4.8.2020

JUNE 2018

09 Saturday

Week 23
160-205

ROBOTICS: DYNAMICS AND CONTROL

TAUGHT BY

- prof. spandan roy
- prof. abhishek sarkar

COURSE TOPICS

1. rotation & translation kinematics
2. homogeneous transformation, forward and inverse kinematics
3. jacobian
4. dynamics
5. inverse dynamics control for robots
6. lyapunov stability theory
7. robust control design for robots
8. quadrotor dynamics
9. linear control system design
10. controller design for quadrotor.

JUN 2018	S	M	T	W	T	F	S
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	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

TEXTBOOKS

1. robot modeling and control ; spong.
2. modeling and control of robot manipulators ; sciavicco. (2012)
3. applied non-linear control ; slotine.
4. quad rotorchaft control ; carrillo.
5. modern control engineering ; ogata.
6. theory of applied robotics : kinematics, dynamics, and control ; jazar. (2010)