UNIVERSITY OF PANNONIA

COURSE DATASHEET

Semester:	2016/17/1
Course:	Petrolchemistry
Code:	VEMKMOL413P
Responsible department:	Department of Hydrocarbon and Coal Processing
Department code:	MKOL
Responsible instructor:	Dr. Norbert Miskolczi

Course objectives:

To develop an awareness of the sources of petrochemistry. Relationship of petrochemical industrywith 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 sawing. Plastic wastes. Costs.
15. Process safety in peltrochemical sector.

Requirements, evaluation and grading:

Please see in HKR ; Possibilities for repeating the subject: - Accepted equivalent subjects: - Learning efforts necessery 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:

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