

UNIVERSITY OF PANNONIA

COURSE DATASHEET

2015/16/2
Physics and Application of Plastic Materials
VEMKMOL443M
Department of Hydrocarbon and Coal Processing
MKOL
Dr. Norbert Miskolczi

Course objectives:

Comprehensive view about the polymers, plastic processing and measurements.

Course content:

- 1. Registration week
- 2. The history of plastics and their characteristics. The plastics industry, plastics production volumes and expected future trends. The use of plastic materials.
- 3. Properties of HDPE and PP, production technologies and their applications.
- 4. Properties of ABS, PS, PVC, production technologies and their applications.
- 5. Aliphatic polyamides, polycarbonates, and polyisobutylene, linear and crosslinked polyesters are produced, their properties and applications. Polyurethanes, resins (epoxy, phenolic and aminoaldehid) properties, production and application.
- 6. Thermoplastics Processing-I. Preliminary operations, extrusion.
- 7. Thermoplastics Processing II. Injection molding, casting.
- 8. Thermoplastics Processing III. Calendering, blowing.
- 9. Thermoplastics Processing IV. Rotational molding, foaming.
- 10. Thermosetting plastics processing.
- 11. Measurement techniques-I.
- 12. Measurement techniques-II.
- 13. Laboratory practise, case study
- 14. Laboratory practise, case study
- 15. Laboratory practise, case study

Requirements, evaluation and grading:

Requirements: Please see in TVSZ. Examination paper min.50%

Possibilities for repeating the subject: Please see in TVSZ.

Accepted equivalent subjects:



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Semester:	2015/16/2
Course:	Physics and Application of Plastic Materials
Code:	VEMKMOL443M
Responsible department:	Department of Hydrocarbon and Coal Processing
Department code:	MKOL
Responsible instructor:	Dr. Norbert Miskolczi

Requirements, evaluation and grading:

Learning efforts necessary to satisfy the requirements of the subject: 30h/30h

Required and recommended readings: