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|  **UNIVERSITY OF NIŠ** |
| **Course Unit Descriptor** | **Faculty** | Faculty of Technology |
| **GENERAL INFORMATION** |
| Study program  | **TECHNOLOGICAL ENGINEERING** |
| Study Module (if applicable) |  |
| Course title | Fibrous polymer composites |
| Level of study | ☐Bachelor ☐ Master’s ☒ Doctoral |
| Type of course | ☐ Obligatory☒ Elective |
| Semester  | ☒ Autumn ☒Spring |
| Year of study  | I |
| Number of ECTS allocated | 8 |
| Name of lecturer/lecturers | Ljubiša Nikolić  |
| Teaching mode | ☒Lectures ☐Group tutorials ☐ Individual tutorials☐Laboratory work ☒ Project work ☐ Seminar☐Distance learning ☐ Blended learning ☐ Other |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** |
| *To introduce students to the types of fibers and polymeric materials for making composites, processes of their production and characteristics and use of composite materials.**To understand the principles of the production of a variety of composite materials, the methods for their production and the methods for characterization.* |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| **Definition and classification of polymer composite materials. Types and properties of fibers for the production of composite materials: glass, carbon, aramid fibers. Types and properties of polymers for the production of polymer composites: thermoplastic and thermosetting polymers. Methods for making and shaping of fibrous polymer composites. Mechanical properties of polymeric composite materials. Application of fibrous polymer composites.** |
| **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** | **10** | **Written examination** |  |
| **Practical teaching** |  | **Oral examination** | **50** |
| **Teaching colloquia** | **40** | **OVERALL SUM** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |