



UNIVERSITY OF NIŠ

Course Unit Descriptor**Faculty**

Faculty of Mechanical Engineering

GENERAL INFORMATION

Study Program	Mechanical Engineering
Study Module (if applicable)	-
Course Title	Methods and organization of scientific research
Level of Study	<input type="checkbox"/> Bachelor <input type="checkbox"/> Master's <input checked="" type="checkbox"/> Doctoral
Type of Course	<input checked="" type="checkbox"/> Obligatory <input type="checkbox"/> Elective
Semester	<input checked="" type="checkbox"/> Autumn <input type="checkbox"/> Spring
Year of Study	I
Number of ECTS Allocated	10
Name of Lecturer/Lecturers	Ratko Pavlovic
Teaching Mode	<input checked="" type="checkbox"/> Lectures <input type="checkbox"/> Group tutorials <input checked="" type="checkbox"/> Individual tutorials <input type="checkbox"/> Laboratory work <input checked="" type="checkbox"/> Project work <input checked="" type="checkbox"/> Seminar <input type="checkbox"/> Distance learning <input type="checkbox"/> Blended learning <input type="checkbox"/> Other

Purpose and Overview (max. 5 sentences)

Preparing students for research in their doctoral dissertation. Student competence in the publication of scientific papers in international journals.

Syllabus (brief outline and summary of topics, max. 10 sentences)*Theory classes:*

Basic concepts and definitions. Literature search. Selection of issues that could result in scientific work. Selection of adequate scientific papers in international journals. Formulation of the problem, the mathematical model and the selection of methods for solving them. Laboratory and numerical experiments. Analysis of results. Concluding remarks. Mandatory notices in the paper. Citing references. Selection of appropriate scientific journal. Impact factor international journals and Thompson Reuters list. Code of Ethics in publishing scientific papers. The process of preparing to send to the selected international journal. Sending a work in electronic form. Communication with the editor and reviewers. Citation Indexes (N/G factors). Illegality of the so-called publishing on predatory magazine.

Guided independent research:

Prepare students for research in their doctoral dissertation.

Language of Instruction

- Serbian (complete course) English (complete course) Other _____ (complete course)
 Serbian with English mentoring Serbian with other mentoring _____

Assessment Methods and Criteria			
Pre exam Duties	Points	Final Exam	Points
Activity During Lectures	0	Written Examination	0
Practical Teaching	50	Oral Examination	Max. 50
Teaching Colloquia	0	Overall Sum	100
*Final examination mark is formed in accordance with the Institutional documents			