

Study program: Industrial Engineering		
Course title: Bachelor's thesis		
Professor/assistant: At least three-member commission		
Type of course: compulsory		
ECTS credits: 7		
Pre-requisites: The student must have at least 150 ECTS credits.		
Bachelor's thesis objectives: Systematization of theoretical and practical knowledge gained at the study program and during engineering practice. Making the student adopt ways of making practical engineering decisions.		
Learning outcomes: Ability to apply acquired theoretical knowledge and skills from the study program through practical application in production requirements. Ability to plan, organize and implement a professional engineering project that meets specific initial goals. Ability to present project work through written documentation and oral presentations.		
Syllabus: After collecting 150 ECTS credits, the student can access the preparation of the final paper. Final paper is a student research-practical work in which he/she deals with the practical problem solving and applies methodology of practical research in one of the fields of the study program. The final paper can only be completed by the student after passing all the exams provided by the curriculum of the study program as well as the defence of professional practice. Procedures and forms related to the final paper are given at the college website: http://www.vtsnis.edu.rs/preuzimanje_dokumenata.html The final paper is done from any of professional or professional-applied courses, but it integrates the knowledge and skills from several courses. Lecturer of a selected course is the mentor of the student's final paper. Mentor is an active participant in all phases of the final paper, and if necessary, involvement of the co-mentor from the company (with the professional practice of the student) and other teachers at the college is allowed. In addition to the basic review of the existing literature and / or legal-technical regulations in the chosen area, the final paper should contain at least 2 of the following elements: analytical, budget, project, or experimental aspects. The paper is done on an individual basis, and it is desirable that it is related to the specific knowledge gained during the engineering practice in the organization. Paper implies initial theoretical research in the field, after which the problems and the goals of the final paper are defined. Then the student approaches troubleshooting, calculating, design, etc., to meet the objectives of the paper. Paper needs to be backed up by practical work or experiment, which includes experiment planning, data collection, processing and analysis, as well as written elaboration. After completing the paper, the student submits the written version, which the commission reviews and approves for the oral defense. The presentation of the final paper is open to public.		
Literature		
Number of active classes		Other forms of teaching:
Lectures:	Practical classes: Research work: 45	
Teaching methods Mentoring, Interactive, Practical, Laboratory, Individual Work.		
Grading system (maximum 100 points), grading scale from 5 to 10: below 51 points grade 5, grade 6 from 51-60 points, grade 7 from 61-70 points, grade 8 from 71-80 points, grade 9 from 81-90 points, grade 10 from 91-100 points.		