

Flip Classes:

YouTube Channel Name: VCET MECH

<https://www.youtube.com/channel/UComm5pB3aExmmJvhYx6VdGA/playlists>

Basic Thermodynamics [BTD]:

Thermodynamics - Introduction and Zeroth Law- Lecture 1:

https://www.youtube.com/watch?v=ZGeI_dRCTwE&list=PLfE13gyGbGuJ1cQFaBVOLKjRMWC54e-R5

Thermodynamics - Introduction and Zeroth Law- Lecture 2

<https://www.youtube.com/watch?v=Ojm72G2tEC8&list=PLfE13gyGbGuJ1cQFaBVOLKjRMWC54e-R5&index=2>

Thermodynamics - Introduction and Zeroth Law- Lecture 3

<https://www.youtube.com/watch?v=vnzU9U1qeCI&list=PLfE13gyGbGuJ1cQFaBVOLKjRMWC54e-R5&index=6>

Thermodynamics - Introduction and Zeroth Law- Lecture 4

https://www.youtube.com/watch?v=amjYIAg0l_M&list=PLfE13gyGbGuJ1cQFaBVOLKjRMWC54e-R5&index=5

Thermodynamics - Introduction and Zeroth Law- Lecture 5

https://www.youtube.com/watch?v=LqU6_rLvPNE&list=PLfE13gyGbGuJ1cQFaBVOLKjRMWC54e-R5&index=4

Thermodynamics - Introduction and Zeroth Law- Lecture 6

<https://www.youtube.com/watch?v=cwWPUqkuYO4&list=PLfE13gyGbGuJ1cQFaBVOLKjRMWC54e-R5&index=3>

Thermodynamics- Work, Heat, First Law and SFEE - Lecture 1

<https://www.youtube.com/watch?v=jGQPp74ouuE&list=PLfE13gyGbGuJ1cQFaBVOLKjRMWC54e-R5&index=11>

Thermodynamics- Work, Heat, First Law and SFEE - Lecture 2

<https://www.youtube.com/watch?v=oLOVsLZFDhQ&list=PLfE13gyGbGuJ1cQFaBVOLKjRMWC54e-R5&index=16>

Thermodynamics- Work, Heat, First Law and SFEE - Lecture 4

<https://www.youtube.com/watch?v=n6rQPxsT7vw&list=PLfE13gyGbGuJ1cQFaBVOLKjRMWC54e-R5&index=15>

Thermodynamics- Work, Heat, First Law and SFEE - Lecture 5

<https://www.youtube.com/watch?v=9IeWsttLirg&list=PLfE13gyGbGuJ1cQFaBVOLKjRMWC54e-R5&index=14>

Thermodynamics- Work, Heat, First Law and SFEE - Lecture 6

<https://www.youtube.com/watch?v=PrqNJ-ntEhE&list=PLfE13gyGbGuJ1cQFaBVOLKjRMWC54e-R5&index=13>

Thermodynamics- Work, Heat, First Law and SFEE - Lecture 7

<https://www.youtube.com/watch?v=rR5n6kN3fCw&list=PLfE13gyGbGuJ1cQFaBVOLKjRMWC54e-R5&index=12>

Thermodynamics- Work, Heat, First Law and SFEE - Lecture 8

<https://www.youtube.com/watch?v=Fw4maJmjiKo&list=PLfE13gyGbGuJ1cQFaBVOLKjRMWC54e-R5&index=7>

Thermodynamics- Work, Heat, First Law and SFEE - Lecture 9

<https://www.youtube.com/watch?v=8ULKvcNSuUk&list=PLfE13gyGbGuJ1cQFaBVOLKjRMWC54e-R5&index=8>

Mechanics of Material [MOM]:

Problems on Stresses in composite section

<https://www.youtube.com/watch?v=iMfTQ5RZ250&list=PLfE13gyGbGuKEh46HRkqSyYVCquTwi-TP>

Principle of superposition

<https://www.youtube.com/watch?v=2aLVWDJHYfs&list=PLfE13gyGbGuKEh46HRkqSyYVCquTwi-TP&index=2>

Problems on thick cylinder

<https://www.youtube.com/watch?v=eYv7UzHtMAA&list=PLfE13gyGbGuKEh46HRkqSyYVCquTwi-TP&index=3>

Thick cylinders session 2

<https://www.youtube.com/watch?v=cEHIJrizoLI&list=PLfE13gyGbGuKEh46HRkqSyYVCquTwi-TP&index=4>

Weight comparison of solid shaft and hollow shaft

https://www.youtube.com/watch?v=dDX9TmKZ_rM&list=PLfE13gyGbGuKEh46HRkqSyYVCquTwi-TP&index=5

Power transmitted comparison in Solid shaft and hollow shaft

https://www.youtube.com/watch?v=iC5L9bq_QrE&list=PLfE13gyGbGuKEh46HRkqSyYVCquTwi-TP&index=6

Metal Casting & Welding [MCW]:

MCW: M3: Part 1 - Solidification - Session 2

<https://www.youtube.com/watch?v=ZOcRL5qQCaE&list=PLfE13gyGbGuJV-doTgUo7OgP8h7ho13O2>

MCW: M3: Part 2 - Solidification - Session 2

<https://www.youtube.com/watch?v=ZOcRL5qQCaE&list=PLfE13gyGbGuJV-doTgUo7OgP8h7ho13O2&index=2>

MCW: M3: Part 3: Non-Ferrous alloys -Session 3

<https://www.youtube.com/watch?v=673XdcaC6V0&list=PLfE13gyGbGuJV-doTgUo7OgP8h7ho13O2&index=3>

MCW: M3: Part 4: Non-Ferrous alloys -Session 3

<https://www.youtube.com/watch?v=673XdcaC6V0&list=PLfE13gyGbGuJV-doTgUo7OgP8h7ho13O2&index=4>

Computer Aided Machine Drawing [CAMD]:

Tutorial on Screw Jack part modeling and Assembly

<https://youtu.be/Fo0emm1cecM>

Tutorial on Plummer Block Parts Modeling and its Assembly

<https://youtu.be/0Z5KYMv7Nu8> or <https://youtu.be/kwTSBjPjYqA>

Tutorial on Machine Vice assembly part modeling- Body & Movable Jaw [Part 1 & 2]

<https://youtu.be/jKLIWGgOgrQ>

Tutorial on Machine Vice assembly part modeling- Part Number 3 to 9

<https://youtu.be/ZMJ3n83Pbc4>

Tutorial on Machine vice Assembly Using parts

<https://youtu.be/qeFPSmj42ro>

Tutorial on IC Engine Connecting Rod Assembly- Part modeling of Part 1

<https://youtu.be/ufQRwnjaqjM>

Tutorial on IC Engine Connecting Rod Assembly- Part Modeling of Part number 2 to 5

<https://youtu.be/uxspS-Ktlv8>

Tutorial on IC Engine Connecting Rod assembly: Part Modeling of Part 6 to 10

<https://youtu.be/og5HYuBhVp4>

CAMD: Tutorial on IC Engine Connecting rod Assembly - session 4 (V2)

<https://www.youtube.com/watch?v=13fZ8k-q9lA&list=PLfE13gyGbGuLmqiEy0knMFYWat42Vq464&index=14>

Tutorial on Tailstock assembly: Part modeling of Tailstock Body (Part 1) - Session 1

<https://www.youtube.com/watch?v=NN7mT8H3Rr4&list=PLfE13gyGbGuLmqiEy0knMFYWat42Vq464&index=17>

Tutorial on Tailstock assembly: Part modeling of Tailstock parts (Part 2 to 7) - Session 2

<https://www.youtube.com/watch?v=7LcbB-Us09w&list=PLfE13gyGbGuLmqiEy0knMFYWat42Vq464&index=19>

Tutorial on Tailstock assembly: Part Modeling of Tailstock Parts (Part 8 to 19)- Session 3

<https://www.youtube.com/watch?v=jvvjzI7MSw&list=PLfE13gyGbGuLmqiEy0knMFYWat42Vq464&index=21>

Tutorial on Tailstock assembly -Session 4

<https://www.youtube.com/watch?v=3zqerI0kAmM&list=PLfE13gyGbGuLmqiEy0knMFYWat42Vq464&index=23>

Fluid Mechanics [FM]:

FM M3-Fluid Dynamics

<https://www.youtube.com/watch?v=6CsAevxAmFA&list=PLfE13gyGbGuLNDDV0OLaZ3Ap48zKxXY2D>

FM M3- Venturi Meter & Orifice Meter

<https://www.youtube.com/watch?v=pasc8R7zLbE&list=PLfE13gyGbGuLNDDV0OLaZ3Ap48zKxXY2D&index=2>

FM M3 V3 Notches and Problems

<https://www.youtube.com/watch?v=r1UOUHt7DQ&list=PLfE13gyGbGuLNDDV0OLaZ3Ap48zKxXY2D&index=3>

FM M4 Basics of dimensional analysis part 1

https://www.youtube.com/watch?v=cQI_pg4Cupc&list=PLfE13gyGbGuLNDDV0OLaZ3Ap48zKxXY2D&index=6

FM M4 Basics of dimensional analysis part 2

<https://www.youtube.com/watch?v=mNPYtkBULh0&list=PLfE13gyGbGuLNDDV0OLaZ3Ap48zKxXY2D&index=7>

FM M4 Basics of dimensional analysis part 3

<https://www.youtube.com/watch?v=B5I0PMup5-g&list=PLfE13gyGbGuLNDDV0OLaZ3Ap48zKxXY2D&index=8>

FM M4 Basics of dimensional analysis part 4

<https://www.youtube.com/watch?v=B9RISv9a74Q&list=PLfE13gyGbGuLNDDV0OLaZ3Ap48zKxXY2D&index=9>

FM M4 Basics of dimensional analysis part 5

<https://www.youtube.com/watch?v=TWKgfLVtARm&list=PLfE13gyGbGuLNDDV0OLaZ3Ap48zKxXY2D&index=10>

FM M4 Basics of dimensional analysis part 6

https://www.youtube.com/watch?v=X6Y_-ojZd7s&list=PLfE13gyGbGuLNDDV0OLaZ3Ap48zKxXY2D&index=11

FM M4 Basics of dimensional analysis part 7

<https://www.youtube.com/watch?v=Lka23QVyrQU&list=PLfE13gyGbGuLNDDV0OLaZ3Ap48zKxXY2D&index=12>

FM M4 Basics of dimensional analysis part 8

<https://www.youtube.com/watch?v=XOaM0oN0LmO&list=PLfE13gyGbGuLNDDV0OLaZ3Ap48zKxXY2D&index=13>

FM M4 Basics of dimensional analysis part 9

<https://www.youtube.com/watch?v=QeTtKxvYoXc&list=PLfE13gyGbGuLNDDV0OLaZ3Ap48zKxXY2D&index=14>

FM M5 Computational Fluid Dynamics –Session 1

<https://www.youtube.com/watch?v=TBk30wsxISo&list=PLfE13gyGbGuLNDDV0OLaZ3Ap48zKxXY2D&index=4>

FM M5 Computational Fluid Dynamics –Session 2

<https://www.youtube.com/watch?v=TBk30wsxISo&list=PLfE13gyGbGuLNDDV0OLaZ3Ap48zKxXY2D&index=5>

Kinematic of Machines [KOM]:

Module 5 Part 1: CAMs, Types of CAMs, Types of Followers and Displacement

<https://www.youtube.com/watch?v=WfRSvoV6vCU&list=PLfE13gyGbGuIro5nK0uyV6WSLvDPMcE8C>

Module 5 Part 2: CAM Terminology, Types of Follower Motion, Displacement Diagram

<https://www.youtube.com/watch?v=ZGlsv-vCKcA&list=PLfE13gyGbGuIro5nK0uyV6WSLvDPMcE8C&index=2>

Module 5 part 3: CAM Profile diagram having Knife Edge Follower for Inline and Offset Condition

https://www.youtube.com/watch?v=3W_3xVd4LRO&list=PLfE13gyGbGuIro5nK0uyV6WSLvDPMcE8C&index=3

Module 5 B Part 4: Problem to plot CAM profile diagram for a Roller Follower

https://www.youtube.com/watch?v=Uod2Xko_eGI&list=PLfE13gyGbGuIro5nK0uyV6WSLvDPMcE8C&index=4

KOM: Session 3 : CAM'S Motion of follower

<https://www.youtube.com/watch?v=mTuuGdLNW28&list=PLfE13gyGbGuIro5nK0uyV6WSLvDPMcE8C&index=5>

KINEMATICS OF MACHINE: CAMS, Session 4

https://www.youtube.com/watch?v=xP_6Yf892mM&list=PLfE13gyGbGuIro5nK0uyV6WSLvDPMcE8C&index=6

Problem on CAMS Session 5 to 9

<https://www.youtube.com/watch?v=XwHaFbqYBFM&list=PLfE13gyGbGuIro5nK0uyV6WSLvDPMcE8C&index=7>

<https://www.youtube.com/watch?v=16IRM29IVXQ&list=PLfE13gyGbGuIro5nK0uyV6WSLvDPMcE8C&index=8>

https://www.youtube.com/watch?v=Ox_LG7lnJkA&list=PLfE13gyGbGuIro5nK0uyV6WSLvDPMcE8C&index=9

<https://www.youtube.com/watch?v=Cia3OLIBc9I&list=PLfE13gyGbGuIro5nK0uyV6WSLvDPMcE8C&index=10>

<https://www.youtube.com/watch?v=YEHsOTw5f1w&list=PLfE13gyGbGuIro5nK0uyV6WSLvDPMcE8C&index=11>

Module 4, Spur Gears, session 1 to 3

<https://www.youtube.com/watch?v=DMK-fL3mH7Y&list=PLfE13gyGbGuIro5nK0uyV6WSLvDPMcE8C&index=14>

<https://www.youtube.com/watch?v=XanTvaEVLPU&list=PLfE13gyGbGuIro5nK0uyV6WSLvDPMcE8C&index=16>

<https://www.youtube.com/watch?v=e8GmCThTjrE&list=PLfE13gyGbGuIro5nK0uyV6WSLvDPMcE8C&index=17>

Metal Cutting & Forming [MCF]:

Metal Cutting and Forming-Module 4-MECHANICAL WORKING OF METALS- Part 1

<https://www.youtube.com/watch?v=5vzqehZzzpE&list=PLfE13gyGbGuLj5Z7aHiOvDPJs9OeQHxNs>

Metal Cutting and Forming-Module 4-MECHANICAL WORKING OF METALS- Part 2

<https://www.youtube.com/watch?v=wtPudTfvIxY&list=PLfE13gyGbGuLj5Z7aHiOvDPJs9OeQHxNs&index=2>

Metal Cutting and Forming- Module 5-Sheet Metal Operations-Part 1

<https://www.youtube.com/watch?v=9dqnGp29bco&list=PLfE13gyGbGuLj5Z7aHiOyDPJs9OeQHxNS&index=3>

Metal Cutting and Forming- Module 5-Sheet Metal Operations-Part 2

<https://www.youtube.com/watch?v=xJGzV8dm-Cs&list=PLfE13gyGbGuLj5Z7aHiOyDPJs9OeQHxNS&index=4>

Metal Cutting and Forming- Module 5-Sheet Metal Operations-Part 3

<https://www.youtube.com/watch?v=xJGzV8dm-Cs&list=PLfE13gyGbGuLj5Z7aHiOyDPJs9OeQHxNS&index=5>

Applied Thermodynamics [ATD]:

ATD M3- Session 1 to 4

<https://www.youtube.com/watch?v=0XNFdPT9TcE&list=PLfE13gyGbGuJ1-XCqZ1RGibFBZ2P3oteb>

https://www.youtube.com/watch?v=1YV8_ggBvKQ&list=PLfE13gyGbGuJ1-XCqZ1RGibFBZ2P3oteb&index=2

<https://www.youtube.com/watch?v=szk56i2V3Yw&list=PLfE13gyGbGuJ1-XCqZ1RGibFBZ2P3oteb&index=3>

<https://www.youtube.com/watch?v=szk56i2V3Yw&list=PLfE13gyGbGuJ1-XCqZ1RGibFBZ2P3oteb&index=4>

ATD M4 –Session 1 to 6

<https://www.youtube.com/watch?v=KIUqYw6YT8M&list=PLfE13gyGbGuJ1-XCqZ1RGibFBZ2P3oteb&index=5>

<https://www.youtube.com/watch?v=KIUqYw6YT8M&list=PLfE13gyGbGuJ1-XCqZ1RGibFBZ2P3oteb&index=6>

<https://www.youtube.com/watch?v=6qADlb9DJFA&list=PLfE13gyGbGuJ1-XCqZ1RGibFBZ2P3oteb&index=7>

<https://www.youtube.com/watch?v=6qADlb9DJFA&list=PLfE13gyGbGuJ1-XCqZ1RGibFBZ2P3oteb&index=8>

<https://www.youtube.com/watch?v=jbxvrlpz0ZY&list=PLfE13gyGbGuJ1-XCqZ1RGibFBZ2P3oteb&index=9>

<https://www.youtube.com/watch?v=jbxvrlpz0ZY&list=PLfE13gyGbGuJ1-XCqZ1RGibFBZ2P3oteb&index=10>

ATD M5 –Session 1 to 3

<https://www.youtube.com/watch?v=AFeesGoe7AA&list=PLfE13gyGbGuJ1-XCqZ1RGibFBZ2P3oteb&index=11>

<https://www.youtube.com/watch?v=AFeesGoe7AA&list=PLfE13gyGbGuJ1-XCqZ1RGibFBZ2P3oteb&index=12>

<https://www.youtube.com/watch?v=B5GJdOu2ME&list=PLfE13gyGbGuJ1-XCqZ1RGibFBZ2P3oteb&index=13>

Measurements and Metrology

Mechanical Measurements and Metrology Module 4 - Session 1 to 4

https://www.youtube.com/watch?v=kh5Yd6kvW_U&list=PLfE13gyGbGuIEHGHOOU4vaS8oV485Mcvw

<https://www.youtube.com/watch?v=uidDULtcJaY&list=PLfE13gyGbGuIEHGHOOU4vaS8oV485Mcvw&index=2>

https://www.youtube.com/watch?v=KFrhPEg_zhQ&list=PLfE13gyGbGuIEHGHOOU4vaS8oV485Mcvw&index=3

<https://www.youtube.com/watch?v=nCR2GUK7lPI&list=PLfE13gyGbGuIEHGHOOU4vaS8oV485Mcvw&index=4>

Mechanical Measurements and Metrology Module 5 - Session 1 to 4

<https://www.youtube.com/watch?v=jgt9-U7pLJs&list=PLfE13gyGbGuIEHGHOOU4vaS8oV485Mcvw&index=6>

<https://www.youtube.com/watch?v=cp2UOBcHa84&list=PLfE13gyGbGuIEHGHOOU4vaS8oV485Mcvw&index=5>

<https://www.youtube.com/watch?v=FTF33x2EXI8&list=PLfE13gyGbGuIEHGHOOU4vaS8oV485Mcvw&index=7>

Computer Integrated Manufacturing [CIM]

Module 3 Flexible Manufacturing Systems

<https://www.youtube.com/watch?v=OhIsVQ4bC5k&list=PLfE13gyGbGuILJPCSTSCfhh1DVEOV2dnm>

Module 4 Robot Technology

<https://www.youtube.com/watch?v=SNN40NitCE&list=PLfE13gyGbGuILJPCSTSCfhh1DVEOV2dnm&index=3>

Module 5

https://www.youtube.com/watch?v=Hdw-0a_EmV0&list=PLfE13gyGbGuILJPCSTSCfhh1DVEOV2dnm&index=2

<https://www.youtube.com/watch?v=IW9OkkuZKLM&list=PLfE13gyGbGuILJPCSTSCfhh1DVEOV2dnm&index=4>

<https://www.youtube.com/watch?v=RjkqUzuwNMg&list=PLfE13gyGbGuILJPCSTSCfhh1DVEOV2dnm&index=6>

Dynamics of Machines [DOM]:

Static force analysis Problem 1

https://www.youtube.com/watch?v=JqTpciNyCkI&list=PLfE13gyGbGuIOWOVIC9-e8ROXzoGr_9Oq&index=5

Static force analysis session 2

https://www.youtube.com/watch?v=w6dPqSTGJ0M&list=PLfE13gyGbGuIOWOVIC9-e8ROXzoGr_9Oq&index=6

Balancing of rotating masses

https://www.youtube.com/watch?v=xKWb8HDP_ng&list=PLfE13gyGbGuIOWOVIC9-e8ROXzoGr_9Oq

Balancing of rotating masses- Problem 2

https://www.youtube.com/watch?v=KKDhKzXKw0E&list=PLfE13gyGbGuIOWOVIC9-e8ROXzoGr_9Oq&index=3

Hartnel governor

https://www.youtube.com/watch?v=2g6D56r-vec&list=PLfE13gyGbGuIOWOVIC9-e8ROXzoGr_9Oq&index=2

Hartnell governor problems

https://www.youtube.com/watch?v=IPPRon5_LhQ&list=PLfE13gyGbGuIOWOVIC9-e8ROXzoGr_9Oq&index=4

Heat and Mass Transfer [HT]:

HT Module3 Lecture 2

<https://www.youtube.com/watch?v=Giih8LlsFfQ&list=PLfE13gyGbGuJA8D6v4ivRWN6o2r4U793I>

HT Module3 Lecture 3

<https://www.youtube.com/watch?v=-PZw56fPog0&list=PLfE13gyGbGuJA8D6v4ivRWN6o2r4U793I&index=2>

HT Module3 Lecture 4

<https://www.youtube.com/watch?v=oQ2SC-8rbqE&list=PLfE13gyGbGuJA8D6v4ivRWN6o2r4U793I&index=3>

HT Module3 Lecture 5

<https://www.youtube.com/watch?v=zaMNXvIHJE4&list=PLfE13gyGbGuJA8D6v4ivRWN6o2r4U793I&index=4>

HT Module3 Lecture 6

<https://www.youtube.com/watch?v=J0mkbPOY1m0&list=PLfE13gyGbGuJA8D6v4ivRWN6o2r4U793I&index=7>

HT Module3 Lecture 8

<https://www.youtube.com/watch?v=VH8n3PFvVu8&list=PLfE13gyGbGuJA8D6v4ivRWN6o2r4U793I&index=9>

HT Module3 Lecture 9

<https://www.youtube.com/watch?v=Hl9x4pTrHeA&list=PLfE13gyGbGuJA8D6v4ivRWN6o2r4U793I&index=10>

Transient Heat conduction- Numerical on Lumped System Analysis-2 by Dr M S G G

<https://www.youtube.com/watch?v=VsWhL3VPDfc&list=PLfE13gyGbGuJA8D6v4ivRWN6o2r4U793I&index=5>

Transient Heat conduction Lumped System Mod - Dr MSGG

<https://www.youtube.com/watch?v=qmIGbiTKoAc&list=PLfE13gyGbGuJA8D6v4ivRWN6o2r4U793I&index=6>

Transient Heat Conduction using Heissler Chart-Dr.MSGG

<https://www.youtube.com/watch?v=ar9wE14dZk4&list=PLfE13gyGbGuJA8D6v4ivRWN6o2r4U793I&index=8>

HT-Solution to the numerical on Free Convection -1 Mod by Dr MSGG

<https://www.youtube.com/watch?v=njsjG14D28M&list=PLfE13gyGbGuJA8D6v4ivRWN6o2r4U793I&index=11>

HT Module 5 Lecture 1

<https://www.youtube.com/watch?v=X6SrsK7EvII&list=PLfE13gyGbGuJA8D6v4ivRWN6o2r4U793I&index=12>

Total Quality Management [TQM]:

1 PROCESS

<https://www.youtube.com/watch?v=EE1bWVay8Q0&list=PLfE13gyGbGuKz-fRidxnVfBijmdAA-Qmy>

2 JURAN TRILOGY

<https://www.youtube.com/watch?v=6cvaWiIezWA&list=PLfE13gyGbGuKz-fRidxnVfBijmdAA-Qmy&index=2>

3 Improvement Strategies

<https://www.youtube.com/watch?v=qHRPrNaNYiI&list=PLfE13gyGbGuKz-fRidxnVfBijmdAA-Qmy&index=3>

4 Types of Problem, PDSA Cycle

<https://www.youtube.com/watch?v=UdXbosrEo88&list=PLfE13gyGbGuKz-fRidxnVfBijmdAA-Qmy&index=4>

5 Problem Solving Method

<https://www.youtube.com/watch?v=zZivJwzZ-s&list=PLfE13gyGbGuKz-fRidxnVfBijmdAA-Qmy&index=5>

6 KAIZEN REENGINEERING

<https://www.youtube.com/watch?v=6tBndRLpdcU&list=PLfE13gyGbGuKz-fRidxnVfBijmdAA-Qmy&index=6>

7 SIX SIGMA

<https://www.youtube.com/watch?v=mv1ff6vKtUs&list=PLfE13gyGbGuKz-fRidxnVfBijmdAA-Qmy&index=7>

8 Pareto Process Flow Diagram

https://www.youtube.com/watch?v=Oh_Uo4meQeU&list=PLfE13gyGbGuKz-fRidxnVfBijmdAA-Qmy&index=8

9 C&E CHECK SHEET

<https://www.youtube.com/watch?v=mv4LThXwRwM&list=PLfE13gyGbGuKz-fRidxnVfBijmdAA-Qmy&index=9>

10 Histogram

<https://www.youtube.com/watch?v=m47BsyvV3f4&list=PLfE13gyGbGuKz-fRidxnVfBijmdAA-Qmy&index=10>

11 Statistical fundamentals

<https://www.youtube.com/watch?v=M61uOITXHcM&list=PLfE13gyGbGuKz-fRidxnVfBijmdAA-Qmy&index=11>

12 Control Chart Scatter Diagram

<https://www.youtube.com/watch?v=95bSfMFcdWo&list=PLfE13gyGbGuKz-fRidxnVfBijmdAA-Qmy&index=12>

13 Benchmarking

<https://www.youtube.com/watch?v=SaF0k2BKSmE&list=PLfE13gyGbGuIkZWkYv8IBRqlNmMeIX59>

14 IT

<https://www.youtube.com/watch?v=ztOhiJ4CyM&list=PLfE13gyGbGuIkZWkYv8IBRqlNmMeIX59&index=2>

15 EMS

<https://www.youtube.com/watch?v=vi7y9VgSan4&list=PLfE13gyGbGuIkZWkYv8IBRqlNmMeIX59&index=3>

16 QFD

<https://www.youtube.com/watch?v=NSAX3H9IvbO&list=PLfE13gyGbGuIkZWkYv8IBRqlNmMeIX59&index=4>

17 QbD

<https://www.youtube.com/watch?v=FooOdeVVIFg&list=PLfE13gyGbGuIkZWkYv8IBRqlNmMeIX59&index=5>

18 FMEA

<https://www.youtube.com/watch?v=oRUjd5m6ehg&list=PLfE13gyGbGuIkZWkYv8IBRqlNmMeIX59&index=6>

19 PL

<https://www.youtube.com/watch?v=INNlx32MPnw&list=PLfE13gyGbGuIkZWkYv8IBRqINmMeIX59&index=7>

20 TPM

<https://www.youtube.com/watch?v=BwgY9BNfSIA&list=PLfE13gyGbGuIkZWkYv8IBRqINmMeIX59&index=8>

Industrial Safety [IS]:

Module 3, MECHANICAL SAFETY, Session 4, video

https://www.youtube.com/watch?v=0J65xoAPduo&list=PLfE13gyGbGuIb6J3z9xIqnp_V-4uIoB3

MECHANICAL SAFETY, Session 5

https://www.youtube.com/watch?v=3md9q-qeJnE&list=PLfE13gyGbGuIb6J3z9xIqnp_V-4uIoB3&index=2

MECHANICAL SAFETY, Safety Precautions for Material Handling

https://www.youtube.com/watch?v=ivYcVWMSWXI&list=PLfE13gyGbGuIb6J3z9xIqnp_V-4uIoB3&index=4

ELECTRICAL SAFETY, Session 1, video

https://www.youtube.com/watch?v=X2uak1PJLvc&list=PLfE13gyGbGuIb6J3z9xIqnp_V-4uIoB3&index=5

ELECTRICAL SAFETY, Session 2, video

https://www.youtube.com/watch?v=zJqd5daqUBc&list=PLfE13gyGbGuIb6J3z9xIqnp_V-4uIoB3&index=9

ELECTRICAL SAFETY, Session 3, video

https://www.youtube.com/watch?v=Sqhvuh28N48&list=PLfE13gyGbGuIb6J3z9xIqnp_V-4uIoB3&index=11

CHEMICAL SAFETY AND OTHER SAFETY CHECKS, module 5

https://www.youtube.com/watch?v=PtHUa8J0GUM&list=PLfE13gyGbGuIb6J3z9xIqnp_V-4uIoB3&index=13

CHEMICAL SAFETY AND OTHER SAFETY CHECKS, session 2,

https://www.youtube.com/watch?v=sWKeMGS_gmI&list=PLfE13gyGbGuIb6J3z9xIqnp_V-4uIoB3&index=15

Automobile Engineering [AE]:

Module2 - Transmission system -Chapter 1- Part B

https://www.youtube.com/watch?v=haVYYOr_fjY&list=PLfE13gyGbGuJ2zXnBi5PpPdxIzOC_Nyg0

Module 2 Transmission System : DRIVE TO WHEELS

https://www.youtube.com/watch?v=3dXZiMCM79g&list=PLfE13gyGbGuJ2zXnBi5PpPdxIzOC_Nyg0&index=2

Module 2: Transmission System and Brakes: Chapter 1- Part A

https://www.youtube.com/watch?v=Zck-x4zQRx8&list=PLfE13gyGbGuJ2zXnBi5PpPdxIzOC_Nyg0&index=3

Module 2: Transmission system and Brakes - Part 2- Brakes - Session 4

https://www.youtube.com/watch?v=EvDxoOekEso&list=PLfE13gvGbGuJ2zXnBi5PpPdxIzOC_Nvg0&index=4

Module 2- Transmission System and Brakes : DRIVE TO WHEELS - Session 1

https://www.youtube.com/watch?v=GvvJDCPJ8vE&list=PLfE13gvGbGuJ2zXnBi5PpPdxIzOC_Nvg0&index=5

Module 2: Transmission System and Brakes: Clutches: Part A -Session 2

https://www.youtube.com/watch?v=nfzPx_zTW0w&list=PLfE13gvGbGuJ2zXnBi5PpPdxIzOC_Nvg0&index=6

Module 2: Transmission System & Brakes: Part 1: Transmission [Gear Box] -Session 3

https://www.youtube.com/watch?v=utjfV5Z1Z7s&list=PLfE13gvGbGuJ2zXnBi5PpPdxIzOC_Nvg0&index=7

Module 3: IGNITION SYSTEMS - Session 1

https://www.youtube.com/watch?v=vExrPJ0-vWM&list=PLfE13gvGbGuJ2zXnBi5PpPdxIzOC_Nvg0&index=9

Module 3: Steering Geometry - Session 2

https://www.youtube.com/watch?v=XzokMArK8Rc&list=PLfE13gvGbGuJ2zXnBi5PpPdxIzOC_Nvg0&index=10

Module 3: Suspension Systems (Part B)- Session 5

https://www.youtube.com/watch?v=SabDZmRBdJk&list=PLfE13gvGbGuJ2zXnBi5PpPdxIzOC_Nvg0&index=11

Module 4: Super Charger & Turbocharger (Part A)-Session 1

https://www.youtube.com/watch?v=8BxnqGSvxAw&list=PLfE13gvGbGuJ2zXnBi5PpPdxIzOC_Nvg0&index=13

Module 4: Super Charger & Turbocharger (Part A) -Session 2

https://www.youtube.com/watch?v=kL7-4rwe_JA&list=PLfE13gvGbGuJ2zXnBi5PpPdxIzOC_Nvg0&index=15

Finite Element Analysis [FEA]:

Module 2 FEA: Continuation of 1D bar problems

<https://www.youtube.com/watch?v=OsSq-OpzpJk&list=PLfE13gvGbGuJFfs3xP8593wOVDh5Tocft>

FEA 15ME61 (MODULE2)

<https://www.youtube.com/watch?v=li3EwDbJXY0&list=PLfE13gvGbGuJFfs3xP8593wOVDh5Tocft&index=2>

Module 2 problems continuation

<https://www.youtube.com/watch?v=D7gSO5fAdH0&list=PLfE13gvGbGuJFfs3xP8593wOVDh5Tocft&index=3>

Penalty method of applying boundary conditions

<https://www.youtube.com/watch?v=lMSZLw81uFk&list=PLfE13gvGbGuJFfs3xP8593wOVDh5Tocft&index=4>

FEM-Problems on trusses

https://www.youtube.com/watch?v=DEno84VL_A0&list=PLfE13gvGbGuJFfs3xP8593wOVDh5Tocft&index=5

Problems on Trusses

<https://www.youtube.com/watch?v=T6fvBbKS4NE&list=PLfE13gyGbGuJFfs3xP8593wOVDh5Tocft&index=6>

Problems on Trusses part 2

<https://www.youtube.com/watch?v=4wvfbgIYrro&list=PLfE13gyGbGuJFfs3xP8593wOVDh5Tocft&index=7>

Module-3 Beams

<https://www.youtube.com/watch?v=DI3i7x18aDU&list=PLfE13gyGbGuJFfs3xP8593wOVDh5Tocft&index=8>

Module 4-Heat transfer

<https://www.youtube.com/watch?v=YLfUDNE0n7M&list=PLfE13gyGbGuJFfs3xP8593wOVDh5Tocft&index=9>

Module 5 -Problems

<https://www.youtube.com/watch?v=okBtlamxvwc&list=PLfE13gyGbGuJFfs3xP8593wOVDh5Tocft&index=10>

Design of Machine Elements 2 [DME-II]:

Module 1- Curved beams

https://www.youtube.com/watch?v=YmR5CK_m3lk&list=PLfE13gyGbGuJpuUbn9bkmphtiki9I1s-S&index=5

Flat belt drives

<https://www.youtube.com/watch?v=NvJsvHbbiyY&list=PLfE13gyGbGuJpuUbn9bkmphtiki9I1s-S>

V Belt

<https://www.youtube.com/watch?v=U8nZc49kMLw&list=PLfE13gyGbGuJpuUbn9bkmphtiki9I1s-S&index=2>

DME2- Module 2-S1

<https://www.youtube.com/watch?v=hOpf-AJpaUw&list=PLfE13gyGbGuJpuUbn9bkmphtiki9I1s-S&index=3>

DME2- Module 2- S2

<https://www.youtube.com/watch?v=r2aw6Lc8ciY&list=PLfE13gyGbGuJpuUbn9bkmphtiki9I1s-S&index=4>

Module 4: Clutches and Brakes - S1

<https://www.youtube.com/watch?v=e2S5DqHTT-0&list=PLfE13gyGbGuJpuUbn9bkmphtiki9I1s-S&index=6>

Module 4: Design of Clutches and Brakes- S2

<https://www.youtube.com/watch?v=nsojGd84KDw&list=PLfE13gyGbGuJpuUbn9bkmphtiki9I1s-S&index=7>

Module 4: Problems on Single Block Brake

<https://www.youtube.com/watch?v=dDM4ubMxPs&list=PLfE13gyGbGuJpuUbn9bkmphtiki9I1s-S&index=8>

Module 4: Design of Clutches and Brakes- S3

<https://www.youtube.com/watch?v=eUlkvwT0nQ8&list=PLfE13gyGbGuJpuUbn9bkmphtiki9I1s-S&index=9>

Module 4: Design of Clutches and Brakes- S4

<https://www.youtube.com/watch?v=cTH0haN0jjU&list=PLfE13gyGbGuJpuUbn9bkmphitiki9I1s-S&index=10>

Module 4: Design of Clutches and Brakes- S5

<https://www.youtube.com/watch?v=3YVeWxOI4Eo&list=PLfE13gyGbGuJpuUbn9bkmphitiki9I1s-S&index=11>

Module 5: Lubrication and Bearing

<https://www.youtube.com/watch?v=P-IGJOMlWpo&list=PLfE13gyGbGuJpuUbn9bkmphitiki9I1s-S&index=12>

Operation Research [OR]

Transportation problem Row minima method

<https://www.youtube.com/watch?v=UHfIW-EIwU&list=PLfE13gyGbGuJTmRfeh0MCspekfC-k2sxM>

Transportation problem column minima method

<https://www.youtube.com/watch?v=6UXtLXesIOI&list=PLfE13gyGbGuJTmRfeh0MCspekfC-k2sxM&index=2>

Transportation problem using least cost entry method

<https://www.youtube.com/watch?v=0MzZaLkp7EM&list=PLfE13gyGbGuJTmRfeh0MCspekfC-k2sxM&index=3>

Transportation problem no 2 using least cost entry method

<https://www.youtube.com/watch?v=-ctDIiCxOvA&list=PLfE13gyGbGuJTmRfeh0MCspekfC-k2sxM&index=4>

Vogels approximation method for solving transportation problem

<https://www.youtube.com/watch?v=B9rya4jbeUc&list=PLfE13gyGbGuJTmRfeh0MCspekfC-k2sxM&index=5>

Transportation problem no.2 using vogels approximation method

<https://www.youtube.com/watch?v=nuvyW8TIM-8&list=PLfE13gyGbGuJTmRfeh0MCspekfC-k2sxM&index=6>

Transportation problem MODI Method or UV method

<https://www.youtube.com/watch?v=9h4k9khUqvw&list=PLfE13gyGbGuJTmRfeh0MCspekfC-k2sxM&index=7>

MODI method (part 2) for solving the transportation problem

<https://www.youtube.com/watch?v=5SCcwuWzWB4&list=PLfE13gyGbGuJTmRfeh0MCspekfC-k2sxM&index=8>

Simplex method important points

<https://www.youtube.com/watch?v=kWrOPHQLd3E&list=PLfE13gyGbGuJTmRfeh0MCspekfC-k2sxM&index=9>

Simplex method problem no.1

<https://www.youtube.com/watch?v=FdHjngnObKE&list=PLfE13gyGbGuJTmRfeh0MCspekfC-k2sxM&index=11>

Transportation problem 1

https://www.youtube.com/watch?v=IDMbMPM_rII&list=PLfE13gyGbGuJTmRfeh0MCspekfC-k2sxM&index=12

Transportation problem 2

<https://www.youtube.com/watch?v=Lb5vqrSwOI0&list=PLfE13gyGbGuJTmRfeh0MCspekfC-k2sxM&index=13>

Least cost entry method

<https://www.youtube.com/watch?v=mtYurkmiLdY&list=PLfE13gyGbGuJTmRfeh0MCspekfC-k2sxM&index=14>

Vogels approximation method

<https://www.youtube.com/watch?v=nKndXUx7uqA&list=PLfE13gyGbGuJTmRfeh0MCspekfC-k2sxM&index=15>

Modi method part 1

<https://www.youtube.com/watch?v=meG51G9ArC4&list=PLfE13gyGbGuJTmRfeh0MCspekfC-k2sxM&index=16>

Green Manufacturing

Module 3- Closed-Loop Production Systems and Semiconductor Manufacturing

<https://www.youtube.com/watch?v=lsi2ma9fMgg&list=PLfE13gyGbGuIqvwtAgFKLv2XrXsrUBncG&index=5>

Module 4-Environmental Implications of Nano-manufacturing-Part 1 & 2

<https://www.youtube.com/watch?v=riKwNbdPvZO&list=PLfE13gyGbGuIqvwtAgFKLv2XrXsrUBncG>

<https://www.youtube.com/watch?v=QOEBNywsvX4&list=PLfE13gyGbGuIqvwtAgFKLv2XrXsrUBncG&index=2>

Module 5-Packaging and the Supply Chain: A Look at Transportation-Part 1& 2

<https://www.youtube.com/watch?v=CHJHHIPwbrs&list=PLfE13gyGbGuIqvwtAgFKLv2XrXsrUBncG&index=3>

https://www.youtube.com/watch?v=PvA7n0R_r5w&list=PLfE13gyGbGuIqvwtAgFKLv2XrXsrUBncG&index=4

ADDITIVE MANUFACTURING [AM]:

Module 1- INTRODUCTION TO ADDITIVE MANUFACTURING

<https://www.youtube.com/watch?v=CVH4YwReXjE&list=PLfE13gyGbGuLi4i8RengEbsDJPFbft7fd>

Additive Manufacturing - Module 3- Powder Metallurgy-Part 1 to 2

<https://www.youtube.com/watch?v=UuPJSHwto2s&list=PLfE13gyGbGuLi4i8RengEbsDJPFbft7fd&index=2>

<https://www.youtube.com/watch?v=RMSaRbPunzo&list=PLfE13gyGbGuLi4i8RengEbsDJPFbft7fd&index=3>

<https://www.youtube.com/watch?v=D0adZILT6f4&list=PLfE13gyGbGuLi4i8RengEbsDJPFbft7fd&index=4>

Additive Manufacturing- Module 4 - Nanomaterial's & Characterization Techniques - Part 1 to 2

<https://www.youtube.com/watch?v=FYCEzZyvC9E&list=PLfE13gyGbGuLi4i8RengEbsDJPFbft7fd&index=5>

<https://www.youtube.com/watch?v=aCdqdMznib0&list=PLfE13gyGbGuLi4i8RengEbsDJPFbft7fd&index=6>

Module 5- MANUFACTURING CONTROL AND AUTOMATION -Part 1 to 7

<https://www.youtube.com/watch?v=SGtNKwPzHdc&list=PLfE13gyGbGuLi4i8RengEbsDJPFbft7fd&index=7>

<https://www.youtube.com/watch?v=UOWRsuOCfBo&list=PLfE13gyGbGuLi4i8RengEbsDJPfT7fd&index=8>

<https://www.youtube.com/watch?v=FilfF-wy-Bg&list=PLfE13gyGbGuLi4i8RengEbsDJPfT7fd&index=9>

https://www.youtube.com/watch?v=XE97RF_j0IA&list=PLfE13gyGbGuLi4i8RengEbsDJPfT7fd&index=10

<https://www.youtube.com/watch?v=v70FQNbMRjs&list=PLfE13gyGbGuLi4i8RengEbsDJPfT7fd&index=11>

<https://www.youtube.com/watch?v=dRXA44VkhkU&list=PLfE13gyGbGuLi4i8RengEbsDJPfT7fd&index=12>

<https://www.youtube.com/watch?v=HTp27Bkxj3U&list=PLfE13gyGbGuLi4i8RengEbsDJPfT7fd&index=13>

Product Life Management [PLM]:

Module 3 Product Development

<https://www.youtube.com/watch?v=h4b9RzRAsE8&list=PLfE13gyGbGuJAGg1vbmRMC3Bt1mA7vP1Q>

Module 4 Technology Forecasting Part 1

<https://www.youtube.com/watch?v=3d-EnYsJPD0&list=PLfE13gyGbGuJAGg1vbmRMC3Bt1mA7vP1Q&index=2>

Module 5 Product Building & Structures Part 1 to 4

<https://www.youtube.com/watch?v=ZAHyprNoGTI&list=PLfE13gyGbGuJAGg1vbmRMC3Bt1mA7vP1Q&index=3>

https://www.youtube.com/watch?v=hkYm5gb_5Tc&list=PLfE13gyGbGuJAGg1vbmRMC3Bt1mA7vP1Q&index=4

https://www.youtube.com/watch?v=hkYm5gb_5Tc&list=PLfE13gyGbGuJAGg1vbmRMC3Bt1mA7vP1Q&index=5

<https://www.youtube.com/watch?v=h5USdpgf-w&list=PLfE13gyGbGuJAGg1vbmRMC3Bt1mA7vP1Q&index=6>

Mechanics of composite materials [MCM]

Mechanics of composite materials – Introduction:

https://www.youtube.com/watch?v=sHMXr3H29ac&list=PLfE13gyGbGuJI8k0dOqL5jNqBENW_3BQg

MCM –MODULE 2 –session 1 to 4

https://www.youtube.com/watch?v=xoCq4JsiuA4&list=PLfE13gyGbGuJI8k0dOqL5jNqBENW_3BQg&index=2

https://www.youtube.com/watch?v=oP2P7n6X_h0&list=PLfE13gyGbGuJI8k0dOqL5jNqBENW_3BQg&index=3

https://www.youtube.com/watch?v=IEMcuXE-PiE&list=PLfE13gyGbGuJI8k0dOqL5jNqBENW_3BQg&index=4

https://www.youtube.com/watch?v=aXYxjWICPXg&list=PLfE13gyGbGuJI8k0dOqL5jNqBENW_3BQg&index=5

MODULE 3 -Macro Mechanical analysis of lamina session 1 to 3

https://www.youtube.com/watch?v=S5oFmOsu7Lg&list=PLfE13gyGbGuJI8k0dOqL5jNqBENW_3BQg&index=7

https://www.youtube.com/watch?v=S5oFmOsu7Lg&list=PLfE13gyGbGuJI8k0dOqL5jNqBENW_3BQg&index=8

https://www.youtube.com/watch?v=CZwuOchHIuk&list=PLfE13gyGbGuJI8k0dOqL5jNqBENW_3BQg&index=9