

**1. Data about the program**

1.1 Higher education institution	Babeş-Bolyai University
1.2 Faculty	Faculty of Engineering
1.3 Doctoral school	Doctoral School of Engineering
1.4 Field of study	Mechanical engineering
1.5 Study cycle	Doctorate
1.6 Study program / Qualification	Doctoral training / PhD in Mechanical engineering

**2. Course data**

2.1 Name of discipline	<b>Scientific documentation and authorship</b>						
2.2 Teacher responsible for lectures	<b>Prof. univ. dr. ing. Gilbert-Rainer GILLICH</b>						
2.3 Teacher responsible for seminars	<b>Prof. univ. dr. ing. Gilbert-Rainer GILLICH</b>						
2.4 Year of study	<b>1</b>	2.5 Semester	1	2.6. Type of evaluation	<b>C</b>	2.7 Course framework	<b>Opt</b>

**3. Estimated total time of teaching activities (hours per semester)**

3.1 Hours per week	<b>3</b>	Out of which: 3.2 Lectures	<b>1</b>	3.3 Seminars / Laboratory	<b>2</b>
3.4 Total hours in the curriculum	<b>36</b>	Out of which: 3.5 Lectures	<b>12</b>	3.6 Seminars / Laboratory	<b>24</b>
Allocation of study time:					
Textbook supported study, other course materials, recommended bibliography and personal notes					<b>40</b>
Additional learning activities in the library, on specialized online platforms and in the field					<b>52</b>
Preparation of seminars / laboratory classes, topics, papers, portfolios and essays					<b>120</b>
Tutoring					-
Examinations					<b>2</b>
Other activities: -					-
3.7 Individual study (total hours)	<b>214</b>				
3.8 Total hours per semester	<b>250</b>				
3.9 Number of credits	<b>10</b>				

**4. Preconditions (where applicable)**

4.1 Curriculum	•
4.2 Competences	•

**5. Conditions (where applicable)**

5.1 Conducting lectures	• Video projector, PC, blackboard, chalk
5.2 Conducting seminars / laboratory classes	•

**6. Specific competences acquired**

<b>Professional competences</b>	<ul style="list-style-type: none"> <li>• Ability to document a scientific-technical problem and present the current state of knowledge.</li> <li>• Ability to assess the status of own research and identify publishing opportunities by types of publications.</li> <li>• Ability to formulate the studied problem and to present in an appropriate format the methods and materials used, respectively the results obtained.</li> <li>• Ability to draw conclusions and identify and emphasize scientific novelty / own contribution.</li> </ul>
<b>Transversal competences</b>	<ul style="list-style-type: none"> <li>• Communication skills, written and oral, in science, including English.</li> <li>• Assuming responsibilities appropriate to the role of a team.</li> <li>• Critical-constructive reflection on the level of research and one's own level of professional training.</li> </ul>

## 7. Course objectives (based on the acquired competencies grid)

7.1 The general objective of the course	<ul style="list-style-type: none"> <li>• Knowledge of how to capitalize on research through publication</li> </ul>
7.2 Specific objectives	<ul style="list-style-type: none"> <li>• Accumulation of theoretical knowledge and practical skills on the elaboration of a scientific paper</li> <li>• Accumulation of theoretical knowledge and practical skills on the oral presentation of research results</li> </ul>

## 8. Content

8.1 Lectures	Teaching methods	Comments
Scientific papers - types of papers and ways of dissemination.	Presentation, discussion, case studies, exercises	2 hours
Documentation sources.		2 hours
Formulation of the current state of research. Referencing bibliographic sources and citation mode.		2 hours
Presentation of research methods and materials / techniques used.		2 hours
Presentation of the results and conclusions derived from them.		2 hours
Adequate presentation of the written work. Oral presentation techniques of the paper.		2 hours
Bibliography: <a href="https://owl.purdue.edu/owl/subject_specific_writing/writing_in_engineering/index.html">https://owl.purdue.edu/owl/subject_specific_writing/writing_in_engineering/index.html</a>		
8.2 Seminars / laboratory classes	Teaching methods	Comments
Case studies prepared with the doctoral students, based on their individual doctoral research topics	Presentation, discussion, exercises	24 hours
Bibliography: <a href="http://www-mech.eng.cam.ac.uk/mmd/ashby-paper-V6.pdf">http://www-mech.eng.cam.ac.uk/mmd/ashby-paper-V6.pdf</a> <a href="https://libguides.cam.ac.uk/ld.php?content_id=33846117">https://libguides.cam.ac.uk/ld.php?content_id=33846117</a>		

## 9. Aligning the contents of the discipline with the expectations of the epistemic community representatives, professional associations and standard employers operating in the program field

- Building skills and abilities related to good practice in scientific documentation and authorship

## 10. Examination (by request)

Activity type	10.1 Evaluation criteria	10.2 Evaluation methods	10.3 Weight in the final grade
10.4 Lectures	Active presence and participation	Heuristic conversation	25%
10.5 Seminars / laboratory classes	Level of knowledge acquired	Presentation of a scientific paper in PPT	75%
10.6 Minimum performance standard			
<ul style="list-style-type: none"> <li>• Drafting and presenting in PPT a scientific paper</li> <li>• Attendance of lectures and seminars</li> </ul>			

Date of issue

Signature of the teacher responsible for lectures

Signature of the teacher responsible for seminars

October 2022

**Prof. univ. dr. ing. Gilbert-Rainer GILLICH**

**Prof. univ. dr. ing. Gilbert-Rainer GILLICH**

Signature of the doctoral school director

**Conf. univ. dr. ing. abil. Zoltan-Iosif KORKA**