### Course program for the first, second and third level (cycle) of studies

1. **Course title**: Fluid Mechanics  
   
2. **Code**: 207  
   
3. **Study group(s)**: PE, TML, TE, HEWM, MJSE, IEM, MV, EE, MecH, ACS  
   
4. **The organizer of the study program** (unit, institute, department):  
   Faculty of Mechanical Engineering - Skopje, Ss. Cyril and Methodius University in Skopje  
   
5. **Level (first, second, third)**: First  
   
6. **Academic year / semester**: summer  
   
7. **ECTS credits**: 6  
   
8. **Instructor**:  
   prof. d-r Valentino Stojkovski  
   assoc. prof. d-r Zoran markov  
   ass. prof. d-r Ana Lazarevska  
   
9. **Prerequisites**: Mathematics 2 – passed  
   
10. **Course objectives (competences)**:  
    Study of physical properties of the fluids and theoretical basics of the fluid statics and dynamics. Solving the systems with fluid flow. Settings and solving of the models of one- and multi-dimensional flows. Ability to solve a elementary practical problems in hydraulics.  
   
11. **Course content**:  
   
12. **Study methods**: interactive lectures, auditory practice and/or laboratory practice, self running and/or team work projects, self learning  
   
13. **Total hours**:  
    6 ECTS x 30 hours = 180 hours  
   
14. **Hours allocation per activity**:  
    30 + 45 + 30 + 15 + 60 = 180 hours  
   
15. **Lectures/Lab**:  
    15.1. Lectures 30 hours  
    15.2. Lab (student work) 45 hours  
   
16. **Project Work/Assignments**:  
    16.1. Project assignments 30 hours  
    16.2. Individual assignments 15 hours  
    16.3. Self-study 60 hours  
   
17. **Points/Marks**:  
    17.1. Tests 80 points  
    17.2. Projects 10 points  
    17.3. Attendance 10 points  
   
18. **Grading scale**:  
    Under 50 5 (five) (F)  
    51 - 60 points 6 (six) (E)  
    61 - 70 points 7 (seven) (D)  
    71 - 80 points 8 (eight) (C)  
    81 - 90 points 9 (nine) (B)  
    91 - 100 points 10 (ten) (A)  
   
19. **Prerequisites for taking the final exam**  
   
20. **Language of Instruction**: Macedonian  
   
21. **Course evaluation**: Student questionnaire  
   
### Textbooks  

#### Instruction materials  

<table>
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<th>No.</th>
<th>Author</th>
<th>Title</th>
<th>Publisher</th>
<th>Year</th>
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<tbody>
<tr>
<td>1.</td>
<td>Т. Бундалевски</td>
<td>Механика на флуиди</td>
<td>MB-3, Скопје</td>
<td>1995</td>
</tr>
<tr>
<td>2.</td>
<td>М. Мирчевски</td>
<td>Збирка задачи – хидростатика и аеростатика</td>
<td>ПГД Ваша Книга-Скопје</td>
<td>2002</td>
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### Supplemental Instruction Materials

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