OBJECTIVE

The objective of the course is to bring the students to gain detailed theoretical and practical knowledge on internal sub-division systems and their components, and to be able to design internal sub-division systems (interior walls, suspended systems, interior doors, raised floors, etc.) in detail by considering basic criteria.

CONTENT

The course will be carried out with theoretical lectures; researches, analyses and presentations made by students: practical work at an internal subdivision systems’ company; studio work supported by the technical knowledge gained through researches, homework, presentations, practical work and theoretical lectures.

The content of the course:
- Internal sub-divisions in building - division and separation walls, demountable walls, floors and ceilings
- Performance requirements of internal sub-division systems - environmental factors, performance requirements determined with regard to their basic functions, and their performance in place
- Physical analysis of division and separation walls, floors, and ceilings
- Market research on products used in internal sub-division systems and their application, and presentation of the research
- Viewing the construction of interior walls and suspended ceilings, and practicing to assemble them
- Forming, dimensioning, jointing and integration of these elements
- Studio work: design and/or evaluative alternative solutions, selection, detailing

GRADING POLICY

Final grade: Mid-term exam (20%) + presentation (15%) + application reports, assignments and class attendance (25%) + design project (40%)
### Internal Subdivision Systems

**MIM 270E 2013/2014 Spring Term**

**Tuesday: 9.30 - 12.30**

**Assoc. Prof. Dr. Aslıhan TAVIL**  
**Res. Assist. Dr. Ecem Edis**

#### Weekly Program

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<tr>
<th>Week/Date</th>
<th>SUBJECTS</th>
<th>Homework</th>
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<tr>
<td>1 11.02</td>
<td>Introduction of the course, Performance requirements and main classifications of internal subdivision systems</td>
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<tr>
<td>2 18.02</td>
<td>Internal walls - classifications and application details</td>
<td>Report 1: Analysis of internal subdivision system projects (submission on 5th week)</td>
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<tr>
<td>3 25.02</td>
<td>Suspended ceilings, raised floors and interior doors - classifications and application details</td>
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<td>4 04.03</td>
<td>Factors that influence internal subdivision system design - acoustical and fire considerations</td>
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<tr>
<td>5 11.03</td>
<td>Company presentation - theoretical presentation on internal partitions and suspended ceilings</td>
<td>Report 2 on company presentation (submission on 6th week)</td>
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<td>6 18.03</td>
<td>Company visit - application of internal partitions</td>
<td>Report 3 on internal partition application (submission on 7th week)</td>
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<td>7 25.03</td>
<td>Company visit - application of suspended ceilings</td>
<td>Report 4 on suspended ceiling application (submission on 8th week)</td>
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<td>8 01.04</td>
<td>Student presentation on actual products and their application - internal walls</td>
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<tr>
<td>9 08.04</td>
<td>Student presentation on actual products and their application - suspended ceilings and raised floors</td>
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<td>10 15.04</td>
<td>Midterm exam - Studio work</td>
<td>Investigation of systems/products on the internet</td>
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<td>11 22.04</td>
<td>Studio work</td>
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<td>12 29.04</td>
<td>Studio work</td>
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<td>13 06.05</td>
<td>Studio work</td>
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<tr>
<td>14 13.05</td>
<td>Studio work</td>
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Homeworks

Report 1: Analysis of two actual internal subdivision systems’ projects published in the journals or books, in terms of materials used, functions performed and performances achieved, and integration of them with other systems of the building. The two actual projects should consider different internal subdivision systems, i.e. internal walls and doors, suspended ceilings and raised floors.

Report 2-3-4: Reports on company visits: Explanation of the content of the theoretical presentation, and detailed explanation of the assembly applications covering but not limited with the tools and equipments used, and application steps.

Student presentations on product analysis: Analysis and presentation of a product manufacturer’s specific internal subdivision system in terms of its types, components, dimensions, performances, application and integration alternatives with other systems of building.

Some manufacturers for product analysis

Suspended ceilings

- Metal - expanded system (1 group): Aspen A.S. (www.aspen.com.tr)
- PVC - jointless system (1 group): Tekno Yapı (www.teknoyapi.com), Deckon Ltd. Şti. (www.deckon.com.tr)

Raised access floors


Internal walls

REFERENCES

Books

- Levy, S. M., Construction Building Envelope and Interior Finishes, Databook.
The challenge begins with bodyweight exercises during week 1 that are beginner friendly. Week two introduces dumbbells, while week three blends...