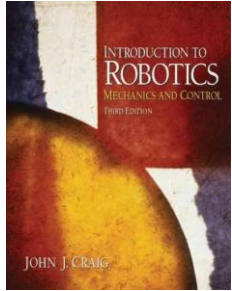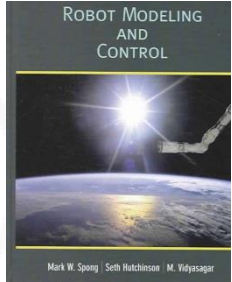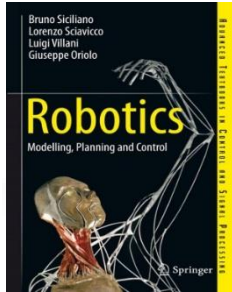# Lecture 0:
Lesson Plan

Robotics

Hamed Ghafarirad

1

Outlines

- ❖ Introduction

- ❖ Spatial Descriptions and Transformations

- ❖ Kinematics; Forward & Inverse

- ❖ Jacobians: Velocities and Static Forces

- ❖ Dynamics

References

1	Introduction to Robotics: Mechanics and Control	J.J. Craig	
2	Robot Modeling and Control	M.W. Spong, S. Hutchinson, M. Vidyasagar	
3	Modelling and Control of Robot Manipulators	L. Sciavicco B. Siciliano	

Evaluation

1	Midterm Exam	30 %	6 Points
2	Final Exam	35 %	7 Points
3	Projects	20 %	4 Points
4	Homework	10 %	2 Points
5	Quiz	5 %	1 Point

The END

- **References:**
1) …