

Dayanand Science College, Latur

Department of Mathematics

Class: B. Sc. III Year (Sem-V)

Name of Paper: Mechanics I

Sub: Mathematics

Paper No: XIV (MT314)

SRTMUN, SPPU, MU, KUD, AMU, BAMU, NMU, SGBAU etc. Universities

Curriculum

Links of Video Lectures for UG, PG: Dr. Sidheshwar Bellale

Director, Mathematics Research Centre, DSC Latur

Lect. No.	Name of Units / Articles	Video Lecture Link
I	Unit-I	https://www.youtube.com/playlist?list=PL7TANb4Sj71pLT9rJJN1XlDpgv9Lythw2
1	Definitions, law of parallelogram, resultant vector,	https://youtu.be/sdJ2i4ys-7I
2	Magnitude and Direction of Resultant	https://youtu.be/4JHSDXt6Xqg
3	Theorem on Magnitude and Direction of Resultant	https://youtu.be/84GGK_Ax5jA
4	Examples on Resultant of Two Forces	https://youtu.be/4oMGkNKFuFs
5	Magnitude and Direction of Resultant	https://youtu.be/u0CLRrMbcHc
6	Problems on Resultant of two forces	https://youtu.be/CxOU1aEtny8
7	Components of Resolved forces	https://youtu.be/lpQ_hS7Y_po
8	Algebraic Sum of Resolved Parts	https://youtu.be/UKppWcvWttM
9	Magnitude and Direction of Resultant of n Forces	https://youtu.be/y7SlEw-vlw0
10	Examples Resolved parts	https://youtu.be/_Arpli4pA-s
11	Examples on Resolved Parts	https://youtu.be/3MNKr208Ofg
12	Examples on Resolved Parts	https://youtu.be/3Jirj-nQU5c
13	Examples on Resolved Parts	https://youtu.be/86I76IqigGk
14	Resultant of Parallel Forces	https://youtu.be/tXGfOJAQJXo
14 B	Resultant of Parallel Forces	https://youtu.be/1Mpca3vVQpI
15	Algebraic Sum of Resolved Part	https://youtu.be/V_0Gvv2Tndk
16	Examples on Resultant of Parallel Forces	https://youtu.be/w2EfOWNsZFQ
II	Unit II	https://www.youtube.com/playlist?list=PL7TANb4Sj71oloNC-jrURnjWp1Z6nix6i
01	Triangle Law of Forces	https://youtu.be/4xY-jqMQmsQ
02	Converse of Triangle Law of Forces	https://youtu.be/Xax0MALbpdo
03	Polygon of a Forces	https://youtu.be/cNmgdyPFfNw
04	Lami's Theorem	https://youtu.be/_vljRRO6NIE
05	Condition of Equilibrium	https://youtu.be/H52YKzDJC78
06	Examples on Equilibrium of Forces	https://youtu.be/pms7fUCzjmY

07	Examples on Equilibrium of Forces	https://youtu.be/pms7fUCzimY
08	Examples on Equilibrium of forces	https://youtu.be/slpGWU18GxE
	Unit-III	https://www.youtube.com/playlist?list=PL7TANb4Sj71qEOvyps0Ph-gaFdQJ-xSgW
01	Forces Acting on a Rigid Body	https://youtu.be/qsun3q6hk7s
02	The Sum of Vector Moments	https://youtu.be/wfa6PHzcAhY
03	Examples on Forces Acting on Rigid Body	https://youtu.be/foZMYZ0MsYQ
04	Examples on Vector Moment	https://youtu.be/_PizVQo8qFM
05	Vector Moments of Parallel Forces	https://youtu.be/4WN2UySXajY
06	Couples	https://youtu.be/iq3XO_0Zlvs
07	Moment of the Couple	https://youtu.be/fuJq3rT_-_g
08	Two Couples acting on a Rigid body	https://youtu.be/rKf6h96e2YQ
09	Vector Moment of the Resultant Couples	https://youtu.be/hQ-hg5bxNwA
10	Vector Moment of the Resultant Couples	https://youtu.be/PVyxAA3MZCc
11	Cartesian Condition of Equilibrium of Forces	https://youtu.be/iYHf-j0h4ZY
	Syllabus Completed	
	Basics for Perfection in Mathematics	
1	Differentiation	https://www.youtube.com/playlist?list=PLzatFovyqhyQAUdrevP8MWguA1GTlt-t
2	Application of Derivatives	https://www.youtube.com/playlist?list=PL7TANb4Sj71rJFH1jxKIdtp34P9sofT1N
3	Indefinite Integration	https://www.youtube.com/playlist?list=PL7TANb4Sj71rJEW9jCLJmiG0Q_tQUhbf
I	Basics of Mathematics	https://www.youtube.com/playlist?list=PL7TANb4Sj71qVY4Tb7oZZwanyzqb3ctJl
II	For All Lectures Visit	https://www.youtube.com/channel/UC25Hwz1jT_gwAJU4YEiO6Rg
III	LIVE LECTURES 04:00pm-05pm (Mon to Friday)	https://www.youtube.com/channel/UC25Hwz1jT_gwAJU4YEiO6Rg/live
	For Updated Quality Video Link Register/ Visit	https://www.youtube.com/channel/UC25Hwz1jT_gwAJU4YEiO6Rg