

V.S.B. ENGINEERING COLLEGE
DEPARTMENT OF MECHANICAL ENFGINEERING
SUBJECT VIDEO LINKS

SUBJECT	TOPIC	LINK
FM	Introduction and fundamental concepts	http://freevideolectures.com/Course/3501/Fluid-Mechanics-IV
	Introduction to laminar boundary layer	http://freevideolectures.com/Course/3501/Fluid-Mechanics-IV/46
	Comparison of Pelton, Francis and Kaplan Turbines	https://www.youtube.com/watch?v=k0BLOKEZ3KU
	Types of Fluids	https://www.youtube.com/watch?v=mOZ308svOZ0
	Basic laws of fluid mechanics	http://www.nptelvideos.com/video.php?id=1183&c=7
CAD	An Introduction to CAD	http://freevideolectures.com/Course/2362/Computer-Aided-Design-and-Manufacturing
	Virtual realism	https://www.youtube.com/watch?v=Ma58KpqwrQQ
DME	Definition of machine design	https://www.youtube.com/watch?v=nqhyCzrFp1s&list=PLHpC4_VH4uh0bIKMtFg0hXFckep6sBzwi
	Design philosophy	http://freevideolectures.com/Course/2363/Design-of-Machine-Elements-I
	Design of keys and splines	http://freevideolectures.com/Course/2363/Design-of-Machine-Elements-I/15
	Shaft couplings	http://freevideolectures.com/Course/2363/Design-of-Machine-Elements-I/20
	Introduction to Bearings	https://www.youtube.com/watch?v=Mybf-XCA4H4
TE	Basic concept of turbine, velocity diagram	http://www.nptelvideos.com/video.php?id=1187&c=7
	History of refrigeration	http://freevideolectures.com/Course/3508/Refrigeration-and-Airconditioning

	Psychometric process	http://freevideolectures.com/Course/3508/Refrigeration-and-Airconditioning/35
	Fundamentals of I.C engines	https://www.youtube.com/watch?v=9eGgTXfyxbg
	Compounding of steam turbine	https://www.youtube.com/watch?v=DFDyzREVK-Y
HMT	Introduction To Convective Heat Transfer Forced & free Convection	http://www.nptelvideos.com/video.php?id=1186&c=7
	Thermal radiation	http://www.nptelvideos.com/lecture.php?id=15926
	Boiling and condensation	http://www.nptelvideos.com/lecture.php?id=15945
	Heat exchanger	http://www.nptelvideos.com/lecture.php?id=15941
SOM	Theories of failure	http://www.nptelvideos.com/lecture.php?id=15047
	Theorems of elasticity	http://www.nptelvideos.com/lecture.php?id=15051
	Stress strain graph and classification of materials	https://www.youtube.com/watch?v=xQH3MsHHwo
	Types of Beams and types of Loading	https://www.youtube.com/watch?v=LWuEdZPGbI4
	Definition of torsion	https://www.youtube.com/watch?v=awrGg2P5a5c&list=PL4K9r9dYCOoruxHTiu3d2QLzuJwzryyXT
UCM	Advanced machining processes	http://freevideolectures.com/Course/3120/Advanced-Machining-Processes
	Ultrasonic machining processes	https://www.youtube.com/watch?v=iYbd1LLxHq4
	Abrasive cutting	https://www.youtube.com/watch?v=8Hn_UMNqFmQ

	Electric discharge machining	https://www.youtube.com/watch?v=kSIFiWSRpBw
GDJP	Introduction to Gas Dynamics	http://www.nptelvideos.com/lecture.php?id=14871
	Review of wave propagation	http://www.nptelvideos.com/lecture.php?id=14886
	Difference between sub-sonic, super-sonic and Hyper sonic speed	https://www.youtube.com/watch?v=LBJ3tXCjzN0
	Aerospace propulsion	https://www.youtube.com/watch?v=nZmvLNhcK_w&list=PLbMVogVj5nJTCNrek8ZsX1-YOe-O5NVI-
EM	Engineering mechanics-Basics	http://freevideolectures.com/Course/2264/Engineering-Mechanics
	Friction	http://freevideolectures.com/Course/2264/Engineering-Mechanics/7
	Momentum	http://freevideolectures.com/Course/2264/Engineering-Mechanics/16
	Equilibrium	http://freevideolectures.com/Course/2264/Engineering-Mechanics/2
	Moment of inertia-examples	https://www.youtube.com/watch?v=WDdkdC1sFQQ
Robotics	Introduction to robotics	http://www.nptelvideos.com/lecture.php?id=17171
	Industrial robots	http://www.nptelvideos.com/lecture.php?id=17173
	Actuators	http://www.nptelvideos.com/lecture.php?id=17178
	Technologies in robotics	http://www.nptelvideos.com/lecture.php?id=17172
	Dynamic analysis	http://freevideolectures.com/Course/2373/Robotics/24

	Popular application of robots	https://www.youtube.com/watch?v=fH4VwTgfyRQ
DTS	Belt drive	https://www.youtube.com/results?search_query=design+of+belt+drive
	V-belt drive	https://www.youtube.com/watch?v=Q5xj9Z-YPoE
	Wire rope	https://www.youtube.com/watch?v=C9Bo0ksoca4
	Chain drive	https://www.youtube.com/watch?v=uNDGWuxbTnE
	Gear drive	https://www.youtube.com/watch?v=jTfUFQ-sbas
	Clutch	https://www.youtube.com/watch?v=sKPyHs0knvA
	Gear box	https://www.youtube.com/watch?v=gbrHyuyNlxc
	Brake and clutch	https://www.youtube.com/watch?v=2bnRTbzay9Y
M&M	Introduction to Metrology	http://nptel.ac.in/courses/112106179/1
	Linear Measuring Instruments	http://nptel.ac.in/courses/112106179/4
	Measurement of Straightness, Flatness and squareness	http://nptel.ac.in/courses/112106179/17
	CMM Probes and software	http://nptel.ac.in/courses/112106179/38
	Interferometer	http://nptel.ac.in/courses/112106179/30
FEA	Nodes, Elements and Shape functions	http://nptel.ac.in/courses/112104193/3

	1-D Heat conduction with convection effects	http://nptel.ac.in/courses/112104193/31
	Beam Bending	http://nptel.ac.in/courses/105106051/8
	One dimensional Numerical integration	http://nptel.ac.in/courses/105106051/20
	Axis symmetric Triangular Element	http://nptel.ac.in/courses/105106051/37
POM	Evolution of Management Thought	https://www.youtube.com/watch?v=TsZukmeaewc
	Management By Objectives	https://www.youtube.com/watch?v=p8LxBQDPvAQ
	Leadership styles	https://www.youtube.com/watch?v=lqC2cfwIILg
	Organization culture	https://www.youtube.com/watch?v=mtC3sIguqE4
	Motivation	https://www.youtube.com/watch?v=CUyF0YGIA5Y
	Directing	https://www.youtube.com/watch?v=tjy0B-Q9WMU
	Controlling	https://www.youtube.com/watch?v=PHDHITqX5Bg
EE	Concept	https://www.youtube.com/watch?v=Pr9Rti69QZM
	Flow of an economy	https://www.youtube.com/watch?v=kega_QOCvxQ
	Value Engineering Case study	https://www.youtube.com/watch?v=CkezCE3GmeQ
	Cash flow diagrams	https://www.youtube.com/watch?v=teNHcfr50K0

	Replacement Analysis	https://www.youtube.com/watch?v=XWcW1FI-N3A
	Depreciation	https://www.youtube.com/watch?v=AZ9VEc61JyE
EG	Geometric constructions	http://nptel.ac.in/courses/105104148/2
	Orthographic Projection	http://nptel.ac.in/courses/105104148/4
	Projection of Solids	https://www.youtube.com/watch?v=Y6cIGRrqCvc
	Development of Surfaces	https://www.youtube.com/channel/UC0KjIJ7bcyqXgZV8u6IEJiA
	Isometric Projection	http://nptel.ac.in/courses/105104148/13
EMM	Iron-Carbide diagram	https://www.youtube.com/watch?v=5vaYfd0fekI
	Heat treatment process	https://www.youtube.com/watch?v=MoiJSjwjbxS
	Ferrous & Non-Ferrous metals	https://www.youtube.com/watch?v=9qVqDjIYlsE
	Engineering Materials	https://www.youtube.com/watch?v=m911tVXyFp8
	Material Testing	https://www.youtube.com/watch?v=dGT233GsqHE
PPC	Production planning	https://www.youtube.com/watch?v=hfQGHh5NIXI
	Production planning and control -basics	https://www.youtube.com/watch?v=VoRGvZtXuqU
	Inventory management	https://www.youtube.com/watch?v=s15zEPRkp0U
	Production planning process	https://www.youtube.com/watch?v=TIrioDKdsCg

	Production planning and control -basics	https://www.youtube.com/watch?v=yYIVumq6sVM
MT-II	Cutting force analysis	https://www.youtube.com/watch?v=x_4Feo_ETWk
	Automatic turret indexing mechanism	https://www.youtube.com/watch?v=dZiQQQshBQ
	Simple Indexing	https://www.youtube.com/watch?v=MRA6d0fPqgI
	Micromatic Grinding Technologies	https://www.youtube.com/watch?v=Z3z6ZsK27Og
	Latest Technology CNC Machine In The World	https://www.youtube.com/watch?v=QdN1pGbO4Vg
MT-I	Casting Technology By Italpresse And Gauss	https://www.youtube.com/watch?v=cAzyD7Yghy8
	Pipe Welding Technology	https://www.youtube.com/watch?v=FNQ97bzbk-c
	Ford Introduces New Sheet-Metal-Forming Technology Called F3T	https://www.youtube.com/watch?v=iNQ40MYwZqw
	Hybrid Electric Injection Molding Machine By FCS	https://www.youtube.com/watch?v=JegcbrGwUxQ
	Speaking Of The Future: Advanced Manufacturing	https://www.youtube.com/watch?v=KyWuHcvyqD0

ETD	Introduction And Fundamental Concepts	http://freevideolectures.com/Course/2681/Basic-Thermodynamics
	Second law and available energy	http://freevideolectures.com/Course/2681/Basic-Thermodynamics/11
	Laws of thermodynamics	https://www.youtube.com/watch?v=1nECy2s_qEo
	entropy and enthalpy	https://www.youtube.com/watch?v=E5m5H9FXsXU