Course Outline

MTRN4230

Robotics

After successfully completing this course, you should be able to:

4. Course schedule

Date	Topic / Lecture Content	Location	PSS Content	Lab Content	Textbook sections (C = Corke book, S = Spong book)
Week 1 29/02/2016	Overview of course, Introduction to Robotics, Definitions and Classification, Safety	TETB G16	-	-	C1, S1.1-1.3
Week 2 07/03/2016	Kinematics 1: Coordinate Frames & 2-link Kinematics. Homogeneous Transformations	TETB G16	Introduction	Robot cell safety training and test	C2, C7.1-7.2, S2

5 Assessment

Assessment

All details of assessment tasks will be found on Moodle (link below). Team evaluation (such as WebPA) will be used to evaluate the contributions of peers to the two group projects. The remaining assessments are to be completed individually.

Assignments

Presentation

All submissions must be made through Moodle and may require uploading of your code when directed in the assignment description. No school cover sheets are required, however reports should include a title page containing your name and student number.

All submissions are expected to be neat and clearly set out. Your results are the pinnacle of

Additional References:

Spong M., Hutchinson S. and Vidyasagar M., Robot Modeling and Control, 2006, John Wiley & Sons.
This text is a classic in robotics, and contains well-presented derivations of the theoretical

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