



SYSTEM DESIGN

IE477 - IE 478

Course Coordinators: Dr. Savaş Dayanık
Dr. Emre Nadar
Dr. Emre Uzun

FoE UIC Coordinator: Yeşim Gülseren

Teaching Assistants: Semra Selin Eraslan
Fatih Selim Erdem
Ece Kuşdemir

April 8, 2026



Outline

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



Remaining Requirements

- Booklet report (April 10)
 - Final report (Draft April 17, Final April 27)
 - One-page PowerPoint slide - a project summary (April 17)
 - Register ticket system (April 17)
 - Poster for fair (Draft April 17, Final April 28, twelve pre-qualified groups)
 - Submission of the deliverables (company and Bluesky, April 27)
 - Peer evaluation forms (May 4)
 - *2026 YAEM Öğrenci Proje Yarışması* Application Deadline (May 4)
 - Fourth CC Meetings (May 6 and 18, eight finalists ann. May 8)
 - Project Fair (June 2, eight finalist rehearsal June 1)
 - Meetings with companies (your own schedule)
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Remaining Requirements

- April 10 booklet report
 - 2026 YAEM Öğrenci Proje Yarışması Application Deadline
 - April 17
 - final report draft
 - one-page PowerPoint slide
 - poster draft
 - register ticket system
 - April 27
 - final report
 - deliverables (company / Bluesky)
 - April 28
 - twelve pre-qualified groups
 - poster final
 - May 4
 - peer evaluation forms
 - May 6 and May 18 fourth CC Meetings
 - May 8 eight finalists announced
 - June 1 Project fair rehearsal of eight finalists
 - June 2
 - Morning: rehearsal with all groups
 - Afternoon: Project Fair
 - June XX
 - Meetings with companies (schedule yourselves)
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April 10 Booklet Report

- By the time the booklet is in print, project will be over
 - Do not use future tense for the jobs planned and to be completed before semester is over.
- If you received TÜbitak support,
 - do not forget to acknowledge the award
 - LaTeX template has a generic optional acknowledgement section. Use it.



April 17 - April 27 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 figures and table to the main text
 - Synthesis
 - Whole experience, lessons drawn, possible extensions
 - Acknowledge TÜBİTAK if received support
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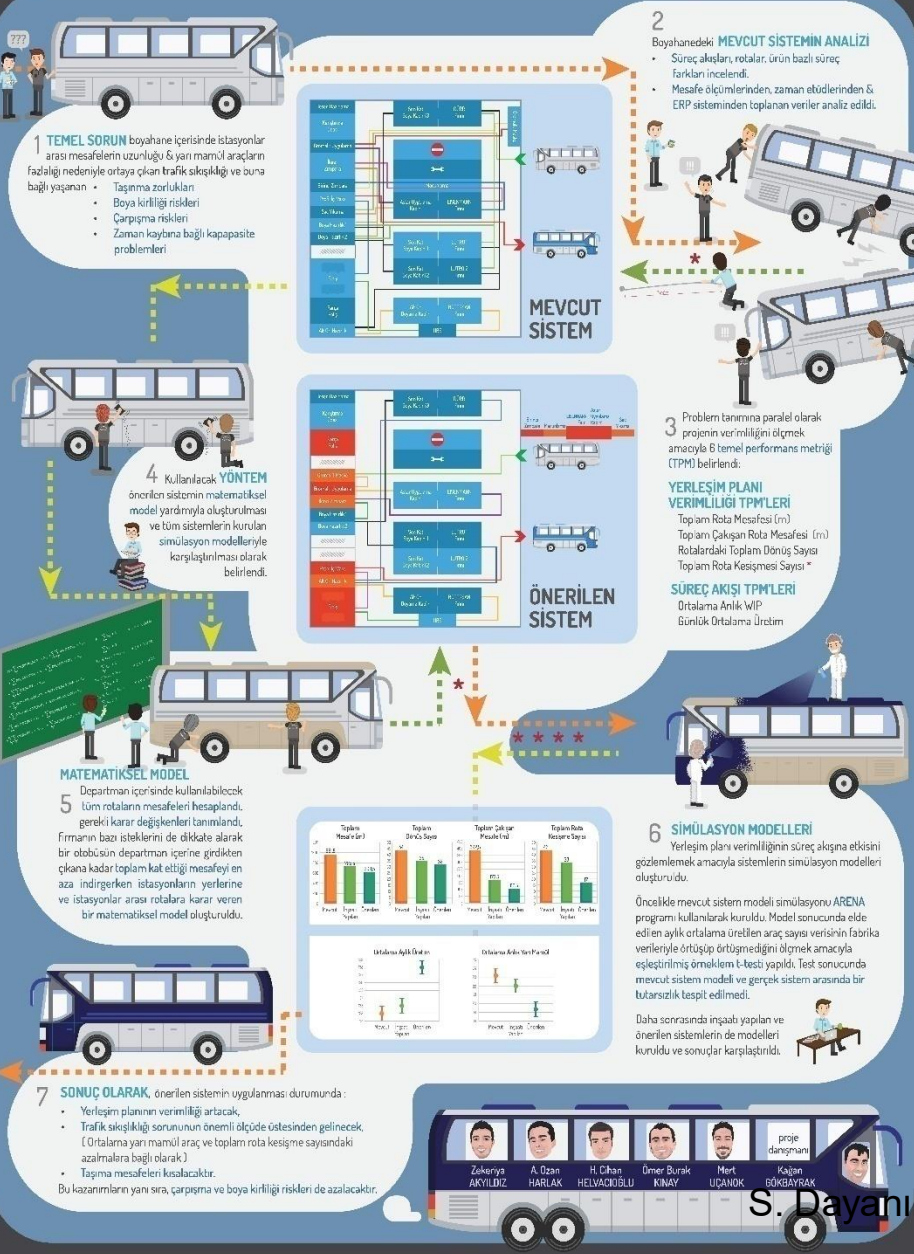
April 17 - April 28 Poster

In Turkish

- Draft Submission: **April 17**
- Feedback: **On or about April 22**
- Final Submission: **April 28**



BOYAHANE DEPARTMANI YERLEŞİM PLANI İYİLEŞTİRMESİ



S. Dayanık, E. Nadar, E. Uzun

Mağaza İçi Teşhir Yönetimine Yardımcı Karar Destek Sistemi

Yardımcı

Ali Bozkurt
Elife Bulut
Merve Büyükbaş
Nilgün Dörmeç
Yağmur Güven
Sertuğ Kostik



TepeHome

Merve Büyükbaş'ına...

Değerli dostumuz Merve Büyükbaş'ı 25 Mayıs 2015'te kaybettik. Projeimiz boyunca varlığı ve emeği ile bizim için hep ilham kaynağı olan Merve'nin değerleri ansısına...

Problem Tanımı ve Amaç

Tepe Home mağazalarının ürün sergileme süreçlerinin belirli bir standart çerçevesinde gerçekleştirilmesi ve bu durumdaki kaynakların mağaza içi komplikasyonlar-Kararsız yerleşim örnekleri

Tepe Home mağazalarının aksesuar koleksiyonunun sergilenişine yardımcı olacak bir karar destek sistemi tasarlayarak müşteri dikkatini yüksek tutmak ve satışlarda artış yakalamak



Önerilen Süreç



Önerilen Matematiksel Model



Sonuç

Raf 1	Çey bardabı	Su bardabı	Amerikan servisi
Raf 3	Sampir mavi	Mürekkep	Tart mavi
Raf 4	Kupa	Kilise ayraç	Dekoratif obje 1
		Dekoratif obje 2	Elbise askısı
		Sakuzuk	Elbise kovanı



April 17 Powerpoint Slide

- To be shown on screen during the project fair
- **In Turkish**
- One page project summary
 - **Maximum 400 characters**
- Bilkent, **approved** company logo, project title
- Group photo
- Use template on the course web page
 - **Do not modify the template**



Algida Önerilen Ürün Portföyü Optimizasyonu



Proje Grubu

Eda Coşkun, Kerem Fidan, İpek Han, Ali Egemen Özdek,
Pelin Nur Özgür, Nilsu Gül Sözer, Okan Yıldız

Unilever Türkiye

Bu projede derin sinir öğrenmesine dayalı ürün yelpazesi tahminleme modeli geliştirilmiştir. Model her bir satış noktası için, önerilen ürün yelpazesi ile satışı maksimize ederken dengeli ürün dağılımı sağlamaktadır.

Şirket Danışmanı

Berkay Çomak

Akademik Danışman

Dr. Öğr. Üyesi Taghi
Khaniyev



April 27 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.*



May 4 YAEM Öğrenci Proje Yarışması

- All groups are encouraged to apply
- Pre-qualified 12 groups
 - Applicants have higher chance for the final eight.
- Application
 - in Turkish
 - four-page extended abstract
 - get feedback from AA and IA on the draft
 - use [docx template on application page](#) or [LaTeX template on course homepage](#). Submission is in PDF format.
 - follow the rules about format and content
 - no mention of university, student, advisor names (blind review)



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
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Fourth CC Meeting

- All presentations **in Turkish and live**
- 12 groups pre-qualified – (to be announced **April 28**)
May 6 between 8:30 – 12:30
- Remaining groups
May 18 between ??:?? – ??:??

Reserve a time slot via link to be shared

Upload presentations one day before meeting – no videos



Project Fair Timeline

- Project Booklet (April 10)
- Project Poster / PPT Slide (April 17 / April 28)
- Finalists announced (May 8)
- Finalist group rehearsals (June 1, Odeon)
 - one 20-30 minute free rehearsal per group
 - expect the rehearsal to be any time that day
- Project Fair and Competition (June 2, Odeon)
 - All 21 groups ready in the morning for rehearsal



June 2 Project Fair

- The whole afternoon
 - All students must be present
 - must have registered ticket system by April 17
 - regardless of whether you are a finalist
 - grades for IE478 to be submitted June
 - All groups present posters, guest Q&A
 - Competitions
 - Best Project – 8 groups – independent jury
 - Best Presentation – 8 groups – all guests
 - Best Poster – 13 groups – all guests
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Project Fair and Competition





Project Fair and Competiton





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
 - **without** turning back to screen (slides visible on front monitor on stage -- small – cannot read)
 - present vital parts - time is limited
 - only slides you want your audience to see
 - **draw attention of audience**
 - use animations and colors | font size/color readable
 - zoom in / out tables and figures
 - **memorable last slide: striking but realistic benefit figures**
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Effective Presentations

Examples of Good Presentations

- inspect [pptx on the course web page](#) and
- watch on [youtube](#)



Good Luck