

MATA KULIAH : Robotika
KODE MATA KULIAH : PTE8223
BEBAN KREDIT : 2 SKS
SEMESTER : 1
JUMLAH PERTEMUAN : 16 X Pertemuan
DOSEN PENGAMPU :

DESKRIPSI MATAKULIAH

Deskripsi:

Kuliah Robotika membahas tentang manipulator dan mobile robot. Pada bagian awal dibahas tentang manipulator kinematics, dynamics, dan motion planning. Selanjutnya dibahas tentang manipulator control. Pada bagian kedua, dibahas mengenai mobile robot sensors, locomotion, kinematics, dan motion control. Berikutnya, dibahas tentang mobile robot localization, robot path planning, dan navigation.

Bahan kajian/Topik:

- [1] Pengenalan robotika;
- [2] Manipulator kinematics, dynamics and motion planning;
- [3] Manipulator control;
- [4] Mobile robot sensors, locomotion, kinematics, and motion control;
- [5] Mobile robot localization; 6. Mobile robot planning and navigation

Referensi :

- [1] Roland Siegwart, Illah R. Nourbakhsh, and Davide Scaramuzza, Introduction to Autonomous Mobile Robots, The MIT Press, 2011;
- [2] Farbod Fahimi, Autonomous Robots: Modeling, Path Planning, and Control, Springer Science+Business Media LLC, 2009; [3] Thomas R. Kurfess, Robotics and automation handbook, by CRC Press LLC, 2005