IZMIR INSTITUTE OF TECHNOLOGY
Faculty of Engineering

<table>
<thead>
<tr>
<th>Name of Department:</th>
<th>Chemical Engineering</th>
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<tbody>
<tr>
<td>Course Title:</td>
<td>Introduction to Polymer Science</td>
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<tr>
<td>Course Code: CHE 211</td>
<td>Type of Course: elective</td>
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<tr>
<td>Level of Course:</td>
<td>undergraduate</td>
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<tr>
<td>Semester/Trimester:</td>
<td>semester</td>
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<tr>
<td>Year of Study:</td>
<td>3 hrs/wk; 2nd year, 1st semester</td>
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<tr>
<td>Credit:</td>
<td>3-0</td>
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<tr>
<td>Pre-requisite:</td>
<td>none</td>
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<tr>
<td>Co-requisite:</td>
<td>none</td>
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<tr>
<td>Name of Lecturer:</td>
<td>Assoc. Prof. Funda Tihminlioğlu</td>
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Objective of the course: The objective of this course is to provide an introductory level of understanding of the polymer science and engineering concepts. The students will learn about nature of polymers, types, properties, structures and applications.

Course Contents:
- The Nature of Polymeric Materials and Polymer Microstructure
- Industrial Polymers
- Polymer Synthesis
- Copolymerization
- Structure (Crystallization, Melting and The Glass Transition)
- The Measurement of Molecular Weight
- Mechanical and Rheological Properties
- Polymer Processing
- Polymeric Biomaterials

Bibliography:
- Fred W. Billmeyer, “Textbook of Polymer Science “
- Ferdinand Rodriguez, “Principles of Polymer Systems”, Taylor & Francis
- Joel R. Fried, “Polymer Science and Technology”

Assessment Methods:
- Weekly homework assignments 15%
- One written midterm exam 30%
- Term project 20%
- One written final exam 35%

Exams:
- First Midterm Exam: Mon. Nov. 21, 2005 (@13:30-15:30 pm)
- Final Exam: Friday, Jan. 20, 2006 (@9:30-11:30 am)

Lecturer:
(Dr. Funda Tihminlioğlu)
- Tue. 8:45 – 10:30 (Room # D4), Friday 13:30- 14:15 (Room # D4)

Office Hours:
- Dr. Funda Tihminlioğlu (Room # 159) Tue. 10:45 – 12:00
- TA Gözde Arıkut (Room # 121)

CHE 211 Fall 2005