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Assessment methods of study outcomes			Assessment metho	ds of study outcomes			
Participation and activity in a discussion on the content topics held in the classroom. Developing, presenting and discuss	Particip	ation and activity in a	discussion on the content topics	held in the classroom. Develop	ing, presenting and discussing		

Course description

Scientific knowledge. Types of theses: a review, the experimental design. The consequences of formulating thesis topic; field of knowledge, detailed knowledge of the area, object (s) of analysis, formulation of the problem of cognitive, vision of the work is, general purpose work. Selection of sources of information science and technology. Analysis of the current state of knowledge. Identification of information gaps. The general objective of labor. General Purpose. The formulation of specific objectives. Methods of planning experiments. Measurements and results. Errors of measurement and analysis. Organisation the survey. Statistical database. Methods for analysis of results. Specific conclusions. Frame work plan, sections and subsections. The order of writing the work items. Quoting, footnotes, inventory of sources of information. The methods and principles of editing; illustrative material, charts, diagrams, drawings, attachments, kitchen. Summary of work; general conclusions, directions for further research. Realization rules ethics. The role of the promoter.

Basic bibliography:

1. Boć J.: Jak pisać pracę magisterską, Wrocław: Kolonia Limited, 2009, wyd 7.

2. Szkutnik Z.: Metodyka pisania pracy dyplomowej, Wyd. Poznańskie, Poznań 2005.

3. Majchrzak J., Mendel T.: Metodyka pisania prac magisterskich i dyplomowych. Wydawnictwo AE w Poznaniu, Poznań 2005.

4. Opoka E.: Uwagi o pisaniu i redagowaniu prac dyplomowych na studiach technicznych, Gliwice, Wyd. Politechniki Śląskiej, 2002

Additional bibliography:

1. Pytkowski Wacław., Organizacja badań i ocena prac naukowych, PWN, Warszawa 1981.

2. Polański Z.: Planowanie doświadczeń w technice, PWN, W-wa, 1994.

Result of average student's workload

Activity	Time (working hours)					
1. Participation in the lecture	10					
2. Consolidation of the lecture	5					
3. Konsultacje	1					
4. Preparation for exam (preparation of the framework plan of the M	5					
Student's workload						
Source of workload	hours	ECTS				
Total workload	21	1				
Contact hours	11	1				
Practical activities	5	1				