


MANJARA CHARITABLE TRUST
RAJIV GANDHI INSTITUTE OF TECHNOLOGY, MUMBAI
 (Permanently Affiliated to University of Mumbai)
DEPARTMENT OF MECHANICAL ENGINEERING

Online Learning Resource Material

Learning resource material (YouTube Videos) developed by the faculty members for the entire student community.

Prof. Parmeshwar Paul - <http://www.youtube.com/@kpacademy5855>
 Prof. Chetan Rane - <http://www.youtube.com/@qualityeducationwithchetan8805>
 Prof. Mukund Valse- <http://www.youtube.com/@mukundvalse1157>
 Prof. Rehan Siddiqui- <http://www.youtube.com/@Mechastinator>

NPTEL Videos for Every Subjects

SEM-III

Subjects	Link
Engineering Mathematics-III	https://nptel.ac.in/courses/111/104/111104085
Strength of Materials	http://www.nptelvideos.in/2012/11/strength-of-materials-prof.html
	https://swayam.gov.in/nd1_noc20_ce34
Production Processes	https://nptel.ac.in/courses/112/107/112107219/
Materials and Metallurgy	https://nptel.ac.in/noc/courses/noc20/SEM1/noc20-mm09/
Thermodynamics	https://nptel.ac.in/courses/112/105/112105266/

SEM-IV

Subjects	Link
Engineering Mathematics-IV	https://nptel.ac.in/courses/111/105/111105041/
Fluid Mechanics	https://nptel.ac.in/courses/112/105/112105269
	https://swayam.gov.in/nd1_noc20_ce59/preview
Kinematics of Machinery	https://nptel.ac.in/courses/112/105/112105268/

	http://www.nptelvideos.in/2012/12/kinematics-of-machines.html
CAD/CAM	https://www.youtube.com/watch?v=2cCMty9v3Tg
Industrial Electronics	https://nptel.ac.in/courses/108/108/108108122/

SEM-V

Subjects	Link
Mechanical Measurements and Controls	https://nptel.ac.in/courses/112/103/112103261/
Thermal Engineering	https://nptel.ac.in/courses/112/101/112101097/
Dynamics of Machinery	https://nptel.ac.in/courses/112/101/112101096/
Finite Element Analysis	https://nptel.ac.in/courses/112/104/112104193/
Optimization Techniques	https://nptel.ac.in/courses/112/101/112101298/

SEM-VI

Subjects	Link
Machine Design	https://nptel.ac.in/courses/112/105/112105124/
Turbo Machinery	https://nptel.ac.in/courses/112/106/112106303/
Heating, Ventilation, Air Conditioning and Refrigeration	https://nptel.ac.in/courses/112/107/112107208/
Automation and Artificial Intelligence	https://nptel.ac.in/courses/112/103/112103174/
Metal Forming Technology	https://nptel.ac.in/courses/112/107/112107250/

SEM-VII

Subjects	Link
Design of Mechanical System	https://onlinecourses.nptel.ac.in/noc22_me62
Logistics and Supply Chain Management	https://onlinecourses.nptel.ac.in/noc22_mg74/preview
Automotive Power Systems	https://nptel.ac.in/courses/107106088
Renewable Energy Sources	https://nptel.ac.in/courses/103103206

Machinery Diagnostics	https://nptel.ac.in/courses/112105232
Industrial Skills	https://nptel.ac.in/courses/109101017

Virtual Labs

Subjects	Link
Fluid and Thermal Sciences	https://mfts-iitg.vlabs.ac.in/
Heat & Thermodynamics	https://vlab.amrita.edu/index.php?sub=1&brch=194
Automotive Systems	http://vlabs.iitkgp.ernet.in/rtvlas/
Dynamics of Machine	https://dom-nitk.vlabs.ac.in/List%20of%20experiments.html
Mechanical Vibrations	https://mv-iitg.vlabs.ac.in/
Professional Communication	http://vlabs.iitb.ac.in/vlabsdev/labs/communication/
Fluid Mechanics	http://fm-nitk.vlabs.ac.in/
Refrigeration and Air conditioning	http://vlabs.iitb.ac.in/vlabsdev/labs/mit_bootcamp/refrigeration/index.php
Industrial Automation	http://ial-coep.vlabs.ac.in/