# Incoming student mobility 

## Name of UNIOS University Unit: SCHOOL OF APPLIED M ATHEM ATICS AND INFORM ATICS

## COURSES OFFERED IN FOREIGN LANGUAGE FOR ERASMUS+ INDIVIDUAL INCOM ING STUDENTS

| Department or Chair within the | School of Applied Mathematics and Informatics |
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| Study program | - Undergraduate university study programme in Mathematics <br> and Computer Science |
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|  | Undergraduate university study programme in Mathematics <br> - Graduate Mathematics and Informatics Education Study <br> Programme |


| Study level | Undergraduate (Bachelor) |
| :--- | :--- |


| Course title | Algebra |
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| Course code | M 083 |
| Language of instruction | English |
|  | Course content. <br> 1. Groups. Gruopoid, semigroup, monoid, group. Group <br> homomorphisms and isomorphisms. Finite groups, Lagrange <br> theorem. Normal subgroups and quotient groups, isomorphism <br> theorems. Groups of permutations, action of groups, Cayley <br> theorem. Cyclic groups. Sylow theorems. Solvable groups. |
|  | 2. Rings and module. Rings and ideals. Quotient rings. Ring |
| homomorphisms and isomorphisms. Skew fields and fields. Ring |  |
| of polynomials. Modules and vector spaces. |  |


|  | theorem of Galois theory. Solvability in radicals. |
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| Form of teaching | Consultative teaching. |
| Form of assessment | Attending lectures and exercises is required. The exam consists of <br> written and oral part, and can be taken after completion of lectures <br> and exercises. During the semester students can take preliminary <br> exams that replace written exam. |
| Number of ECTS | $\mathbf{6}$ |
| Class hours per week | $\mathbf{2 + 2 + 0}$ |
| Minimum number of students |  |
| Period of realization | Summer semester |
| Lecturer | Ivan Matić |

