Full Time
Chemical Engineering MSc Programme in
Petroleum Refining and Petrochemicals
in English

University of Pannonia,
Veszprém

HUNGARY
2017
Why Veszprém?

• Study and travel in the European Union
• Globally accepted and competitive chemical engineering diploma
• Practice oriented education and industrial training possibilities
• Cost efficiency
Veszprém, Hungary, in Central Europe, in the European Union

Facts about HUNGARY:

- http://gotohungary.com/about-hungary
- http://www.fsz.bme.hu/hungary/facts.html

Study in HUNGARY:

- http://studyinhungary.hu/
University of Pannonia, Veszprém

Faculty of Economics
Faculty of Information Technology
Faculty of Engineering
Faculty of Agricultural Sciences
Faculty of Modern Philology and Social Sciences

Pictures of VESZPRÉM: https://www.youtube.com/watch?v=9W5SEyKU_hw
University of Pannonia: http://englishweb.uni-pannon.hu/
Programme accredited by the Institute of Chemical Engineers (IChemE, UK)

Globally accepted and competitive chemical engineering diploma, unique in Hungary and in the region, too
Wide industrial areas covered in our MSc programme

Upstream (US)
Waste minimisation, utilisation, Biomass Processing

Downstream (DS)
Plastics

Sales - Logistics - Retail
Chemicals, polymers (PetChem)
Special focus areas in refining and petrochemical industry

Catalysis
Chemical Technology
Economics

Maintenance
SCM
Process Design
Summer practice, training, industrial thesis work opportunity in the petroleum/petrochemical industry
Job opportunities

- Commercial of Chemicals
- Logistics of Chemicals
- Engineering, Project Management
- Refining, PetChem
- Crude Oil Production
- Biomass Processing, Food industry
- Energy Industry
- OEMs, Plastic Industry
- Plant Design
- R&D, University, Lab Services
- Waste Processing
Excellent infrastructure
Main research areas

- Chemical process design, efficiency improvement
- PetChem processes, commodity and non-commodity chemicals
- Reduction, recycling and reuse of waste, biomass
- Additives for EOR, US performance improvement
- DS conventional and alternative fuels
- Lubricants and lube additives

Research
Staff

- András HOLLÓ, PhD, MBA – associated professor, head of dept.
- Jenő HANCSÓK, DSc – professor
- Zoltán VARGA, PhD – associated professor
- Norbert MISKOLCZI, PhD – associated professor
- Csilla VARGA, PhD – assistant professor
- Roland NAGY, PhD – research associate
- Péter GERGÓ, MSc – research engineer
- Invited industrial leading experts, managers from Europe
- Assistant lecturers
- Administrator
- Technicians
- PhD students
Our MSc programme in numbers

<table>
<thead>
<tr>
<th>Application deadline</th>
<th>5.3.2017</th>
</tr>
</thead>
<tbody>
<tr>
<td>Education starts</td>
<td>1.9.2017</td>
</tr>
<tr>
<td>Number of credits to be achieved</td>
<td>120</td>
</tr>
<tr>
<td>Form</td>
<td>full-time</td>
</tr>
<tr>
<td>Qualification</td>
<td>MSc in Chemical Engineering (IChemE)</td>
</tr>
<tr>
<td>Tuition fee per semester</td>
<td>3 400 Euro (for non-EU citizens)*</td>
</tr>
<tr>
<td>Living expenses per month</td>
<td>400-800 Euro</td>
</tr>
</tbody>
</table>

**Requirements**

- BSc in chemical engineering
- Average grades of “B” or better
- Proof of English language proficiency

*Scholarship is available, see next page*
Application, funding

http://studyinhungary.hu/

http://www.tka.hu/international-programmes/2966/stipendium-hungaricum

Deadline: 05.03.2017
Active students’ life
Contacts

- Zoltán VARGA
  vargaz@almos.uni-pannon.hu
- Norbert MISKOLCZI
- mnorbert@almos.uni-pannon.hu
- András HOLLÓ
  ahollo@almos.uni-pannon.hu

Full time MSc Course in
Petroleum Refining and Petrochemicals
for chemical engineers
Appendix
The MSc programme aims to improve the knowledge and understanding of upstream surface technologies, downstream petroleum refining and petrochemicals, chemicals production. The outcomes of the education are:

- Up-to-date knowledge in petroleum handling, transportation, refining and petrochemical processes and products, their supply and value chain
- The financial analysis and improvement of the profitability of refining and petrochemicals plants
- Safety, health, and environment principles in a refinery and petrochemical complex
- Design, operate, maintain and improve the efficiency of process units
- Understand correlation among legislative issues, product quality, technology parameters
- Perform and understand modern laboratory analysis of feeds, intermediates and products of refining and petrochemical industry
- Understand the developments of joint industries: transportation and its infrastructure, commodity and non-commodity chemicals, consumer services, CCS, energy industry
- Utilisation of biomass and waste

The MSc programme targets to strengthen cognitive skills, especially in the aspects of problem definition, knowledge acquiring, synthesis, creativity, as jointly demonstrable through the successful completion of the thesis work.

The key learning outcomes include the development of the skills and abilities in the following fields:

- Organizing and planning of work activity
- Collaborative work in a team
- Use of general and professional computing and modelling tools
- Research into new areas, preparation of literature review
- Writing reports, memos
- Preparation and delivery of communication and presentation
Fully industry controlled and taught subjects

- Economics of Petroleum Processing
- Optimisation in the Petroleum Industry
- Maintenance in the Refining and Petrochemical Industry
- Analyses in the Petroleum Industry
Selected publications of the Department

- Production of bioparaffins by the catalytic hydrogenation of natural triglycerides, *Journal of Cleaner Production*, Volume 34, October 2012, Pages 76-81, J. Hancsók, T. Kasza, S. Kovács, P. Solymosi, A. Holló