

Faculty of Geodesy and Land Management University of Warmia and Mazury in Olsztyn, Poland



COMPETENCIES

The Faculty holds the right to confer the academic titles of doctor habilitatus (a post-doctoral degree) and doctor of Technical Sciences in the discipline of Geodesy and Cartography, and offers doctoral studies in the above disciplines.

CONTACT

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HISTORY OF THE FACULTY

The year 2000 will be remembered as a special one, namely, the 40th year in the history of surveying studies in Olsztyn. On the 7th of July, 1960 in Higher School of Agriculture in Olsztyn, the Higher Vocational School of Surveying and Rural Land Management was established, which admitted its first students on the 1st of October the same year. The Higher School of Geodesy, together with Departments of Surveying and Rural Land Management in the Higher School of Agriculture in Cracow and the Higher School of Agriculture in Wrocław, introduced Surveying and Rural Land Management, which was a new field of technical studies. The location of one of those institutions in Olsztyn is due to the initiative of the local surveying institutions and their representatives: Klemens Janiszewski, Czesław Jaworski, and Waclaw Sajkowski. The concept of surveying studies in Olsztyn, supported by the then administrator of the province Marian Gotowiec and by the contemporary authorities of Higher School of Agriculture in Olsztyn, represented by Rector Prof. Dr. Eugeniusz Grabda and pro-Rectors Prof. Dr. Hjalmar Ugglä and Prof. Dr. Dominik Wanic was soon achieved.

The organizer and head of Geodetic Studies, and later the first dean of the Faculty of Surveying and Rural Land Management was Dr. Witold Senisson. Faculty of Geodesy and Cartography of the Warsaw Technical University and its long-term dean Prof. Dr. Habil. Czesław Kamela and doctor honoris causa were an immense help in the establishment of the new geodetic unit. The research and teaching staff includes 21 independent research workers (including 17 professors with academic titles) and 36 doctors.

MAJOR FIELDS OF STUDY

The Faculty employs an academic staff of 113, including 21 professors and assistant professors. The Faculty of Geodesy and Land Management of the University of Warmia and Mazury in Olsztyn is fully eligible to bestow titles of engineer, master, doctor and habilitated doctor of technical sciences in the fields of geodesy and cartography. The Faculty offers professional engineering studies, master degree and doctoral studies and it can admit student in the following fields of study:

1. geodesy and cartography,
2. land management.

These are regular studies (Olsztyn) and extramural studies (Olsztyn, Piła, Rzeszów, Toruń). The Faculty offers doctoral studies in the field of geodesy and cartography, and postgraduate studies in the following fields:

- photogrammetry and remote sensing,
- numerical geodesy,
- computers sciences,
- mathematics,
- real-estate validation,
- real-estate management.

Since October 1997 the Faculty has provided the highest form of education, i.e. doctoral courses in geodesy and cartography.

More info - [ECTS](#).

FACILITIES

The Faculty buildings are located in Olsztyn-Kortowo (Prawocheńskiego 15, Oczapowskiego 1, Heweliusza 12 and Heweliusza 5). The Faculty of Geodesy and Land Management owns also a Satellite Observatory in Lamkówko (15 km from Olsztyn), designed for both research and practical training.

The Faculty owns the following rooms:

- lecture halls for 110, 70 and 60 students,
- 7 classrooms and seminar halls for 20-30 students each,
- 7 laboratories equipped with PCs, scanners, cartometers, plotters, digitizers and printers.

The following pieces of equipment are stored at the Surveying Equipment Repository:

- total stations,
- modular electronic tacheometers,
- GPS receivers,
- leveling instruments, theodolites, underground line detectors and other surveying equipment.

STUDENTS' SCIENCE CENTERS

There are three students' science centers at the Faculty of Geodesy and Land Management:

STUDENTS' SCIENCE CENTER

Center for Thermovision and Thermography

Science Center for Satellite Observation of the Earth

Science Center SCITUS

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The members of the above science centers take an active part in the Faculty's life. They organize summer camps during which students collect material for annual seminars.

RESEARCH WORKS

Research and education are supported by specialized laboratories and a complex of integrated computer workshops equipped with a modern hardware and specialized software: a numerical map workroom, a spatial information systems workshop, a physics computer simulation workshop, and a digital photogrammetry workroom. All the computer resources of the University are linked by an Intranet, and through the modern University net connected to the Internet. We own the following Internet domains: geodezja.pl, geodesy.pl, geomatics.pl, mapa.net.pl and spaceimage.pl, where we provide informational web services, also outside the University intranet. The Faculty, as the owner of the Satellite Observatory in Lamkówko, meets its potential for research and educational experiments.

Research workers and students of the Faculty deal with a wide spectrum of subjects related to geodesy, surveying, mathematics, land management, computer sciences and related sciences, with special consideration given to:

- landscape architecture and ecology,
- astronomy, cosmology, and gravity theory,

- physics,
- digital photogrammetry and Internet photogrammetry,
- close range photogrammetry,
- engineering geodesy,
- satellite geodesy,
- higher geodesy,
- geomatics and spatial information systems,
- land management,
- computer sciences,
- numerical cartography,
- cadastral survey and common appraisal,
- mathematics and mathematical statistics,
- spatial and archeological reconstruction,
- positioning and navigation systems,
- remote sensing and photointerpretation,
- theory of deterministic chaos in dynamic analyses,
- theory of observation result elaboration,
- theory of environment and real estate evaluation.

INTERNATIONAL CO-OPERATION

Research workers in the Faculty of Geodesy and Land Management of the University of Warmia and Mazury have numerous international connections with foreign research and educational institutions, the most important of them being:

- The Technical University in Munich (Germany)
- The University of Bonn (Germany)
- The University of Halle (Germany)
- Max-Planck-Institut für Mathematik in Bonn (Germany)
- The University of Siegen (Germany)
- The University of Alborg (Denmark)
- The University of Architecture, Construction Engineering and Geodesy in Sophia (Bulgaria)
- The Technical University in Delf (Holland)
- Universidad del Pais Vasco in Bilbao (Spain)
- Sheffield Halam University (Great Britain)
- Brooks University in Oxford

We co-operate with enterprises in mutual research and services exchange. The experience and knowledge of the Faculty's employees, as well as its educational and technological basis enable co-operation on many levels.

AN OFFER OF PRACTICAL ACTIVITY

Research workers of our Faculty can cooperate with many practical institutions, especially in the field of:

- automation of the field data collection process and processing methods for spatial information systems,
- real estate management and valuation,
- cadastral survey,
- computer aids in education,
- survey instruments and geodetic sign construction, using the technology of reproducible basis,
- methods of geodetic survey result processing,
- methods of geodetic net adjustment,
- monitoring of the environment, using a thermal camera, aerial photographs, and satellite images,

- elaboration of computer-aid educational programs in numerical methods and mathematical statistics,
- elaboration of computer science algorithms for chosen problems in geodesy and mechanics,
- spatial planning designs on various levels of administrative partition,
- elaboration of appraisements and prognoses of spatial development,
- division and separation of real estate,
- construction work related to modernizing surveying technology,
- development and operation of internet and computer projects,
- using client-server technology,
- computer processing in geodetic surveying and analytical systems and environmental protection,
- regulation of legal status,
- devastated land reclamation (technical designs),
- real estate valuation,
- real estate taxation,
- rural area planning (including models of farming adaptation to European norms),
- introduction of a digital multimedia video-thermal system VISION PLUS, used for close range meteorological and thermal research,
- introduction of spatial information systems,
- taking and processing aerial photographs for environment valorization purposes,
- application of GPS to engineering geodesy and navigation,
- application of satellite techniques to geodynamic research,
- application of satellite techniques to solving basic geodetic problems,
- application of satellite techniques to geodetic base installation.

The Faculty of Geodesy and Land Management of the University of Warmia and Mazury in Olsztyn is open to scientific and economic co-operation and invites candidates to undertake studies at the highest university levels.