



School of Mechanical Engineering
Innovations in Teaching and Learning

Title	Title of the Course	Name of the faculty	Type and Medium for Public use	No. of views
Engineering Mechanics for UG Students (88 Videos)	Engineering Mechanics	Dr. Sakthivel P	https://www.youtube.com/@sakthivelp5894/playlists	31925
Vehicle Dynamics for UG Students (49 Videos)	Vehicle Dynamics	Dr. Sakthivel P	https://www.youtube.com/@sakthivelp5894/playlists	
Vehicle Crashworthiness for PG/Industry, R & D professionals (28 Videos)	Vehicle Crashworthiness	Dr. Sakthivel P	https://www.youtube.com/@sakthivelp5894/playlists	
Graphical Synthesis Methods	Mechanics of Machines	Dr S Renold Elsen	https://www.youtube.com/watch?v=WMtxoEbYKEU	9057
CAM profile for offset knife edge follower	Mechanics of Machines	Dr S Renold Elsen	https://www.youtube.com/watch?v=m3A5IY2e5UA	7197
Velocity and Acceleration diagram of Whitworth mechanism	Mechanics of Machines	Dr S Renold Elsen	https://www.youtube.com/watch?v=I2-Qg-nA3cg	2077
CAM Profile of Roller Follower with offset	Mechanics of Machines	Dr S Renold Elsen	https://www.youtube.com/watch?v=pDuSa0NGMqg	2252
NDT Eddy current testing - To measure coating thickness	Non-Destructive Testing	Dr S Renold Elsen	https://www.youtube.com/watch?v=g0EUCkKIDb0	7296



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NDT Eddy current testing - Flaw testing	Non-Destructive Testing	Dr S Renold Elsen	https://www.youtube.com/watch?v=bn0V2D89TXk	874
NDT Eddy's current testing	Non-Destructive Testing	Dr S Renold Elsen	https://www.youtube.com/watch?v=QOIqpG40oaM	62878
Mohr's Circle for the strains -1	Strength of Materials	Dr Akash Mohanty	https://www.youtube.com/watch?v=RyiF3uqGREI	168
Mohr's Circle for the strains -2	Strength of Materials	Dr Akash Mohanty	https://www.youtube.com/watch?v=gIoFuS37s5s	156
Thin Shells	Strength of Materials	Dr Akash Mohanty	https://www.youtube.com/watch?v=KckTsEytIRM	285
Theories of Failure	Strength of Materials	Dr Akash Mohanty	https://www.youtube.com/watch?v=VIZ2_qzhNi0	1296
Mohr's Circle Part I	Strength of Materials	Dr Akash Mohanty	https://www.youtube.com/watch?v=ZUS78BkyOs	2301
Mohr's Circle Part II	Strength of Materials	Dr Akash Mohanty	https://www.youtube.com/watch?v=WRXh6-5zuX8	5726
Mohr's Circle Part III	Strength of Materials	Dr Akash Mohanty	https://www.youtube.com/watch?v=JQJX9oRV9U	864
Theories of Failure	Strength of Materials	Dr Akash Mohanty	https://www.youtube.com/watch?v=VIZ2_qzhNi0	1296
OTTO cycle	IC Engines	Dr Thundil Karuppa Raj	https://www.youtube.com/watch?v=0Dendgiznb8	482



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MAXWELL thermodynamic relations	Thermodynamics	Dr Thundil Karuppa Raj	https://www.youtube.com/watch?v=eiexnNnwm6U	1306
First law of thermodynamics applied to open system	Thermodynamics	Dr Thundil Karuppa Raj	https://www.youtube.com/watch?v=tk50qVDTgAo	675
First law of thermodynamics applied to closed system	Thermodynamics	Dr Thundil Karuppa Raj	https://www.youtube.com/watch?v=B9S4kPN7r_Q	875
Diesel cycle	Thermodynamics	Dr Thundil Karuppa Raj	https://www.youtube.com/watch?v=SIQjTBb-qZI	1054
Ideal gases	Thermodynamics	Dr Thundil Karuppa Raj	https://www.youtube.com/watch?v=5AtDzLS11XY	290
Goal Programming	Engineering Optimization	Dr R.Sudhakarapandian	https://www.youtube.com/watch?v=RopUc-VFCRk	304
Sampling	Statistical Quality Control	Dr R.Sudhakarapandian	https://www.youtube.com/watch?v=RX1EUAHmEGo	310
Time series Models	Industrial Engineering and Management	Dr R.Sudhakarapandian	https://www.youtube.com/watch?v=t01Lt_5ZxiI	416
Crank slider velocity diagram	Kinematics of Machines	Dr. Sridharan K	https://www.youtube.com/watch?v=O8M7d9x4RNM	179



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Four bar velocity diagram	Kinematics of Machines	Dr. Sridharan K	https://www.youtube.com/watch?v=mE6JZeXjqkc	175
Basics of Mechanics	Mechanics of Machines	Dr Manikandan M	https://youtu.be/Z2js1OUauZc	40