Advanced Computational Mechanics is a studies program taught in English. It has been designed to fulfill the needs of candidates and students who want to broaden their knowledge of mechanics and application of computer methods and software in design of structures (CAD, FEM), materials design (CAMD), Materials selection (CAMS), machining (CAM), use and monitoring of mechanical structures and systems. The course can be enrolled in by Polish students and international students, including participants of the Erasmus programme.

The curriculum is built around the following areas of engineering knowledge: mathematics and physics, theoretical mechanics, strength of materials, mechanics of materials, machining, computing and numerical methods, mechanics of solids, mechanics of fluids, thermodynamics, theory of vibrations and acoustics, control of systems, smart materials and structures.

It is assumed that the BSc. and MSc programs are integral.

Graduates are encouraged to proceed to PhD studies.

Students and graduates should be able to solve engineering problems individually both in Polish and international research centres, as well as in design groups all over the world.

The best graduates will be offered an opportunity to start a scientific career.

**BSc (Eng.) STUDIES**

**PROGRAM:**  [http://syllabus.pk.edu.pl/plan/show/html.pk?id=2039](http://syllabus.pk.edu.pl/plan/show/html.pk?id=2039)

**APPLICATION:**  JUNE 2016, JUNE 2017

**MSc (Eng.) STUDIES**

**PROGRAM:**  [http://syllabus.pk.edu.pl/plan/show/html.pk?id=2050](http://syllabus.pk.edu.pl/plan/show/html.pk?id=2050)

**APPLICATION:**  FEBRUARY 2017

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