



SYSTEM DESIGN

IE477 - IE 478

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Outline

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

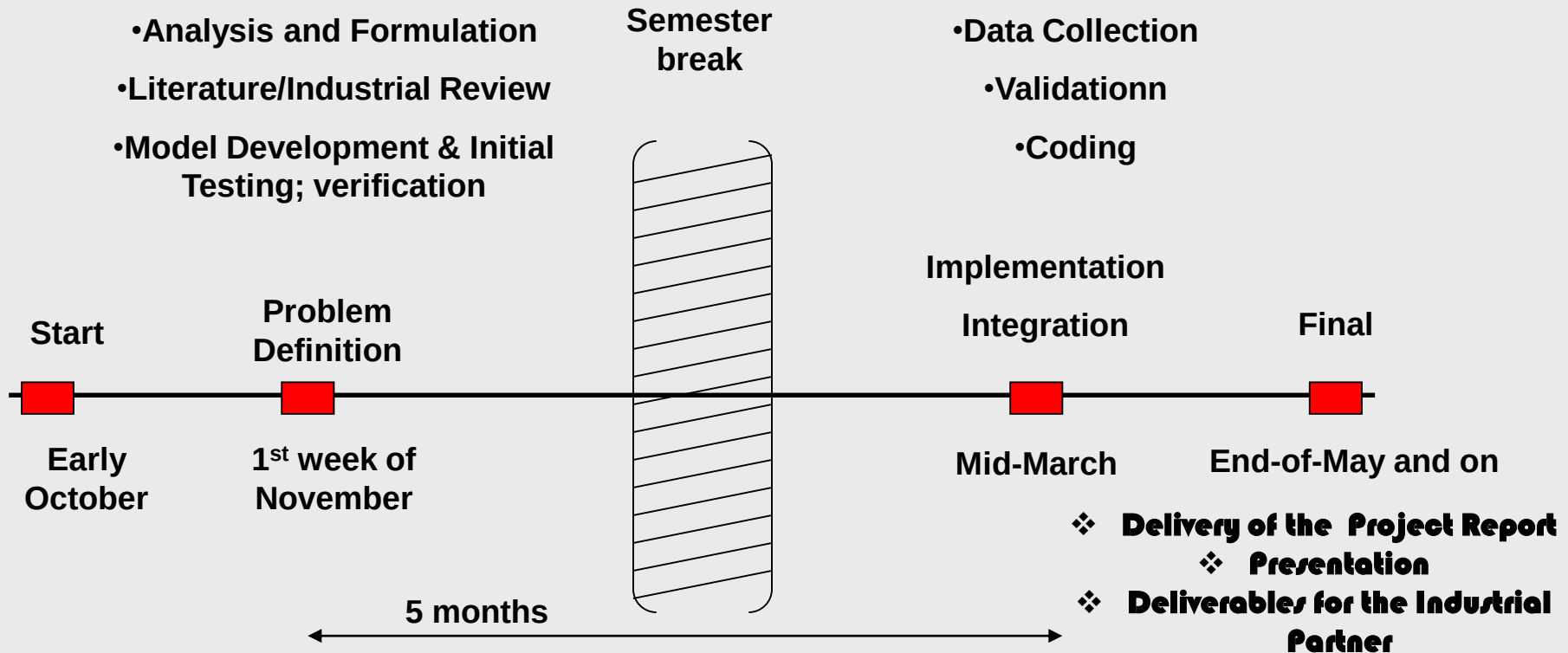


Learning Outcomes and Project Work (IE477 - Previous Presentation)

- **THROUGHOUT THE PROJECT WORK**
 - **Effectively use teamwork (Peer Evaluation)**
 - **Prepare reports and presentations to explain ideas**
 - **Practice professional and ethical responsibility**
 - **PROPOSAL**
 - Analyze system data to identify problems – Agreement on the **SCOPE**
 - **END OF FALL SEMESTER**
 - Access information and do literature survey – **IE CAPSTONE**
 - Formulate problems and propose solution methodologies – **FEEDBACK**
 - Construct mathematical models of the system – **MODEL, VERIFY**
 - **MARCH 2020**
 - **VALIDATE** based on “actual” data
 - **What-if analyses, integration, implementation – BENCHMARKING, REPORT**
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The System





SUMMARY OF THE REMAINING REQUIREMENTS

- Final Report (May 13)
 - Submission of the Deliverables to the Company (May 13)
 - A poster to be displayed/presented in the project fair (May 14)
 - A one-page PowerPoint slide - a project summary (May 6)
 - Peer evaluation forms filled individually (May 13)
 - Fourth Meeting with Course Coordinators (dates detailed later)
 - Project Fair (May 31)
 - Optional meetings with the Organization you work with (your own schedule)
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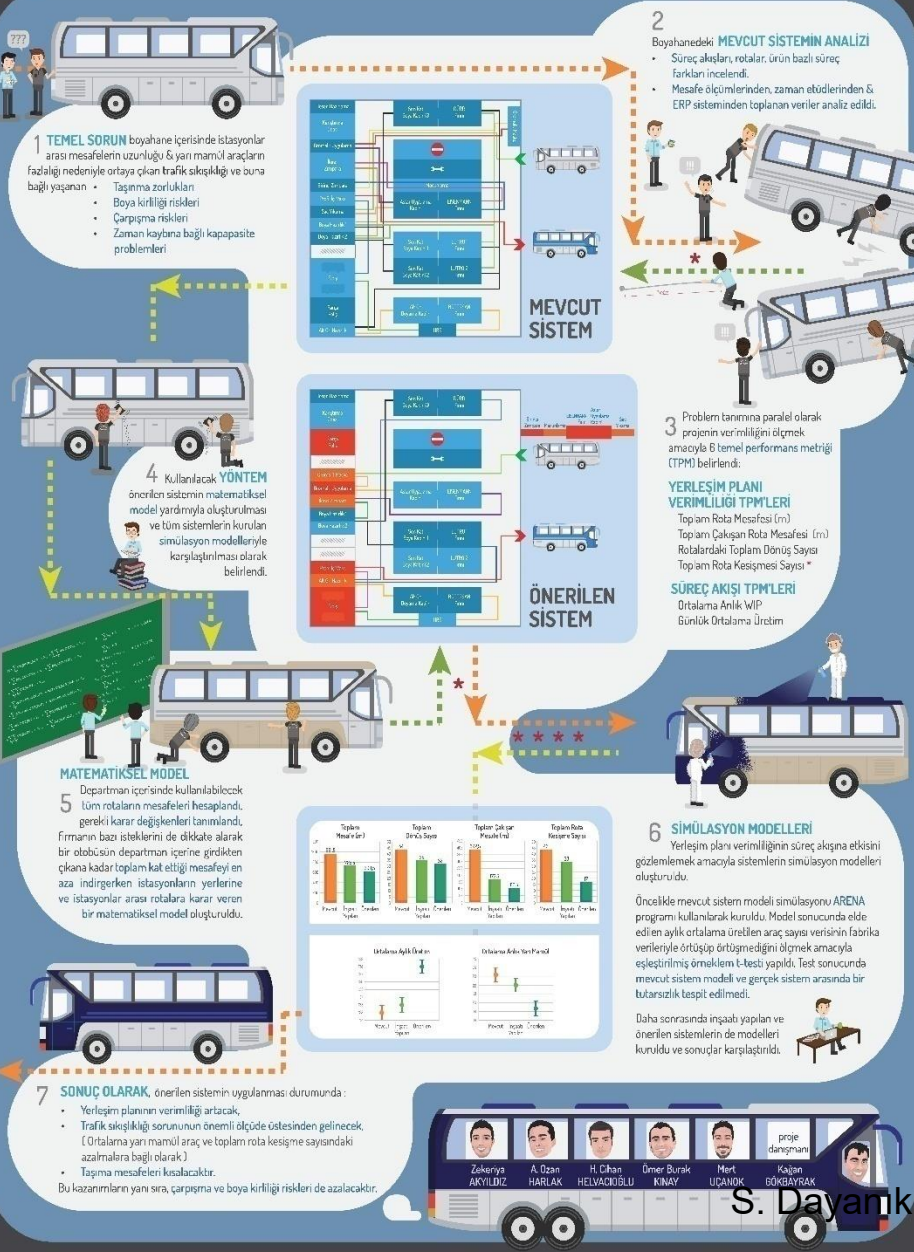
Submission of the Deliverables

- Final versions of all deliverables must be submitted to the company by May 13
 - As promised
 - A decision support system (installed, activated and ready to be used)
 - Other documents (final project report and user manual)
- Send a copy to us with a zip file – we'll send you a link.
- We send an evaluation form to the IAs



Poster

- In Turkish
 - Draft Submission: May 6
 - Feedback: On or about May 10
 - Final Submission: May 14



Mağaza İçi Teşhir Yönetimine Yardımcı Karar Destek Sistemi

Yardımcı

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

Problem Tanımı ve Amaç

Tepe Home mağazalarının ürün sergileme süreçlerinin belirli bir standart çerçevesinde gerçekleştirilmesi ve bu durumdan kaynaklanan 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	Görüntü	Su bariyeri	Aksesuar servisi
Raf 3	Sampir mat	Müzik	Tatlı mat
Raf 4	Kupa	Kilip aynası	Dekoratif obje 1
		Dekoratif obje 2	Elifce aksesuar
		Sabunluk	Banyo kova



One Page Powerpoint Slide

- This slide will be shown on the screen during the project fair.
- In Turkish



Montaj Hatlarında E-Kanban Tasarımı ve Uygulanması



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.

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



Fourth Meeting with Course Coordinators

- Total duration for each presentation is **5 minutes**
 - Executive summary of your entire project
 - Use your **common sense** for the material to be presented.
 - Focus: Precise problem definition and results/benefits
 - Explaining models in detail is not possible, but showing your models with a short explanation is useful
 - Give intuition about what your models do, capabilities, limitations
 - Emphasize the benefit of the project to the company (preferably with numbers and as your last slide).
-



Fourth Meeting with Course Coordinators

- All presentations are **in Turkish** and be performed **live**.
- 12 groups pre-qualified — (to be announced: **May 14**):
May 18 at 09:00 – 15:00
May 20 at 13:00 – 16:00 (if needed)
- Remaining groups:
May 27 at 09:00 – 13:00



Project Fair Timeline

- Invitations
- Project Poster (May 14)
- Project Fair and Competition (May 31)
 - Projects Booklet
 - Project Competition – 8 groups – independent jury
 - Poster Competition – all groups – all participants except students



Project Fair

- The whole afternoon of May 31
 - All students must be present
 - Regardless of whether you are in one of the eight groups presenting.
 - All groups will have their poster displayed and guests interested in the projects may ask you questions
 - **Rehearsal May 30 at ODEON for groups presenting**
 - Guests
-



Project Fair and Competition



Project Fair and Competiton





Optional Meeting with the Company Officials

- Some groups have already planned to have additional meetings, activities
- Some companies may ask for an additional presentation after the submission of the deliverables
- Professionalism
- Enhance reputation of IE, Bilkent and future – you are close to be a part as **alumni**



Feedback (Final!!)

Happy to observe improvement in most groups

Your work, not the software

- DO NOT: Python Algorithm, R Algorithm, ...
- USE: Solver, Computer Program, Spreadsheet, ...
- DO NOT: Simulation decides, Python decides, ...
- USE: Code is prepared to make (support) decisions ...

Mention Company's Reactions to your work

- DO not exaggerate, be factual and clear

Representation of numbers

Both Logos (Organization and Bilkent)



On your Final Presentation

- Executive summary of your project
- A clear and concise definition
- Approach
- Benefits (Numerical benefits +)
- Deliverables and implementation prospects
- All in present tense



Communicating your work as a group (Presentations)

- Examples of Good Presentations –WEB Page
 - Everything said before and especially
 - rehearse your presentation
 - practice presenting without any printed presenter notes or reading directly from the slides
 - make sure that you emphasize the relevant and most critical parts - limited time
 - slides should reflect what you want the audience to see
 - tables and figures in presentations; zoom-in, zoom out
 - use animation, colors
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Communicating your work as a group (Reports)

- Everything said before on Reports
- Final Report: Coherence
 - titles, subtitles are instrumental in emphasizing what your actual strong points are
 - figures, tables in the text are very powerful instruments
 - read/upgrade with full capacity
 - Use of appendix – each appendix should be a section to be understood by itself.