

Educational Programme	<b>Cartography</b>
Degree Awarded	Bachelor
Standard Length of Studies (Number of ECTS Credits)	3 years - 6 semesters - 180 ECTS
Type of Study	Full-Time
Higher Education Institution	Babes-Bolyai University
Faculty / Department	Faculty of Geography
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Profile of the Degree Programme	<b>Geography</b>
Target Group / Addressees	Graduates of secondary education with basic level of knowledge in cartography wishing to further develop competencies in this field.
Entrance Conditions	50% baccalaureate examination score + 50% the grades average from highschool (IX-XII classes).
Further Education Possibilities	Master Studies
Description of Study	The mission of this speciality is to develop and use maps; it also includes land measures.
Purposes of the Programme	Train cartographers by assuring basic competencies in: <ol style="list-style-type: none"> <li>1. Assuring a proper skill force for Romania's cartography market;</li> <li>2. Assuring quality preparation by relating the acquired skills to the revolutions in the new technologies of measuring and graphic imaging of the land surface;</li> <li>3. Ensure compatibility in the preparation of local cartographers with European Union quality standards;</li> <li>4. Develop competencies which will allow the cartographers to strengthen their knowledge by following masters and doctoral degree studies;</li> <li>5. Ensure the training of cartographers in the present study programme as to be able to become potential researchers and professors in higher education institutions.</li> </ol>
Specialization / Area of Expertise	The holder of the diploma of Geography, in the specialization Cartography: Cartographer, Graphic Designer, Cadaster Specialist, Topographer Operator, Reviewer of speciality; By promoting <b>The Program of Psycho-Pedagogical Studies I<sup>st</sup> Level</b> , the holder of this certificate can work as a teacher in the obligatory pre-university educational system.
Extra Peculiarities	-
Practical Training	Internship of 90 hours for second semester Internship of 90 hours for fourth semester Internship of 30 hours for sixth semester
Final Examinations	Research thesis
Gained Abilities and Skills	<b>I. General competences</b> 1.-Improving their vocabulary of speciality and

	<p>familiarizing them with basic terms, present in their future study levels;</p> <p>2. -Tehcnical knowledge even in the secondary level, naturalistic and humanistic;</p> <p>3. -Understanding notions in all the cartographic fields: topography, teledetection, photointerpretation, geographical information system, cadaster, global positioning system, geography, teritorial planning, urbanism, environmental protection etc.</p> <p>4. -Knowing in detail:maps, spatial images and operating with them.</p> <p><b>II. Speciality competences</b></p> <p>1. -The capacity to execute outlining and land measures;</p> <p>2. -Knowing to use: total stations, global positioning system, theodolites, stereoscopes, graphical stations and related software;</p> <p>3. -The skills to develop maps, general maps (geographical, topographical) and thematical maps (cadastral, urbanistical, hystorical, geomorphological, phedological, geobotanical, sylvical, risk maps, industrial, turistical, transport maps, agricultural maps);</p> <p>4. -The skills to develop tridimensional teritorial maps;</p> <p>5. -The skills to realise tehcnical documentation (topographical, cartographical, cadaster) for the Land Registry, to obtain construction authorisation, infrastructure design;</p> <p>6. -The knowledge to obtain the right of signature and stamp for the recognition of your job and become an judicial expert.</p>
<p>Job Placement, Potential Field of Professional Activity</p>	<p>The graduates of the specialization <b>Cartography</b> can work in: institutions and enterprises of speciality (cartographic, topographic); other possibilities are connected to fields like: constructions, urbanism, regional development, land use planning, the use of satellite images, research where maps, atlases and projects of a big scale are made.</p> <p>The graduates are working in different activities in the liberal system, the cartographer profession being very searched ,with a lot of possibilities to practice it in another countries.</p>

Date: 28.10.2010

Signature:

Prof. PhD. Gavril Pandi

Lecturer PhD. Nicolaie Hodor