2017

JANUARY
S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

FEBRUARY
S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28				

MARCH
S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

APRIL
S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						

MAY
S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

JUNE
S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

Legend:
- Lectures
- Labs
- Examination Week
- Easter

15 Lectures + 14 Lab Sessions

Theory Starts	2/10/2016
Easter	10-17 Apr
LAB0: ROS intro (rosbags, rosrun, packages, rviz, rqt...)	16-Feb
LAB0: ROS intro (rosbags, rosrun, packages, rviz, rqt...)	23-Feb
LAB1: Turtlebot intro	9-Mar
LAB2: Line extaction Python + RViz	16-Mar
LAB3: MCL localization turtlebot	23-Mar
LAB3: MCL localization turtlebot	30-Mar
LAB4: EKF localization turtlebot	6-Apr
LAB4: EKF localization turtlebot	20-Apr
LAB4: EKF localization turtlebot	27-Apr
LAB5: SLAM turtlebot	4-May
LAB5: SLAM turtlebot	11-May
LAB5: SLAM turtlebot	18-May
DEMO	25-May

#		
1	Course-Presentation & Introduction (until Slide 16) 2h	8-Feb
2	Introduction (30 slides) (until Slide 30) - 2 h	15-Feb
3	Bayes Filter (24 slides) - 2h	22-Feb
4	Grid Localization (30 slides) 2h	1-Mar
5	Montecarlo Localization (32 slides) 2h	8-Mar
6	EXERCICES	15-Mar
7	Gaussian Filters KF-EKF (48 slides) 2h	22-Mar
8	Gaussian Filters KF-EKF (48 slides) 2h	29-Mar
9	EKF Map Based Localization (23 slides) 2h	5-Apr
	EASTER	12-Apr
10	EKF Map Based Localization (23 slides) 2h	19-Apr
11	EKF SLAM (35 slides) 2h	26-Apr
12	EKF SLAM (35 slides) 2h	3-May
13	EXERCICES	10-May
14	BACKUP CLASS / EXERCICES	17-May
15	BACKUP CLASS / EXERCICES	24-May

Lab	Date	Lab Assistant	Deadline	Pre-lab
LAB0: ROS intro (rosbags, rosrun, packages, rviz, rqt...)	16Feb	Josep + Guillem	-	Install Ubuntu 16.04 + ROS hydro
LAB0: ROS intro (rosbags, rosrun, packages, rviz, rqt...)	23Feb	Josep + Guillem	27-Feb	-
LAB1: Turtlebot intro	9Mar	Albert	13-Mar	Install Turtlebot Packages
LAB2: Line extaction Python + RViz	16Mar	Josep	20-Mar	line representation & distance to line
LAB3: MCL localization turtlebot	23Mar	Josep	-	prediction equations
LAB3: MCL localization turtlebot	30Mar	Josep	3-Apr	-
LAB4: EKF localization turtlebot	6Apr	Guillem	-	polarline world2robot
EASTER				
LAB4: EKF localization turtlebot	20Apr	Guillem	-	-
LAB4: EKF localization turtlebot	27Apr	Guillem	1-May	-
LAB5: SLAM turtlebot	4May	Albert	-	state augmentation equation
LAB5: SLAM turtlebot	11May	Albert	-	-
LAB5: SLAM turtlebot	18May	Albert	22-May	-
DEMO	25May	All	29-May	-