

(cf. RNCIS: [http://www.rncis.ro/portal/page?\\_pageid=117,70218&\\_dad=portal&\\_schema=PORTAL](http://www.rncis.ro/portal/page?_pageid=117,70218&_dad=portal&_schema=PORTAL))

### Title and name of qualification

Graduation title	Engineer				
Name of qualification	<b>Materials Science</b>	Qualification code	<b>L20704017010</b>	Contact person	Contact ACPART - ACPART

### Identification elements related to qualification

Education level:	Bachelor Studies
Fundamental domain of study:	Engineering Sciences
Branch of science:	Mechanical engineering, mechatronics, industrial engineering and management
Domain-based ranking:	Materials Engineering
Domain of study:	Materials Engineering
Study programme:	Materials science
Total number of credits:	240
Length of study:	4 years
Prerequisites:	
Details:	

### Summary of qualification

#### Professional competences:

Calculations, demonstrations and applications for solving tasks specific to the materials engineering based on fundamental sciences knowledge

The combination of knowledge, principles and methods from the technical sciences field with graphics for solving the specific tasks

Materials designing using CAD techniques

Evaluation and optimal solving of technical problems concerning the processed materials using concepts, theories and experimental methods

Carrying out management and marketing activities in the design and materials characterization

Carrying out technical evaluation activities concerning sustainable development in the industrial materials field

#### Cross- disciplinary competences:

Application of the engineer values and ethics and responsible execution of the professional tasks under limited autonomy and qualified support. Promoting logical, convergent, and divergent reasoning, practical applicability, assessment and self-assessment when decisions are taken.

Carrying out the activities and of the specific roles in teamwork on different hierarchical levels. Promoting the initiative spirit, the dialogue, cooperation, positive attitude, respect for others, diversity and multiculturalism and continuous improvement of one's own activity.

Objective self-evaluation of the professional continuous training need for the labour market insertion and of the adaptation to its dynamic requirements for personal and professional development. Efficient use of the multilingual skills and knowledge of information technology and communication.