

## ADVANCED KINEMATICS & DYNAMICS OF MACHINES

### NPTEL LINKS FOR VARIOUS LECTURES

#### UNIT-I

##### **Kinematics of plan and complex mechanism:**

- <http://nptel.ac.in/syllabus/112104121/>
- [http://nptel.ac.in/courses/112104118/lecture-12/12-3\\_euler\\_eqn\\_motion.htm](http://nptel.ac.in/courses/112104118/lecture-12/12-3_euler_eqn_motion.htm)
- <http://nptel.ac.in/courses/105104098/TransportationII/mod-2-lec-5/5-3.htm>

#### UNIT-II

##### **Synthesis of plane mechanism:**

- <http://nptel.ac.in/syllabus/112104121/>
- <http://nptel.ac.in/courses/112104121/5>
- <http://nptel.ac.in/courses/Webcourse-contents/IIT-Delhi/Kinematics%20of%20Machine/site/mod6/02.htm>
- <http://nptel.ac.in/courses/Webcourse-contents/IIT-Delhi/Kinematics%20of%20Machine/site/mod6/01.htm>

#### UNIT-III

##### **Kinematics synthesis of advance topics:**

- <http://nptel.ac.in/courses/112104121/19>
- [www.nptel.ac.in/courses/112101096/download/lecture-2.pdf](http://www.nptel.ac.in/courses/112101096/download/lecture-2.pdf)

#### UNIT-IV

##### **Dynamics of mechanism:**

- [www.nptel.ac.in/courses/112101096/download/lecture-2.pdf](http://www.nptel.ac.in/courses/112101096/download/lecture-2.pdf)
- <http://www.nptel.ac.in/syllabus/115103080/>
- [www.nptel.ac.in/courses/106105080/pdf/M7L1.pdf](http://www.nptel.ac.in/courses/106105080/pdf/M7L1.pdf)
- <http://nptel.ac.in/courses/108103008/12>

#### UNIT-V

##### **Balancing of linkage:**

- <http://nptel.ac.in/courses/112104114/>
- <http://nptel.ac.in/courses/112103024/43>
- <http://nptel.ac.in/courses/112104114/11>

## **UNIT-VI**

### **Machine turbines:**

- <http://nptel.ac.in/courses/112104117/>
- <http://nptel.ac.in/courses/112103022/6>
- <http://nptel.ac.in/courses/112103111/24>

## **UNIT-VII**

### **Kinematics analysis of industrial robots:**

- [www.nptel.ac.in/courses/112108093/module3/lecture.pdf](http://www.nptel.ac.in/courses/112108093/module3/lecture.pdf)
- <http://nptel.ac.in/courses/105106049/lecnotes/mainch3.html>