

Doctoral School of Engineering

Doctoral supervisors

Prof. Dr. Eng. Gilbert-Rainer GILLICH

Development of non-destructive testing techniques based on vibration signal analysis; monitoring of engineering structures for early detection of defects and prediction of service life; isolation of noise and vibration, including from seismic action; advanced signal processing; development of autonomous non-destructive testing systems

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https://eng.ubbcluj.ro/?page_id=167#toggle-id-2

Assoc. Prof. Dr. Eng. Habil. Zoltan-Iosif KORKA

Vibro-acoustic diagnosis of mechanical transmissions; reliability of mechanical transmissions; computer-aided design of mechanical systems; programming of numerically controlled equipment

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Lect. Dr. Eng. Habil. Zeno-Iosif PRAISACH

Development of non-destructive testing techniques based on vibration signal analysis; monitoring of engineering structures for early detection of defects and prediction of service life; advanced signal processing; development of autonomous non-destructive testing systems

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Associated Ph.D. Coordinators

Assoc. Prof. Dr. Eng. Habil. Tiberiu MĂNESCU

Strength of materials; kinematics and dynamics of bearings; numerical modelling and simulation; finite element method.

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The Faculty of Engineering from Babeş-Bolyai University offers the 3rd cycle of academic studies in the form of PhD programmes in the doctoral degree area Mechanical Engineering, within the Doctoral School of Engineering. Target groups are graduates of master programmes in Mechanical Engineering, Industrial Engineering, Mathematics, Computer Science, Computer Engineering and Natural Sciences.

The programmes are promoting high-quality fundamental and applied research in Mechanical Engineering, as well as interdisciplinary research, by involving the PhD students in the most important and recent research projects of the faculty, including international cooperation with academic and industrial partners.

The major research topics that are studied within the doctoral school are Mechanical Engineering are: Mechanics, Mechanisms and Machine Parts, Mechanical Vibration, Material Strength, Hydraulics and Hydraulic Machines, Thermotechnics and Thermal Machines.

The mission and objectives of the Doctoral school of Engineering are in the lines of the general mission of UBB, allowing PhD students to pursue a high-quality research, increasing the scientific quality of mentoring doctoral students and the quality of their PhD theses. The Doctoral School supports also joint doctoral degrees.

CONTACT

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