MAJOR SUBJECTS

- Introduction to Computational Science and Engineering
- Modern Programming Concepts in Engineering
- Verification, Validation, and Uncertainty Quantification
- Mechanics of Solids
- Continuum Mechanics
- Computational Dynamics
- Finite Element Methods in Structural Analyses
- Thermo-Fluid Dynamics
- Computational Thermo-Fluid Dynamics
- Numerical Methods and Stochastics
- Mathematical Aspects of Differential Equations and Numerical Mathematics

CAREER FIELDS

Industry
Automotive, civil, mechanical, energy, thermal, and chemical engineering

Research and Development
Research institutes, International companies, Simulation consulting firms

Academia

SHAPES THE 21st CENTURY TECHNOLOGIES
DO DOUBLE DEGREE
Master of Science in Computational Engineering from Ruhr-Universität Bochum (Germany) and Vietnamese-German University, (Vietnam).

ADMISSION REQUIREMENT:
Applicants graduated with bachelor degree in relevant disciplines. Civil Engineering, Mechanical Engineering, Applied Mathematics, Applied Physics, or related engineering fields.

DURATION
Full time
4 semesters

BENEFITS OF THE PROGRAM

• Double Master's degrees, one from RUB (Germany) and one from VGU (Vietnam)
• English skills will be improved as a result of all teaching conducted in English.
• The highest teaching standards with an outstanding curriculum, dedicated and experienced professors from Germany and Vietnam, modern facilities and state-of-the-art engineering software.
• A network of research centers and industrial companies all over the world through our lecturers.
• Competitive advantage to be among the most sought-after experts in simulation engineering.
• Scholarships to do graduation thesis in Germany
• Opportunities to pursue PhD research in Germany and other countries.

Every success story relies on comprehensive preparation. CompEng program at VGU is certainly the best choice for this in Vietnam. CompEng nurtured me, a diligent and self-directed student, with diversified, state-of-the-art knowledge, and brought me to the international arena. More importantly, its prestigious academic network has been efficiently connecting students and alumni all over Asia, Europe, and America. Thanks to these advantages, I have effortlessly won various reputable scholarships, conference travel grants, and a full-time Ph.D. candidate position at the University of Luxembourg even before official graduation.

Chau Minh Vu
CompEng 2016, PhD student at Uni. of Luxembourg

The exciting challenges that I faced during my journey in CompEng helped me build up a new positive mindset towards studying. The more I engaged into my studies, the more I learned about advanced knowledge and the way my teachers approached scientific research. I greatly appreciate that the potential of female students, like myself, was promoted in the academic and gender-equality study environment of CompEng.

Doan Kieu Anh
CompEng 2017

The Computational Engineering degree program at VGU is definitely a good start for one who wants to have a career in the simulation field. I find that there is a perfect blend of theory and practice, which makes the program one of the best of its kind. The university provides an ambience that enhances the learning process. Overall, it's a well-organized program for enthusiastic minds.

Aravinth Ramachandran
CompEng 2014