**Chemical and Balance Calculations - Syllabus**

1. Units and quantities in chemistry

2. Composition of mixtures

3. Preparation of solutions

4. Dilution and mixing of solutions, mass balance of solutions

5. 1st test

6. Saturated solutions, free crystallization

7. Crystallization in motion, mass balance at crystallization

8. 2nd test

9. Stoichiometric calculations; conversion, yield or loss of a reaction

10. Stoichiometric calculations for gaseous state; the state equation of ideal gas

11. 3rd test

12. Complex calculations focused on tasks solved in the follow-up laboratory course

13. Repetition of unsuccessful tests; consultation with students; practice of selected tasks

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