



## COURSE DATASHEET

<b>Semester:</b>	2014/15/1
<b>Course:</b>	Petrolchemistry
<b>Code:</b>	VEMKMOL413P
<b>Responsible department:</b>	Department of Hydrocarbon and Coal Processing
<b>Department code:</b>	MKOL
<b>Responsible instructor:</b>	Dr. Norbert Miskolczi

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### Course objectives:

To develop an awareness of the sources of petrochemistry. Relationship of petrochemical industry with other industries.

### Course content:

1. Introduction, history of petrochemistry. Raw materials. Regional petrochemical industry.
2. Relationship of refining and petrochemical industry. Olefin production.
3. Production and processes of raw materials of petrochemical industry
4. Production and processes of raw materials of petrochemical industry
5. Relationship of petrochemistry and plastic processing industry. Economics of petrochemistry.
6. Plastic industry. Plastic production, consumption, uses. Polymer stereochemistry. Mass plastics and engineering plastics.
7. Base reactions of plastic production.
8. Production plastics (poliolefins).
9. Production plastics (ABS, PVC, PS).
10. Production plastics (PA, PC).
11. Production plastics (polyesters, polyurethanes, resins).
12. Plastic processing.
13. Plastic additives. Biodegradable plastics. Trends.
14. Role of plastics in energy and raw material saving. Plastic wastes. Costs.
15. Process safety in petrochemical sector.

### Requirements, evaluation and grading:

Please see in TVSZ; Possibilities for repeating the subject: - Accepted equivalent subjects: - Learning efforts necessary to satisfy the requirements of the subject: 45h/45h

### Required and recommended readings:

Matar, Sami; Hatch, Lewis Frederic (2001). Chemistry of petrochemical processes (2 ed.). Gulf Professional



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### Required and recommended readings:

Publishing. ISBN 0884153150.