

SS 2023

## Measurement Instrumentation Lab

Place:	Building 40.32 and 40.33
Time:	Monday - Thursday 13:30 – 16:00 or 16:00 – 18:30
Start:	May 08, 2023
End:	July 27, 2023
Requirement:	Knowledge of the lecture <i>Introduction to Measurement and Control</i>
Registration:	On the Internet at <a href="http://www.mrt.kit.edu">www.mrt.kit.edu</a> <b>Time: April 3 (10:00) – April 24, 3 (24:00)</b> The number of participants is limited to <b>40</b> . Following registrations are collected on a waiting list. In case of great demand, the maximum number of participants may be increased. After successfully registering for the Lab on our website, the <b>exam of this Lab must also be registered in the CAS system of KIT.</b> Group Distribution: May 02, 2023 on the Internet It is not possible to change groups during the semester.
Experiment instructions:	From the beginning of the Lab online

## Experiments

<b>A</b>	<b>Signal recording</b>
A1	Measurement of temperature
A2	Measurement of lengths
<b>B</b>	<b>Signal pre-processing</b>
B1	Bridge circuit and measurement principles
B2	Analog/digital transducers
<b>C</b>	<b>Signal processing</b>
C1	Measurement of stochastic signals
<b>D</b>	<b>Complete systems</b>
D1	System identification
D2	Inverse pendulum
D3	Mobile robot platform