LNG education in Lithuania
RESEARCH AND STUDY FIELDS

PHYSICAL SCIENCES
BIOMEDICAL SCIENCES
TECHNOLOGICAL SCIENCES
SOCIAL SCIENCES
HUMANITIES SCIENCES
ARTS

STUDY PROGRAMMES

- Bachelor’s degree: 57
- Master’s degree: 59
- PhD: 11

GO LNG Vilnius
FACTS 2016/2017 ACADEMIC YEAR

ESTABLISHED IN 1991

4069 STUDENTS

OVER 33,600 GRADUATES

NEARLY 700 TEACHERS AND RESEARCHERS, INCLUDING 59% PHDs AND/OR RECOGNISED ARTISTS

OVER 120 STUDY PROGRAMMES IN ALL THREE CYCLES

OVER 60 RESEARCH AND TRAINING LABS

OVER 60 INTERNATIONAL AND NATIONAL RESEARCH PROJECTS ANNUALY
Developing of the infrastructure of the Maritime Valley

Faculty of Marine Technologies and Natural Sciences

Open Access Centre for Marine Research:
- Marine chemistry
- Marine ecosystems
- Structural reliability of marine structures
- Water transport technologies
- Fleet & expeditionary equipment

RV Mintis

Laboratory of Fishery and Aquaculture

Klaipeda Science and Technology Park

Business incubator

Faculty of Marine Technologies and Natural Sciences

Open Access Centre for Marine Research:

RV Mintis

Laboratory of Fishery and Aquaculture

Klaipeda Science and Technology Park

Business incubator
FACULTY OF MARINE TECHNOLOGIES AND NATURAL SCIENCES

DEPARTMENTS OF: NATURAL SCIENCES, INFORMATICS AND STATISTICS, ENGINEERING, MARINE ENGINEERING

CENTRE FOR MARINE SCIENCE AND TECHNOLOGIES
- **ENGINEERING OF LNG TERMINALS**
  - NAVAL ARCHITECTURE
  - MARINE TRANSPORT ENGINEERING
  - SEA PORTS ENGINEERING
  - CONSTRUCTION ENGINEERING
  - ELECTRICAL ENGINEERING
  - MECHANICAL ENGINEERING
  - CHEMICAL ENGINEERING
  - ENVIRONMENTAL ENGINEERING
  - INFORMATICS ENGINEERING
  - INFORMATICS
  - APPLIED STATISTICS
  - ECOLOGY AND ENVIRONMENT MANAGEMENT
  - BIOLOGY
  - HYDROLOGY AND OCEANOGRAPHY

- **MASTER'S DEGREE PROGRAMMES**
  - PETROLEUM TECHNOLOGICAL PROCESSES
  - SEA PORT MANAGEMENT
  - MARINE ENVIRONMENT ENGINEERING
  - PRODUCTION ENGINEERING
  - TECHNICAL INFORMATION SYSTEMS ENGINEERING
  - ECOLOGY AND ENVIRONMENTAL STUDIES
  - GEOINFORMATICS
  - INFORMATICS
  - INNOVATIVE ELECTRIC AND AUTOMATIC SYSTEMS
  - FLEET TECHNICAL MANAGEMENT
  - PORT CONSTRUCTIONS
  - NAVAL ARCHITECTURE AND SHIPBUILDING
  - ICHTHYOLOGY AND AQUACULTURE
  - MARINE HYDROLOGY
  - STATISTICS & OPERATIONAL ANALYSIS
Trained liquefied natural gas (LNG) sector professionals gain a comprehensive engineering knowledge and skills on:

- LNG sector structure
- LNG terminals’ system design, operation, maintenance, repair, diagnostic technologies
- Natural gas properties and processes, gas chemistry and analysis methods
- Automation, application of energy-saving technologies, safe operation measures
- LNG transportation by vessels and others vehicles, loading and unloading technologies
- Natural gas transmission and distribution systems
- Control and analysis of technological processes and their performance indicators
- Gas utilization technologies

Complex engineering education provides graduates with more employment opportunities in off-shore and on-shore LNG terminals, gas distribution stations, enterprises of design, manufacturing, operation and maintenance of LNG facilities, systems, and vehicles; in higher education and research institutions; in LNG sector supervising institutions.
ENGINEERING OF LNG TERMINALS (3.5 y., 210 ECTS)
Since 2017/2018 academic year - in English

Study program content

LNG related courses:
• Introduction to Specialty
• Gas Chemistry and Analysis Methods
• Refrigerating Equipment
• Process Engineering
• LNG Lines and Terminals
• Natural Gas Transmission and Distribution Systems
• LNG Terminal Management and Operational Regulation
• Energy Cycle of LNG Terminal
• Gas Utilization Technologies
• LNG Transportation and Loading/Unloading Technologies
• Practice (PBL)
• Final work
ENGINEERING OF LNG TERMINALS (4 years, 240 ECTS)

- General engineering
- LNG related courses
- IT related course
- Industry 4.0 related courses
  - Enterprise resource planning systems
  - Databases and Information systems
  - Smart maintenance
  - Smart embedded systems
  - Industrial internet of things
  - Big data analysis
Chemistry Laboratory (1)
Chemistry Laboratory (2)
Chemistry Laboratory (3)
Interdepartmental Mechanics and Materials Science Laboratory
Interdepartmental Laboratory of Information Technologies (1)
Non Destructive Testing Laboratory
Material Engineering Laboratory
Laboratory of Machine Elements
Automatics Laboratory
LNG Cluster partner Emerson presented Rosemount 3051S Series Scalable Pressure, Flow, and Level Solutions
LNG Cluster partner Emerson presented Equipment for measuring gas and liquid flow rates
LNG Cluster partner Emerson presented
Data collecting equipment, wireless antennas, remotely operated systems
Project ‘Train’
3rd place in VIII International Aventics Pneumobile Competition
THANK YOU FOR ATTENTION!
rima.mickeviciene@ku.lt