



# Measurement of angular velocity and torque

## *3. measurement*

**Name, Neptun code:** .....

**Measurement staff:**

.....  
.....  
.....  
.....

**Location:** .....

**Date:** .....

**Signature:** .....

**1. Aim of the measurement:**

.....  
.....  
.....

**2. Short description of the measurement process:**

.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....

**3. Sketch of the measurement rig:**

#### 4. Formulae for processing the measured data:

- Voltage:
- Current:
- Electric power:
- Angular velocity:
- Torque:
- Mechanical power:
- Load:
- Efficiency:
- Power loss:

#### 5. List of equipment used during the measurement:

- Balance motor / dynamo ( appropriate should be underlined )
  - type:
  - serial no.:
  - $k =$  m
  - $m_0 =$  kg
  - $P_I =$  W
- Tool for measuring the voltage
  - analogue / digital
  - type:
  - serial no.:
  - scale: V/division
- Tool for measuring the current
  - analogue / digital
  - type:
  - serial no.:
  - scale: A/division
- Tool for measuring the speed of rotation
  - type:
  - serial no.:

**7. Summary of the measurement** (*in a couple of sentences*)

.....  
.....  
.....  
.....  
.....

**8. List of attachments:**

.....



### 6. Processing the measurement:

# of meas. point	Measurement				Evaluation								
	n	U'	I'	m	$\omega$	U	I	P <sub>el</sub>	M	P <sub>mech</sub>	x	$\eta$	P <sub>loss</sub>
	1/min	div.	div.	kg	rad/s	V	A	W	Nm	W	-	-	W
1.													
2.													
3.													
4.													
5.													
6.													
7.													
8.													
9.													
10.													