullanım kılavuzu)
- To Bluesky link to be sent in a zip file
- The IAs will evaluate in an electronic form.



Fourth CC Meeting

5 minute presentation: an executive summary

- 1. problem definition
- 2. approach / short model description
 - intuition
 - capabilities
 - limitations

3. emphasize

- benefit of the project to the company
- use numbers
- most effective if presented on the last slide



Fourth CC Meeting

- All presentations in Turkish and live
- 12 groups pre-qualified (to be announced May 18)
 May 24 between 09:00 15:00
- Remaining groups
 May 27 between 9:00 15:00

Reserve a time slot via link to be shared
Upload presentations one day before meeting – no videos



Project Fair Timeline

- Project Booklet (April 30)
- Project Poster / PPT Slide (May 10 / May 18)
- Finalists announced (May 25)
- Finalist group rehearsals (June 3, Odeon)
 - one 20-30 minute free rehearsal per group
 - expect the rehearsal to be any time that day.
- Project Fair and Competition (June 4, Odeon)



June 4 Project Fair

- The whole afternoon
- All students must be present
 - regardless of whether you are a finalist
 - grades for IE478 to be submitted June 5
- All groups present posters and answer guest questions
- Competitions
 - Best Project 8 groups independent jury
 - Best Presentation 8 groups all guests
 - Best Poster 13 groups all guests

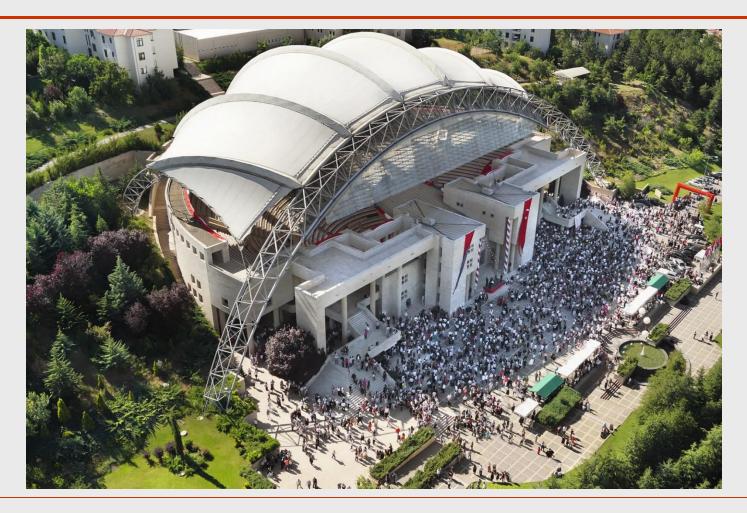


Project Fair and Competition





Project Fair and Competition



Meeting w/ Company Officials

- Additional presentation after the submission of the deliverables
- Professionalism
- Enhance reputation of IE, Bilkent and future
- Good impression pays back
- Very likely to meet your IA and collaborators and become colleagues
- You are close to be a part as alumni



Feedback on 3rd CC Presentations

- Complete validation and benchmarking
- Complete pilot study, report dates and outcome
- Mention company reaction to your findings
- Deliverables: developed...
 - not user interface but a decision support system
 - not Python/R algorithm but an algorithm and implemented in Python/R
- User interface: add company and Bilkent logos
- Presentations: do not overload / do not read



Final Presentation Recap

5 minute executive summary of your project

- Clear and concise problem definition
- Approach
- Deliverables
- Pilot study results
- Last slide: benefits (expressed in numeric measures)

In present tense (project over, impact lasting)



Effective Presentations

- practice without
 - printed notes or
 - reading from slides (visible on front monitor on stage)
- present vital parts time is limited
- only slides you want your audience to see
- draw attention of audience
 - use animations and colors
 - zoom in / out tables and figures
 - memorable last slide: striking but realistic benefit figures



Effective Presentations

Examples of Good Presentations

- inspect <u>pptx on the course web page</u> and
- watch on <u>youtube</u>



Good Luck