

**Government Polytechnic Miraj**  
**Department of Mechanical Engineering**  
**List of Course Outcomes with e - learning resources**

| S . N . | Course and course code                                    | Course Outcomes   | Learning Resources  |
|---------|---|---|---|
| 1       | M111 - English ( ENG)- 22101                              | C111-a Formulate grammatically correct sentences.                                       | <a href="http://www.grammarly.com/blog">www.grammarly.com/blog</a><br><a href="https://www.britishcouncil.in/english/learnonline">https://www.britishcouncil.in/english/learnonline</a>   |
|         |   | C111-b Summarize comprehension passages.  | <a href="http://www.youtube.com/@rampatil2608">www.youtube.com/@rampatil2608</a>  |
|         |   | C111-c Compose dialogues and paragraphs for different situations.                       | <a href="https://www.britishcouncil.in/english/learnonline">https://www.britishcouncil.in/english/learnonline</a>   |
|         |   | C111-d Use relevant words as per contact.   | <a href="http://www.makeuseof.com">www.makeuseof.com</a> , <a href="http://www.vocabulary.com">www.vocabulary.com</a>   |
|         |   | C111-e Delivered prepared speeches to express ideas, thoughts and emotions.             | <a href="https://www.newagegolden.com">https://www.newagegolden.com</a>   |
| 2       | M112: Basic Scienc e (Physic s & Chemis try) (BSC)- 22102 | C112-a Estimate error in the measurement of physical quantities.                        | <a href="http://hyperphysics.phy-astr.gsu.edu/hbase/index.html">http://hyperphysics.phy-astr.gsu.edu/hbase/index.html</a>   |
|         |   | C112-b Apply the principles of electricity and magnetism to solve engineering problems. | <a href="https://ocw.mit.edu/search/?d=Physics&amp;s=department_course_numbers.sort_coursenum">https://ocw.mit.edu/search/?d=Physics&amp;s=department_course_numbers.sort_coursenum</a>   |
|         |   | C112-c Use the basic principles of heat and optics in related engineering applications. | <a href="https://www.edx.org/">https://www.edx.org/</a>   |
|         |   | C112-d Apply the catalysis process in Industries.                                       | <a href="http://www.chemguide.co.uk/">https://www.chemguide.co.uk/</a>  |
|         |   | C112-e Use corrosion preventive measures in Industries.                                 | <a href="http://eoncoat.com/corrosion-prevention-methods/">https://eoncoat.com/corrosion-prevention-methods/</a>  |
|         |   | C112-f Use relevant engineering materials in Industries.                                | <a href="http://www.andrews-cooper.com/tech-talks/materials-selection-guide-selection-of-engineering-materials/">https://www.andrews-cooper.com/tech-talks/materials-selection-guide-selection-of-engineering-materials/</a>                            |
| 3       | M113: Basic Mathe matics (BMS) - 22103                    | C113-a Apply the concepts of algebra to solve engineering related problems.             | <a href="https://www.youtube.com/watch?v=DvkQa-hxXjI">https://www.youtube.com/watch?v=DvkQa-hxXjI</a>   |
|         |   | C113-b Utilize basic concepts of trigonometry to solve elementary engineering problems. | <a href="https://www.youtube.com/watch?v=m9c_Gom_O2s&amp;list=PL9zFgBale5fv7d6kreATTWEgWmR547oVg">https://www.youtube.com/watch?v=m9c_Gom_O2s&amp;list=PL9zFgBale5fv7d6kreATTWEgWmR547oVg</a><br><a href="http://www.cuemaths.com">www.cuemaths.com</a> |
|         |   | C113-c Solve basic engineering problems under given conditions of straight line.        | <a href="https://www.youtube.com/watch?v=ffJmYKgFpac&amp;list=PLT3bOBUU3L9hh6xxjP3f_C7RRny9RfG1N">https://www.youtube.com/watch?v=ffJmYKgFpac&amp;list=PLT3bOBUU3L9hh6xxjP3f_C7RRny9RfG1N</a>   |
|         |   | C113-d Solve the problems based on measurement of regular                               | <a href="https://www.youtube.com/watch?v=2x8Yk7fWzAs">https://www.youtube.com/watch?v=2x8Yk7fWzAs</a>   |

|   |   |        |   |   |
|---|---|--------|---|---|
|   |   |        | closed figures and regular solids.  | <a href="https://testbook.com/mathss/mensuration">https://testbook.com/mathss/mensuration</a> ,<br><a href="http://www.cuemaths.com">www.cuemaths.com</a> |
|   |   | C113-e | Use basic concept of statistics to solve engineering related problems.              | nptel.ac.in,<br><a href="https://www.youtube.com/watch?v=u0LLwUabVHM">https://www.youtube.com/watch?v=u0LLwUabVHM</a>                                     |
| 4 | M114: Fundamentals of ICT (ICT)-22001   | C114-a | Use computer system and its peripherals.  | <a href="https://youtu.be/d5gPTWZ35PI?si=T8FcClJJJcx-j0SD">https://youtu.be/d5gPTWZ35PI?si=T8FcClJJJcx-j0SD</a>   |
|   |   | C114-b | Prapare Business documents using word processing tools.                             | <a href="https://youtu.be/QLfL05wPLMs?si=WssOcRuElGLO33hW">https://youtu.be/QLfL05wPLMs?si=WssOcRuElGLO33hW</a>   |
|   |   | C114-c | Interpret data and represent it graphically using spread sheet.                     | <a href="https://youtu.be/FgbEIDUs3gg?si=c7XkzXs2YrA50y7E">https://youtu.be/FgbEIDUs3gg?si=c7XkzXs2YrA50y7E</a>   |
|   |   | C114-d | Prepare professional presentation.  | <a href="https://youtu.be/WJe_oYa3itE?si=keIq3fpvl7cN4VA">https://youtu.be/WJe_oYa3itE?si=keIq3fpvl7cN4VA</a>   |
|   |   | C114-e | Use different types of web browsers.  | <a href="https://youtu.be/KqycWogup0U?si=UCaFNYU2Jqi73oNh">https://youtu.be/KqycWogup0U?si=UCaFNYU2Jqi73oNh</a>   |
| 5 | M115: Engineering Graphics (EGM) -22002 | C115-a | Draw geometrical figures and engineering curves.                                    | <a href="https://youtu.be/XlQ9INBj1n8?si=swUeKleMzqNydE3p">https://youtu.be/XlQ9INBj1n8?si=swUeKleMzqNydE3p</a>   |
|   |   | C115-b | Draw the views of given objects using principles of orthographic projection.        | <a href="https://youtu.be/dKNnTxwSS-Q?si=X9VWg1uaCNeLeYp">https://youtu.be/dKNnTxwSS-Q?si=X9VWg1uaCNeLeYp</a>   |
|   |   | C115-c | Draw isometric views of given component or from orthographic projection.            | <a href="https://youtu.be/zKFAbmnUvGU?si=808es8AFj7DhxFBS">https://youtu.be/zKFAbmnUvGU?si=808es8AFj7DhxFBS</a>   |
|   |   | C115-d | Use drawing codes, conventions and symbols as per IS SP - 46 in engineering Drawing | <a href="https://youtu.be/CNkdeyEcW2E?si=WPJxXqY2t_2ko6ym">https://youtu.be/CNkdeyEcW2E?si=WPJxXqY2t_2ko6ym</a>   |
|   |   | C115-e | Draw free hand sketches of given engineering elements.                              | <a href="https://youtu.be/Jzr5PTbvkVI?si=vRB8P3wFZbd8EV0L">https://youtu.be/Jzr5PTbvkVI?si=vRB8P3wFZbd8EV0L</a>   |
| 6 | M116: Workshop Practice(WPM)-22004      | C116-a | Select tools and machinery according to job.  | <a href="https://youtu.be/J63dZsw7Ia4?si=_Xh0eq3LLegl43kK">https://youtu.be/J63dZsw7Ia4?si=_Xh0eq3LLegl43kK</a>   |
|   |   | C116-b | Use hand tools in different shops for performing different operation..              | <a href="https://www.youtube.com/watch?v=APTsboW8Mq4">https://www.youtube.com/watch?v=APTsboW8Mq4</a>   |
|   |   | C116-c | Operate equipment and machinery in different shops.                                 | <a href="https://youtu.be/jbRgJbIGAwc?si=YgsUz0rfZFN--RWW">https://youtu.be/jbRgJbIGAwc?si=YgsUz0rfZFN--RWW</a>   |
|   |   | C116-d | Prepare job according to drawing.   | <a href="https://youtube.com/shorts/e-rKi68DeWc?si=8YoU5O3UZ2XOvqxs">https://youtube.com/shorts/e-rKi68DeWc?si=8YoU5O3UZ2XOvqxs</a>                       |
|   |   | C116-e | Maintain workshop related tools, equipment and machinery.                           | <a href="https://youtu.be/DuU2mnJcxPM?si=j-OIRfPi3II9TNN6">https://youtu.be/DuU2mnJcxPM?si=j-OIRfPi3II9TNN6</a>   |
| 7 | M121: Applied Science                   | C121-a | Select relevant material in Industry by analysing its physical properties.          | <a href="https://youtu.be/KX1_NqNTIqw?si=YrdDnJtIO6AZmoqL">https://youtu.be/KX1_NqNTIqw?si=YrdDnJtIO6AZmoqL</a>   |
|   |   | C121-b | Apply Laws of Motion in various applications.                                       | <a href="https://youtu.be/tjlKrVuFES8?si=7arOKvawNUtnccyIi">https://youtu.be/tjlKrVuFES8?si=7arOKvawNUtnccyIi</a>   |

|    |   |        |   |   |
|----|---|--------|---|---|
|    | (Physics & Chemistry) (ASM) -22202      | C121-c | Use LASER's,X-Rays and photoelectric sensors.   | <a href="https://youtu.be/l1rjErRvbgw?si=ALyAjOfxdwlRAEdt">https://youtu.be/l1rjErRvbgw?si=ALyAjOfxdwlRAEdt</a>   |
|    |   | C121-d | Select the relevant metallurgical process related to industrial applications.               | <a href="https://youtu.be/MgukjCT9o80?si=lnLHG4jRZkRIUp9V">https://youtu.be/MgukjCT9o80?si=lnLHG4jRZkRIUp9V</a>   |
|    |   | C121-e | Use relevant water treatment to solve industrial problems.                                  | <a href="https://youtu.be/NefIxAXF1GM?si=EHx9y0KbCDsDft9a">https://youtu.be/NefIxAXF1GM?si=EHx9y0KbCDsDft9a</a>   |
|    |   | C121-f | Use relevant fuel in relevant applications.   | <a href="https://youtu.be/a63QVgbbYzg?si=BIrD9Z77nRULEy6x">https://youtu.be/a63QVgbbYzg?si=BIrD9Z77nRULEy6x</a>   |
| 8  | M122: Applied Mechanics (AME) -22203    | C122-a | Identify the force systems for a given conditions by applying basics of mechanics.          | <a href="https://econtent.msbte.edu.in/econtent/econtent/IC/ajax/upload/22203/M2_U1_01_Mechanics_and_force_system.mp4">https://econtent.msbte.edu.in/econtent/econtent/IC/ajax/upload/22203/M2_U1_01_Mechanics_and_force_system.mp4</a>     |
|    |   | C122-b | Select the relevant simple Lifting machine(s) for the given purpose.                        | <a href="https://econtent.msbte.edu.in/econtent/econtent/IC/ajax/upload/22203/M2_U2_01_Lifting_Machines.mp4">https://econtent.msbte.edu.in/econtent/econtent/IC/ajax/upload/22203/M2_U2_01_Lifting_Machines.mp4</a>                         |
|    |   | C122-c | Determine the unknown force(s) of different engineering systems.                            | <a href="https://econtent.msbte.edu.in/econtent/econtent/IC/ajax/upload/22203/ME2_U3_01_Resolution_and_Composition.mp4">https://econtent.msbte.edu.in/econtent/econtent/IC/ajax/upload/22203/ME2_U3_01_Resolution_and_Composition.mp4</a>   |
|    |   | C122-d | Check the stability of various force systems.   | <a href="https://econtent.msbte.edu.in/econtent/econtent/IC/ajax/upload/22203/ME2_U4_01_Equilibrium.mp4">https://econtent.msbte.edu.in/econtent/econtent/IC/ajax/upload/22203/ME2_U4_01_Equilibrium.mp4</a>                                 |
|    |   | C122-e | Apply the principles of friction in various conditions for useful purposes.                 | <a href="https://econtent.msbte.edu.in/econtent/econtent/IC/ajax/upload/22203/ME2_U5_Friction.mp4">https://econtent.msbte.edu.in/econtent/econtent/IC/ajax/upload/22203/ME2_U5_Friction.mp4</a>   |
|    |   | C122-f | Find the centroid and center of gravity of various components in engineering systems.       | <a href="https://econtent.msbte.edu.in/econtent/econtent/IC/ajax/upload/22203/ME2_U6_Centroid_and_Centre_of_Gravity.mp4">https://econtent.msbte.edu.in/econtent/econtent/IC/ajax/upload/22203/ME2_U6_Centroid_and_Centre_of_Gravity.mp4</a> |
| 9  | M123: Applied Mathematics (AMP) - 22206 | C123-a | Calculate the equation of tangents,Maxima,Minima and radius of curvature by differentiation | <a href="https://econtent.msbte.edu.in/econtent/econtent_home.php">https://econtent.msbte.edu.in/econtent/econtent_home.php</a>   |
|    |   | C123-b | Solve the given problems of integration using suitable methods                              | <a href="https://econtent.msbte.edu.in/econtent/econtent_home.php">https://econtent.msbte.edu.in/econtent/econtent_home.php</a>   |
|    |   | C123-c | Apply the concept of integration to find area and volume                                    | <a href="https://econtent.msbte.edu.in/econtent/econtent_home.php">https://econtent.msbte.edu.in/econtent/econtent_home.php</a>   |
|    |   | C123-d | Solve the differential equation of first order and first degree using suitable methods      | <a href="https://econtent.msbte.edu.in/econtent/econtent_home.php">https://econtent.msbte.edu.in/econtent/econtent_home.php</a>   |
|    |   | C123-e | Utilize basic concepts of probability distribution to solve elementary engineering problems | <a href="https://econtent.msbte.edu.in/econtent/econtent_home.php">https://econtent.msbte.edu.in/econtent/econtent_home.php</a>   |
| 10 | M124: Engineering                       | C124-a | Draw projections of 2D and 3D standard regular entities.                                    | <a href="#"><u>PROJECTION OF PLANES IN HINDI WITH ALL BASIC CONCEPTS (LECTURE-1)</u></a><br><a href="#"><u>@TIKLESACADEMYOFMATHS</u></a>  |

|        |  |        |   |   |
|--------|--|--------|---|---|
|        | Drawing<br>(EDR)-<br>22207                                     | C124-b | Draw sectional views of objects.  | <a href="#"><u>SECTION OF SOLID SOLVED PROBLEM 1 AND DEVELOPMENT OF SURFACES PROBLEMS</u></a>   |
|        |  | C124-c | Draw orthographic sectional views of objects.   | <a href="https://youtu.be/JsuFisaXtdM?si=4-7Wn9qaTCo82DW9">https://youtu.be/JsuFisaXtdM?si=4-7Wn9qaTCo82DW9</a>   |
|        |  | C214-d | Draw missing and auxiliary views of objects.  | <a href="#"><u>Auxiliary Planes Concept Lecture1</u></a>  |
|        |  | C124-e | Use various drawing codes, conventions and symbols as per IS SP - 46.                   | <a href="#"><u>L-02 CONVENTIONAL REPRESENTATION OF MACHINE COMPONENTS IN ENGINEERING DRAWING MechInfoKVsir #TMC</u></a>   |
|        |  | C124-f | Draw free hand sketches of given engineering elements.                                  | <a href="https://youtu.be/Jzr5PTbvkVI?si=fERuREMoniq-IdQ">https://youtu.be/Jzr5PTbvkVI?si=fERuREMoniq-IdQ</a>   |
| 1<br>1 | M125:<br>Basic Communication with Computers<br>(BCC)-<br>22009 | C125-a | Communicate effectively by avoiding barriers in various formal and informal situations. | <a href="https://youtu.be/FxIwXNmijJw?si=RLx1QlhWCocFP">https://youtu.be/FxIwXNmijJw?si=RLx1QlhWCocFP</a><br>h82  |
|        |  | C125-b | Communicate skill fully using non verbal methods of communication                       | Communicate skill fully using non verbal methods of communication   |
|        |  | C125-c | Give presentations using audio video aids.  | <a href="https://youtu.be/LPREy0F3nuU?si=KDOcM88iV0kyd">https://youtu.be/LPREy0F3nuU?si=KDOcM88iV0kyd</a><br>B17  |
|        |  | C125-d | Write reports using correct guidelines.   | <a href="https://youtu.be/860LtRxP3rw?si=6Y25E8hmWAejVj">https://youtu.be/860LtRxP3rw?si=6Y25E8hmWAejVj</a><br>2M   |
|        |  | C125-e | Compose email and formal business letters.  | <a href="https://youtu.be/7xUTguLaaXI?si=K3ahqNPnpG4Oam_T">https://youtu.be/7xUTguLaaXI?si=K3ahqNPnpG4Oam_T</a>   |
| 1<br>2 | M126:<br>Mechanical Engineering Works hop<br>(MEW)-<br>22010   | C126.a | Select tools and machinery according to job.  | <a href="https://youtu.be/J63dZsw7Ia4?si=_Xh0eq3LLegl43kK">https://youtu.be/J63dZsw7Ia4?si=_Xh0eq3LLegl43kK</a>   |
|        |  | C126.b | Use hand tools in different shops for performing different operations.                  | <a href="https://www.youtube.com/watch?v=APTsboW8Mq4">https://www.youtube.com/watch?v=APTsboW8Mq4</a>   |
|        |  | C126.c | Prepare composite / utility jobs according to drawing.                                  | <a href="https://youtu.be/jbRgJbIGAwc?si=YgsUz0rfZFN--RW">https://youtu.be/jbRgJbIGAwc?si=YgsUz0rfZFN--RW</a>   |
|        |  | C126.d | Prepare composite / utility jobs according to drawing.                                  | <a href="https://youtube.com/shorts/e-rKi68DeWc?si=8YoU5O3UZ2XOvqxs">https://youtube.com/shorts/e-rKi68DeWc?si=8YoU5O3UZ2XOvqxs</a>   |
|        |  | C126.e | Maintain workshop related tools, instruments and machines.                              | <a href="https://youtu.be/DuU2mnJcxPM?si=j-OIRfPi3II9TNN6">https://youtu.be/DuU2mnJcxPM?si=j-OIRfPi3II9TNN6</a>   |
| 1<br>3 | M231:<br>Strength of Materials(SOM)-<br>22306                  | C231-a | Compute Moment of Inertia of symmetric and asymmetric structural sections.              | <a href="https://curriculum.msbte.edu.in/msbteacmon/curdev/outer.php?q=get_course_content&amp;prev=1">https://curriculum.msbte.edu.in/msbteacmon/curdev/outer.php?q=get_course_content&amp;prev=1</a> |
|        |  | C231-b | Estimate simple stresses in machine components.   | <a href="https://curriculum.msbte.edu.in/msbteacmon/curdev/outer.php?q=get_course_content&amp;prev=1">https://curriculum.msbte.edu.in/msbteacmon/curdev/outer.php?q=get_course_content&amp;prev=1</a> |
|        |  | C231-c | Perform test to evaluate mechanical properties according to India Standards.            | <a href="https://curriculum.msbte.edu.in/msbteacmon/curdev/outer.php?q=get_course_content&amp;prev=1">https://curriculum.msbte.edu.in/msbteacmon/curdev/outer.php?q=get_course_content&amp;prev=1</a> |

|  |                     |        |   |  |
|--|---------------------|--------|---|--|
|  |                     | C231-d | Compute shear force and bending moment and corresponding shear and bending stresses in beams subjected to point and uniformly distributed load. | 1) <a href="https://curriculum.msbte.edu.in/msbteacmon/curdev/outer.php?q=get_course_content&amp;prev=1">https://curriculum.msbte.edu.in/msbteacmon/curdev/outer.php?q=get_course_content&amp;prev=1</a><br>2) <a href="https://beamguru.com/">https://beamguru.com/</a>   |
|  |                     | C231-e | Estimate stresses in shafts under twisting moments.   | 1) <a href="https://curriculum.msbte.edu.in/msbteacmon/curdev/outer.php?q=get_course_content&amp;prev=1">https://curriculum.msbte.edu.in/msbteacmon/curdev/outer.php?q=get_course_content&amp;prev=1</a><br>2) <a href="https://www.youtube.com/watch?v=1YTKedLQOa0">https://www.youtube.com/watch?v=1YTKedLQOa0</a> |
|  |                     | C231-f | Estimate stresses in short member subjected to eccentric loading.   | <a href="https://curriculum.msbte.edu.in/msbteacmon/curdev/outer.php?q=get_course_content&amp;prev=1">https://curriculum.msbte.edu.in/msbteacmon/curdev/outer.php?q=get_course_content&amp;prev=1</a>  |
| 1<br>4<br><br>M232:<br>Basic<br>Electri<br>cal &<br>Electro<br>nics<br>Engin<br>eering<br>(BEE)<br>22310 |                     | C232-a | Use principles of Electrical and magnetic circuits to solve the engineering Problem.  | <a href="https://youtu.be/CMIZPVEHbns?si=NG055tfgARu8dYxB">https://youtu.be/CMIZPVEHbns?si=NG055tfgARu8dYxB</a>  |
|  |                     | C232-b | Determine Voltage and Current in AC Circuits.   | <a href="https://youtu.be/ERIToctYUcQ?si=Fgfor7_4zfDBM_bx">https://youtu.be/ERIToctYUcQ?si=Fgfor7_4zfDBM_bx</a>  |
|  |                     | C232-c | Connect transformers and DC motors for specific requirements.   | <a href="https://youtu.be/K29HtugpP0Y?si=PIcEZ38_GAKQUvVt">https://youtu.be/K29HtugpP0Y?si=PIcEZ38_GAKQUvVt</a>  |
|  |                     | C232-d | Identify electronic component in electrical circuit.  | <a href="https://youtu.be/XfQs-PQaC_E?si=jD6tUAU6RLDBVFqW">https://youtu.be/XfQs-PQaC_E?si=jD6tUAU6RLDBVFqW</a>  |
|  |                     | C232-e | Use relevant electric /electronics safely.  | <a href="https://youtu.be/XfQs-PQaC_E?si=mJoWY5WrEVx2CXsc">https://youtu.be/XfQs-PQaC_E?si=mJoWY5WrEVx2CXsc</a>  |
|  |                     | C232-f | Use relevant protective device safely.  | <a href="https://youtu.be/1VbKExNbqqk?si=N0tFKRhWwa2hYsBY">https://youtu.be/1VbKExNbqqk?si=N0tFKRhWwa2hYsBY</a>  |
| 1<br>5<br><br>M233:<br>Therm<br>al<br>Engin<br>eering<br>(TEN)<br>-22337                                 |                     | C233-a | Apply laws of thermodynamics to devices based on thermodynamics   | <a href="https://youtu.be/FGWmzMAFTSY">https://youtu.be/FGWmzMAFTSY</a>  |
|  |                     | C233-b | Use first law of thermodynamics for ideal gas in closed systems   | <a href="https://youtu.be/YPJkG1Dbw9s">https://youtu.be/YPJkG1Dbw9s</a>  |
|  |                     | C233-c | Use relevant steam boilers.   | <a href="https://youtu.be/KdBjIepzW-A">https://youtu.be/KdBjIepzW-A</a> ,<br><a href="https://youtu.be/493LPdMF1dE">https://youtu.be/493LPdMF1dE</a> ,<br><a href="https://youtu.be/XsIK4guTK7c">https://youtu.be/XsIK4guTK7c</a> ,<br><a href="https://youtu.be/tGWOepiaN1o">https://youtu.be/tGWOepiaN1o</a>       |
|  |                     | C233-d | Use relevant steam nozzles and turbines.  | <a href="https://youtu.be/dS3GpvIl6fc">https://youtu.be/dS3GpvIl6fc</a>  |
|  |                     | C233-e | Use relevant steam condensers.  | <a href="https://youtu.be/RNI2wMPWduE">https://youtu.be/RNI2wMPWduE</a>  |
|  |                     | C233-f | Use suitable modes of heat transfer.  | <a href="https://youtu.be/Me60Ti0E_rY">https://youtu.be/Me60Ti0E_rY</a>  |
| 1<br>6   | M234:<br>Mechanical | C234-a | Draw development of lateral surface of various solids.  | <a href="Development of Surface of Hollow Solids    PENTAGONAL PRISM    Zero □ to Hero □    2024">Development of Surface of Hollow Solids    PENTAGONAL PRISM    Zero □ to Hero □    2024</a>  |

|        |  |        |   |  |
|--------|--|--------|---|--|
|        | Working Drawing (MWM)-22341                        | C234-b | Draw intersection curves of various solids.                                       | <a href="#">Interpenetration of Solids Problem 1 Horizontal Square Prism vs Vertical Square Prism</a>            |
|        |  | C234-c | Use various drawing codes, conventions and symbols as per IS SP - 46.             | <a href="#">L-02 CONVENTIONAL REPRESENTATION OF MACHINE COMPONENTS IN ENGINEERING DRAWING MechInfoKVsir #TMC</a> |
|        |  | C234-d | Draw production drawings used to produce products.                                | <a href="#">PRODUCTION DRAWING !Surface roughness !For diploma mechanical semester 4 Students</a>                |
|        |  | C234-e | Draw assembly and detailed drawings of products.                                  | <a href="#">MWM UNIT 5 DETAILS TO ASSEMBLY LEC. 5(PART 3) 2) DRAW SECTIONAL T.V. ASSEMBLY OF LATHE TOOL POST</a> |
| 1<br>7 | M235: Engineering Metrol ogy (EME)-22342           | C235-a | Select the relevant instrument for measurement.                                   | <a href="https://youtu.be/HY39LA6H-Lo?si=bOekYQU-uhHhnSB">https://youtu.be/HY39LA6H-Lo?si=bOekYQU-uhHhnSB</a>    |
|        |  | C235-b | Use different type of comparators.  | <a href="https://youtu.be/uvuDejnkek4?si=NNy2iTbrxocZpJxW">https://youtu.be/uvuDejnkek4?si=NNy2iTbrxocZpJxW</a>  |
|        |  | C235-c | Select gauges, fits and tolerance for machine component.                          | <a href="https://youtu.be/miKd8HOdZO8?si=LmYY6wPss3XJqWq8">https://youtu.be/miKd8HOdZO8?si=LmYY6wPss3XJqWq8</a>  |
|        |  | C235-d | Used relevant instrument to measure different parameter of screw thread and gear. | <a href="https://youtu.be/2cUL1JQ7v1I?si=91dzId_TTAb6jeSa">https://youtu.be/2cUL1JQ7v1I?si=91dzId_TTAb6jeSa</a>  |
|        |  | C235-e | Used linear and angular measuring instruments.                                    | <a href="https://youtu.be/HLDs07-Bu2c?si=OphhEA5mZMw2mGpj">https://youtu.be/HLDs07-Bu2c?si=OphhEA5mZMw2mGpj</a>  |
|        |  | C235-f | Select the surface testing methods.   | <a href="https://youtu.be/WnKXj61YKKA?si=fMhro2fSnlcQDk1H">https://youtu.be/WnKXj61YKKA?si=fMhro2fSnlcQDk1H</a>  |
| 1<br>8 | M236: Mechanical Engineering Materials (MEM)-22343 | C236-a | Identify properties of materials.   | <a href="https://youtu.be/340MmuY_osY?si=ySWiMVb6WPi6J1PZ">https://youtu.be/340MmuY_osY?si=ySWiMVb6WPi6J1PZ</a>  |
|        |  | C236-b | Select relevant ferrous materials for mechanical components                       | <a href="https://youtu.be/KX1_NqNTIqw?si=H_tRcFSFco_DLr85">https://youtu.be/KX1_NqNTIqw?si=H_tRcFSFco_DLr85</a>  |
|        |  | C236-c | Select relevant Cast Iron for the engineering applications.                       | <a href="https://youtu.be/NYWNhAvR8ZE?si=XJ-Bif7YUKzZvwVU">https://youtu.be/NYWNhAvR8ZE?si=XJ-Bif7YUKzZvwVU</a>  |
|        |  | C236-d | Use nonferrous metals for mechanical components                                   | <a href="https://youtu.be/n1shlO6TUho?si=-MWa-CcffP7PQo8V">https://youtu.be/n1shlO6TUho?si=-MWa-CcffP7PQo8V</a>  |
|        |  | C236-e | Select relevant advanced materials for for mechanical components                  | <a href="https://youtu.be/ynR2B90UOoI?si=9HRfGMXhnGLQun86">https://youtu.be/ynR2B90UOoI?si=9HRfGMXhnGLQun86</a>  |
|        |  | C236-f | Suggest relevant heat treatment process   | <a href="https://youtu.be/CsFJGF3oCyc?si=Mb3xfP50FLOIRcAf">https://youtu.be/CsFJGF3oCyc?si=Mb3xfP50FLOIRcAf</a>  |
| 1<br>9 | M241: Theory of Machines (TOM)-22438               | C141-a | Identify different machine elements and mechanism                                 | <a href="https://youtu.be/7WppBa-cLuk?si=Cpt3ZMaZMHRH6MoB">https://youtu.be/7WppBa-cLuk?si=Cpt3ZMaZMHRH6MoB</a>  |
|        |  | C141-b | Apply Different methods for dynamic analysis of different mechanism               | <a href="https://youtu.be/at5NmoCJv4A?si=ce0l3ea3BwQsJbPy">https://youtu.be/at5NmoCJv4A?si=ce0l3ea3BwQsJbPy</a>  |
|        |  | C141-c | Draw cam profile suitable to various displacement diagrams                        | <a href="https://youtu.be/Hct6YW_8NYc?si=N3Z4yuEU3IOJpTa_">https://youtu.be/Hct6YW_8NYc?si=N3Z4yuEU3IOJpTa_</a>  |

|        |   |        |   |   |
|--------|---|--------|---|---|
|        |   | C141-d | Select suitable power transmission system for particular application                            | <a href="https://youtu.be/NOczQ6OiqIk?si=33JaR79JnMDrz88Y">https://youtu.be/NOczQ6OiqIk?si=33JaR79JnMDrz88Y</a>   |
|        |   | C141-e | Discuss the function, operation, application and design of brake, dynamometer, clutch & bearing | <a href="https://youtu.be/9OmJB8wNVIs?si=06bwIYruXtPVKM2">https://youtu.be/9OmJB8wNVIs?si=06bwIYruXtPVKM2</a>   |
|        |   | C141-f | Illustrate the function, operation and applications of flywheel, governor and rotary balancing  | <a href="https://youtu.be/n5JlGxwI_DI?si=Xyx8VsQVxDiAlMoh">https://youtu.be/n5JlGxwI_DI?si=Xyx8VsQVxDiAlMoh</a>   |
| 2<br>0 | M242:<br>Mechanical<br>Engineering<br>Measurements<br>(MEM)<br>-22443 | C242-a | Use relevant instruments for measuring displacement.  | <a href="https://youtu.be/XSjphe9QOuU">https://youtu.be/XSjphe9QOuU</a>   |
|        |   | C242-b | Use relevant instruments for measuring force and torque.  | <a href="https://youtu.be/Mts5Cr_BNCg">https://youtu.be/Mts5Cr_BNCg</a>   |
|        |   | C242-c | Use relevant pressure and temperature measuring instruments.                                    | <a href="https://youtu.be/fmOnrEZ_z6k">https://youtu.be/fmOnrEZ_z6k</a><br><a href="https://youtu.be/v7NUi88Lxi8">https://youtu.be/v7NUi88Lxi8</a>  |
|        |   | C242-d | Use relevant instruments for measurement of flow.   | <a href="https://youtu.be/0KIj-r6hp1g">https://youtu.be/0KIj-r6hp1g</a>   |
|        |   | C242-e | Select relevant instruments for measurement of vibration and strain                             | <a href="https://youtu.be/3KsRjnn83T0">https://youtu.be/3KsRjnn83T0</a>   |
|        |   | C242-f | Select relevant instruments for speed and sound measurement.                                    | <a href="https://youtu.be/1wrD4JLgb1c?si=tV8i9OULq0Y2QtO5">https://youtu.be/1wrD4JLgb1c?si=tV8i9OULq0Y2QtO5</a>   |
| 2<br>1 | M243:<br>Fluid<br>Mechanics<br>and<br>Machinery<br>(FMM)<br>-22445    | C243-a | Use Manometers and Bourdon gauge to measure pressure.   | <a href="https://www.youtube.com/watch?v=XdXWUaZoREY&amp;t=7s">https://www.youtube.com/watch?v=XdXWUaZoREY&amp;t=7s</a>   |
|        |   | C243-b | Use flow meters to measure the rate of flow.  | <a href="https://youtu.be/0KIj-r6hp1g?si=HZ3GCxkSUMk7eRvs">https://youtu.be/0KIj-r6hp1g?si=HZ3GCxkSUMk7eRvs</a>   |
|        |   | C243-c | Maintain flow through pipes.  | <a href="https://youtu.be/wXeAmeTn-QU?si=-gYpHcPAUssMHjHy">https://youtu.be/wXeAmeTn-QU?si=-gYpHcPAUssMHjHy</a>   |
|        |   | C243-d | Maintain the jet impact on various types of vanes for optimum efficiency.                       | <a href="https://youtu.be/O-nISjJ1xoY?si=LH-EXI8AqI6zIwdw">https://youtu.be/O-nISjJ1xoY?si=LH-EXI8AqI6zIwdw</a>   |
|        |   | C243-e | Maintain hydraulic turbines.  | <a href="https://youtu.be/BZ9WHt-CSv0?si=SNdz83KrYxh5dd0f">https://youtu.be/BZ9WHt-CSv0?si=SNdz83KrYxh5dd0f</a>   |
|        |   | C243-f | Maintain hydraulic pumps.   | <a href="https://youtu.be/dxEhpShzIk?si=tqVdIeD2rtdlgr4L">https://youtu.be/dxEhpShzIk?si=tqVdIeD2rtdlgr4L</a>   |
| 2<br>2 | M244:<br>Manufacturing<br>Processes<br>(MPR)<br>-22446                | C244-a | Produce jobs using lathe and drilling machines.   | <a href="https://youtu.be/km6ickQglIVY">https://youtu.be/km6ickQglIVY</a><br><a href="https://youtu.be/sG6GCfX7L3c">https://youtu.be/sG6GCfX7L3c</a><br><a href="https://youtu.be/GHukUKMLDMY">https://youtu.be/GHukUKMLDMY</a> |
|        |   | C244-b | Produce jobs using shaping and slotting operations.   | <a href="https://youtu.be/lyRtPFJj8vI">https://youtu.be/lyRtPFJj8vI</a><br><a href="https://youtu.be/L0BT2OOSNjl">https://youtu.be/L0BT2OOSNjl</a>  |
|        |   | C244-c | Prepare product using different casting processes.  | <a href="https://youtu.be/DuOMrOqs86s">https://youtu.be/DuOMrOqs86s</a><br><a href="https://youtu.be/EIBDp6U8bHo">https://youtu.be/EIBDp6U8bHo</a>  |

|   |        |  |   |   |
|---|--------|--|---|---|
|   |        | C244-d   | Prepare products using different forming processes. | <a href="https://youtu.be/Um_g8sQ_p3Y">https://youtu.be/Um_g8sQ_p3Y</a>   |
|   |        | C244-e   | Use joining processes to produce jobs.              | <a href="https://youtu.be/ZLlwfXSXEVc?list=PLSGws_74K01_zyzpQkNtm-6ickGhCwi-4">https://youtu.be/ZLlwfXSXEVc?list=PLSGws_74K01_zyzpQkNtm-6ickGhCwi-4</a>   |
| 2<br>3<br>M245:<br>Enviro<br>nmenta<br>l<br>Studies<br>(EVS)<br>-22447            | C245-a | Develop public awareness about the environment.  |   | <a href="https://youtu.be/8u-SrHapsLs">https://youtu.be/8u-SrHapsLs</a>   |
|   |        | Select alternative energy resources for engineering practice.  |   | <a href="https://youtu.be/mh51mAUexK4?list=PLwdnzlV3ogo_XUiFhvYB65ILJCZ74o_fAk">https://youtu.be/mh51mAUexK4?list=PLwdnzlV3ogo_XUiFhvYB65ILJCZ74o_fAk</a> |
|   |        | Conserve ecosystem and biodiversity  |   | <a href="https://youtu.be/GK_vRtHJZu4">https://youtu.be/GK_vRtHJZu4</a>   |
|   |        | Apply techniques to reduce environmental pollution.  |   | <a href="https://youtu.be/DsTmKa6sKa0">https://youtu.be/DsTmKa6sKa0</a>   |
|   |        | Manage social issues and environmental ethics as lifelong learning   |   | <a href="https://youtu.be/jQtJVihXuS0">https://youtu.be/jQtJVihXuS0</a>   |
| 2<br>4<br>M246:<br>Compu<br>ter<br>Aided<br>Draftin<br>g<br>(CAD)<br>-22042       | C246-a | Draw the file management in a CAD software.  |   | <a href="https://youtu.be/mHo83dfDWQ8">https://youtu.be/mHo83dfDWQ8</a><br><a href="https://youtu.be/9nO6oEhWXgY">https://youtu.be/9nO6oEhWXgY</a>        |
|   |        | Draw complex 2D geometric figures using CAD software.  |   | <a href="https://youtu.be/E8ilSXw5zXM?list=PLLE0YYaxTcE_JuAS3aON2Ui-GsMVEaMVyv">https://youtu.be/E8ilSXw5zXM?list=PLLE0YYaxTcE_JuAS3aON2Ui-GsMVEaMVyv</a> |
|   |        | Modify complex 2D geometric figures using CAD software.  |   | <a href="https://youtu.be/mxtKebeYSok">https://youtu.be/mxtKebeYSok</a>   |
|   |        | Use software to dimensions and write text on existing 2D entities.   |   | <a href="https://youtu.be/AJwVjJunFMM">https://youtu.be/AJwVjJunFMM</a>   |
|   |        | Use software to plot existing drawings with desired plot parameters.   |   | <a href="https://youtu.be/is-LLHtEpVE">https://youtu.be/is-LLHtEpVE</a>   |
|   |        | Create isometric drawing using CAD software.   |   | <a href="https://youtu.be/jJQuQN-Ve4s">https://youtu.be/jJQuQN-Ve4s</a>   |
|   |        | Use layers and blocks to create digital drawing using relevant software.   |   | <a href="https://youtu.be/IUHMFnBZzyQ">https://youtu.be/IUHMFnBZzyQ</a>   |
| 2<br>5<br>M247:<br>Fundame<br>ntal<br>s of<br>Mechat<br>ronics<br>(FOM)<br>-22048 | C247-a | Identify different instruments sensor actuator microprocessor software and mechanical components in mechatronics based systems |   | <a href="https://youtu.be/IIf7zH5cIX8?list=PL91lquAVmESBq_KLU0Tn5gRVXVyW5KLgCa">https://youtu.be/IIf7zH5cIX8?list=PL91lquAVmESBq_KLU0Tn5gRVXVyW5KLgCa</a> |
|   |        | Use sensor for different mechatronics applications   |   | <a href="https://youtu.be/XI49uFm5HRE">https://youtu.be/XI49uFm5HRE</a>   |
|   |        | Use transducers for different mechatronics based applications  |   | <a href="https://youtu.be/zxYeJW9v6OU?list=PLwymdQ84KI-w5DwDzqO_4hWsB2Jc4_eBy">https://youtu.be/zxYeJW9v6OU?list=PLwymdQ84KI-w5DwDzqO_4hWsB2Jc4_eBy</a>   |
|   |        | Use actuator for various mechatronics based application  |   | <a href="https://youtu.be/gokPA6OWaZ4">https://youtu.be/gokPA6OWaZ4</a>   |

|        |   |        |  |   |
|--------|---|--------|--|---|
|        |   | C247-e | Program PLC for various applications   | <a href="https://youtu.be/ceCQQdVgiEY?list=PL3y71jAPOdZButHZVBAqjxt0NUUyXbN_K">https://youtu.be/ceCQQdVgiEY?list=PL3y71jAPOdZButHZVBAqjxt0NUUyXbN_K</a>   |
|        |   | C247-f | Use microprocessor and microcontroller for various mechatronics based applications.              | <a href="https://youtu.be/dcNk0urQsQM">https://youtu.be/dcNk0urQsQM</a>   |
| 2<br>6 | M351:<br>Management<br>(MAN)-<br>t22509   | C351-a | Use basic management principles to execute daily activities.                                     | <a href="https://drive.google.com/file/d/1KLZc6eRUnalFj_xRzr5e5j76wDsybim7/view">https://drive.google.com/file/d/1KLZc6eRUnalFj_xRzr5e5j76wDsybim7/view</a>   |
|        |   | C351-b | Use principles of planning and organising for accomplishment of tasks.                           | <a href="https://drive.google.com/file/d/1_cph1ncqp8b8XyN5lln57yFCj8Ulc3xs/view">https://drive.google.com/file/d/1_cph1ncqp8b8XyN5lln57yFCj8Ulc3xs/view</a>   |
|        |   | C351-c | Use principles of directing and controlling for implementing the plans.                          | <a href="https://drive.google.com/file/d/1Q5wjv2M8yilVISc7kTIBcUzfy75EqwyQ/view">https://drive.google.com/file/d/1Q5wjv2M8yilVISc7kTIBcUzfy75EqwyQ/view</a>   |
|        |   | C351-d | Apply principles of safety management in all activities.   | <a href="https://drive.google.com/file/d/1obY9T8H62TsQvPXOtjXLU48NurPNb94/view">https://drive.google.com/file/d/1obY9T8H62TsQvPXOtjXLU48NurPNb94/view</a>   |
|        |   | C351-e | Understand various provisions of industrial Acts   | <a href="https://drive.google.com/file/d/1wJ6f2hT0EXDNRdzrFsmvKqvDvwsejoqn/view">https://drive.google.com/file/d/1wJ6f2hT0EXDNRdzrFsmvKqvDvwsejoqn/view</a>   |
| 2<br>7 | M352:<br>Power<br>Engine<br>ering<br>and<br>Refrige<br>ration<br>(PER)-<br>22562    | C352-a | Identify different components of I.C.Engines and its auxiliaries.                                | <a href="https://youtu.be/fw8Jfoif1BM">https://youtu.be/fw8Jfoif1BM</a>   |
|        |   | C352-b | Test the performance of I.C.Engines.   | <a href="https://youtu.be/kbDsjcJc95U">https://youtu.be/kbDsjcJc95U</a>   |
|        |   | C352-c | Maintain Reciprocating air compressor .  | <a href="https://youtu.be/1KGgQl1TYgE">https://youtu.be/1KGgQl1TYgE</a>   |
|        |   | C352-d | Identify different components of gas turbines and jet engines.                                   | <a href="https://youtu.be/BodpRrn0iOI">https://youtu.be/BodpRrn0iOI</a><br><a href="https://youtu.be/amvrL0FU1ng">https://youtu.be/amvrL0FU1ng</a>  |
|        |   | C352-e | Test the performance of Refrigeration and air-conditioning systems.                              | <a href="https://youtu.be/PjcdqAkP0UA">https://youtu.be/PjcdqAkP0UA</a><br><a href="https://youtu.be/gVLhrLTF878">https://youtu.be/gVLhrLTF878</a>  |
| 2<br>8 | M353:<br>Advanc<br>ed<br>Manuf<br>acturin<br>g<br>Process<br>es<br>(AMP)<br>- 22563 | C314-a | Maintain the non conventional machining process to produce Complex and hard to machine component | <a href="https://youtu.be/HkUFcDRP6RM">https://youtu.be/HkUFcDRP6RM</a><br><a href="https://youtu.be/kh4DSOtef4k">https://youtu.be/kh4DSOtef4k</a><br><a href="https://youtu.be/b1nX7WVIN7U">https://youtu.be/b1nX7WVIN7U</a><br><a href="https://youtu.be/fQv1FoP7vq4">https://youtu.be/fQv1FoP7vq4</a><br><a href="https://youtu.be/tTnXn498F90">https://youtu.be/tTnXn498F90</a> |
|        |   | C314-b | Produce components using milling machine   | <a href="https://youtu.be/aeOaAZRwpfY">https://youtu.be/aeOaAZRwpfY</a>   |
|        |   | C314-c | Choose relevant machining process to produce gears   | <a href="https://youtu.be/B0XSsa79Y1w">https://youtu.be/B0XSsa79Y1w</a>   |
|        |   | C314-d | Maintain CNC machine to produce components effectively   | <a href="https://youtu.be/FNYEXjRmDtI">https://youtu.be/FNYEXjRmDtI</a>   |
|        |   | C314-e | Prepare CNC part programs for simple components  | <a href="https://youtu.be/ZgWYoFWTKJc">https://youtu.be/ZgWYoFWTKJc</a>   |

|        |  |        |  |   |
|--------|--|--------|--|---|
|        |  | C314-f | Maintain the functioning of automated equipment  | <a href="https://youtu.be/uEhuxYXPTOE">https://youtu.be/uEhuxYXPTOE</a>   |
| 2<br>9 | M354:<br>Elements of<br>Machine<br>Design<br>(EMD)<br>-22564               | C354-a | Select suitable materials for designing machine elements.                                    | <a href="https://youtu.be/ynR2B90UOoI">https://youtu.be/ynR2B90UOoI</a>   |
|        |  | C354-b | Design joints and levers for various applications.   | <a href="https://youtu.be/Ih6h_c2zkh0">https://youtu.be/Ih6h_c2zkh0</a>   |
|        |  | C354-c | Design the power transmission elements like shafts, keys and couplings.                      | <a href="https://youtu.be/3Hjmile-cNU?list=PL4K9r9dYCOoo-snj8qm-zNnHVjjn5E5Gk">https://youtu.be/3Hjmile-cNU?list=PL4K9r9dYCOoo-snj8qm-zNnHVjjn5E5Gk</a>   |
|        |  | C354-d | Recommend the power screws and suitable fasteners for different applications.                | <a href="https://youtu.be/70hESLwUhME?si=fNqUvA8rZprMZc9D">https://youtu.be/70hESLwUhME?si=fNqUvA8rZprMZc9D</a>   |
|        |  | C354-e | Choose springs for various applications.   | <a href="https://youtu.be/CaRo8y7qvfE?si=STAHxeMn43nUhJZO">https://youtu.be/CaRo8y7qvfE?si=STAHxeMn43nUhJZO</a>   |
|        |  | C354-f | Select standard components with their specifications from the manufacturer's catalogue.      | <a href="https://youtu.be/Gp6p1sY5qgE?si=krpqFxAKE_lpRU">https://youtu.be/Gp6p1sY5qgE?si=krpqFxAKE_lpRU</a><br><a href="https://youtu.be/CaRo8y7qvfE?si=STAHxeMn43nUhJZO">Cm</a>  |
| 3<br>0 | M355:<br>Power<br>Plant<br>Engine<br>ering<br>(PPE)-<br>22566              | C355-a | Identify various components of Hydro, Steam, Gas , Diesel power plant.                       | <a href="https://youtu.be/j_JL-Z_h6Q">https://youtu.be/j_JL-Z_h6Q</a><br><a href="https://youtu.be/HGVDu1z5YQ8">https://youtu.be/HGVDu1z5YQ8</a><br><a href="https://youtu.be/622o4WeZ6HA">https://youtu.be/622o4WeZ6HA</a> |
|        |  | C355-b | Select a high pressure Boiler for the power generation capacity of plants.                   | <a href="https://youtu.be/8kYUUN78clY">https://youtu.be/8kYUUN78clY</a>   |
|        |  | C355-c | Identify components of steam , Diesel and Gas turbine power plants.                          | <a href="https://youtu.be/j_JL-Z_h6Q">https://youtu.be/j_JL-Z_h6Q</a><br><a href="https://youtu.be/HGVDu1z5YQ8">https://youtu.be/HGVDu1z5YQ8</a><br><a href="https://youtu.be/622o4WeZ6HA">https://youtu.be/622o4WeZ6HA</a> |
|        |  | C355-d | Measure waste heat recovery in a typical thermal power plant.                                | <a href="https://youtu.be/R8tECZvCph8">https://youtu.be/R8tECZvCph8</a>   |
|        |  | C355-e | Identify components of Nuclear Power Plants .  | <a href="https://youtu.be/k2rYDwcB4SA">https://youtu.be/k2rYDwcB4SA</a>   |
|        |  | C355-f | Estimate economic parameters of power plants.  | <a href="https://youtu.be/y7m7VFC9fww">https://youtu.be/y7m7VFC9fww</a>   |
| 3<br>1 | M356:<br>Solid<br>Modell<br>ing &<br>Additiv<br>e<br>Manuf<br>acturin<br>g | C356-a | Prepare 2D drawing using sketcher workbench of Any parametric CAD software                   | <a href="https://youtu.be/ont1ubQbV1M?si=951JoF2bqREV2K3l">https://youtu.be/ont1ubQbV1M?si=951JoF2bqREV2K3l</a>   |
|        |  | C356-b | Generate 3D solid models from 2D sketch using part workbench of Any parametric CAD software. | <a href="https://youtu.be/hKIaQZlua6A?si=y1VNmJ1GOUvOXnkT">https://youtu.be/hKIaQZlua6A?si=y1VNmJ1GOUvOXnkT</a>   |
|        |  | C356-c | Prepare assembly of part models using assembly   | <a href="https://youtu.be/MjX1ZGjt2o8?si=hxB0QX3zkBbm_4uY">https://youtu.be/MjX1ZGjt2o8?si=hxB0QX3zkBbm_4uY</a>   |

|        |   |        |  |   |
|--------|---|--------|--|---|
|        | (SMA)-22053   |        | workbench of Any parametric CAD software.  |   |
|        |   | C356-d | Generate orthographic 3D solid models/ assemblies using drafting workbench of Any parametric CAD software    | <a href="https://youtu.be/Lph_Xszkaow?si=PgZ7I9dNikEggsUB">https://youtu.be/Lph_Xszkaow?si=PgZ7I9dNikEggsUB</a>   |
|        |   | C356-e | Plot a drawing for given part model / assembly   | <a href="https://youtu.be/dKNnTxwSS-Q?si=FR4aqqwBq1rWTG8i">https://youtu.be/dKNnTxwSS-Q?si=FR4aqqwBq1rWTG8i</a>   |
|        |   | C356-f | Print components using 3D Printers/ Rapid prototyping machine prototyping machine                            | <a href="https://youtu.be/q_ByyRWxUXM?si=9zxWJVzdzs2iOQSb">https://youtu.be/q_ByyRWxUXM?si=9zxWJVzdzs2iOQSb</a>   |
| 3<br>2 | M357:<br>Industrial<br>Training<br>(ITR)-<br>22057          | C357-a | Communicate effectively (verbal as well as written) the work carried out.                                    | <a href="https://youtu.be/QGHBq5OEseBM?si=rCQjpaevgso_Ga0v">https://youtu.be/QGHBq5OEseBM?si=rCQjpaevgso_Ga0v</a> |
|        |   | C357-b | Prepare and present the report of the work carried out.  | <a href="https://youtu.be/T3CZe5Rj_bI?si=KGKHnGeT5YTnqKX">https://youtu.be/T3CZe5Rj_bI?si=KGKHnGeT5YTnqKX</a>     |
|        |   | C357-c | Exercise time management and safety in the work environment.   | <a href="https://youtu.be/vhGG2XDwAuE?si=rxr080cyjKQ0E9z3">https://youtu.be/vhGG2XDwAuE?si=rxr080cyjKQ0E9z3</a>   |
|        |   | C357-d | Working in a team.   | <a href="https://youtu.be/92ht92Dotk?si=XW2sYC7Pvb5a0Dn_">https://youtu.be/92ht92Dotk?si=XW2sYC7Pvb5a0Dn_</a>     |
|        |   | C357-e | Demonstrate various quality assurance  | <a href="https://youtu.be/4neq2L6yDRI?si=oh05pBTdmhnLDwMj">https://youtu.be/4neq2L6yDRI?si=oh05pBTdmhnLDwMj</a>   |
|        |   | C357-f | Exhibit the work carried out   | <a href="https://youtu.be/L6QMlnTNCPA?si=JZOkbYD5mWRYt323">https://youtu.be/L6QMlnTNCPA?si=JZOkbYD5mWRYt323</a>   |
| 3<br>3 | M358:<br>Capstone<br>Project<br>Planning<br>(CPP)-<br>22058 | C358-a | Write the problem/task specifications in existing systems related to the occupation                          | <a href="https://youtu.be/8EBWxW5Cn1g?si=Qko-pz0KfK4Q2gPi">https://youtu.be/8EBWxW5Cn1g?si=Qko-pz0KfK4Q2gPi</a>   |
|        |   | C358-b | Select, collect and use required information /knowledge to solve the problem/complete the task.              | <a href="https://youtu.be/q17s84ADGfA?si=4C5YLvThtSNNfmk8">https://youtu.be/q17s84ADGfA?si=4C5YLvThtSNNfmk8</a>   |
|        |   | C358-c | Logically choose relevant possible solutions.  | <a href="https://youtu.be/Dpfupv9XSku?si=2rfPyfA0My09PiiA">https://youtu.be/Dpfupv9XSku?si=2rfPyfA0My09PiiA</a>   |
|        |   | C358-d | Consider the ethical issues related to the project if any.   | <a href="https://youtu.be/mtLPd2u4DiA?si=y224D4SilFaCzwe">https://youtu.be/mtLPd2u4DiA?si=y224D4SilFaCzwe</a>     |
|        |   | C358-e | Assess the impact of the project on society.   | <a href="https://youtu.be/1gDOCCy3foE?si=FWQsqH5Ps1cs0wkj">https://youtu.be/1gDOCCy3foE?si=FWQsqH5Ps1cs0wkj</a>   |
|        |   | C358-f | Prepare project proposals with an action plan and time duration scientifically before beginning the project. | <a href="https://youtu.be/jsGBuu88WE0?si=eukSEYhCl8_FHVhV">https://youtu.be/jsGBuu88WE0?si=eukSEYhCl8_FHVhV</a>   |
|        |   | C358-g | Communicate effectively and confidently as a member and leader of a team.                                    | <a href="https://youtu.be/em6EJ7-MFcw?si=b7eSr3njFAwmNXax">https://youtu.be/em6EJ7-MFcw?si=b7eSr3njFAwmNXax</a>   |

|        |  |  |  |
|--------|--|--|--|
| 3<br>4 | M361: Emerging Trends in Mechanical Engineering (ETM) -22652 | <p>C361-a Identify different new systems available in Automobile</p> <p>C361-b Apply heat engineering principles in process boilers and waste heat recovery systems used in process industry.</p> <p>C361-c Cite examples in modern manufacturing technology in industry.</p> <p>C361-d Use different standards for energy management and Audit of a given system.</p> <p>C361-e Select recent agricultural equipment for pre and post harvesting.</p> | <p><a href="https://youtu.be/EgF01aSQyno?si=NR0kB5HdkVYN4BG">https://youtu.be/EgF01aSQyno?si=NR0kB5HdkVYN4BG</a></p> <p><a href="https://youtu.be/bo5lL_K-zaQ?si=JvjrLPLVab8jDMv7">https://youtu.be/bo5lL_K-zaQ?si=JvjrLPLVab8jDMv7</a></p> <p><a href="https://youtu.be/-j1IWspIo4c?si=mvROLeQDDi-XyJAV">https://youtu.be/-j1IWspIo4c?si=mvROLeQDDi-XyJAV</a></p> <p><a href="https://youtu.be/rbgw8NhNd_M?si=IZBxVFVN7E9r87KC">https://youtu.be/rbgw8NhNd_M?si=IZBxVFVN7E9r87KC</a></p> <p><a href="https://youtu.be/hzuJwWKQS8Y?si=OohcubmIHdgrvbVy">https://youtu.be/hzuJwWKQS8Y?si=OohcubmIHdgrvbVy</a></p>                                     |
| 3<br>5 | M362: Industrial hydraulics and Pneumatics (IHP)-22655       | <p>C362-a Identify various components of hydraulic &amp; pneumatic systems.</p>  | <p><a href="https://www.youtube.com/watch?v=xSGxOfwWm_E">https://www.youtube.com/watch?v=xSGxOfwWm_E</a></p> <p><a href="https://www.youtube.com/watch?v=RMfcGWViLn0">https://www.youtube.com/watch?v=RMfcGWViLn0</a></p> <ul style="list-style-type: none"> <li>● <i>Pneumatic and Hydraulic Systems - An Introduction</i><br/>This video provides an overview of the components and functions of pneumatic and hydraulic systems.<br/><a href="#">Watch here</a></li> <li>● <i>Introduction to Pneumatic Systems (Part 1 of 2)</i><br/>An introductory lesson comparing pneumatic and hydraulic systems.<br/><a href="#">Watch here</a></li> </ul> |
|        |  | <p>C362-b Select pump and actuators for given fluid operating system.</p>  | <p>a) Hydraulic Pumps:<br/><a href="https://en.wikipedia.org/wiki/Hydraulic_pump">https://en.wikipedia.org/wiki/Hydraulic_pump</a></p> <p>b) Hydraulic Pumps:<br/><a href="http://www.hydraulicspneumatics.com/.../HydraulicPumpsM/.../TechZone-HydraulicPumps.">www.hydraulicspneumatics.com/.../HydraulicPumpsM/.../TechZone-HydraulicPumps.</a></p> <p>c) Animation of Hydraulic pumps:<br/><a href="https://www.youtube.com/watch?v=Qy1iV6EzNHg">https://www.youtube.com/watch?v=Qy1iV6EzNHg</a></p>   |

|        |  |   |
|--------|--|---|
|        |  | <p>d) Animation of Hydraulic pumps:<br/> <a href="https://www.youtube.com/watch?v=pWuxYnqYDnk">https://www.youtube.com/watch?v=pWuxYnqYDnk</a></p> <p>e) Eaton Pump assembly:<br/> <a href="https://www.youtube.com/watch?v=sEVTIRYHoGg">https://www.youtube.com/watch?v=sEVTIRYHoGg</a></p> <ul style="list-style-type: none"> <li>● <i>Fundamentals of Hydraulics, Pneumatics, and Actuators</i><br/> This video explains the basics of fluid power, including pumps and actuators.<br/> <a href="#">Watch here</a></li> <li>● <i>Hydraulic and Pneumatic Systems - YouTube Channel</i><br/> A channel dedicated to the workings of hydraulic, pneumatic, and mechanical devices, including pumps and actuators.<br/> <a href="#">Explore the channel</a></li> </ul>  |
| C362-c | Select appropriate control valves for a given fluid operated system. | <p>a) Video lectures of IIT Faculty:<br/> <a href="http://nptel.ac.in/courses/112105047/">http://nptel.ac.in/courses/112105047/</a></p> <p>b) Lecture series and notes by IIT faculty:<br/> <a href="http://nptel.ac.in/courses/112106175/">http://nptel.ac.in/courses/112106175/</a></p> <p>c) Pneumatic control valves animation:<br/> <a href="https://www.youtube.com/watch?v=XAItnsUcES0">https://www.youtube.com/watch?v=XAItnsUcES0</a></p> <p>d) Control valve symbol generation:<br/> <a href="https://www.youtube.com/watch?v=yIot4shcOkE">https://www.youtube.com/watch?v=yIot4shcOkE</a></p> <p>e) Animation of D.C Valve:<br/> <a href="https://www.youtube.com/watch?v=jsMJbJQkGTs">https://www.youtube.com/watch?v=jsMJbJQkGTs</a></p> <p>f) Animation of 4/2,4/3 D.C Valves:<br/> <a href="https://www.youtube.com/watch?v=CQPwvWXbV3w">https://www.youtube.com/watch?v=CQPwvWXbV3w</a></p> <ul style="list-style-type: none"> <li>● <i>Hydraulic and Pneumatic Systems - YouTube Channel</i><br/> This channel offers videos on various</li> </ul> |

|        |   |  |  |
|--------|---|--|--|
|        |   |  | <p>components, including control valves.</p> <p><a href="#">Explore the channel</a></p>  |
|        | C363-d                                    | Select compressor and appropriate accessories for given fluid operated | <p><a href="https://www.youtube.com/watch?v=Wb061mWKvtk">https://www.youtube.com/watch?v=Wb061mWKvtk</a><br/> <a href="https://www.youtube.com/watch?v=6dyBENhSwDw">https://www.youtube.com/watch?v=6dyBENhSwDw</a></p> <ul style="list-style-type: none"> <li>● <i>How an Industrial Pneumatic System Works and the Five Components</i><br/>           Learn about the typical components of a pneumatic system, including compressors.<br/> <a href="#">Watch here</a></li> </ul>  |
|        | C363-e                                    | Develop different hydraulic circuits for given simple application      | <p>a) Animation of Hydraulic cylinder:<br/> <a href="https://www.youtube.com/watch?v=bovfDsAYSbc">https://www.youtube.com/watch?v=bovfDsAYSbc</a></p> <p>Telescopic cylinder animation:<br/> <a href="https://www.youtube.com/watch?v=icaqvfAtccY">https://www.youtube.com/watch?v=icaqvfAtccY</a></p> <ul style="list-style-type: none"> <li>● <i>Hydraulic and Pneumatic Systems - YouTube Channel</i><br/>           This channel provides insights into hydraulic circuits and their applications.<br/> <a href="#">Explore the channel</a></li> </ul> |
|        | C362-f                                    | Develop different pneumatic circuits for given simple application      | <p>a) a) Pneumatic cylinder:<br/> <a href="https://www.youtube.com/watch?v=MmYpzgh6Gok">https://www.youtube.com/watch?v=MmYpzgh6Gok</a></p> <p>b) Speed control hydraulic circuit:<br/> <a href="https://www.youtube.com/watch?v=4eCuPVxezzY">https://www.youtube.com/watch?v=4eCuPVxezzY</a></p> <ul style="list-style-type: none"> <li>● <i>Pneumatic and Hydraulic Systems - YouTube Playlist</i><br/>           A playlist covering various aspects of pneumatic systems, including circuit design.<br/> <a href="#">Watch here</a></li> </ul>         |
| 3<br>6 | M363: Automobile Engine ering (AEN)-22656 | C363-a   | <p>Prepare vehicle layout with chassis specification.</p> <p><a href="https://auto.howstuffworks.com/automobile.htm">https://auto.howstuffworks.com/automobile.htm</a></p>   |
|        |   | C363-b   | <p>Interpret power flow diagrams of Transmission Systems</p> <p><a href="https://youtu.be/o1ED4FQjDGk?si=0dPaptAJF0afavzK">https://youtu.be/o1ED4FQjDGk?si=0dPaptAJF0afavzK</a><br/> <a href="https://youtu.be/dev03kdSPQY?si=hBYgB-3y3-dgMrtX">https://youtu.be/dev03kdSPQY?si=hBYgB-3y3-dgMrtX</a><br/> <a href="https://www.youtube.com/watch?v=-S0TwGUEe7Y">https://www.youtube.com/watch?v=-S0TwGUEe7Y</a><br/> <a href="https://youtu.be/y8QaD8NJLxM?si=fAn3WzuO1pJWUF4B">https://youtu.be/y8QaD8NJLxM?si=fAn3WzuO1pJWUF4B</a></p>                   |

|        |   |   |  |   |
|--------|---|---|--|---|
|        |   |   | <a href="https://www.youtube.com/watch?v=bfaEV7D4Msk">https://www.youtube.com/watch?v=bfaEV7D4Msk</a><br><a href="https://www.youtube.com/watch?v=C5UJ2H-JSs0">https://www.youtube.com/watch?v=C5UJ2H-JSs0</a><br><a href="https://www.youtube.com/watch?v=mQn-UjkqNq4">https://www.youtube.com/watch?v=mQn-UjkqNq4</a>  |   |
|        | C363-c  | Select suitable breaking and steering systems for different applications. | <a href="https://youtu.be/LY_0REE-g0c?si=v18IF0NHdqpKhcQh">https://youtu.be/LY_0REE-g0c?si=v18IF0NHdqpKhcQh</a><br><a href="https://youtu.be/3A4SwDc8-9c?si=2EmAH3MfPsHIHPna">https://youtu.be/3A4SwDc8-9c?si=2EmAH3MfPsHIHPna</a><br><a href="https://youtu.be/w2iqAyMY25s?si=AC_EA88i9PVu1uWj">https://youtu.be/w2iqAyMY25s?si=AC_EA88i9PVu1uWj</a>  |   |
|        | C363-d  | Select suspension system for different application                        | <a href="https://youtu.be/UhlPqqDUmUM?si=rQTvD86W25_J9G9k">https://youtu.be/UhlPqqDUmUM?si=rQTvD86W25_J9G9k</a><br><a href="https://youtu.be/iMqE-NCrWIg?si=oXaVYEJHyIigGKYz">https://youtu.be/iMqE-NCrWIg?si=oXaVYEJHyIigGKYz</a><br><a href="https://youtu.be/XTM4Mqa617o?si=7c9WZTgOsXhgGdDI">https://youtu.be/XTM4Mqa617o?si=7c9WZTgOsXhgGdDI</a><br><a href="https://youtu.be/Fb5tpM6IsJs?si=znTSbPnBm0iLuiUr">https://youtu.be/Fb5tpM6IsJs?si=znTSbPnBm0iLuiUr</a> |   |
|        | C363-e  | Prepare simple electrical electronic circuit for automobile systems       | <a href="https://youtu.be/TqQE0xkJ8c?si=T-MZoDVfl4xfaT6o">https://youtu.be/TqQE0xkJ8c?si=T-MZoDVfl4xfaT6o</a><br><a href="https://youtu.be/OMLSNwQiiKg?si=qBT0zSdJeM9ZLBpy">https://youtu.be/OMLSNwQiiKg?si=qBT0zSdJeM9ZLBpy</a>   |   |
|        | C363-f  | Select Service tools for relevant service operation in automobile shops   | <a href="https://www.youtube.com/watch?v=0lD9TG6RLRc">https://www.youtube.com/watch?v=0lD9TG6RLRc</a>  |   |
| 3<br>7 | M364:<br>Industrial<br>Engineering &<br>Quality<br>Control<br>(IEQ)-<br>22657 | C364-a  | Apply work study techniques to optimize manufacturing processes.   | <a href="https://youtu.be/boyHAXgedCo?si=tQ02NHZ8G1EMw42J">https://youtu.be/boyHAXgedCo?si=tQ02NHZ8G1EMw42J</a>   |
|        |   | C364-b  | Prepare the detailed sequence of operations for manufacturing of components.   | <a href="https://youtu.be/n6c6hjptUbg?si=2BMhQMhYLfsvd-M">https://youtu.be/n6c6hjptUbg?si=2BMhQMhYLfsvd-M</a>     |
|        |   | C364-c  | Apply Ergonomic principle for designing simple mechanical components.  | <a href="https://youtu.be/5xPV8xtQKoI?si=MDva0S0F2KkHM LYC">https://youtu.be/5xPV8xtQKoI?si=MDva0S0F2KkHM LYC</a> |
|        |   | C364-d  | Interpret the data obtained from the different quality control processes.  | <a href="https://youtu.be/yuH35ottILU?si=tKFJqveAz8GEmTNk">https://youtu.be/yuH35ottILU?si=tKFJqveAz8GEmTNk</a>   |
|        |   | C364-e  | Interpret control charts for variable and attribute data   | <a href="https://youtu.be/iOJDpOa3Ko?si=qIz0cfnUmClYlZ6j">https://youtu.be/iOJDpOa3Ko?si=qIz0cfnUmClYlZ6j</a>     |
| 3<br>8 | M3651<br>:<br>Refrigeration<br>and Air<br>Conditioning<br>(RAC)-<br>22660     | C3651-a   | Use a refrigeration system for a given application.  | <a href="https://youtu.be/IpQu0-Evj0I?si=8fPMF7PUInnFs8Ig">https://youtu.be/IpQu0-Evj0I?si=8fPMF7PUInnFs8Ig</a>   |
|        |   | C3651-b   | Use relevant refrigerants for different applications.  | <a href="https://youtu.be/AnzBUdnz-1Y?si=D2K7ESZhHS3RwrRu">https://youtu.be/AnzBUdnz-1Y?si=D2K7ESZhHS3RwrRu</a>   |
|        |   | C3651-c   | Select different refrigerant components for given refrigeration systems.   | <a href="https://youtu.be/U7yke2EKCxM?si=d2oMmLHKo8PQNWSz">https://youtu.be/U7yke2EKCxM?si=d2oMmLHKo8PQNWSz</a>   |
|        |   | C3651-d   | Select different air conditioning components for given air conditioning systems.   | <a href="https://youtu.be/kaVoLEBebjA?si=lgB18EXF_2_dKyKh">https://youtu.be/kaVoLEBebjA?si=lgB18EXF_2_dKyKh</a>   |

|        |   |         |   |   |
|--------|---|---------|---|---|
|        |   | C3651-e | Determine cooling loads for Air conditioning systems.                                   | <a href="https://youtu.be/YQcexJjZVa4?si=0RkWJ83bFbys7MFl">https://youtu.be/YQcexJjZVa4?si=0RkWJ83bFbys7MFl</a> |
|        |   | C3651-f | Select relevant tools for maintaining the air conditioning system.                      | <a href="https://youtu.be/tRB9gyXitGk?si=Jo0uvXrfsbQt71VX">https://youtu.be/tRB9gyXitGk?si=Jo0uvXrfsbQt71VX</a> |
| 3<br>9 | M3652 : Renewable Energy Technologies (RET) -22661              | C3652-a | Maintain mechanical components of the solar thermal system.                             | <a href="#">Savosolar - Solar Thermal Systems</a>   |
|        |   | C3652-b | Maintain mechanical components of solar PV systems.                                     | <a href="#">How do Solar cells work?   #PNjunction solar cell   #solarenergy Explain</a>                        |
|        |   | C3652-c | Maintain mechanical components of wind turbines.  | <a href="#">How do wind turbines work? - Rebecca J. Barthelmie and Sara C. Pryor</a>                            |
|        |   | C3652-d | Maintain mechanical components of micro hydro turbines.                                 | <a href="#">awesome micro hydro turbine generator for free electricity   clean energy   free energy</a>         |
|        |   | C3652-e | Maintain mechanical components of biogas plants.  | <a href="https://youtu.be/5RswjCWaR6I?si=ealugodOXEIsPVF4">https://youtu.be/5RswjCWaR6I?si=ealugodOXEIsPVF4</a> |
|        |   | C3652-f | Maintain mechanical components of hybrid renewable energy systems.                      | <a href="#">Smart Hybrid Power Solutions</a>  |
| 4<br>0 | M366: Entrepreneurship Development (EDE)-22032                  | C366-a  | Identify your entrepreneurial traits.   | <a href="https://youtu.be/-sQeREfZY-8?si=3JjxCekqK8lau0zL">https://youtu.be/-sQeREfZY-8?si=3JjxCekqK8lau0zL</a> |
|        |   | C366-b  | Identify the business opportunities that suit you.                                      | <a href="https://youtu.be/OkNpsVMT84w?si=oAL-A8LV0MPpeEc7">https://youtu.be/OkNpsVMT84w?si=oAL-A8LV0MPpeEc7</a> |
|        |   | C366-c  | Use the support systems to zero down to your business ideas.                            | <a href="https://youtu.be/kAAO-qO2kFg?si=3ZfTrdQgeoCmwl">https://youtu.be/kAAO-qO2kFg?si=3ZfTrdQgeoCmwl</a>     |
|        |   | C366-d  | Develop comprehensive business plans.   | <a href="https://youtu.be/n6ecdYd8T6o?si=XOwLiDaIxTVdWAQJ">https://youtu.be/n6ecdYd8T6o?si=XOwLiDaIxTVdWAQJ</a> |
|        |   | C366-e  | Prepare plans to manage the enterprise effectively.                                     | <a href="https://youtu.be/81o65vbtGKo?si=69MuNWI2flqr91EF">https://youtu.be/81o65vbtGKo?si=69MuNWI2flqr91EF</a> |
| 4<br>1 | E367: Capstone Project - Execution & Report Writing (CPE)-22060 | C367-a  | Implement the planned activity individually and/or as team.                             | <a href="https://youtu.be/C4Ibi-srgEc?si=JMNuwg0Jt9Nx3QaI">https://youtu.be/C4Ibi-srgEc?si=JMNuwg0Jt9Nx3QaI</a> |
|        |   | C367-b  | Select, collect and use required information/knowledge to solve the identified problem. | <a href="https://youtu.be/lqqJ5BmXzB0?si=L1GegjsrQKaCZ7Jw">https://youtu.be/lqqJ5BmXzB0?si=L1GegjsrQKaCZ7Jw</a> |
|        |   | C367-c  | Take appropriate decisions bases on collected and analyzed information.                 | <a href="https://youtu.be/42QQ75wJaq4?si=_kG8IVvU8_85u7NF">https://youtu.be/42QQ75wJaq4?si=_kG8IVvU8_85u7NF</a> |
|        |   | C367-d  | Ensure quality in the product.  | <a href="https://youtu.be/u2TTksWl6Tw?si=FiYQ693x78vM8gyp">https://youtu.be/u2TTksWl6Tw?si=FiYQ693x78vM8gyp</a> |
|        |   | C367-e  | Incorporate energy and environment conservation principles.                             | <a href="https://youtu.be/cA0G-Lp6Prw?si=-iOTmJhY5VfT52_4">https://youtu.be/cA0G-Lp6Prw?si=-iOTmJhY5VfT52_4</a> |
|        |   | C367-f  | Consider the ethical issues related to the project.                                     | <a href="https://youtu.be/mtLPd2u4DiA?si=OmFZr0P8Gxgq6W19">https://youtu.be/mtLPd2u4DiA?si=OmFZr0P8Gxgq6W19</a> |

|  |        |  |   |
|--|--------|--|---|
|  | C367-g | Assess the impact of the project on society.   | <a href="https://youtu.be/1gDOCCy3foE?si=o7oANbnRHduKISWd">https://youtu.be/1gDOCCy3foE?si=o7oANbnRHduKISWd</a> |
|  | C367-h | Communicate effectively and confidently as a member and leader of team.                | <a href="https://youtu.be/etII6J5MG0w?si=dMHIFUHWZe-3k_Ae">https://youtu.be/etII6J5MG0w?si=dMHIFUHWZe-3k_Ae</a> |
|  | C367-i | Prerpare project report after performing due plagiarism check using appropriate tools. | <a href="https://youtu.be/BXBNRVL5bI0?si=6GobpU-dov7tD__">https://youtu.be/BXBNRVL5bI0?si=6GobpU-dov7tD__</a>   |