



Study program: Master, Computer Science for Business

Study year: 2, semester: 2

SPECIALIZED SCIENTIFIC RESEARCH

A. General information

The Specialized Scientific Research is part of the disciplines included in the curriculum, and the grade obtained conditions the promotion of the study year and is included in the calculation of the general average.

The scientific research activity of master's students aims to develop the study capacity and deepening of research and analysis techniques by master students, by conducting concrete studies on the disciplines studied in the master's degree program. The scientific research of master's students also aims to develop communication skills, demonstrate the ability to generate "new knowledge" and develop the ability to disseminate, support and argue the results of research by master students.

The elaboration of the research paper mainly focuses on the following aspects:

- ✓ Capitalizing on the knowledge acquired in the disciplines studied within the master's program.
- ✓ Development and implementation by master students of specific activities regarding the methodology specific to scientific research, analysis and interpretation of results.
- ✓ Design and realization of "new products" through research and development.
- ✓ Capitalizing on the results of scientific research.
- ✓ Compliance with the legal requirements in force regarding intellectual property.

The topic of the specialized scientific research paper will be chosen from the topics studied by the student. Depending on the topic chosen for the paper, the student can request the support of teachers who teach the discipline / disciplines in which the research topic is found.

Obligations of students, related to this discipline:

- To master the issues regarding the content of the specialized scientific research activity.
- To elaborate, support and argue a scientific paper (written in the form of a publishable scientific article) according to the instructions received.
- To submit the work of the specialized commission, both in written form and in electronic format, within the deadlines established for this.



B. MANDATORY requirements regarding the drafting of the research paper for the discipline "Specialized Scientific Research"

1. The structure of the paper

- Title
- Abstract (maxim 10 lines)
- Keywords (5-7 words)
- Scientific content (8-10 pages)
- Conclusion (1-2 pages)
- Bibliography

2. Typing requirements

- The first page will contain the title of the paper, the author, the abstract and the keywords. The title of the paper will be written centered, three lines from the top edge, in capital letters, in bold and size 14 points.
- The name and surname of the author will be written centered, 2 lines below the title of the paper, in capital letters, bold and size 12 characters. The specialized scientific research paper will be developed individually.
- The name of the school and of the master's program is written immediately centered on the next line to the one containing the author of the paper, in bold, character size 12.
- The abstract is written at a distance of two lines from the line containing the author's name, with the size of 12 characters, on a maximum of 10 lines.
- Keywords are written below the summary, in two lines with the size of 12 characters, maximum 5 keywords.
- The text of the paper will be written twice in front of the keywords, the font size 12.
- Chapter titles will be capitalized, bold, left-aligned, font size 12, and numbered in Arabic numerals.
- The paragraphs that make up the paper will be left/right aligned (justify). There will be a blank line between the title of the chapters and the paragraphs.
- The paper will be written in English, mentioning the page number at the bottom of it (footer).
- The format of the paper page will be A4, with the left edges of 2.5 cm, the right edges, top and bottom of 2 cm.
- The type of characters used will be Times New Roman, with a size of 12 points, normal spacing at 1.5 lines.
- The cited sources will be mentioned in footnotes within the related pages, specifying the name of the author, the title of the work, the publisher, the year of publication and the page / range of pages where the cited.
- Subchapters will be written in font size 12 and bold.
- Sub-chapters will be written with the size of 12 characters, italic.
- The figures will be framed in the text and will be numbered.
- The formulas and equations inserted in the text will be numbered to the right of the page.
- The tables will fit in the text, will be numbered in the upper right, and the title will be written in the upper left.



- The bibliography will be placed at the end of the paper, after two free lines. The bibliography will contain at least 10 (ten) current works, from the specialized literature, and will be ordered alphabetically by the name of the first author.

C. Criteria for evaluating the scientific research paper

- ✓ Originality.
- ✓ Scientific substantiation of the topic.
- ✓ Ability to support and argue the content of scientific papers.

The scientific paper will have a logical structure of the hypothesis - demonstration - conclusion type. The structure will be adapted to the chosen topic / field of study. The content of the paper can not only be purely descriptive, taking texts or statistical data, but must contain opinions, assumptions, personal conclusions that use existing data and information. Current aspects of a phenomenon (s) of interest can be systematized, but it must end with personal conclusions, the detachment of some tendencies, the evaluation of some implications, limits or opportunities.

The schedule of the specialized scientific research colloquium will be posted on the university website www.rau.ro, in the exams section.

If the papers are to be sent in electronic format to the evaluation committee, the details and deadlines will also be sent on the institutional communication channels (the institutional e-mail addresses of the students).

Dean of The School of CSBM,
Alexandru Tăbușcă, PhD Associate Professor

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