

TECHNICAL PHYSICS I

Timetable of the laboratory exercises
Summer semester 2024/25

<u>week pair</u>	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.
1	introd.	1.1	2	3	4	5.1+6	5.2	5.3	8	9	10	spare	concl.
2	introd.	1.1	2	3	4	5.2	5.3	8	9	10	5.1+6	spare	concl.
3	introd.	1.1	2	3	4	5.3	8	9	10	5.1+6	5.2	spare	concl.
4	introd.	2	1.1	4	3	8	9	10	5.1+6	5.2	5.3	spare	concl.
5	introd.	2	1.1	4	3	9	10	5.1+6	5.2	5.3	8	spare	concl.

1 – Measurement of the radius of curvature of a spherical lens.

2 – Measurement of an area of irregular shape by the polar planimeter.

3 – Measurement of the density of the liquids.

4 – Measurement of the coefficient of viscosity of the liquid by the Stokes method.

5 – Measurement of the moment of inertia by the physical pendulum.

6 – Measurement of the moment of inertia by the torsional pendulum.

8 – Measurement of the shear modulus of the material by the static method.

9 – Measurement of the elasticity of solids. Determination of the tensile strength and Young modulus.

10 – Measurement of the expansion of metal due to temperature. Determination of the coefficient of expansion.

Sources:

<https://www.sjf.stuba.sk/english/institutes/institute-of-mathematic-and-physics/education.html>