

## Video based learning through platform like YouTube lectures, Google classroom etc.

To foster active involvement of the students in teaching-learning process video base learning technology is used.

### Objective:

- To increase student participation in the teaching and learning process and facilitate understanding of challenging engineering concepts easily.
- Course materials are available to students whenever they need them, allowing them to participate and prepare at their own pace to ensure they thoroughly understand the topic and finish the course.

Table 5.3.1 represents list of topics delivered by course coordinators. Table 5.3.2 and 5.3.3 represents different online platforms and ICT tools used by course coordinators to deliver the course topics.

**Table 5.3.1: List of Topics delivered by course coordinator Using Video base learning:**

Sr. No.	Course Coordinator	Course Name	Class	Topics delivered
1	Dr. S S Kulkarni	Manufacturing Technology	SY	Central Lathe, Principle parts of lathe machine
2	Dr. S S Kulkarni	Mechanics of Material	SY	Simple Stresses and Strain, Analysis of stepped bar
3	Dr. S G Kulkarni	Metallurgy	TY	Classification of metal, concept of alloying, Non-destructive testing
4	Dr. S G Kulkarni	Machine Design II	TY	Worm and Worm wheel, Optimum design
5	Dr. S G Kulkarni	Advanced Stress analysis	TY	Cartesian and polar coordinate system, Shear centre
6	Dr. B S Gandhare	Industrial Quality Management	LY	Acceptance Sampling, Sampling Inspection

7	<b>Dr. B S Gandhare</b>	Industrial Product Design	LY	Steering Geometry, Steering Ratio
8	<b>Dr. S R Koli</b>	Tool Engineering	TY	Press tool introduction and design parameters
9	<b>Dr. S R Koli</b>	Marketing Management	LY	Place mix
10	<b>Prof. N L Phule</b>	Applied Thermodynamics	SY	Basic Concepts of Entropy, Proof of entropy as a property, Principle of increase of Entropy
11	<b>Prof. D R Giram</b>	Instrumentation and Control	TY	Block Diagram algebra
12	<b>Prof. D R Giram</b>	Power plant and Energy Engineering	SY	Loads on Power Plant
13	<b>Prof. P P Kulkarni</b>	CAD CAM CAE	TY	Introduction to CAD CAM
14	<b>Prof. U S Gholap</b>	Robotics &AI	LY	Forward and reverse kinematics
15	<b>Prof. H S Kulkarni</b>	Applied Thermodynamics	SY	Formation of Steam at constant pressure
16	<b>Prof. A S Kulkarni</b>	Manufacturing Processes	SY	Advanced Manufacturing Processes Explosive Forming Process
17	<b>Prof. A S Kulkarni</b>	Entrepreneurship Development	LY	Work Measurement
18	<b>Prof. H S Deshpande</b>	Engineering Graphics & CAD	FY	Projection of Parallel lines
19	<b>Prof. R K Shinde</b>	Internal Combustion Engine	SY	Classification of IC engines, engine components and nomenclature
20	<b>Prof. S C Mali</b>	Manufacturing Processes	SY	Manufacturing Technology Unconventional Machining

**Table 5.3.2 Video lectures by course teachers:**

Sr. No.	Name of faculty	Name of Subject	YouTube Channel Link	Moodle Link
1	Dr. S. S. Kulkarni	Manufacturing Technology	<a href="https://www.youtube.com/channel/UCOd8AAj7nzigCKuMgHsHLCA">https://www.youtube.com/channel/UCOd8AAj7nzigCKuMgHsHLCA</a>	<a href="http://103.132.171.121/course/view.php?id=1182">http://103.132.171.121/course/view.php?id=1182</a>
		Mechanics of Material	<a href="https://www.youtube.com/playlist?list=PLMnuUSwFtVS6nuc-XDO0oVMUkMZKaQ48u">https://www.youtube.com/playlist?list=PLMnuUSwFtVS6nuc-XDO0oVMUkMZKaQ48u</a>	<a href="http://103.132.171.121/course/view.php?id=1087">http://103.132.171.121/course/view.php?id=1087</a>
2	Dr. S. G. Kulkarni	Metallurgy	<a href="https://www.youtube.com/channel/UCbmRQeoUbaiJobl20Jxs7aQ/videos">https://www.youtube.com/channel/UCbmRQeoUbaiJobl20Jxs7aQ/videos</a>	<a href="http://103.127.76.195/course/view.php?id=108">http://103.127.76.195/course/view.php?id=108</a>
		Machine Design II	<a href="https://www.youtube.com/channel/UCbmRQeoUbaiJobl20Jxs7aQ/videos">https://www.youtube.com/channel/UCbmRQeoUbaiJobl20Jxs7aQ/videos</a>	<a href="http://103.127.76.195/course/view.php?id=529">http://103.127.76.195/course/view.php?id=529</a>
		Advanced Stress analysis	<a href="https://www.youtube.com/watch?v=E0Ym2mu3T4Y">https://www.youtube.com/watch?v=E0Ym2mu3T4Y</a>	<a href="https://www.youtube.com/watch?v=E0Ym2mu3T4Y">https://www.youtube.com/watch?v=E0Ym2mu3T4Y</a>
3	Dr. B. S. Gandhare	Industrial Quality Management	<a href="https://www.youtube.com/@balasahebgandhare8418">https://www.youtube.com/@balasahebgandhare8418</a>	<a href="http://103.127.76.195/course/view.php?id=214">http://103.127.76.195/course/view.php?id=214</a>
		Industrial Product Design	<a href="https://www.youtube.com/@balasahebgandhare8418">https://www.youtube.com/@balasahebgandhare8418</a>	<a href="http://103.127.76.195/course/view.php?id=721">http://103.127.76.195/course/view.php?id=721</a>
4	Prof. S. R. Koli	Tool Engineering	<a href="https://www.youtube.com/watch?v=wPKx3Uxqx6k&amp;list=PLZ-YIbySZNKExYQg7JAP9-Pi1QKtTwz6T">https://www.youtube.com/watch?v=wPKx3Uxqx6k&amp;list=PLZ-YIbySZNKExYQg7JAP9-Pi1QKtTwz6T</a>	<a href="http://103.127.76.195/course/view.php?id=110">http://103.127.76.195/course/view.php?id=110</a>
		Marketing Management	<a href="https://www.youtube.com/watch?v=nfmAuvGhabk&amp;list=PLZ-YIbySZNKHqH2SIP9CSjtP_EA8SE2Kb">https://www.youtube.com/watch?v=nfmAuvGhabk&amp;list=PLZ-YIbySZNKHqH2SIP9CSjtP_EA8SE2Kb</a>	<a href="http://103.127.76.195/course/view.php?id=608">http://103.127.76.195/course/view.php?id=608</a>
5	Prof. N. L. Phule	Applied Thermodynamics	<a href="https://youtu.be/W_Nt5KnkbZY">https://youtu.be/W_Nt5KnkbZY</a>	<a href="http://103.127.76.195/course/view.php?id=605">http://103.127.76.195/course/view.php?id=605</a>
6	Prof. D. R. Giram	Instrumentation and Control	<a href="https://studio.youtube.com/channel/UCDFSdFXhI-HKFQawR2-Rfqq/videos/upload?filter=%5B%5D&amp;sort=%7B%22columnType%22%3A%22date%22%2C%22sortOrder%22%3A%22DESC">https://studio.youtube.com/channel/UCDFSdFXhI-HKFQawR2-Rfqq/videos/upload?filter=%5B%5D&amp;sort=%7B%22columnType%22%3A%22date%22%2C%22sortOrder%22%3A%22DESC</a>	<a href="http://103.132.171.121/course/view.php?id=1056">http://103.132.171.121/course/view.php?id=1056</a>

			<a href="#">NDING%22%7D</a>	
7	<b>Prof. P. P. Kulkarni</b>	CAD CAM CAE	<a href="https://www.youtube.com/channel/UCAq3NEAFsjK9l4-Ux3gbvLQ">https://www.youtube.com/channel/UCAq3NEAFsjK9l4-Ux3gbvLQ</a>	<a href="http://103.127.76.195/course/view.php?id=380">http://103.127.76.195/course/view.php?id=380</a>
8	<b>Prof. U. S. Gholap</b>	Robotics & AI	<a href="https://www.youtube.com/channel/UCFnVE3qm2-ROnt8StBt9-2g">https://www.youtube.com/channel/UCFnVE3qm2-ROnt8StBt9-2g</a>	<a href="http://103.127.76.195/course/view.php?id=358#section-1">http://103.127.76.195/course/view.php?id=358#section-1</a>
9	<b>Prof. H. S. Kulkarni</b>	Applied Thermodynamics	<a href="https://www.youtube.com/watch?v=Iy1q8oaLF38&amp;t=231s">https://www.youtube.com/watch?v=Iy1q8oaLF38&amp;t=231s</a>	<a href="http://103.127.76.195/course/view.php?id=381">http://103.127.76.195/course/view.php?id=381</a>
10	<b>Prof. A. D. Jadhav</b>	Machine Drawing & CAD	<a href="https://drive.google.com/file/d/1zDIFxjihbAwn2sR3TstHPk5OvXVQE5wJ/view?usp=sharing">https://drive.google.com/file/d/1zDIFxjihbAwn2sR3TstHPk5OvXVQE5wJ/view?usp=sharing</a>	<a href="http://103.132.171.121/course/view.php?id=771">http://103.132.171.121/course/view.php?id=771</a>
11	<b>Prof. A. S. Kulkarni</b>	Manufacturing Processes	<a href="https://www.youtube.com/channel/UCwg-bmkA621OkDNaDB640Bw/">https://www.youtube.com/channel/UCwg-bmkA621OkDNaDB640Bw/</a>	<a href="http://103.132.171.121/course/view.php?id=1183">http://103.132.171.121/course/view.php?id=1183</a>
		Entrepreneurship Development	<a href="https://www.youtube.com/channel/UCwg-bmkA621OkDNaDB640Bw/">https://www.youtube.com/channel/UCwg-bmkA621OkDNaDB640Bw/</a>	<a href="http://103.132.171.121/course/view.php?id=360">http://103.132.171.121/course/view.php?id=360</a>
12	<b>Prof. H. S. Deshpande</b>	Engineering Graphics & CAD	<a href="https://youtu.be/yZJx9V1L5WA?si=51wbUOWVvqDiXyXO">https://youtu.be/yZJx9V1L5WA?si=51wbUOWVvqDiXyXO</a>	<a href="http://103.127.76.195/course/view.php?id=653">http://103.127.76.195/course/view.php?id=653</a>
13	<b>Prof. R. K. Shinde</b>	Internal Combustion Engine	<a href="https://www.youtube.com/watch?v=XHC1M4Mx21U&amp;feature=youtu.be">https://www.youtube.com/watch?v=XHC1M4Mx21U&amp;feature=youtu.be</a>	<a href="http://103.127.76.195/course/view.php?id=392">http://103.127.76.195/course/view.php?id=392</a>
14	<b>Prof S. C. Mali</b>	Manufacturing Processes	<a href="https://www.youtube.com/watch?v=DnPRGB95AEQ">https://www.youtube.com/watch?v=DnPRGB95AEQ</a>	<a href="http://103.132.171.121/course/view.php?id=1189">http://103.132.171.121/course/view.php?id=1189</a>

**Table 5.3.3 Online Platform Used/ ICT Tools Used by course teachers:**

Sr. No.	Name of faculty	Name of Subject	Google Classroom Code	Google Meet Link
1	Dr. S. S. Kulkarni	Manufacturing Technology	7w6qumt <a href="https://classroom.google.com/u/1/c/NTczMzI4MTU5NjFa">https://classroom.google.com/u/1/c/NTczMzI4MTU5NjFa</a>	<a href="https://meet.google.com/qxb-tqce-rig">:https://meet.google.com/qxb-tqce-rig</a>
		Mechanics of Material		<a href="https://meet.google.com/apb-vwzn-qme">meet.google.com/apb-vwzn-qme</a>
2	Dr. S. G. Kulkarni	Metallurgy	lw3rwsz	<a href="https://classroom.google.com/u/1/">https://classroom.google.com/u/1/</a>
		Machine Design II	<a href="https://classroom.google.com/u/1/c/NjY1MDE0NTg1MjBa">https://classroom.google.com/u/1/c/NjY1MDE0NTg1MjBa</a>	<a href="https://classroom.google.com/u/1/c/NjY1MDE0NTg1MjBa">https://classroom.google.com/u/1/c/NjY1MDE0NTg1MjBa</a>
		Advanced Stress analysis	<a href="https://classroom.google.com/u/1/">/1/</a>	<a href="https://www.youtube.com/watch?v=E0Ym2mu3T4Y">https://www.youtube.com/watch?v=E0Ym2mu3T4Y</a>
3	Dr. B. S. Gandhare	Industrial Quality Management	eh6yks4	<a href="https://classroom.google.com/c/NjYwODUwNTY0NzVa?cjc=eh6yks4">https://classroom.google.com/c/NjYwODUwNTY0NzVa?cjc=eh6yks4</a>
		Industrial Product Design	rxcqake	<a href="https://classroom.google.com/u/1/c/NjM1NTY0NDMwMDNa">https://classroom.google.com/u/1/c/NjM1NTY0NDMwMDNa</a>
4	Prof. S. R. Koli	Tool Engineering	6wb2moy	<a href="https://meet.google.com/coh-kpqc-eub">https://meet.google.com/coh-kpqc-eub</a>
		Marketing Management	gqdfu5d	<a href="https://meet.google.com/vdo-unmz-vsd">https://meet.google.com/vdo-unmz-vsd</a>
5	Prof. N. L. Phule	Applied Thermodynamics	lixvtnb	<a href="http://meet.google.com/jjj-jdvu-tny">http://meet.google.com/jjj-jdvu-tny</a>
6	Prof. D. R. Giram	Instrumentation and Control	xx4hrse	<a href="http://meet.google.com/mnn-yyjk-ddg">http://meet.google.com/mnn-yyjk-ddg</a>
		Power plant and Energy Engineering	<a href="https://classroom.google.com/u/1/c/NTgyNDE3Mzk5MzNa">zz5yrxe</a>	<a href="http://meet.google.com/mnn-zzjk-aag">http://meet.google.com/mnn-zzjk-aag</a>
7	Prof. P. P. Kulkarni	CAD CAM CAE	<a href="https://classroom.google.com/u/1/c/NTgyNDE3Mzk5MzNa">https://classroom.google.com/u/1/c/NTgyNDE3Mzk5MzNa</a>	<a href="https://meet.google.com/wio-shht-tfp">https://meet.google.com/wio-shht-tfp</a>

8	<b>Prof. U. S. Gholap</b>	Robotics &AI	ob4heur	<a href="https://meet.google.com/yrt-yjtn-ppv">https://meet.google.com/yrt-yjtn-ppv</a>
9	<b>Prof. H. S. Kulkarni</b>	Applied Thermodynamics	<a href="https://classroom.google.com/u/1/c/NjYwODUwNTY0NzVa">https://classroom.google.com/u/1/c/NjYwODUwNTY0NzVa</a>	<a href="https://meet.google.com/jic-gpfe-yxd">https://meet.google.com/jic-gpfe-yxd</a>
10	<b>Prof. A. D. Jadhav</b>	Machine Drawing & CAD	l42d2gd	<a href="https://meet.google.com/yub-mktz-qit">https://meet.google.com/yub-mktz-qit</a>
11	<b>Prof. A. S. Kulkarni</b>	Entrepreneurship Development	t7ub6lj	<a href="#">Meet - qxb-tqce-rig</a>
12	<b>Prof. H. S. Deshpande</b>	Engineering Graphics & CAD	l77ggg4	<a href="https://meet.google.com/ber-kqso-hdi">https://meet.google.com/ber-kqso-hdi</a>
13	<b>Prof. R. K. Shinde</b>	Internal Combustion Engine	fmpv53e	<a href="https://meet.google.com/qxb-tqce-rig">:https://meet.google.com/qxb-tqce-rig</a>
14	<b>Prof S. C. Mali</b>	Manufacturing Processes	<a href="https://classroom.google.com/u/0/c/NTczODM3MjE2NjBa">https://classroom.google.com/u/0/c/NTczODM3MjE2NjBa</a>	
		Manufacturing Technology	4jyrd6d	