**PRACTICAL WORK SYLLABUS**

**Session 1 [[1]](#footnote-1)**

1. **Information about the program**

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| **1.1** Higher education institution | **Politehnica University Timisoara** |
| **1.2** Faculty [[2]](#footnote-2) / Department [[3]](#footnote-3) | Civil Engineering / Steel Structures and Structural Mechanics |
| **1.3** Field of study (name/code[[4]](#footnote-4)) | Civil Engineering / 10 |
| **1.4** Study cycle/Type of study program [[5]](#footnote-5) | Master / Professional Master |
| **1.5** Study program (name/code/qualification) | Advanced Design of Buildings/10/Master |

1. **Information about discipline**

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| **2.1** Type of practical work[[6]](#footnote-6) | | | Professional Practice 1 | | | | |
| **2.2** Coordinator (holder) of applied activities [[7]](#footnote-7) | | | S.L dr. Ing. Calin Neagu | | | | |
| **2.3** Year of study [[8]](#footnote-8) | 1 | **2.4** Semester | 1 | **2.5** Type ofe evaluation | C | **2.6** Regime of discipline [[9]](#footnote-9) | DS |
| **2.7** Academic year[[10]](#footnote-10) |  | **2.8.** Cod of discipline | M147.24.01.S5 |  |  |  |  |

1. **Total estimated time** (direct practical activities, partially assisted activities)

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| **3.1** Number of hours fully assisted/week | 12.5 |
| **3.2** Total number of hours fully assisted/sem. | 175 |
| **3.3** No. of credits | 7 |

**4. Prerequisites** (where applicable)

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| **4.1** Curriculum |  |
| **4.2** Competencies |  |

**5. Mission of the Practical Work and conditions for its accomplishment**[[11]](#footnote-11)

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| **5.1** Mission | * Practice aims to apply, deepen and consolidate, in a real construction company, the knowledge gained in the disciplines assisted entirely in the curriculum * As a result of the practice, the student acquires practical professional experience (by acquiring specific skills and competences), enlarges his professional contact network, and tests the field in which you are preparing, having an extra chance to find a job * The practice is the transition from the theoretical to the practical approach |
| **5.2** Conditions required to carry out the  practical work | * The practice is based on the practice conventions concluded between the profile companies and the Faculty of Civil Engineering |

**6. Competencies**[[12]](#footnote-12) **acquired through practical work in accordance with the mission**

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| Specific competencies |  |
| Professional competencies ascribed to the specific competencies | * provide instructions to staff; supervise construction projects; provide construction counseling; integrate measures into architectural projects; apply health and safety standardsdraw sketches; utilize CAD software; manage engineering projects; evaluate environmental impact; draft technical reports; apply numerical computing skills; supervise personnel; conduct sample analysis; adapts existing projects to new circumstances; evaluates the integrated design of buildings; conducts scientific research; prepares scientific reports; applies the principles of ethics and scientific integrity in research activities; |
| Transversal competencies ascribed to the specific competencies | * manage financial and material resources; oversee quality control; apply scientific, technological, and engineering knowledge; work in teams; train others; use equipment, tools, or technological equipment accurately |

**7. Objectives of the discipline** (related to the specific competencies presented at point 6)

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| **7.1** The general objective of the discipline | * The purpose of this activity is to ensure the practical training of specialists according to the current demands of the labor market, their familiarization with the industrial environment, the deepening of the knowledge acquired in the university. * The main objective pursued in the professional practice is the integration of students into activities with engineering specifics developed within different companies in the field of study program |
| **7.2** Specific objectives | * The student will participate in design, execution and maintenance activities, research and development in the field of construction |

**8. Topics and activities for practical work**[[13]](#footnote-13)

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| **8.1** Topics for practical work | |
| Professional practice in the field of study program companies | |
| **8.2** Type of activities | **8.3** Duration |
| General Description of the company: field of activity.  Description of the company's activities: design / research / consultancy / technical assistance or execution / maintenance in the field of study program  Safety  Presentation of case studies  Final conclusions | 175 |

**9. Student’s assignments**[[14]](#footnote-14)

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| To observe the working hours, making a total of 175 hours, and all internal regulations of the company  Working in the company, according to job description, to solve specific problems  To draft the practice documents |

**10. Evaluation**

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| **10.1** Evaluation criteria | **10.2** Evaluation methods | **10.3** Share of the final grade |
| Practice documents completed: certificate practice, tutor assessment and CDS | Colloquium / oral presentation | 100% |
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| **10.4** Minimum performance standard (minimum amount of knowledge necessary to pass the discipline and the way in which this knowledge is verified [[15]](#footnote-15)) | | |
| * Completing the practice book | | |

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| **Date of approval in the Faculty Council [[16]](#footnote-16)** | | **Date of completion** | |  | |
| 14.11.2024 | | 15.11.2024 | |  | |
| **Dean**  **(signature)** | | **Head of Department**  **(signature)** | | **Coordinator of applied activities**  **(signature)** | |
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1. In case the curriculum stipulates more practical work sessions, the following shall be written down accordingly: *Session 1*, *Session 2*,... . *Sole session* shall be written in case the curriculum stipulates only one practical work session. [↑](#footnote-ref-1)
2. The name of the faculty which manages the educational curriculum to which the Practical Work discipline belongs to. [↑](#footnote-ref-2)
3. The name of the department entrusted with the monitoring and evaluation of the Practical Work discipline. [↑](#footnote-ref-3)
4. Fill in he code provided in HG - on the approval of the Nomenclature of fields and specializations / study programs, annually updated. [↑](#footnote-ref-4)
5. In accordance with the ARACIS specific Standards, the master program can be referred to as *professional master* or *research master*. [↑](#footnote-ref-5)
6. The type of Practical Work in the syllabus shall be set up in accordance with the type of the master program, under the ARACIS specific Standards for master studies. [↑](#footnote-ref-6)
7. The name of the academic staff entrusted with the monitoring and evaluation of the Practical Work discipline. [↑](#footnote-ref-7)
8. The year of study to which the discipline is provided in the curriculum. [↑](#footnote-ref-8)
9. Discipline may have one of the following regimes: imposed discipline (DI) or compulsory discipline (DOb)-for the other fundamental fields of studies offered by UPT. [↑](#footnote-ref-9)
10. The academic year shall be aligned to the section in the discipline code. E.g.: the Mxxx20.yy.z.ww code for the Practical Work discipline indicates the 2020/2021 academic year. [↑](#footnote-ref-10)
11. Entries 5.1 and 5.2 must be filled in. The requested information shall be extracted from the Faculty Council’s Regulations concerning practical work, drawn up in accordance with the Politehnica University of Timisoara’s Practical Work Regulation. The conditions required for the accomplishment of the practical work shall specify *the locations where the practical work can be carried out as well as the working conditions at these locations*. [↑](#footnote-ref-11)
12. The specific competencies must encompass the objectives of the Practical Work discipline. They must comprise only the professional and transversal competencies of the curriculum which are ascribed to the specific competencies. [↑](#footnote-ref-12)
13. The types of activities and their duration shall be summarised in accordance with the Faculty Council’s Regulations under the Politehnica University of Timisoara’s Practical Work Regulation and the specialisation’s specific requirements. [↑](#footnote-ref-13)
14. The student’s duties shall be summarised in accordance with the Faculty Council’s Regulations under the Politehnica University of Timisoara’s Practical Work Regulation. [↑](#footnote-ref-14)
15. The conditions underlying the earning of a passing grade shall not be explained; only the results underlying the earning of a minimum grade shall be specified. [↑](#footnote-ref-15)
16. The approval is preceded by the discussion in the Faculty Council of the study program’s board’s point of view concerning the Practical Work syllabus. [↑](#footnote-ref-16)