| COURSE TITLE | MATH METHODOLOGY PRAXIS I | | | | | |
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| **Code** | PMM 130 | Year of study | Graduate study, II. year | | | |
| **Lecturer(s)** | Željka Zorić | ECTS credits | 3 | | | |
| Assistants | | Teaching methods (hours per semester) | L | S | E | F |
| | | | 0 | 0 | 30 | 0 |
| Course status | Required course | e-learning % | | | | |

**COURSE DESCRIPTION**

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| Course objectives | • enabling students to prepare, implement and provide a lesson analysis of regular, supplementary and additional classes in elementary and high school math<br>• preparing students for lifelong learning in mathematics education |
| Course prerequisites for enrolment and competency requirements | Prerequisites for this course include previously attended courses Methods of teaching Mathematics I and Methods of teaching Mathematics II. |
| Expected learning outcomes on course level (4-10 learning outcomes) | After finishing the course, students should be able to:<br>• write a math lesson plan on their own<br>• give a lesson according to the principles of teaching mathematics<br>• analyse a lesson<br>• recognize types and structures of lessons specific for elementary and high school mathematics<br>• apply different teaching methods<br>• organize and implement different working methods |
| Detailed course content according to teaching hours | The praxis in Methodology is enacted in selected schools – classroom training, under the expert guidance of teachers/professors – teacher-practitioners (mentors). During the praxis, students will<br>• acquaint themselves with elementary and high school teaching organization<br>• acquaint themselves with legal regulations in Croatian education (related laws and rulebooks, school statute etc.)<br>• acquaint themselves with pedagogical documentation<br>• acquaint themselves with operational plans and programs for elementary and high school mathematics<br>• attend classes taught by their mentors (teachers/professors – teacher-practitioners)<br>• prepare, teach and analyse classes, either on their own or with the help of their mentors, where they can apply the knowledge obtained in university methodology course<br>• give a trial lesson in front of their praxis instructor<br>• write a detailed written lesson plan for each lesson<br>• keep a journal of hosted classes with the analyses and structures of classes they attended<br><br>Students will perform the praxis in groups of maximum 3 members. |
| Types of teaching methods | ☐ lectures<br>☐ seminars and workshops<br>☐ exercises<br>☐ entirely *online*<br>☐ e-learning, combination<br>☐ field work<br>x☐ individual tasks<br>x☐ multimedia<br>☐ laboratory<br>x☐ mentorship<br>x☐ consultancy<br>x☐ praxis |
| Student obligation | • attending mentor's classes<br>• trial classes<br>• fellow students' trial classes<br>• test class<br>• fellow students' test classes |

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| | • class analysis | | | | | |
| Monitoring students practice *(enter ECTS credits for each activity so that total ECTS credits correspond to subject scores)* | Attendance | 1 | Research | | Praxis | |
| | Experiments | | Paper | | Trial classes | 1,5 |
| | Essay | | Report | | Written lesson plans | 0,5 |
| | Preliminary exam | | Oral exam | | (fill in) | |
| | Written exam | | Project | | (fill in) | |
| Evaluation and assessment of student performance in the course and on the final exam | Students who have successfully finished the praxis and got a passing grade from their mentor (teacher/professor – practitioner) as well as passing grades for their journal, written lesson plans for each class and a trial class, have the right to obtain the signature.<br>Students with the right to the signature have their grade formed according to their mentor's grade (praxis activity, attendance, attitude towards teaching, individual trial classes) (40%), grades for each written lesson plan (15%) and trial class grade (45%). | | | | | |

| Obligatory literature (available in the library or through other media) | **Title** | **Number of copies in the library** | **Availability through other media** |
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| | Teaching plans and programs for elementary and high school math, Ministry of Science, Education and Sports, Croatia | | |
| | Current textbooks for elementary and high school math, as well as manuals for teachers | | |
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| Additional literature | Other specific-methodological literature facilitating the preparation of lesson plans (hard copy or e-books) |
| Quality monitoring methods that enable the achievement of course objectives | During the last week of the course in an anonymous survey students will evaluate the quality of the classes. At the end of each semester students will be provided with an analysis of their performance on previous semester trial classes. |
| Other (in the opinion of the proposer) | |