

UNIVERSITY OF NIŠ

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| Lourse | Unit D | escriptor |

Faculty

Faculty of Mechanical Engineering

NERAL INFORMATION

| Study Program | Mechanical Engineering | | | |
|---|--|--|---|--|
| Study Module (if applicable) | - | | | |
| Course Title | Selected Topics in Welding Technologies | | | |
| Level of Study | Bachelor | □ Master's | 🛛 Doctoral | |
| Type of Course | Obligatory | ⊠ Elective | | |
| Semester | 🛛 Autumn | □ Spring | | |
| Year of Study | 11 | | | |
| Number of ECTS Allocated | 10 | | | |
| Name of Lecturer/Lecturers | Miroslav M. Mijajlović, Dragan S. Milčić, Dušan S. Stamenković | | | |
| | ⊠ Lectures | □ Group tutorials | 🗆 Individual tuto | orials |
| Teaching Mode | Laboratory work | 🛛 Project work | 🛛 Seminar | |
| | □ Distance learning | □ Blended learning | □ Other | |
| Purpose and Overview (max. 5 ser | itences) | | | |
| Adopted knowledge in welding tech to investigate their influence on we | nnologies; To know-how al Ided structures; Applicatio | nd why to use specified on of adopted knowledg | l parameters for wo e and skills on spec | elding technologies also :ified topics. |
| Syllabus (brief outline and summa | ry of topics, max. 10 sent | ences) | | |
| 1) Basics of welding technologies technologies, power supplies for technologies, Manual metal arc w Welding, Oxy-fuel Welding techno and robotics, 5) Welding of polym hard facing, Metallization, Special joints, 9) Health and safety while w | . Theoretical and realisti arc-based welding techno elding, Shielded Metal Ar logies etc, 3) Nonconven lers. Welding of ceramics l technologies, 7) Investi velding. Standards and reg | c model of the weldi ologies, FEA in weldin rc Welding, Tungsten I tional welding technol and composite materi gation of welded joint gulations. | ng process, applic g technologies, 2) nert Gas Welding, logies, 4) Fully aut als, 6) Reparatory ts, 8) Phenomena | ation field of welding Conventional welding Submerged Metal Arc omatized technologies welding, Spraying and of cracking in welded |
| Serbian (complete course) | English (complet) | e course) 🗌 O ^r | ther | (complete course) |

⊠Serbian (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 | 0 | Oral Examination | 50 | | |
| Teaching Colloquia | 50 | Overall Sum | 100 | | |
| *Final examination mark is formed in accordance with the Institutional documents | | | | | |