

Thematics of teachers' robotics training
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robotic content	new programming content
The Studuion software <ul style="list-style-type: none"> parts and functions of the user interface 	blocks, palettes
DC motor <ul style="list-style-type: none"> Simple movements forward, backward, turning with different power, turning with different direction of motor rotation simple correogrphy driving along a concrete route 	DC motor bocks wait pick random
Touch sensor <ul style="list-style-type: none"> test mode – how it detects touching (0,1) simple program that starts when Touch sensor is pushed start a movement when T.s. is pushed and finish it when pushed again moving robot with a „remote control” of 4 touch sensors, usage of extension cable 	forever if, building the condition wait until
LED <ul style="list-style-type: none"> Connecting and programming LED-s Blinking with 1 LED and with 2 LED-s Lighting and movements, blinking and movements 	port settings LED block repeat
Buzzer <ul style="list-style-type: none"> simple sound signs sound of a car with siren simple tones building a piano 	buzzer blocks
IR photoreflector <ul style="list-style-type: none"> testing, understanding it's way of operation reacting on obstakle near to the robot avoiding obstacle stopping at a line line tracing staying inside a circle 	forever if, if else, building the condition wait until repeat until
Servo motor <ul style="list-style-type: none"> technical notes (angles of the motor, calibration, how one can damage it, some building possibilities) testing the servo motor programming the servo motor some example: animals (heads, tails), figures' arms, gates, catapult, barrier, etc. 	servo motor blocks
Light and Sound sensor <ul style="list-style-type: none"> testing, understanding it's way of operation similarities to IR photoreflector robot starts when clapping robot reacting on the intensity of sound (eg. the more sound intensity more LED to be turned on) Light sensor built in into a ramp or truck 	forever if, if else, building the condition wait until repeat until