**List of tasks for exercises in basic pneumatics**

Task 1 – Direct control of single acting pneumatic motor (cylinder)

Task 2 – Direct control of single acting pneumatic motor with detent switch

Task 3 – Direct control of single acting pneumatic motor with push buton

Task 4a – Double acting pneumatic motor application

Task 4b - Single acting pneumatic motor application

Task 5 – Double acting pneumatic motor control with bistable valve

Task 6 – End senzors application

Task 7a – Two places control (double acting pneumatic motor, bistable valve, forvard movement: OR of two pushbuttons, backward movement: end sensor)

Task 7b – Four places control (double acting pneumatic motor, bistable valve, forvard movement: OR of four pushbuttons, backward movement: end sensor)

Task 8 – OR function application – sequential task (memory with dominant Reset?)

Task 9 – AND function application (doubleacting pneumatic motor, bistable valve, backward movement: forward position end sensor)

Task 9b - AND function application (doubleacting pneumatic motor, bistable valve, backward movement: forward position end senso, pneumatic motor initial position checking through end sensor)

Task 10 – Pneumatic motor speed control (setting) (forvard and backward movement)

Task 11 – One way flow control valve and Quit exhaust valve application (decresing and increesing of the nominal pneumatic motor movement speed)

Task 12 – AND, OR, speed control (setting) (2 pneumatic motors; doubleacting pneumatic motor: indirect kontrol, bistable valve, forvard movement-OR of two push buttons, backward movement – AND of pushbutton and end senzor of the initial position of the singleacting pneumatic motor; single acting pneumatic motor: direct control, forward movement / AND of the pushbutton and forward end position of the doubleacting pneumatic motor)

Task 13 – 5/3 valve, midposition closed application (the diference 5/3 and 5/2 valves)