



# BACHELOR OF ENGINEERING - VIDEO LECTURES



Compiled by  
Government Engineering Colleges

Affiliated to Anna University, Chennai

Bodinayakkanur - Theni, Srirangam - Trichy, Dharmapuri, Tirunelveli, Sengipatti - Tanjore, Vellore

Under the guidance of

**Shri. K. VIVEKANANDAN, I.A.S.**

**Commissioner of Technical Education**

DIRECTORATE OF TECHNICAL EDUCATION

GUINDY, CHENNAI - 600025



Directorate of Technical Education  
Tamil Nadu

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**DEPARTMENT  
OF  
MECHANICAL ENGINEERING**

ANNA UNIVERSITY AFFILIATED GOVERNMENT ENGINEERING COLLEGES - REGULATION 2017






**B.E. Mechanical Engineering**  
Regulations 2017







Semester III				
Sl.No.	Course Code	Course Title	Category	Page Nos.
1	ME8391	Engineering Thermodynamics	Professional Core	01-04
2	ME8351	Manufacturing Technology – I	Professional Core	05-08







Semester V				
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3	ME8595	Thermal Engineering- II	Professional Core	09-12
4	ME8593	Design of Machine Elements	Professional Core	13-19
5	ME8501	Metrology and Measurements	Professional Core	20
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7	OAT551	Automotive Systems	Open Elective	23-24
8	OIM552	Lean Manufacturing	Open Elective	25-26
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10	ME8792	Power Plant Engineering	Professional Core	30-31
11	ME8793	Process Planning and Cost Estimation	Professional Core	32-35
12	ME8791	Mechatronics	Professional Core	36-37
13	OML751	Testing of Materials	Open Elective	38-40
14	OIE751	Robotics	Open Elective	41
15	ME8071	Refrigeration and Air conditioning	Professional Elective	42-43
16	ME8073	Unconventional Machining Processes	Professional Elective	44
17	GE8077	Total Quality Management	Professional Elective	45-47
18	MF8071	Additive Manufacturing	Professional Elective	48
19	ME8095	Design of Jigs, Fixtures and Press Tools	Professional Elective	49-50
20	ME8097	Non Destructive Testing and Evaluation	Professional Elective	51-54

**Semester III**  
**ME8391 Engineering Thermodynamics**







Sl. No	Subject Code and Name	e-Lecture Unit	Title of video lecture	Faculty Name, Designation, e-mail ID and mobile number	Video link (Google Drive/You Tube)	QR code
1	ME8391 Engineering Thermodynamics	Unit I Basic Concepts and First Law	Fundamental concepts of Thermodynamics	Dr.T.Suja Assistant Professor Thanthai Periyar Government Institute of Technology, Vellore <i>suja.tpgit@gmail.com</i> 9940033750	<a href="https://drive.google.com/drive/folders/1htwrhaRtk-nQEZiglvYkguwmx5yENA-i?usp=sharing">https://drive.google.com/drive/folders/1htwrhaRtk-nQEZiglvYkguwmx5yENA-i?usp=sharing</a>	
2			Second Law of Thermodynamics		<a href="https://drive.google.com/drive/folders/1W_0Q67l-ZTXmLtWquyfcLkxVsXCbGoop?usp=sharing">https://drive.google.com/drive/folders/1W_0Q67l-ZTXmLtWquyfcLkxVsXCbGoop?usp=sharing</a>	
3		Unit II Second Law and Availability Analysis	Introduction to Entropy	M.Kishore Kumar, Assistant Professor, Thanthai Periyar Government Institute of Technology, Vellore <i>kumarkishore93@gmail.com</i> 8220363615	<a href="https://drive.google.com/file/d/1pf3bAeAoW6aU42uMnlNo6ulivhzrfb6t/view?usp=sharing">https://drive.google.com/file/d/1pf3bAeAoW6aU42uMnlNo6ulivhzrfb6t/view?usp=sharing</a>	
4			Introduction to Entropy (Prolongation)		<a href="https://drive.google.com/file/d/1f-JUU8XODWa4ifg10Wu5L-lY8_Wyr8ax/view?usp=sharing">https://drive.google.com/file/d/1f-JUU8XODWa4ifg10Wu5L-lY8_Wyr8ax/view?usp=sharing</a>	
5		Unit III Properties of Pure Substance And Steam Power Cycle	Part –I Properties of Pure Substances	Dr.T.Suja, Assistant Professor Thanthai Periyar Government Institute of Technology, Vellore <i>suja.tpgit@gmail.com</i> 9940033750	<a href="https://drive.google.com/drive/folders/1hsQt274c5pDvFSUk3w5VTQvQQ6KBMvtF?usp=sharing">https://drive.google.com/drive/folders/1hsQt274c5pDvFSUk3w5VTQvQQ6KBMvtF?usp=sharing</a>	
6			Part –II Properties of Pure Substances		<a href="https://drive.google.com/drive/folders/1hsQt274c5pDvFSUk3w5VTQvQQ6KBMvtF?usp=sharing">https://drive.google.com/drive/folders/1hsQt274c5pDvFSUk3w5VTQvQQ6KBMvtF?usp=sharing</a>	

7	Unit IV Ideal and Real Gases, Thermodynamic Relations	Properties of Ideal gas – Ideal and real gas comparison	Dr.C. Ananda srinivasan, Associate Professor Thanthai Periyar Government Institute of Technology, Vellore <i>anandsrinivasa@yahoo.com</i> 9443344089	<a href="https://youtu.be/nR4gEHiv_IU">https://youtu.be/nR4gEHiv_IU</a>	
8		Properties of Real gas – Equations of state for ideal and real gases – Reduced properties, compressibility factor – principle of corresponding states. Generalized Compressibility Chart and its use		<a href="https://youtu.be/2o9YT8CuT5U">https://youtu.be/2o9YT8CuT5U</a>	
9		Properties of Ideal gas – Ideal and real gas comparison – Equations of state for ideal and real gases – Reduced properties, compressibility factor – principle of corresponding states. Generalized Compressibility Chart and its use. Problems related to the above topics		<a href="https://youtu.be/z-ISn6-b8Ak">https://youtu.be/z-ISn6-b8Ak</a>	
10		Module 1 Maxwell's Equations	A.Sujatha Assistant Professor Thanthai Periyar Government Institute of Technology, Vellore <i>asujatha.06@gmail.com</i> 9486223273	<a href="https://youtu.be/lplqD70qaVE">https://youtu.be/lplqD70qaVE</a>	
11		Module 2 Tds Equations		<a href="https://youtu.be/r21E-ZYIVfM">https://youtu.be/r21E-ZYIVfM</a>	
12		Module 3 Difference of Specific heats		<a href="https://youtu.be/PPzYmcjQj4M">https://youtu.be/PPzYmcjQj4M</a>	

13			Module 4 Ratio of specific heats		<a href="https://youtu.be/ILKQC0x353Q">https://youtu.be/ILKQC0x353Q</a>	
14			Module 5 Energy Equation		<a href="https://youtu.be/JyYbXFBspVs">https://youtu.be/JyYbXFBspVs</a>	
15			Module 6 Joule Thomson Coefficient		<a href="https://youtu.be/tCNcns9N0Sc">https://youtu.be/tCNcns9N0Sc</a>	
16			Module 7 Clausius-Clapeyron Equation		<a href="https://youtu.be/7QI2eEI5E4k">https://youtu.be/7QI2eEI5E4k</a>	
17			Module 8 Clausius-Clapeyron Equation for Phase Change Processes		<a href="https://youtu.be/WGIGDBG6eDU">https://youtu.be/WGIGDBG6eDU</a>	
18			Module 9 Problems for Phase Change Processes		<a href="https://youtu.be/M_B4UDs5XZc">https://youtu.be/M_B4UDs5XZc</a>	

19	Unit V Gas mixtures and Psychrometry	Introduction to Gas Mixture	M.Kishore Kumar Assistant Professor Thanthai Periyar Government Institute of Technology, Vellore <i>kumarkishore93@gmail.com</i> 8220363615	<a href="https://drive.google.com/file/d/1pnX5noQMWS5ihh4JPIUmYrJSXZs_dIolG/view?usp=sharing">https://drive.google.com/file/d/1pnX5noQMWS5ihh4JPIUmYrJSXZs_dIolG/view?usp=sharing</a>	
20		Introduction to Gas Mixture (Prolongation)		<a href="https://drive.google.com/file/d/1BPs-45Z5dN35wxgQyu0XIYbusNcuUoHI/view?usp=sharing">https://drive.google.com/file/d/1BPs-45Z5dN35wxgQyu0XIYbusNcuUoHI/view?usp=sharing</a>	
21		Psychrometry	P.Vijayalakshmi Assistant Professor Thanthai Periyar Government Institute of Technology, Vellore <i>vijayalakshmivellore@gmail.com</i> 9940124913	<a href="https://drive.google.com/drive/folders/1oc4cvwtBNh_VIVAwwee9BnB5lZYzd-4d?usp=sharing">https://drive.google.com/drive/folders/1oc4cvwtBNh_VIVAwwee9BnB5lZYzd-4d?usp=sharing</a>	



## 2. ME8351 Manufacturing Technology-I

Sl. No	Subject Code and Name	e-Lecture Unit	Title of video lecture	Faculty Name, Designation, e-mail ID and mobile number	Video link (Google Drive/You Tube)	QR code
1	ME8351 Manufacturing Technology-I	Unit I Metal Casting Processes	Sand casting process	Dr.S.Sivasankar Assistant Professor Government College of Engineering, Thanjavur sivasankar09@gmail.com 8248924421	<a href="https://drive.google.com/file/d/1MsCJolFMV6Htvi57UzUsm_nEyYsLjk-z/view?usp=sharing">https://drive.google.com/file/d/1MsCJolFMV6Htvi57UzUsm_nEyYsLjk-z/view?usp=sharing</a>	
2			Clay and moisture content test		<a href="https://drive.google.com/file/d/16ta37H_QI9ynkW3k9zt0jViAvvVq_oKg/view?usp=sharing">https://drive.google.com/file/d/16ta37H_QI9ynkW3k9zt0jViAvvVq_oKg/view?usp=sharing</a>	
3			Grain Size Measurement		<a href="https://drive.google.com/file/d/1z1ZOoZGIET4n6gmpjhWxX1sckUvUUu8Y/view?usp=sharing">https://drive.google.com/file/d/1z1ZOoZGIET4n6gmpjhWxX1sckUvUUu8Y/view?usp=sharing</a>	
4			Mould hardness testing		<a href="https://drive.google.com/file/d/1fkf5oYhnck6IZgcCi3Imkv41oD6Ev90s/view?usp=sharing">https://drive.google.com/file/d/1fkf5oYhnck6IZgcCi3Imkv41oD6Ev90s/view?usp=sharing</a>	
5			Permeability test		<a href="https://drive.google.com/file/d/1dwDlpzQmlhvBE0IZbQJhw4-wuyskLcb3/view?usp=sharing">https://drive.google.com/file/d/1dwDlpzQmlhvBE0IZbQJhw4-wuyskLcb3/view?usp=sharing</a>	
6			Moulding Sand strength		<a href="https://drive.google.com/file/d/1DBe7-zrT3UwldHpHRZv7mtu0F4FKUPci/view?usp=sharing">https://drive.google.com/file/d/1DBe7-zrT3UwldHpHRZv7mtu0F4FKUPci/view?usp=sharing</a>	










7	Unit II Joining Processes	Gas Welding	Dr.S.Sivasankar Assistant Professor Government College of Engineering, Thanjavur <i>sivasankar09@gmail.com</i> 8248924421	<a href="https://drive.google.com/file/d/1VtX-PqSjc1M3EK1PvJuiRW9nI9I2Qfh0/view?usp=sharing">https://drive.google.com/file/d/1VtX-PqSjc1M3EK1PvJuiRW9nI9I2Qfh0/view?usp=sharing</a>	
8		Metal Arc Welding		<a href="https://drive.google.com/file/d/1C3gHCra9PWONcJAew8-MF1uSRQ7mBqZ/view?usp=sharing">https://drive.google.com/file/d/1C3gHCra9PWONcJAew8-MF1uSRQ7mBqZ/view?usp=sharing</a>	
9		Weld Defects		<a href="https://drive.google.com/file/d/1mYFg9QgKcxu-Qq9wKaMI_TeXrXqbasU3/view?usp=sharing">https://drive.google.com/file/d/1mYFg9QgKcxu-Qq9wKaMI_TeXrXqbasU3/view?usp=sharing</a>	
10	Unit III Metal Forming Processes	Cold and hot working of metals	Dr.S.Sivasankar Assistant Professor Government College of Engineering, Thanjavur <i>sivasankar09@gmail.com</i> 8248924421	<a href="https://drive.google.com/file/d/18Xuuqbpoz6ggAIFd-YbY7wF4cYWM0Uji/view?usp=sharing">https://drive.google.com/file/d/18Xuuqbpoz6ggAIFd-YbY7wF4cYWM0Uji/view?usp=sharing</a>	
11		Rolling process		<a href="https://drive.google.com/file/d/1iRBztSNtXXA66YpX3nsIqhbMIMCJH0Az/view?usp=sharing">https://drive.google.com/file/d/1iRBztSNtXXA66YpX3nsIqhbMIMCJH0Az/view?usp=sharing</a>	
12	Unit IV Sheet Metal Processes	Introduction about Cogeneration	Dr.A.Velmurugan Assistant Professor Government College of Engineering, Dharmapuri <i>velathi.lec@gmail.com</i> 9894927406	<a href="https://drive.google.com/file/d/1z9VJ-97CxWIsdF-H1Adk9UoYKcziyHX/view?usp=sharing">https://drive.google.com/file/d/1z9VJ-97CxWIsdF-H1Adk9UoYKcziyHX/view?usp=sharing</a>	
13		Topping Cycle and Bottoming Cycle		<a href="https://drive.google.com/file/d/1rcbz27eygq7x8JjLAhzTUHa2i9UcUfxw/view?usp=sharing">https://drive.google.com/file/d/1rcbz27eygq7x8JjLAhzTUHa2i9UcUfxw/view?usp=sharing</a>	
14		Factors affecting Cogeneration		<a href="https://drive.google.com/file/d/1D8VO5gmha0IAOU8HL-mim0FzXXx7lm4U/view?usp=sharing">https://drive.google.com/file/d/1D8VO5gmha0IAOU8HL-mim0FzXXx7lm4U/view?usp=sharing</a>	









15		Waste Heat Recovery System	<p>Dr.S.Sivasankar Assistant Professor Government College of Engineering, Sengipatti, Thanjavur sivasankar09@gmail.com 8248924421</p>	<a href="https://drive.google.com/file/d/1elvATUYPVMTiq5TCifAgS2rKHI_hFGJ7/view?usp=sharing">https://drive.google.com/file/d/1elvATUYPVMTiq5TCifAgS2rKHI_hFGJ7/view?usp=sharing</a>		
16				Recuperators	<a href="https://drive.google.com/file/d/1noVm2iwKVqyR_7ENmw7K8PH07_yFDKy2/view?usp=sharing">https://drive.google.com/file/d/1noVm2iwKVqyR_7ENmw7K8PH07_yFDKy2/view?usp=sharing</a>	
17				Heat Pipe	<a href="https://drive.google.com/file/d/17CbptMgfzHdTnK9A0CGALmyf70v3Wn_-_view?usp=sharing">https://drive.google.com/file/d/17CbptMgfzHdTnK9A0CGALmyf70v3Wn_-_view?usp=sharing</a>	
18				Application of WHR	<a href="https://drive.google.com/file/d/1ckQuYsbLmo1-qwpw5elvoBl7PAiUS4QO/view?usp=sharing">https://drive.google.com/file/d/1ckQuYsbLmo1-qwpw5elvoBl7PAiUS4QO/view?usp=sharing</a>	
19		Unit V Manufacture of plastic components		Plastics-types and characteristics	<a href="https://drive.google.com/file/d/1dvzeaMq74BZZtHJJKH_tKK9xfdFWJEd-/view?usp=sharing">https://drive.google.com/file/d/1dvzeaMq74BZZtHJJKH_tKK9xfdFWJEd-/view?usp=sharing</a>	
20				Moulding of plastics-Compression, Transfer and injection	<a href="https://youtu.be/Kj7V2hIE3ps">https://youtu.be/Kj7V2hIE3ps</a>	
21				Thermoforming of plastics	<a href="https://youtu.be/vQm7TDeA9Fo">https://youtu.be/vQm7TDeA9Fo</a>	
22				Sheet forming process of plastics	<a href="https://youtu.be/pRnBa8r7mW4">https://youtu.be/pRnBa8r7mW4</a>	

23			Blow moulding process of plastics		<a href="https://youtu.be/bn9vYn23ULI">https://youtu.be/bn9vYn23ULI</a>	
24			Extrusion process of plastics		<a href="https://youtu.be/KTHhYwP8-f0">https://youtu.be/KTHhYwP8-f0</a>	






## Semester V

### 3. ME8595 Thermal Engineering II







Sl. No	Subject Code and Name	e-Lecture Unit	Title of video lecture	Faculty Name, Designation, e-mail ID and mobile number	Video link (Google Drive/You Tube)	QR code
1	ME8595 Thermal Engineering II	Unit I Steam Nozzle	Types of Nozzles	Dr.A.Velmurugan Assistant Professor Government College of Engineering, Dharmapuri velathi.lec@gmail.com 9894927406	<a href="https://drive.google.com/file/d/19j71gTEI6FyFbSNYMGYHP5-OQBekq8ji/view">https://drive.google.com/file/d/19j71gTEI6FyFbSNYMGYHP5-OQBekq8ji/view</a>	
2			Effect of Friction		<a href="https://drive.google.com/file/d/1iz1awSFuv1pDUQcc44AjxEulx-UgXPk0/view?usp=sharing">https://drive.google.com/file/d/1iz1awSFuv1pDUQcc44AjxEulx-UgXPk0/view?usp=sharing</a>	
3			Critical Pressure Ratio		<a href="https://drive.google.com/file/d/1Y3NBM6a1WUImfxvwUzWrxiaNVlajG-wk/view?usp=sharing">https://drive.google.com/file/d/1Y3NBM6a1WUImfxvwUzWrxiaNVlajG-wk/view?usp=sharing</a>	
4		Unit II Boilers	1.Introduction for Boiler	Dr.A.Velmurugan Assistant Professor Government College of Engineering, Dharmapuri velathi.lec@gmail.com 9894927406	<a href="https://drive.google.com/file/d/1TVPH57CpgiRN3yVeEF5vp4fT0g87KJed/view?usp=sharing">https://drive.google.com/file/d/1TVPH57CpgiRN3yVeEF5vp4fT0g87KJed/view?usp=sharing</a>	
5			2. Fire Tube Boiler		<a href="https://drive.google.com/file/d/1r7f8k1i1LthA_rNQALIXwQRsM0xB7eBH/view?usp=sharing">https://drive.google.com/file/d/1r7f8k1i1LthA_rNQALIXwQRsM0xB7eBH/view?usp=sharing</a>	
6			3.Water Tube Boiler		<a href="https://drive.google.com/file/d/10tt5_BBBPkN05MuJhrB419VT89vwGCYr/view?usp=sharing">https://drive.google.com/file/d/10tt5_BBBPkN05MuJhrB419VT89vwGCYr/view?usp=sharing</a>	
7			4.High Pressure Boiler		<a href="https://drive.google.com/file/d/173AwKNfT8gXLcPHVmKrzEglU2jkb7y3N/view?usp=sharing">https://drive.google.com/file/d/173AwKNfT8gXLcPHVmKrzEglU2jkb7y3N/view?usp=sharing</a>	

8			5.Mountings		<a href="https://drive.google.com/file/d/1I6iVGiD7jqBfKQS74GD10LkjHwy5u2i/view?usp=sharing">https://drive.google.com/file/d/1I6iVGiD7jqBfKQS74GD10LkjHwy5u2i/view?usp=sharing</a>	
9			6.Accessories		<a href="https://drive.google.com/file/d/1kLjvosYkinWubuxXv2jFtmKBZ3CdFXa/view?usp=sharing">https://drive.google.com/file/d/1kLjvosYkinWubuxXv2jFtmKBZ3CdFXa/view?usp=sharing</a>	
10			7. Fuels and Types		<a href="https://drive.google.com/file/d/14s0ufl8hflqikDdq1UB4pBr8xNxaLD2/view?usp=sharing">https://drive.google.com/file/d/14s0ufl8hflqikDdq1UB4pBr8xNxaLD2/view?usp=sharing</a>	
11		Unit III Steam Turbines	Introduction about Steam Turbine	Dr.A.Velmurugan Assistant Professor Government College of Engineering, Dharmapuri <i>velathi.lec@gmail.com</i> 9894927406	<a href="https://drive.google.com/file/d/1MjyK_KE38ZsFz6LLUgW-Bz2ZFQyJugpb/view?usp=sharing">https://drive.google.com/file/d/1MjyK_KE38ZsFz6LLUgW-Bz2ZFQyJugpb/view?usp=sharing</a>	
12	Compounding of Turbine		<a href="https://drive.google.com/file/d/1JGb54hi4nt7EBbc419xpRL2POXI_DMLNK/view?usp=sharing">https://drive.google.com/file/d/1JGb54hi4nt7EBbc419xpRL2POXI_DMLNK/view?usp=sharing</a>			
13	Impulse Turbine		<a href="https://drive.google.com/file/d/16cxEtdINPVe5WVcX3AjCSotfZTS_Zrig-/view?usp=sharing">https://drive.google.com/file/d/16cxEtdINPVe5WVcX3AjCSotfZTS_Zrig-/view?usp=sharing</a>			
14	Reaction Turbine		<a href="https://drive.google.com/file/d/1E71OHbsEkdqfFDnFVvdBRHtFF-ogpfOx/view?usp=sharing">https://drive.google.com/file/d/1E71OHbsEkdqfFDnFVvdBRHtFF-ogpfOx/view?usp=sharing</a>			
15	Governing of Turbine		<a href="https://drive.google.com/file/d/1dD264CMIsGliEfKTTSIRu0UnT5RKElDc/view?usp=sharing">https://drive.google.com/file/d/1dD264CMIsGliEfKTTSIRu0UnT5RKElDc/view?usp=sharing</a>			









16	Unit IV Cogeneration and Residual Heat Recovery	Introduction about Cogeneration	Dr.A.Velmurugan Assistant Professor Government College of Engineering, Dharmapuri velathi.lec@gmail.com 9894927406	<a href="https://drive.google.com/file/d/1z9V_I-97CxWIsdF-H1Adk9UoYKcziyHX/view?usp=sharing">https://drive.google.com/file/d/1z9V_I-97CxWIsdF-H1Adk9UoYKcziyHX/view?usp=sharing</a>	
17		Topping Cycle and Bottoming Cycle		<a href="https://drive.google.com/file/d/1rcbz27evgq7x8JjLAhzTUHa2i9UcUfxw/view?usp=sharing">https://drive.google.com/file/d/1rcbz27evgq7x8JjLAhzTUHa2i9UcUfxw/view?usp=sharing</a>	
18		Factors affecting Cogeneration		<a href="https://drive.google.com/file/d/1D8V05gmha0IAOU8HL-mim0FzXXx7lm4U/view?usp=sharing">https://drive.google.com/file/d/1D8V05gmha0IAOU8HL-mim0FzXXx7lm4U/view?usp=sharing</a>	
19		Waste Heat Recovery System		<a href="https://drive.google.com/file/d/1elvATUYPVMTiq5TCifAgS2rKHI_hFGJ7/view?usp=sharing">https://drive.google.com/file/d/1elvATUYPVMTiq5TCifAgS2rKHI_hFGJ7/view?usp=sharing</a>	
20		Recuperators		<a href="https://drive.google.com/file/d/1noVm2iwKVqyR_7ENmw7K8PH07_yFDKy2/view?usp=sharing">https://drive.google.com/file/d/1noVm2iwKVqyR_7ENmw7K8PH07_yFDKy2/view?usp=sharing</a>	
21		Heat Pipe		<a href="https://drive.google.com/file/d/17CbptMgfzHdTnK9A0CGALmyf70v3Wn-/view?usp=sharing">https://drive.google.com/file/d/17CbptMgfzHdTnK9A0CGALmyf70v3Wn-/view?usp=sharing</a>	
22		Application of WHR		<a href="https://drive.google.com/file/d/1ckQuYsbLmo1-qwpw5elvoBl7PAiUS4Q0/view?usp=sharing">https://drive.google.com/file/d/1ckQuYsbLmo1-qwpw5elvoBl7PAiUS4Q0/view?usp=sharing</a>	
23				Introduction about Refrigeration Cycle	<a href="https://drive.google.com/file/d/1cv-ci6vkhDPh2I7T_Lpc_vWWGUW3B7Bk/view?usp=sharing">https://drive.google.com/file/d/1cv-ci6vkhDPh2I7T_Lpc_vWWGUW3B7Bk/view?usp=sharing</a>

24	Unit V Refrigeration and Air - Conditioning	Vapour Compression Refrigeration	Dr.A.Velmurugan Assistant Professor Government College of Engineering, Dharmapuri <i>velathi.lec@gmail.com</i> 9894927406	<a href="https://drive.google.com/file/d/18h8P9Sey_b0uSqJqx3xr5g7vV9_Rg4iV/view?usp=sharing">https://drive.google.com/file/d/18h8P9Sey_b0uSqJqx3xr5g7vV9_Rg4iV/view?usp=sharing</a>	
25		Vapour Absorption Refrigeration		<a href="https://drive.google.com/file/d/1E5-EHzEjF5ahvAfYPRwtQems_tRsyldT/view?usp=sharing">https://drive.google.com/file/d/1E5-EHzEjF5ahvAfYPRwtQems_tRsyldT/view?usp=sharing</a>	
26		Air conditioning System		<a href="https://drive.google.com/file/d/1LoLVLl9hxnGrEQlojhgEasBffnflNAdf/view?usp=sharing">https://drive.google.com/file/d/1LoLVLl9hxnGrEQlojhgEasBffnflNAdf/view?usp=sharing</a>	
27		Air Refrigeration Cycle and Thermo Electric		<a href="https://drive.google.com/file/d/1hSXPoG4zsy6DarOBwAynZF443sa7anyU/view?usp=sharing">https://drive.google.com/file/d/1hSXPoG4zsy6DarOBwAynZF443sa7anyU/view?usp=sharing</a>	
28		Cooling Load		<a href="https://drive.google.com/file/d/1oJuElm88TWbXSjUTgn4NnLZg6y9QTl2A/view?usp=sharing">https://drive.google.com/file/d/1oJuElm88TWbXSjUTgn4NnLZg6y9QTl2A/view?usp=sharing</a>	

#### 4. ME8593 Design of Machine Elements









Sl. No	Subject Code and Name	e-Lecture Unit	Title of video lecture	Faculty Name, Designation, e-mail ID and mobile number	Video link (Google Drive/You Tube)	QR code
1	ME8593 Design of Machine Elements	Unit I Steady Stresses and Variable Stresses in Machine Members	Introduction to Design Process _ part 1	Prof. M.Kantha shoba Associate Professor Thanthai Periyar Government Institute of Technology, Vellore kanthashoba79@gmail.com 8754516015	<a href="https://drive.google.com/file/d/1hQWoadfwwf8JkROPNAqRuZ9bbW5yi57w/view?usp=sharing">https://drive.google.com/file/d/1hQWoadfwwf8JkROPNAqRuZ9bbW5yi57w/view?usp=sharing</a>	
2			Introduction to Design Process _ part 2		<a href="https://drive.google.com/file/d/1f4FGHPdOjMOQ4A9WgmZw69_EE71eGCUq/view?usp=sharing">https://drive.google.com/file/d/1f4FGHPdOjMOQ4A9WgmZw69_EE71eGCUq/view?usp=sharing</a>	
3			Fits and Tolerances		<a href="https://drive.google.com/file/d/1I661YF8dOisyuNDW9DslnKJQIL-8vG51/view?usp=sharing">https://drive.google.com/file/d/1I661YF8dOisyuNDW9DslnKJQIL-8vG51/view?usp=sharing</a>	
4			Direct, Bending and Torsional Shear stress _ part 1		<a href="https://drive.google.com/file/d/1OpVVu_u7B6j2adgts-7KWRMcdEn9wBAG/view?usp=sharing">https://drive.google.com/file/d/1OpVVu_u7B6j2adgts-7KWRMcdEn9wBAG/view?usp=sharing</a>	
5			Direct, Bending and Torsional Shear stress _ part 2		<a href="https://drive.google.com/file/d/1OV8Xq0kDKglfzllO-Ip3vUueELGQPuN/view?usp=sharing">https://drive.google.com/file/d/1OV8Xq0kDKglfzllO-Ip3vUueELGQPuN/view?usp=sharing</a>	
6			Curved Beams		<a href="https://drive.google.com/file/d/1qM1uG67o5Dh12lFyyUDXSlumc6pDA23L/view?usp=sharing">https://drive.google.com/file/d/1qM1uG67o5Dh12lFyyUDXSlumc6pDA23L/view?usp=sharing</a>	











7			Principal Stresses	Prof. M.Kantha shoba Associate Professor Thanthai Periyar Government Institute of Technology, Vellore <i>kanthashoba79@gmail.com</i> 8754516015	<a href="https://drive.google.com/file/d/1Sii11ofEUDF0pZdbZGb42IXcUAJR0xcG/view?usp=sharing">https://drive.google.com/file/d/1Sii11ofEUDF0pZdbZGb42IXcUAJR0xcG/view?usp=sharing</a>	
8			Stress Concentration		<a href="https://drive.google.com/file/d/1cyh_lqkC1E0Clf1po3wqYs2SaX4dm-YL/view?usp=sharing">https://drive.google.com/file/d/1cyh_lqkC1E0Clf1po3wqYs2SaX4dm-YL/view?usp=sharing</a>	
9			Variable stresses		<a href="https://drive.google.com/file/d/1KHJZ0mCnSZT3BEAQOkOlg7f0eAHt68mS/view?usp=sharing">https://drive.google.com/file/d/1KHJZ0mCnSZT3BEAQOkOlg7f0eAHt68mS/view?usp=sharing</a>	
10			Theories of Failure & Eccentric Loading		<a href="https://drive.google.com/file/d/1MHCrGrQsJmS_sF9WGo6MyzB6A_khn_IWt/view?usp=sharing">https://drive.google.com/file/d/1MHCrGrQsJmS_sF9WGo6MyzB6A_khn_IWt/view?usp=sharing</a>	
11		Unit II Shafts and Couplings	Design of Shafts_ part 1	Prof. M.Kantha shoba Associate Professor Thanthai Periyar Government Institute of Technology, Vellore <i>kanthashoba79@gmail.com</i> 8754516015	<a href="https://drive.google.com/file/d/12_yHu66bCMu72RCFknL9zrHLGA7_fYRc/view?usp=sharing">https://drive.google.com/file/d/12_yHu66bCMu72RCFknL9zrHLGA7_fYRc/view?usp=sharing</a>	
12			Design of Shafts_ part 2		<a href="https://drive.google.com/file/d/1jyuJKH7YkTGcay0Ysd8Oc7yMD8sLmv6K/view?usp=sharing">https://drive.google.com/file/d/1jyuJKH7YkTGcay0Ysd8Oc7yMD8sLmv6K/view?usp=sharing</a>	
13			Keys and Key ways		<a href="https://drive.google.com/file/d/1B0terjCgXCHTJPI-kRE6CaKwI50lIdF7/view?usp=sharing">https://drive.google.com/file/d/1B0terjCgXCHTJPI-kRE6CaKwI50lIdF7/view?usp=sharing</a>	
14			Design of Muff Coupling		<a href="https://drive.google.com/file/d/1rrqFGKP6CtYUpsMNOM_tWERMn4SckKkq/view?usp=sharing">https://drive.google.com/file/d/1rrqFGKP6CtYUpsMNOM_tWERMn4SckKkq/view?usp=sharing</a>	

15			Design of Split Muff Coupling		<a href="https://drive.google.com/file/d/1VkQO4_rda1ybSLP0_We9yR530yVSMcHJ/view?usp=sharing">https://drive.google.com/file/d/1VkQO4_rda1ybSLP0_We9yR530yVSMcHJ/view?usp=sharing</a>	
16			Design of Flange Coupling		<a href="https://drive.google.com/file/d/1dHjwyFZR1pw1ERRYXGtyzY6RcTPcNmt4/view?usp=sharing">https://drive.google.com/file/d/1dHjwyFZR1pw1ERRYXGtyzY6RcTPcNmt4/view?usp=sharing</a>	
17			Design of Flexible Coupling		<a href="https://drive.google.com/file/d/1YALIUTPHOGrUna2bXPegW4iY20R9STM4/view?usp=sharing">https://drive.google.com/file/d/1YALIUTPHOGrUna2bXPegW4iY20R9STM4/view?usp=sharing</a>	
18		Unit III Temporary And Permanent Joints	Knuckle joint Design procedure	Prof. M.Kantha shoba Associate Professor Thanthai Periyar Government Institute of Technology, Vellore <i>kanthashoba79@gmail.com</i> 8754516015	<a href="https://drive.google.com/file/d/1Galn_hpeSihWljk1yANqetIdHRgrsAf9/view?usp=drivesdk">https://drive.google.com/file/d/1Galn_hpeSihWljk1yANqetIdHRgrsAf9/view?usp=drivesdk</a>	
19			Problem on Knuckle Joint		<a href="https://drive.google.com/file/d/1HszKyBVWkUH1hJCBRqN_Za99-XD6LFiV/view?usp=drivesdk">https://drive.google.com/file/d/1HszKyBVWkUH1hJCBRqN_Za99-XD6LFiV/view?usp=drivesdk</a>	
20			Sleeve and Cotter Joint Design Procedure		<a href="https://drive.google.com/file/d/1T_LRG3SU40_NPWmHNBzSsCOi_xBC6Q2r/view?usp=drivesdk">https://drive.google.com/file/d/1T_LRG3SU40_NPWmHNBzSsCOi_xBC6Q2r/view?usp=drivesdk</a>	
21			Problem on sleeve and cotter joint		<a href="https://drive.google.com/file/d/1v_F1kZCQ6uaYa9lQw5lF0bFVASvzLHf8/view?usp=drivesdk">https://drive.google.com/file/d/1v_F1kZCQ6uaYa9lQw5lF0bFVASvzLHf8/view?usp=drivesdk</a>	
22			Socket and Spigot Cotter Joint Design Procedure		<a href="https://drive.google.com/file/d/1GDvkti7i0rRQoN25LHXbKonMarLVu3by/view?usp=drivesdk">https://drive.google.com/file/d/1GDvkti7i0rRQoN25LHXbKonMarLVu3by/view?usp=drivesdk</a>	

23			Problem on Socket and Spigot cotter joint		<a href="https://drive.google.com/file/d/12SuV7yGqgDxWDwz_iuwH5m7Isf_ywdETG/view?usp=drivesdk">https://drive.google.com/file/d/12SuV7yGqgDxWDwz_iuwH5m7Isf_ywdETG/view?usp=drivesdk</a>	
24			Introduction to Thread Joints, Basic Types of Screw Fastening, Common Types of Threaded Fastenings		<a href="https://youtu.be/ixbWWWMjuzk">https://youtu.be/ixbWWWMjuzk</a>	
25			Cap Screws ,Set Screws		<a href="https://youtu.be/MUZXJLWQ8Vc">https://youtu.be/MUZXJLWQ8Vc</a>	
26			Terminology of Screw Threads, Materials and Manufacture		<a href="https://youtu.be/7h5A4N0biAQ">https://youtu.be/7h5A4N0biAQ</a>	
27			Forms of Screw Threads		<a href="https://youtu.be/IYG2iUkxpRI">https://youtu.be/IYG2iUkxpRI</a>	
28			Locking Devices		<a href="https://youtu.be/eFa5MShVemE">https://youtu.be/eFa5MShVemE</a>	
29			Bolt of Uniform Strength, Bolted Joints – Simple Analysis		<a href="https://youtu.be/bIRVEjpLH2o">https://youtu.be/bIRVEjpLH2o</a>	
30			Tutorial Problems1_ Threaded Joints		<a href="https://youtu.be/wjVp18sHF3Q">https://youtu.be/wjVp18sHF3Q</a>	

31			Eccentrically Loaded Bolted Joints In Shear, Design Procedure for Threaded Joints		<a href="https://youtu.be/Ch4eykIfAi8">https://youtu.be/Ch4eykIfAi8</a>	
32			Tutorial Problems_ Eccentrically Loaded Bolted Joints in Shear		<a href="https://youtu.be/4d9HNbXWABk">https://youtu.be/4d9HNbXWABk</a>	
33			Tutorial Problems_ Eccentric Load Perpendicular to Axis of Bolt		<a href="https://youtu.be/Qva3ihXOvfc">https://youtu.be/Qva3ihXOvfc</a>	
34			Tutorial Problems_ Eccentric Load Parallel to Axis of Bolt		<a href="https://youtu.be/KXem7h0N214">https://youtu.be/KXem7h0N214</a>	
35		Unit IV Energy Storing Elements and Engine Components	Introduction on springs	K.Barathi Assistant Professor Thanthai Periyar Government Institute of Technology, Vellore <i>barathidesign@gmail.com</i> 9962456743	<a href="https://youtu.be/gYV3Pts0R-4">https://youtu.be/gYV3Pts0R-4</a>	
36	Design of helical springs I		<a href="https://youtu.be/LowzBTaiw60">https://youtu.be/LowzBTaiw60</a>			
37	Design of helical springs II		<a href="https://youtu.be/85eycEb5GIs">https://youtu.be/85eycEb5GIs</a>			
38	Problems on helical springs I		<a href="https://youtu.be/IySwp-uUGGg">https://youtu.be/IySwp-uUGGg</a>			

39			Problems on helical springs II		<a href="https://youtu.be/GE2wAc2ktF0">https://youtu.be/GE2wAc2ktF0</a>	
40			Design of leaf spring		<a href="https://youtu.be/YEcHUFsk2w0">https://youtu.be/YEcHUFsk2w0</a>	
41			Problems on leaf spring		<a href="https://youtu.be/L9Bp7hfwE_g">https://youtu.be/L9Bp7hfwE_g</a>	
42			Design of flywheel		<a href="https://youtu.be/8gLoH6cuEsU">https://youtu.be/8gLoH6cuEsU</a>	
43			Problems on flywheel		<a href="https://youtu.be/cL2slss7WGY">https://youtu.be/cL2slss7WGY</a>	
44			Design of connecting rod		<a href="https://youtu.be/Y1CMFREpSR0">https://youtu.be/Y1CMFREpSR0</a>	
45			Problems on connecting rod		<a href="https://youtu.be/VEZXGxgPdOk">https://youtu.be/VEZXGxgPdOk</a>	
46			Design of crank shaft I		<a href="https://youtu.be/oxlUOo7z5e8">https://youtu.be/oxlUOo7z5e8</a>	

47			Design of crank shaft II		<a href="https://youtu.be/nM4phMu7AEo">https://youtu.be/nM4phMu7AEo</a>	
48			Problems in crank shaft		<a href="https://youtu.be/AY5ss2lZGkE">https://youtu.be/AY5ss2lZGkE</a>	
49		Unit V Bearings	Introduction, Types of bearings, sliding contact bearing	Dr. K. Anbukarasi Assistant Professor Thanthai Periyar Government Institute of Technology, Vellore Assistant Professor, <i>anbukarasik75@gmail.com</i> 9994067372	<a href="https://youtu.be/o0Ld4iJK_Ws">https://youtu.be/o0Ld4iJK_Ws</a>	
50	<a href="https://youtu.be/Be0G3Pss_IQ">https://youtu.be/Be0G3Pss_IQ</a>					
51	Design parameters, and roller bearings		<a href="https://youtu.be/ox4iF6eGj0I">https://youtu.be/ox4iF6eGj0I</a>			
52	Selection process of rolling contact bearings, -Ball bearings and Roller bearing		<a href="https://youtu.be/xNhZi24D6Y">https://youtu.be/xNhZi24D6Y</a>			
53			<a href="https://youtu.be/9McyBdc_R3U">https://youtu.be/9McyBdc_R3U</a>			
54			<a href="https://youtu.be/IwXw82Prv5U">https://youtu.be/IwXw82Prv5U</a>			






## 5. ME8501 Metrology and Measurements

Sl. No	Subject Code and Name	e-Lecture Unit	Title of video lecture	Faculty Name, Designation, e -mail ID and mobile number	Video link (Google Drive/You Tube)	QR code
1	ME8501 Metrology and Measurements	Unit I Basics of Metrology	Basics ,need & elements of Metrology , Environment effects on Precision and Accuracy Errors& its measurement Standard types	Prof. M. Mahalingam Assistant Professor Government College of Engineering, Bodinayakkanur <i>mahamuthaiyan5@gmail.com</i> 7904752282	<a href="https://www.youtube.com/watch?v=N-72Ca8wm6Y">https://www.youtube.com/watch?v=N-72Ca8wm6Y</a>	
2		Unit II Linear And Angular Measurements	Linear And Angular Measurements	Prof. M. Mahalingam Assistant Professor Government College of Engineering, Bodinayakkanur <i>mahamuthaiyan5@gmail.com</i> 7904752282	<a href="https://www.youtube.com/watch?v=zZVDFD3iaI0">https://www.youtube.com/watch?v=zZVDFD3iaI0</a>	
3		Unit III Advances In Metrology	Laser Interferometer, CMM, , Machine vision system, Types, Applications	Dr.Sukumar Assistant Professor Government College of Engineering, Bodinayakkanur <i>sukumar.rp@gmail.com</i> 994086268	<a href="https://www.youtube.com/watch?v=Lwrvflmsths">https://www.youtube.com/watch?v=Lwrvflmsths</a>	
4		Unit IV Form Measurement	Form measurement, Straightness, Flatness measurement, Thread, Gear, Surface roughness measurement, Roundness measurement, applications	Prof. M. Mahalingam, Assistant Professor Government College of Engineering, Bodinayakkanur <i>mahamuthaiyan@gmail.com</i> 7904752282	<a href="https://www.youtube.com/watch?v=uDpjiojN8oo">https://www.youtube.com/watch?v=uDpjiojN8oo</a>	
5		Unit V Measurement of Power, Flow and Temperature	Measurement of Force, Torque, Power, Flow measurement, Temperature measurement , Reliability and Calibration	Prof. M. Mahalingam, Assistant Professor Government College of Engineering, Bodinayakkanur <i>mahamuthaiyan@gmail.com</i> 7904752282	<a href="https://www.youtube.com/watch?v=LHM64moA3TE">https://www.youtube.com/watch?v=LHM64moA3TE</a>	







## 6. ME8594 Dynamics of Machines





Sl. No	Subject Code and Name	e-Lecture Unit	Title of video lecture	Faculty Name, Designation, e-mail ID and mobile number	Video link (Google Drive/You Tube)	QR code
1	ME8594 Dynamics of Machines	Unit I Force Analysis	Basic Concepts and Dynamic analysis of reciprocating parts	Mr.S.Sankar Ganesh Assistant Professor Government College of Engineering, Tirunelveli <i>sankarganesh181085@gmail.com</i> 8807266386	<a href="https://drive.google.com/file/d/1tbMycDbQpeJ2ldxSC6_j7nnjlBEQeGr1/view?usp=sharing">https://drive.google.com/file/d/1tbMycDbQpeJ2ldxSC6_j7nnjlBEQeGr1/view?usp=sharing</a>	
2			Forces acting on reciprocating parts and Turning moment diagram		<a href="https://drive.google.com/file/d/1bZ7T6WNB7s3qJlM8l9Kv_sYeVUXg1R/view?usp=sharing">https://drive.google.com/file/d/1bZ7T6WNB7s3qJlM8l9Kv_sYeVUXg1R/view?usp=sharing</a>	
3		Unit II Balancing	Balancing of Rotating masses	Mr.S.Sankar Ganesh Assistant Professor Government College of Engineering, Tirunelveli <i>sankarganesh181085@gmail.com</i> 8807266386	<a href="https://drive.google.com/file/d/1Au9h8Oc-bLecM_MYOwHZWuqKjoAR4yv6/view?usp=sharing">https://drive.google.com/file/d/1Au9h8Oc-bLecM_MYOwHZWuqKjoAR4yv6/view?usp=sharing</a>	
4		Unit III Free Vibration	Free Vibration	Mr.S.Sankar Ganesh Assistant Professor Government College of Engineering, Tirunelveli <i>sankarganesh181085@gmail.com</i> 8807266386	<a href="https://drive.google.com/file/d/1J1YowaehEAeSUMw9VzuSlBPpzQMtHfM2/view?usp=sharing">https://drive.google.com/file/d/1J1YowaehEAeSUMw9VzuSlBPpzQMtHfM2/view?usp=sharing</a>	
5			Critical Speed of shafts		<a href="https://drive.google.com/file/d/1IE5Ef0uVcOgUQWQcw-SsVVupoQ5Cie6v/view?usp=sharing">https://drive.google.com/file/d/1IE5Ef0uVcOgUQWQcw-SsVVupoQ5Cie6v/view?usp=sharing</a>	
6			Free Damped Vibration		<a href="https://drive.google.com/file/d/1vudO8F2-xpT7MePbdaFWIvyXeEnvA_TI/view?usp=sharing">https://drive.google.com/file/d/1vudO8F2-xpT7MePbdaFWIvyXeEnvA_TI/view?usp=sharing</a>	
7		Unit IV Forced vibration	Forced vibration		<a href="https://drive.google.com/file/d/1LbyvaCyk9sXIETiYtJnPBPyQDLt4-pxW/view?usp=sharing">https://drive.google.com/file/d/1LbyvaCyk9sXIETiYtJnPBPyQDLt4-pxW/view?usp=sharing</a>	










8			Problems	Mr.S.Sankar Ganesh Assistant Professor Government College of Engineering, Tirunelveli <i>sankarganesh181085@gmail.com</i> 8807266386	<a href="https://drive.google.com/file/d/13i-i1YlcNQnInjeZ1_VMpaa4xreeLGr/view?usp=sharing">https://drive.google.com/file/d/13i-i1YlcNQnInjeZ1_VMpaa4xreeLGr/view?usp=sharing</a>	
9			Vibration Isolation		<a href="https://drive.google.com/file/d/1RPyQiwqBt5iYC1G73gZGaHQNh5_7NpBmV/view?usp=sharing">https://drive.google.com/file/d/1RPyQiwqBt5iYC1G73gZGaHQNh5_7NpBmV/view?usp=sharing</a>	
10		Unit V Mechanism for Control	Governors (Watt and Porter Governor)	S.Sankar Ganesh Assistant Professor Government College of Engineering, Tirunelveli <i>sankarganesh181085@gmail.com</i> 8807266386	<a href="https://drive.google.com/file/d/1tibsSyTXmrSNs3ioC7SbNGv5VADy_U_K/view?usp=sharing">https://drive.google.com/file/d/1tibsSyTXmrSNs3ioC7SbNGv5VADy_U_K/view?usp=sharing</a>	
11			Governors ( Proell, Hartnell and Hartung)		<a href="https://drive.google.com/file/d/121EGqwa8Kixmwz903SbTAcww3mhNFzv3/view?usp=sharing">https://drive.google.com/file/d/121EGqwa8Kixmwz903SbTAcww3mhNFzv3/view?usp=sharing</a>	
12			Gyroscope		<a href="https://drive.google.com/file/d/1oWkLo5UTCtkXHmT_X0yb2HDxizMKX3VP/view?usp=sharing">https://drive.google.com/file/d/1oWkLo5UTCtkXHmT_X0yb2HDxizMKX3VP/view?usp=sharing</a>	







## 7.OAT551 Automotive systems

Sl. No	Subject Code and Name	e-Lecture Unit	Title of video lecture	Faculty Name, Designation, e-mail ID and mobile number	Video link (Google Drive/You Tube)	QR code
1	OAT551 Automotive Systems	Unit I Automotive Engine Auxiliary Systems	Introduction to Automotive systems	Dr. T. Prem Singh Inbaraj Assistant Professor Government College of Engineering, Tirunelveli <i>premsingh@gcetly.ac.in</i> 93457 37511	<a href="https://drive.google.com/file/d/1UwOosuCVhGQV8G6WWQi73yI4LzAhhBBC/view">https://drive.google.com/file/d/1UwOosuCVhGQV8G6WWQi73yI4LzAhhBBC/view</a>	
2			Automotive engines - Classification of engines		<a href="https://drive.google.com/file/d/1862h54PutWj8AW84Gz8HBX5np2tFxe0-/view">https://drive.google.com/file/d/1862h54PutWj8AW84Gz8HBX5np2tFxe0-/view</a>	
3			Components of IC engine, working of two stroke & four stroke engines, Port timing and valve timing diagrams		<a href="https://drive.google.com/file/d/1aCBKmTcaef1c3XMNIxesXngYcGFF60rO/view?usp=sharing">https://drive.google.com/file/d/1aCBKmTcaef1c3XMNIxesXngYcGFF60rO/view?usp=sharing</a>	
4		Unit II Vehicle Frames and Steering System	Vehicle Frames and Steering System	Dr. T. Prem Singh Inbaraj Assistant Professor Government College of Engineering, Tirunelveli <i>premsingh@gcetly.ac.in</i> 93457 37511	<a href="https://drive.google.com/file/d/1jZT9R-Wu9cICc8crfKm00HGnD4xxRqoe/view?usp=sharing">https://drive.google.com/file/d/1jZT9R-Wu9cICc8crfKm00HGnD4xxRqoe/view?usp=sharing</a>	
5		Unit III Transmission Systems	Automotive clutches	Dr. T. Prem Singh Inbaraj Assistant Professor Government College of Engineering, Tirunelveli <i>premsingh@gcetly.ac.in</i> 93457 37511	<a href="https://drive.google.com/file/d/1Y64H4nKwyfAyBG-qcy_w-119gTjTg0jU/view?usp=sharing">https://drive.google.com/file/d/1Y64H4nKwyfAyBG-qcy_w-119gTjTg0jU/view?usp=sharing</a>	
6			Automotive gear box, propeller shaft, joints, differential and other transmission systems	<a href="https://drive.google.com/file/d/1SmERUdVfZIPaMQxfN36Lg0IT9VlJMRg9/view?usp=sharing">https://drive.google.com/file/d/1SmERUdVfZIPaMQxfN36Lg0IT9VlJMRg9/view?usp=sharing</a>		







7		Unit IV Suspension And Brakes Systems	Automotive suspension systems	Dr. T. Prem Singh Inbaraj Assistant Professor Government College of Engineering, Tirunelveli <i>premsingh@gcetly.ac.in</i> 93457 37511	<a href="https://drive.google.com/file/d/1DwnplSkLcQxxDuyuvUOfW5TUyexNKVv7/view?usp=sharing">https://drive.google.com/file/d/1DwnplSkLcQxxDuyuvUOfW5TUyexNKVv7/view?usp=sharing</a>	
8			Automotive brakes, ABS and Electronic brake distribution		<a href="https://drive.google.com/file/d/19w_cbBoKzc91qo7CU2FxNsF5tR6qsOZU/view?usp=sharing">https://drive.google.com/file/d/19w_cbBoKzc91qo7CU2FxNsF5tR6qsOZU/view?usp=sharing</a>	
9		Unit V Alternative Energy Sources	Alternate fuels for automotive systems - natural gas, LPG, bio diesel, bioethanol, hydrogen and fuel cells	Dr. T. Prem Singh Inbaraj Assistant Professor Government College of Engineering, Tirunelveli <i>premsingh@gcetly.ac.in</i> 93457 37511	<a href="https://drive.google.com/file/d/1Xp00m6NebqasinFUsYl-65k01bwIVJxm/view?usp=sharing">https://drive.google.com/file/d/1Xp00m6NebqasinFUsYl-65k01bwIVJxm/view?usp=sharing</a>	
10			Turbochargers and three way catalytic converters		<a href="https://drive.google.com/file/d/1sR2VAa55IVnSbLh6CWvw73TNKiIayYIU/view?usp=sharing">https://drive.google.com/file/d/1sR2VAa55IVnSbLh6CWvw73TNKiIayYIU/view?usp=sharing</a>	

## 8. OIM552 Lean Manufacturing


Sl. No	Subject Code and Name	e-Lecture Unit	Title of video lecture	Faculty Name, Designation, e-mail ID and mobile number	Video link (Google Drive/You Tube)	QR code
1	OIM552 Lean Manufacturing	Unit I Introduction to Lean Manufacturing	Introduction to Lean Manufacturing conventional manufacturing system Vs Lean manufacturing	Dr. RM.Nachiappan Associate Professor Government College of Engineering, Thanjavur dchenachiappan@gmail.com 9384102600	<a href="https://youtu.be/3VMjet2F qIA">https://youtu.be/3VMjet2F qIA</a>	
2					<a href="https://youtu.be/0XeLaS- 2cFE">https://youtu.be/0XeLaS- 2cFE</a>	
3					<a href="https://youtu.be/qyZNuQR xO9k">https://youtu.be/qyZNuQR xO9k</a>	
4					<a href="https://youtu.be/ZxQCM6x MeWU">https://youtu.be/ZxQCM6x MeWU</a>	
5					<a href="https://youtu.be/F IwdSPC f1A">https://youtu.be/F IwdSPC f1A</a>	
6					<a href="https://youtu.be/IzdlURCx TbQ">https://youtu.be/IzdlURCx TbQ</a>	
7					<a href="https://youtu.be/9fUwdpg groY">https://youtu.be/9fUwdpg groY</a>	

8					<a href="https://youtu.be/lTQu1o33_q5g">https://youtu.be/lTQu1o33_q5g</a>	
9					<a href="https://youtu.be/zYHbU_2t_wFU">https://youtu.be/zYHbU_2t_wFU</a>	
10		Unit II Cellular Manufacturing, JIT, TPM	Cellular Manufacturing	Dr. RM.Nachiappan Associate Professor Government College of Engineering, Thanjavur <i>dacenachiappan@gmail.com</i> 9384102600	<a href="https://youtu.be/rYWni6DZcUs">https://youtu.be/rYWni6DZcUs</a>	
11		Unit III Set Up Time Reduction, TQM, 5S, VSM	Setup time reduction		<a href="https://drive.google.com/file/d/1YyWuVqY1phZv_PcdKiFCQBV3O65-6UaS/view?usp=sharing">https://drive.google.com/file/d/1YyWuVqY1phZv_PcdKiFCQBV3O65-6UaS/view?usp=sharing</a>	
12		Unit IV SIX SIGMA	Six sigma - Definition, Statistical consideration		<a href="https://drive.google.com/file/d/1NNKB29VuYgXh4L-llwgj2tFcDD6y6yz4/view?usp=sharing">https://drive.google.com/file/d/1NNKB29VuYgXh4L-llwgj2tFcDD6y6yz4/view?usp=sharing</a>	
13		Unit V Case Studies	Lean manufacturing implementation- (case study) in foot wear manufacturing industry		<a href="https://drive.google.com/file/d/138VuygCTP0WWK3fom-surXdapZFbGcf/view?usp=sharing">https://drive.google.com/file/d/138VuygCTP0WWK3fom-surXdapZFbGcf/view?usp=sharing</a>	

## 9. OR0551 Renewable Energy Sources

Sl. No	Subject Code and Name	e-Lecture Unit	Title of video lecture	Faculty Name, Designation, e-mail ID and mobile number	Video link (Google Drive/You Tube)	QR code
1	OR0551 Renewable Energy Sources	Unit I Principles of Solar Radiation	Principles of Solar Radiation	Mr. P.Gowtham Assistant Professor Government College of Engineering, Srirangam gowthamp@gces.edu.in 9629742301	<a href="https://drive.google.com/drive/folders/1lpEfWJDav1YoD_zdL8IvtdpNrmbzYyh?usp=sharing">https://drive.google.com/drive/folders/1lpEfWJDav1YoD_zdL8IvtdpNrmbzYyh?usp=sharing</a>	
2		Unit II Solar Energy Collection	Introduction of Solar Collector	V.Manienyan Assistant Professor in Mechanical Engineering Government College of Engineering-Srirangam manienyan78@gmail.com 9786597444	<a href="https://drive.google.com/file/d/1ILTKUv68RTHIZNBdzKFCOc35Uip1rMCQ/view?usp=sharing">https://drive.google.com/file/d/1ILTKUv68RTHIZNBdzKFCOc35Uip1rMCQ/view?usp=sharing</a>	
3			Focusing Collector		<a href="https://drive.google.com/file/d/1WJcMy5RBw9Y8jlvTjyU5Y5l5tExZ0ZL6/view?usp=sharing">https://drive.google.com/file/d/1WJcMy5RBw9Y8jlvTjyU5Y5l5tExZ0ZL6/view?usp=sharing</a>	
4			Performance Analysis Concentrating Collector		<a href="https://drive.google.com/file/d/1Q4BH8Xo16R8yHG44Yq-tvHYiK2WceZs/view?usp=sharing">https://drive.google.com/file/d/1Q4BH8Xo16R8yHG44Yq-tvHYiK2WceZs/view?usp=sharing</a>	
5			Flat Plate Collector		<a href="https://drive.google.com/file/d/1vhn6BSmzABw293vWxr7FskxNDMtSEew/view?usp=sharing">https://drive.google.com/file/d/1vhn6BSmzABw293vWxr7FskxNDMtSEew/view?usp=sharing</a>	
6		Energy Balance	<a href="https://drive.google.com/file/d/1ltS8UFcGkXp88VR-ix0Fzq5tjil96Lxs/view?usp=sharing">https://drive.google.com/file/d/1ltS8UFcGkXp88VR-ix0Fzq5tjil96Lxs/view?usp=sharing</a>			








7			Performance Analysis Flat Plate Collector		<a href="https://drive.google.com/file/d/11qX1_evQOrjM-Q0h50FNYawCQSI2mef/view?usp=sharing">https://drive.google.com/file/d/11qX1_evQOrjM-Q0h50FNYawCQSI2mef/view?usp=sharing</a>	
8			Advance Collector		<a href="https://drive.google.com/file/d/1stwpbxazGp4WP-7oOHd-fooGz0Y5WLH3/view?usp=sharing">https://drive.google.com/file/d/1stwpbxazGp4WP-7oOHd-fooGz0Y5WLH3/view?usp=sharing</a>	
9		Unit III Solar Energy Storage And Applications	Solar Energy Storage	V.Manieniyan Assistant Professor Government College of Engineering-Srirangam <i>manieniyan78@gmail.com</i> 9786597444	<a href="https://drive.google.com/file/d/1D6q2ctZCK_Y9tIHfAn1WCqxdpLFtOdS/view?usp=sharing">https://drive.google.com/file/d/1D6q2ctZCK_Y9tIHfAn1WCqxdpLFtOdS/view?usp=sharing</a>	
10	Solar Energy Applications -1		<a href="https://drive.google.com/file/d/1eH6QyE-lITE71k8iQ5e5jmxznOnl_LO/view?usp=sharing">https://drive.google.com/file/d/1eH6QyE-lITE71k8iQ5e5jmxznOnl_LO/view?usp=sharing</a>			
11	Solar Energy Applications -2		<a href="https://drive.google.com/file/d/1XkYmEVCur9k5XdhRg0hXUNcmXTV05VtB/view?usp=sharing">https://drive.google.com/file/d/1XkYmEVCur9k5XdhRg0hXUNcmXTV05VtB/view?usp=sharing</a>			
12	Solar Energy Applications -3		<a href="https://drive.google.com/file/d/191MaV0m3ezW1Hvj-WfRc0PvXz4MafIR-/view?usp=sharing">https://drive.google.com/file/d/191MaV0m3ezW1Hvj-WfRc0PvXz4MafIR-/view?usp=sharing</a>			
13	Photovoltaic Energy Conversion		<a href="https://drive.google.com/file/d/1LLQKwCNny4C2-uQon99IYbFd8fOq6iCG/view?usp=sharing">https://drive.google.com/file/d/1LLQKwCNny4C2-uQon99IYbFd8fOq6iCG/view?usp=sharing</a>			
14			Unit IV Wind Energy		Sources and potentials	P.Gowtham Assistant Professor Government College of Engineering Srirangam <i>gowthamvortex@gmail.com</i> 9629742301
15		Horizontal and vertical axis windmills				
16		Performance characteristics, Betz criteria				
17		Principles of Bio-				

			Conversion, Anaerobic/aerobic digestion			
18			Types of Bio-gas digesters, gas yield, combustion characteristics of bio-gas, utilization for cooking			
19			I.C.Engine operation and economic aspects			
20		Unit V Geothermal Energy	Resources, types of wells, methods of harnessing the energy, potential in India	Mr.B.Suresh Kumar, Assistant Professor, Government College of Engineering Srirangam <i>suresh1983rev@gmail.com</i> 9994041270	<a href="https://drive.google.com/drive/folders/1pLLwOI6Wcr7srU7GJP5iMwq-UOxF_nSD?usp=sharing">https://drive.google.com/drive/folders/1pLLwOI6Wcr7srU7GJP5iMwq-UOxF_nSD?usp=sharing</a>	
21	OCEAN ENERGY: OTEC, Principles utilization, setting of OTEC plants, thermodynamic cycles					
22	Tidal and wave energy: Potential and conversion techniques					
23	Mini-hydel power plants, and their economics					
24	Direct energy conversion: Need for DEC, Carnot cycle, limitations, principles of DEC.					









## Semester VII









### 10. ME8792 Power Plant Engineering









Sl. No	Subject Code and Name	e-Lecture Unit	Title of video lecture	Faculty Name, Designation, e-mail ID and mobile number	Video link (Google Drive/You Tube)	QR code
1	ME8792 Power Plant Engineering	Unit I Coal Based Thermal Power Plants	Layout of Modern Coal Power Plant	Dr.N.Muthukumaran Assistant Professor Government College of Engineering, Dharmapuri <i>muthukumarapme@gmail.com</i> 9894301560	<a href="https://drive.google.com/file/d/1ZSah45PGycaEuMnp4jzLnv5X6WxesxsU/view?usp=sharing">https://drive.google.com/file/d/1ZSah45PGycaEuMnp4jzLnv5X6WxesxsU/view?usp=sharing</a>	
2			Boiler		<a href="https://drive.google.com/file/d/1nr9aKnvsxzjCkqxY2ompnvGBKUiFWjit/view?usp=sharing">https://drive.google.com/file/d/1nr9aKnvsxzjCkqxY2ompnvGBKUiFWjit/view?usp=sharing</a>	
3			Sub Systems of Thermal Power Plants		<a href="https://drive.google.com/file/d/1mtVDkjDJKSPmMfx824sIN68PMUvl61e/view?usp=sharing">https://drive.google.com/file/d/1mtVDkjDJKSPmMfx824sIN68PMUvl61e/view?usp=sharing</a>	
4		Unit II Diesel, Gas Turbine and Combined Cycle Power Plants	Power Cycle	Dr.N.Muthukumaran Assistant Professor Government College of Engineering, Dharmapuri <i>muthukumarapme@gmail.com</i> 9894301560	<a href="https://drive.google.com/file/d/1tLs449clPMfwQRU6DBZnDQtjdP-bfqrX/view?usp=sharing">https://drive.google.com/file/d/1tLs449clPMfwQRU6DBZnDQtjdP-bfqrX/view?usp=sharing</a>	
5		Components of Diesel and Gas turbines	<a href="https://drive.google.com/file/d/1hQuh5l_vGhpGgY4OkBviEHuNilltLWQ/view?usp=sharing">https://drive.google.com/file/d/1hQuh5l_vGhpGgY4OkBviEHuNilltLWQ/view?usp=sharing</a>			
6		Combined cycle	<a href="https://drive.google.com/file/d/1oRcjG0Z3LjdlemgGUUZlk0LOA2lrMcNp/view?usp=sharing">https://drive.google.com/file/d/1oRcjG0Z3LjdlemgGUUZlk0LOA2lrMcNp/view?usp=sharing</a>			
7		Integrated Gasifier Based Combined Cycle	<a href="https://drive.google.com/file/d/1izMcC1Xq6HW-9QUbT7PgSs6S4DsOe0MI/view?usp=sharing">https://drive.google.com/file/d/1izMcC1Xq6HW-9QUbT7PgSs6S4DsOe0MI/view?usp=sharing</a>			


8		Unit III Nuclear Power Plants	Nuclear Power Plant	Dr.N.Muthukumaran Assistant Professor Government College of Engineering, Dharmapuri <i>muthukumarapme@gmail.com</i> 9894301560	<a href="https://drive.google.com/file/d/1rp8LaQ-xPYqWvl0kfOjKUBvsPY9ndRE/view?usp=sharing">https://drive.google.com/file/d/1rp8LaQ-xPYqWvl0kfOjKUBvsPY9ndRE/view?usp=sharing</a>	
9		Unit IV Power From Renewable Energy	Hydro and Wind Energies	Mr.M. Murugan Assistant Professor Government College of Engineering, Dharmapuri <i>kalammurugan92@gcedpi.edu.in</i> 9677456530	<a href="https://youtu.be/S7YnJXBgLHs">https://youtu.be/S7YnJXBgLHs</a>	
10			Tidal, Solar & Geothermal energies		<a href="https://youtu.be/bXK6p0LCtck">https://youtu.be/bXK6p0LCtck</a>	
11			Biogas & Fuel cell		<a href="https://youtu.be/AfxNCV9bUtU">https://youtu.be/AfxNCV9bUtU</a>	
12			Power tariff types, Load distribution parameters, load curve, Comparison of site selection criteria		Dr.N.Muthukumaran Assistant Professor Government College of Engineering, Dharmapuri <i>muthukumarapme@gmail.com</i> 9894301560	<a href="https://drive.google.com/file/d/1B8yUXKtzeDGjFPwUDAizTLB7YBnCFSz/view?usp=sharing">https://drive.google.com/file/d/1B8yUXKtzeDGjFPwUDAizTLB7YBnCFSz/view?usp=sharing</a>
13		Unit V Energy, Economic And Environmental Issues Of Power Plants	Capital & Operating Cost of different power plants with problems	<a href="https://drive.google.com/file/d/1MzPfeXN862Ir4PyMMzM5acv-H9zL95S1/view?usp=sharing">https://drive.google.com/file/d/1MzPfeXN862Ir4PyMMzM5acv-H9zL95S1/view?usp=sharing</a>		
14		Pollution control technologies including Waste Disposal Options for Coal based power plants	<a href="https://drive.google.com/file/d/1SUKIoDJdSIEGW1v4gPQXKiobxFHk5pic/view?usp=sharing">https://drive.google.com/file/d/1SUKIoDJdSIEGW1v4gPQXKiobxFHk5pic/view?usp=sharing</a>			
15		Pollution control technologies including Waste Disposal Options for Nuclear power plants	<a href="https://drive.google.com/file/d/1m5EHt0L5kQ_nBG2Ff-z3TkoGfzkTmgIh/view?usp=sharing">https://drive.google.com/file/d/1m5EHt0L5kQ_nBG2Ff-z3TkoGfzkTmgIh/view?usp=sharing</a>			

## 11. ME8793 Process Planning and Cost Estimation

Sl. No	Subject Code and Name	e-Lecture Unit	Title of video lecture	Faculty Name, Designation, e-mail ID and mobile number	Video link (Google Drive/You Tube)	QR code	
1	ME8793 Process Planning and Cost Estimation	Unit I Introduction to Process Planning	Introduction to Process Planning	Dr. TV Rajamurugan Assistant Professor Government College of Engineering, Srirangam <i>vrajamanu@gmail.com</i> 9444241305	<a href="https://drive.google.com/drive/folders/1v3zCDvYrBE6Re3kxkRSt7pjNEASMu984?usp=sharing">https://drive.google.com/drive/folders/1v3zCDvYrBE6Re3kxkRSt7pjNEASMu984?usp=sharing</a>		
2		Unit II Process Planning Activities	Process parameter calculation, Selection of JIGs and Fixtures, Selection of quality assurance methods, Set of documents required for process planning, Economics of process planning, Case study.	Dr.M.Rajamuthamilselvan Assistant Professor Government College of Engineering, Srirangam <i>rajanarmi@yahoo.co.in</i> 9486402483	<a href="https://drive.google.com/drive/folders/1w72ZcCf6z0x6EqpsehBwP9jL-ybTPeGB?usp=sharing">https://drive.google.com/drive/folders/1w72ZcCf6z0x6EqpsehBwP9jL-ybTPeGB?usp=sharing</a>		
3		Unit III Introduction To Cost Estimation		Cost Estimating-1	N,Ramasubbu, Assistant Professor Government College of Engineering, Srirangam <i>ramasubbu9596@gmail.com</i> 9994408478	<a href="https://drive.google.com/file/d/1ZmJfCOE3O2LWqYaJIYboclQemZ4qc/view?usp=drivesdk">https://drive.google.com/file/d/1ZmJfCOE3O2LWqYaJIYboclQemZ4qc/view?usp=drivesdk</a>	
4				Cost Estimating-2		<a href="https://drive.google.com/file/d/1MYnigujko6wFoxt71SUvzS3E1eFUaqHj/view?usp=drivesdk">https://drive.google.com/file/d/1MYnigujko6wFoxt71SUvzS3E1eFUaqHj/view?usp=drivesdk</a>	
5				Elements of Cost-1		<a href="https://drive.google.com/file/d/1sA6DXVTwH54aNZK5pZvNhsn9gSXfGYI/view?usp=drivesdk">https://drive.google.com/file/d/1sA6DXVTwH54aNZK5pZvNhsn9gSXfGYI/view?usp=drivesdk</a>	
6				Elements of Cost-2		<a href="https://drive.google.com/file/d/1myXfllI3T0y6Lqk6gcA FE mnWPOu9WPG/view?usp=drivesdk">https://drive.google.com/file/d/1myXfllI3T0y6Lqk6gcA FE mnWPOu9WPG/view?usp=drivesdk</a>	



7			Elements of Cost Estimation and Costing		<a href="https://drive.google.com/file/d/1xaSaM211v1GjXvhrmFqwpNe-adpFF6cC/view?usp=drivesdk">https://drive.google.com/file/d/1xaSaM211v1GjXvhrmFqwpNe-adpFF6cC/view?usp=drivesdk</a>	
8			Components of Cost and Estimation of Material Cost		<a href="https://drive.google.com/file/d/10IFyFAEG4k9funPc3PoR4xg1W8Vl0eIb/view?usp=drivesdk">https://drive.google.com/file/d/10IFyFAEG4k9funPc3PoR4xg1W8Vl0eIb/view?usp=drivesdk</a>	
9			Estimation of Material cost-2		<a href="https://drive.google.com/file/d/1ssdBwKhuzaliAoP1xiYUZevvPap6K-Ki/view?usp=drivesdk">https://drive.google.com/file/d/1ssdBwKhuzaliAoP1xiYUZevvPap6K-Ki/view?usp=drivesdk</a>	
10			Labour Cost and Standard time		<a href="https://drive.google.com/file/d/1UyRDla80Xc5rP0Alih_07GXT_zgL_Y5P7/view?usp=drivesdk">https://drive.google.com/file/d/1UyRDla80Xc5rP0Alih_07GXT_zgL_Y5P7/view?usp=drivesdk</a>	
11			Problems on Estimation of cost and profit		<a href="https://drive.google.com/file/d/130SrR4YQ9FvtNWyop_e6Lbxf8Vq9eidd/view?usp=drivesdk">https://drive.google.com/file/d/130SrR4YQ9FvtNWyop_e6Lbxf8Vq9eidd/view?usp=drivesdk</a>	
12			Problems Contd. and Allocation of overhead expanses1		<a href="https://drive.google.com/file/d/19oOziDlCYo48m-LBHaplctSqE8BKN99S/view?usp=drivesdk">https://drive.google.com/file/d/19oOziDlCYo48m-LBHaplctSqE8BKN99S/view?usp=drivesdk</a>	
13			Overhead Expanses-2 and Depreciation-1		<a href="https://drive.google.com/file/d/1CMncY07pE5Dc_slo-kDraaBjOqfDhtIT/view?usp=drivesdk">https://drive.google.com/file/d/1CMncY07pE5Dc_slo-kDraaBjOqfDhtIT/view?usp=drivesdk</a>	
14			Depreciation(P)-2		<a href="https://drive.google.com/file/d/1ZdM7K8UN59Z_1i2b_2R3nGz8DjigQdxh/view?usp=drivesdk">https://drive.google.com/file/d/1ZdM7K8UN59Z_1i2b_2R3nGz8DjigQdxh/view?usp=drivesdk</a>	

15		Unit IV Production Cost Estimation	Estimation of Forging Shop-1	N,Ramasubbu Assistant Professor Government College of Engineering, .Srirangam, <i>ramasubbu9596@gmail.com</i> 9994408478	<a href="https://drive.google.com/file/d/10n1980xjl6m7aQv_fjUv-LrUh-u2yjpn/view?usp=drivesdk">https://drive.google.com/file/d/10n1980xjl6m7aQv_fjUv-LrUh-u2yjpn/view?usp=drivesdk</a>	
16	Estimation of Forging Shop-2		<a href="https://drive.google.com/file/d/1Qmlm9w7YnHBJT5MTSXNhlmvnMEX62OJL/view?usp=sharing">https://drive.google.com/file/d/1Qmlm9w7YnHBJT5MTSXNhlmvnMEX62OJL/view?usp=sharing</a>			
17	Estimation of Forging Shop-3		<a href="https://drive.google.com/file/d/1FB7qWjeECv8MTcXbAYZpV8-NvCTc4Dz/view?usp=drivesdk">https://drive.google.com/file/d/1FB7qWjeECv8MTcXbAYZpV8-NvCTc4Dz/view?usp=drivesdk</a>			
18	Estimation of Forging Shop-4		<a href="https://drive.google.com/file/d/1C0MIROXcZS90lhOy7mfFLRbkiP-qtm2/view?usp=drivesdk">https://drive.google.com/file/d/1C0MIROXcZS90lhOy7mfFLRbkiP-qtm2/view?usp=drivesdk</a>			
19	Estimation of Foundry Shop-1		<a href="https://drive.google.com/file/d/1ZUlm2EkZZV7L4czvefLQFQjCXmxIc6U7/view?usp=drivesdk">https://drive.google.com/file/d/1ZUlm2EkZZV7L4czvefLQFQjCXmxIc6U7/view?usp=drivesdk</a>			
20	Estimation of Foundry Shop-2		<a href="https://drive.google.com/file/d/1T9TMOMDj_15olBATyvcu4mS-o9rN5uk_/view?usp=drivesdk">https://drive.google.com/file/d/1T9TMOMDj_15olBATyvcu4mS-o9rN5uk_/view?usp=drivesdk</a>			
21	Estimation of Foundry Shop-3		<a href="https://drive.google.com/file/d/1elbjGYBxErmh1uWRWViytVgEIX5tqMLk/view?usp=drivesdk">https://drive.google.com/file/d/1elbjGYBxErmh1uWRWViytVgEIX5tqMLk/view?usp=drivesdk</a>			
22	Estimation of Welding shop Part I to Part III		Dr M. Rajamuthamilselvan Assistant Professor Government College of Engineering, .Srirangam <i>rajanarmi@yahoo.co.in</i> 9486402483	<a href="https://drive.google.com/file/d/1elbjGYBxErmh1uWRWViytVgEIX5tqMLk/view?usp=drivesdk">https://drive.google.com/file/d/1elbjGYBxErmh1uWRWViytVgEIX5tqMLk/view?usp=drivesdk</a>		

23		Unit V Machining Time Calculation	Introduction to Machining Time Calculation	Dr. I. Rahamathullah, Assistant Professor, Government College of Engineering Srirangam, <i>rahamath.iitm@gmail.com</i> 9444269773	<a href="https://youtu.be/MojfK66plik">https://youtu.be/MojfK66plik</a>	
24	Importance of Machining time calculation and some lathe operations		<a href="https://youtu.be/MRq0rZy67ug">https://youtu.be/MRq0rZy67ug</a>			
25	Machining time calculation lathe operations 1		<a href="https://youtu.be/UPAjwK6TvB0">https://youtu.be/UPAjwK6TvB0</a>			
26	Machining time calculation lathe operations 2		<a href="https://youtu.be/4dlwMI6xqCw">https://youtu.be/4dlwMI6xqCw</a>			
27	Machining time calculation - Milling		<a href="https://youtu.be/GjyXc7_0kXg">https://youtu.be/GjyXc7_0kXg</a>			
28	Machining time calculation – shaping and planning		<a href="https://youtu.be/9lpRlVe6nel">https://youtu.be/9lpRlVe6nel</a>			
29	Machining time calculation - Grinding		<a href="https://youtu.be/Ax6hNj5FkYk">https://youtu.be/Ax6hNj5FkYk</a>			



## 12. ME8791 Mechatronics







Sl. No	Subject Code and Name	e-Lecture Unit	Title of video lecture	Faculty Name, Designation, e-mail ID and mobile number	Video link (Google Drive/You Tube)	QR code
1	ME8791 Mechatronics	Unit I Introduction	Introduction to Mechatronics	Dr.B.Asaithambi Assistant Professor Government College of Engineering, Thanjavur <i>balakrishnanasaithambi@gmail.com</i> 9486959384	<a href="https://youtu.be/mPtsUQv_A_mk">https://youtu.be/mPtsUQv_A_mk</a>	
2		Unit II Microprocessor and Microcontroller	Microprocessor and Microcontroller	Dr.B.Asaithambi Assistant Professor Government College of Engineering, Thanjavur <i>balakrishnanasaithambi@gmail.com</i> 9486959384	<a href="https://drive.google.com/file/d/14v5c00ZCpDQXKq5jDT5xpY_VCaNbAW0W/view?usp=sharing">https://drive.google.com/file/d/14v5c00ZCpDQXKq5jDT5xpY_VCaNbAW0W/view?usp=sharing</a>	
3		Unit III Programmable Peripheral Interface	Programmable Peripheral Interface	Dr.B.Asaithambi Assistant Professor Government College of Engineering, Thanjavur <i>balakrishnanasaithambi@gmail.com</i> 9486959384	<a href="https://drive.google.com/file/d/1iTvbkfrijLkEiFE-5jyhHk9Ch3ATWy_/view?usp=drive_sdk">https://drive.google.com/file/d/1iTvbkfrijLkEiFE-5jyhHk9Ch3ATWy_/view?usp=drive_sdk</a>	
4		Unit IV Programmable Logic Controller	Introduction to Programmable Logic Controller	Dr. K. Anbukarasi Thanthai Periyar Government Institute of Technology, Vellore <i>anbukarasik75@gmail.com</i> 9994067372	<a href="https://youtu.be/UdWCv1NyeSU">https://youtu.be/UdWCv1NyeSU</a>	
5			Architecture of PLC and I/O modules of PLC		<a href="https://youtu.be/rIjYQ1yHcM">https://youtu.be/rIjYQ1yHcM</a>	
6			Lecture on Ladder Programming, Logic Functions, Sequencing and Mnemonics		<a href="https://drive.google.com/file/d/1wpGi0oYrwoIM7_W-ixKUzkPIFqWn_B-H/view?usp=sharing">https://drive.google.com/file/d/1wpGi0oYrwoIM7_W-ixKUzkPIFqWn_B-H/view?usp=sharing</a>	


7			Lecture on Timers/Counter/Internal Relay, Shift Register, Data Handling and selection of PLC		<a href="https://drive.google.com/file/d/1wtOy91iT5WttAnhJw3nBvlsSw3Ahg100/view?usp=sharing">https://drive.google.com/file/d/1wtOy91iT5WttAnhJw3nBvlsSw3Ahg100/view?usp=sharing</a>	
8		Unit V Actuators And Mechatronic System Design	Actuators And Mechatronic System Design	Mr.K.Senthilkumar Assistant Professor(ADHOC) Government College of Engineering, Sengipatti <i>senthil30may@gmail.com</i> 8344518235	<a href="https://youtu.be/1MbXJE0S1jU">https://youtu.be/1MbXJE0S1jU</a>	








### 13. OML751 Testing of Materials

Sl. No	Subject Code and Name	e-Lecture Unit	Title of video lecture	Faculty Name, Designation, e-mail ID and mobile number	Video link (Google Drive/You Tube)	QR code
1	OML751 Testing of Materials	Unit I Introduction to Materials Testing	Introduction to testing of materials	Ms. Varthini Rajagopal Assistant Professor Government College of Engineering, Srirangam <i>varthini@gces.edu.in</i> 8903948847	<a href="https://drive.google.com/a/gces.edu.in/file/d/1X68oe_pG6CRrQHD3nsSlnH1l-ZZMU7j5/view?usp=drive_web">https://drive.google.com/a/gces.edu.in/file/d/1X68oe_pG6CRrQHD3nsSlnH1l-ZZMU7j5/view?usp=drive_web</a>	
2					<a href="https://drive.google.com/a/gces.edu.in/file/d/14lafrH-SAh1szlllcqb8VcPz0cafUbl/view?usp=drive_web">https://drive.google.com/a/gces.edu.in/file/d/14lafrH-SAh1szlllcqb8VcPz0cafUbl/view?usp=drive_web</a>	
3					<a href="https://drive.google.com/a/gces.edu.in/file/d/1FbSMfSyFarvWbVHsu-9CYn0Qi3LSMF_y/view?usp=drive_web">https://drive.google.com/a/gces.edu.in/file/d/1FbSMfSyFarvWbVHsu-9CYn0Qi3LSMF_y/view?usp=drive_web</a>	
4					<a href="https://drive.google.com/a/gces.edu.in/file/d/1KOY9ZctKXRYwG1cjwuGjoAaM0MSI8AXv/view?usp=drive_web">https://drive.google.com/a/gces.edu.in/file/d/1KOY9ZctKXRYwG1cjwuGjoAaM0MSI8AXv/view?usp=drive_web</a>	
5		Unit II Mechanical Testing	Introduction to Mechanical Testing, Hardness Test, Tensile Test, Impact Test(Izod and Charpy), Bend Test, Fatigue test - Principles, Techniques, Methods, Advantages, Applications	C.Rajaganapathy. Assistant Professor, Government College of Engineering, Srirangam <i>crgmech@gces.edu.in</i> 9994400278	<a href="https://drive.google.com/file/d/136feZpHjMXrzuibVMH05Bv4sDkoEwrDC/view?usp=sharing">https://drive.google.com/file/d/136feZpHjMXrzuibVMH05Bv4sDkoEwrDC/view?usp=sharing</a>	
6		Unit III Non Destructive Testing	Visual inspection & Liquid penetrant test	Ms. Varthini Rajagopal Assistant Professor Government College of Engineering, Srirangam <i>varthini@gces.edu.in</i> 8903948847	<a href="https://drive.google.com/file/d/1Spluj0ARsuUDtLCPz_eOyp3lZrHHtZ4k/view?usp=sharing">https://drive.google.com/file/d/1Spluj0ARsuUDtLCPz_eOyp3lZrHHtZ4k/view?usp=sharing</a>	





7			Magnetic particle test & Thermography test		<a href="https://drive.google.com/file/d/1PiXmcmHX5DoDz7ODxo_Hkwo_wAq1dYRI/view?usp=sharing">https://drive.google.com/file/d/1PiXmcmHX5DoDz7ODxo_Hkwo_wAq1dYRI/view?usp=sharing</a>	
8			Radiographic test & Eddy current test		<a href="https://drive.google.com/file/d/1Dbax4MLbSdIL5tPG_NvLkpVhTx_XW1Lgs/view?usp=sharing">https://drive.google.com/file/d/1Dbax4MLbSdIL5tPG_NvLkpVhTx_XW1Lgs/view?usp=sharing</a>	
9			Ultrasonic test & Acoustic emission		<a href="https://drive.google.com/file/d/1geDbre18Kkh48UvUmdl0Iq1tXGh_ZJLu_/view?usp=sharing">https://drive.google.com/file/d/1geDbre18Kkh48UvUmdl0Iq1tXGh_ZJLu_/view?usp=sharing</a>	
10		Unit IV Material Characterization Testing	Preparation of samples for microscopy	Dr.A.Baskar Assistant Professor Government College of Engineering Srirangam <i>basau2006@gmail.com</i> 9442359174	<a href="https://drive.google.com/file/d/1-11h3yJznO6Bs7P-3cTsu62OXOna5dz4/view?ts=5f42924c">https://drive.google.com/file/d/1-11h3yJznO6Bs7P-3cTsu62OXOna5dz4/view?ts=5f42924c</a>	
11	XRD techniques		<a href="https://drive.google.com/file/d/1-t-DewyWBKZzmg65FyC1IVppTx32Psmn/view?ts=5f42b379">https://drive.google.com/file/d/1-t-DewyWBKZzmg65FyC1IVppTx32Psmn/view?ts=5f42b379</a>			
12	SEM observation		<a href="https://drive.google.com/file/d/1-rUw9FUQt5G4p04Ty-YGD2MbzXac5o97/view?ts=5f42b868">https://drive.google.com/file/d/1-rUw9FUQt5G4p04Ty-YGD2MbzXac5o97/view?ts=5f42b868</a>			
13	Microscopy observation		<a href="https://drive.google.com/file/d/1-VNsL12xhX45q93YjafLUIWrmAi3Rx/view?ts=5f42c10b">https://drive.google.com/file/d/1-VNsL12xhX45q93YjafLUIWrmAi3Rx/view?ts=5f42c10b</a>			
14		Unit V Other Testing	Chemical Testing: X-Ray Fluorescence, Elemental Analysis by inductively coupled plasma-optical Emission Spectroscopy and Plasma-Mass spectrometry	C.Rajaganapathy Assistant Professor, Government College of Engineering Srirangam <i>crgmech@gmail.com</i> 9994400278	<a href="https://drive.google.com/file/d/1Ls8gAyQpGcMOCXMIouMS9l-5iQjKHBbZ/view?usp=sharing">https://drive.google.com/file/d/1Ls8gAyQpGcMOCXMIouMS9l-5iQjKHBbZ/view?usp=sharing</a>	



15			Differential Thermal Analysis	<p>Dr.A.Baskar,  Assistant Professor,  Government College of  Engineering  Srirangam, Trichy  <i>basau2006@gmail.com</i>  9442359174</p>	<a href="https://drive.google.com/file/d/1JZ_V0wM3vweWkd4Yn-drHobO3dcKHc2Y/view?ts=5f7ada4">https://drive.google.com/file/d/1JZ_V0wM3vweWkd4Yn-drHobO3dcKHc2Y/view?ts=5f7ada4</a>	
16		Dynamic Mechanical Analysis	<a href="https://drive.google.com/file/d/1J_Ds6MIUjFDzmxWvimstciocGwVlxQzV/view?ts=5f7b2ba6">https://drive.google.com/file/d/1J_Ds6MIUjFDzmxWvimstciocGwVlxQzV/view?ts=5f7b2ba6</a>			
17		Thermo Mechanical Analysis	<a href="https://drive.google.com/file/d/1Jag0AEUYb4QIEGYjypky4VyrHIMl4tQT/view?ts=5f7b3a55">https://drive.google.com/file/d/1Jag0AEUYb4QIEGYjypky4VyrHIMl4tQT/view?ts=5f7b3a55</a>			
18		Differential Scanning Calorimeter	<a href="https://drive.google.com/file/d/1JuD_NxyYBQqhjRLM-2kKSWOCy38YZXM/view?ts=5f7c0be9">https://drive.google.com/file/d/1JuD_NxyYBQqhjRLM-2kKSWOCy38YZXM/view?ts=5f7c0be9</a>			

## 14. OIE751 Robotics






Sl. No	Subject Code and Name	e-Lecture Unit	Title of video lecture	Faculty Name, Designation, e-mail ID and mobile number	Video link (Google Drive/You Tube)	QR code
1	OIE751 Robotics	Unit 1 Fundamentals of Robot	Fundamentals of Robot	Mr.J.Prabhakaran Assistant Professor(ADHOC) Government College of Engineering, Thanjavur <i>jpkn006@gmail.com</i> 9500334050	<a href="https://youtu.be/e29kLH71ZME">https://youtu.be/e29kLH71ZME</a>	
2		Unit II Robot Drive Systems And End Effectors	Robotics OIE751 : Unit 2	Mr.J.Prabhakaran Assistant Professor(ADHOC) Government College of Engineering, Thanjavur <i>jpkn006@gmail.com</i> 9500334050	<a href="https://youtu.be/x8JC8jaP064">https://youtu.be/x8JC8jaP064</a>	
3		UNIT III Sensors And Machine Vision	Robotics OIE751 : Unit 3	Mr.J.Prabhakaran Assistant Professor(ADHOC) Government College of Engineering, Sengipatti <i>jpkn006@gmail.com</i> 9500334050	<a href="https://youtu.be/t2CVshfgOVU">https://youtu.be/t2CVshfgOVU</a>	
4		UNIT IV Robot Kinematics and Robot Programming	Robotics OIE751 : Unit 4	Mr.J.Prabhakaran Assistant Professor(ADHOC) Government College of Engineering, Sengipatti <i>jpkn006@gmail.com</i> 9500334050	<a href="https://youtu.be/jjvN0kCR2-0">https://youtu.be/jjvN0kCR2-0</a>	
5		UNIT V Implementation and Robot Economics	Robotics OIE751 : Unit 5	Mr.J.Prabhakaran Assistant Professor(ADHOC) Government College of Engineering, Sengipatti <i>jpkn006@gmail.com</i> 9500334050	<a href="https://youtu.be/Oxh-elcT1yA">https://youtu.be/Oxh-elcT1yA</a>	

## 15. ME8071 Refrigeration and Air conditioning






Sl. No	Subject Code and Name	e-Lecture Unit	Title of video lecture	Faculty Name, Designation, e-mail ID and mobile number	Video link (Google Drive/You Tube)	QR code
1	ME8071 Refrigeration and Air conditioning	Unit I Introduction	Refrigeration & Air Conditioning basic Fundamentals of R & AC I & II laws Reversed Carnot cycle COP	Prof. M. Sebakarthy Assistant Professor Government College of Engineering, Bodinayakanur <i>karthiseb@gmail.com</i> 9629374060	<a href="https://youtu.be/ZuUI921LcvA">https://youtu.be/ZuUI921LcvA</a>	
2			Ideal refrigeration cycle Basic components Vapour compression refrigeration cycle T-s diagram COP calculation		<a href="https://youtu.be/Xm_0a1dLI1A">https://youtu.be/Xm_0a1dLI1A</a>	
3		Unit II Vapour Compression Refrigeration System	Vapour Compression refrigeration system, Components of Vapour compression refrigeration system, Compressor, Condenser, Expansion devices and Evaporator	Mr.M. Balamurugan Assistant Professor Government College of Engineering, Bodinayakanur <i>balamelngalam@gmail.com</i> 95009 30059	<a href="https://www.youtube.com/watch?v=yvFtigso2Fo">https://www.youtube.com/watch?v=yvFtigso2Fo</a>	
4		Unit III Other Refrigeration Systems	Other Refrigeration systems, Vapour Absorption and Adsorption systems, Steam Jet refrigeration, Ejector refrigeration, Thermo Electric refrigeration, Vortex and Pulse jet refrigeration systems	Prof. M. Balamurugan Assistant Professor Government College of Engineering Bodinayakanur <i>balamelngalam@gmail.com</i> 9500930059	<a href="https://www.youtube.com/watch?v=oM3mivx1tOc">https://www.youtube.com/watch?v=oM3mivx1tOc</a>	

5		Unit IV Psychrometric Properties and Processes	Psychrometric properties, Dalton law, DBT, WBT, DPT, Specific humidity, RH, Degree of saturation, Thermodynamic WBT, Psychrometric chart, Different processes, Mixing of air stream	Prof. M. Balamurugan Assistant Professor Government College of Engineering Bodinayakanur <i>balamelmangalam@gmail.com</i> 9500930059	<a href="https://www.youtube.com/watch?v=cPPaJPStfh4">https://www.youtube.com/watch?v=cPPaJPStfh4</a>	
6		Unit V Air Conditioning Systems and Load Estimation	Air conditioning system, Load calculation, Human comfort, Effective temperature, Summer and Winter air conditioning systems, Load calculation	Prof. M. Sebakarthy Assistant Professor Government College of Engineering Bodinayakanur <i>karthiseb@gmail.com</i> 9629374060	<a href="https://www.youtube.com/watch?v=gUWcjGEX6cA&amp;feature=youtu.be">https://www.youtube.com/watch?v=gUWcjGEX6cA&amp;feature=youtu.be</a>	

## 16. ME8073 Unconventional machining process






Sl. No	Subject Code and Name	e-Lecture Unit	Title of video lecture	Faculty Name, Designation, e-mail ID and mobile number	Video link (Google Drive/You Tube)	QR code
1	ME8073 Unconventional machining process	Unit I Introduction and Mechanical Energy Based Processes	Introduction, need, classification, merits, demerits, AJM, WJM, USM	Dr. A. Athijeyamani Associate Professor Government College of Engineering, Bodinayakkanur <i>athimania@gmail.com</i> 9865906160	<a href="https://youtu.be/LotDJZt9Nz8">https://youtu.be/LotDJZt9Nz8</a>	
2		Unit II Thermal And Electrical Energy Based Processes	Electrical Discharge Machining (EDM), Wirecut EDM, Plasma Arc machining and Electron beam machining	Dr. A. Athijeyamani Associate Professor Government College of Engineering, Bodinayakkanur <i>athimania@gmail.com</i> 9865906160	<a href="https://youtu.be/2g_3j0xy3IE">https://youtu.be/2g_3j0xy3IE</a>	
3		Unit III Chemical And Electro-Chemical Energy Based Processes	Chemical Energy methods, Etchants, Masking, ECM, ECG, Electro Chemical Honing, processes, Problems, MRR	Prof. P. Sueshkumar Assistant Professor Government College of Engineering, Bodinayakkanur <i>ppskumar200@gmail.com</i> 6369009050	<a href="https://youtu.be/1R7yyFRjnaE">https://youtu.be/1R7yyFRjnaE</a>	
4		Unit IV Advanced Nano Finishing Processes	Advanced Nano finishing processes, Abrasive flow machining, Chemo - Mechanical polishing, Magnetic Abrasive finishing, Abrasive flow finishing, working, Applications, Limitations	Prof. R. Jayashree Assistant Professor Government College of Engineering, Bodinayakkanur <i>jayashree.rengaraj@gmail.com</i> 9500512852	<a href="https://youtu.be/mmPoehhG4Ec">https://youtu.be/mmPoehhG4Ec</a>	
5		Unit V Recent Trends In Non-Traditional Machining Processes	EDM, Wire cut EDM, Plasma Arc machining, Electron beam machining	Dr. A. Athijeyamani, Associate Professor Government College of Engineering, Bodinayakkanur , <i>athimania@gmail.com</i> 9865906160	<a href="https://www.youtube.com/watch?v=7lPEyu_TQ6Y&amp;feature=youtu.be">https://www.youtube.com/watch?v=7lPEyu_TQ6Y&amp;feature=youtu.be</a>	

## 17. GE8077 Total Quality Management






Sl. No	Subject Code and Name	e-Lecture Unit	Title of video lecture	Faculty Name, Designation, e-mail ID and mobile number	Video link (Google Drive/You Tube)	QR code
1	GE8077 Total Quality Management	Unit I Introduction	TQM Introduction	Dr. A Krishnaveni Professor Government College of Engineering, Tirunelveli krishnaveni@gcetly.ac.in 98941 82237	<a href="https://drive.google.com/file/d/1jrp463maL7a0dN914fT8m5CW4f3WF2fL/view?usp=sharing">https://drive.google.com/file/d/1jrp463maL7a0dN914fT8m5CW4f3WF2fL/view?usp=sharing</a>	
2			TQM_Unit I_Module 1: Introduction - Need for Quality - Evolution of Quality - Definitions of Quality - Dimensions of Product and Service Quality		<a href="https://drive.google.com/file/d/1KET_ZodGRXlrnCurIHqkRsZZ0j9RFX3R/view?usp=sharing">https://drive.google.com/file/d/1KET_ZodGRXlrnCurIHqkRsZZ0j9RFX3R/view?usp=sharing</a>	
3			TQM_Unit I_Module 2: Basic concepts of TQM - TQM Framework		<a href="https://drive.google.com/file/d/18JUC431Urina3-NqyIMgthaMNVvRgrj7/view?usp=sharing">https://drive.google.com/file/d/18JUC431Urina3-NqyIMgthaMNVvRgrj7/view?usp=sharing</a>	
4			TQM_Unit I_Module 3: Contributions of Deming, Juran and Crosby - Barriers to TQM		<a href="https://drive.google.com/file/d/1BJ8PaVR7qpJTNOAL1dlSKKaZFx9lRdtl/view?usp=sharing">https://drive.google.com/file/d/1BJ8PaVR7qpJTNOAL1dlSKKaZFx9lRdtl/view?usp=sharing</a>	
5			TQM_Unit I_Module 4: Customer Focus - Customer Orientation, Customer Satisfaction, Customer Complaints, Customer Retention		<a href="https://drive.google.com/file/d/1MkEod1pY-H5bgiNK7FYafNG7Z48bC59R/view?usp=sharing">https://drive.google.com/file/d/1MkEod1pY-H5bgiNK7FYafNG7Z48bC59R/view?usp=sharing</a>	









6	Unit II TQM Principles	Unit II_Module 1: Leadership - Quality Statements, Strategic quality planning, Quality Councils	Dr. A Krishnaveni Professor Government College of Engineering, Tirunelveli <i>krishnaveni@gcetly.ac.in</i> 98941 82237	<a href="https://drive.google.com/file/d/10eejztfydxQLLRqie0OrrprUzA2Ib2jG/view?usp=sharing">https://drive.google.com/file/d/10eejztfydxQLLRqie0OrrprUzA2Ib2jG/view?usp=sharing</a>	
7		Unit II_Module 2: Employee involvement		<a href="https://drive.google.com/file/d/1re3dhPsirO6nrT5xS0V6vYtiPi1wuntS/view?usp=sharing">https://drive.google.com/file/d/1re3dhPsirO6nrT5xS0V6vYtiPi1wuntS/view?usp=sharing</a>	
8		Unit II_Module 3: Continuous process improvement - PDCA cycle, 5S, Kaizen		<a href="https://drive.google.com/file/d/1941qVKTqxZcmTm_6DwLS-RdMeQy9KKTW/view?usp=sharing">https://drive.google.com/file/d/1941qVKTqxZcmTm_6DwLS-RdMeQy9KKTW/view?usp=sharing</a>	
9		Unit II_Module 4: Supplier partnership - Partnering, Supplier selection, Supplier Rating		<a href="https://drive.google.com/file/d/1p6DwQd1mSMIe7KS7p1Fz5duea8RZwQS5/view?usp=sharing">https://drive.google.com/file/d/1p6DwQd1mSMIe7KS7p1Fz5duea8RZwQS5/view?usp=sharing</a>	
10	Unit III TQM Tools and Techniques I	TQM_Unit III_Module 1: The seven traditional tools of quality	Dr. A Krishnaveni Professor Government College of Engineering, Tirunelveli <i>krishnaveni@gcetly.ac.in</i> 98941 82237	<a href="https://drive.google.com/file/d/1ZH69l_TOI1TUI-TDCzBeDCTs2sUzdQ5C/view?usp=sharing">https://drive.google.com/file/d/1ZH69l_TOI1TUI-TDCzBeDCTs2sUzdQ5C/view?usp=sharing</a>	
11		TQM_Unit III_Module 2: New management tools		<a href="https://drive.google.com/file/d/1ijlxz1KLjp7g8Pff6HHF6f9rf9fZ2Dx/view?usp=sharing">https://drive.google.com/file/d/1ijlxz1KLjp7g8Pff6HHF6f9rf9fZ2Dx/view?usp=sharing</a>	
12		TQM_Unit III_Module 3: Six sigma: Concepts, Methodology, applications to manufacturing, service sector including IT		<a href="https://drive.google.com/file/d/1N_JtnE9rURsMYhmFoaXdd9motXFwNiW/view?usp=sharing">https://drive.google.com/file/d/1N_JtnE9rURsMYhmFoaXdd9motXFwNiW/view?usp=sharing</a>	







13			TQM_Unit III_Module 4: Bench marking - Reason to bench mark, Bench marking process - FMEA - Stages, Types		<a href="https://drive.google.com/file/d/1iHJibor2MchYpfe_MTnZ2PZjuRgi0EVZ/view?usp=sharing">https://drive.google.com/file/d/1iHJibor2MchYpfe_MTnZ2PZjuRgi0EVZ/view?usp=sharing</a>	
14	Unit IV Tqm Tools and Techniques II		TQM_Unit IV : Quality Circles - Cost of Quality	Dr. A Krishnaveni Professor Government College of Engineering, Tirunelveli <i>krishnaveni@gcetly.ac.in</i> 98941 82237	<a href="https://drive.google.com/file/d/1YNyncgpIzPe8yhB9YRRrePY5PgWlQVvYQP/view?usp=sharing">https://drive.google.com/file/d/1YNyncgpIzPe8yhB9YRRrePY5PgWlQVvYQP/view?usp=sharing</a>	
15			TQM_Unit IV : Taguchi quality loss function		<a href="https://drive.google.com/file/d/13u3Xfj_CGAKJD8Q5WzFsYg7OEhYGFLXj/view?usp=sharing">https://drive.google.com/file/d/13u3Xfj_CGAKJD8Q5WzFsYg7OEhYGFLXj/view?usp=sharing</a>	
16	Unit V Quality Management System		TQM_Unit V_ Module 1: QMS Introduction— Benefits of ISO Registration—ISO 9000 Series of Standards—Sector-Specific Standards— AS 9100, TS16949 and TL 9000-- ISO 9001 Requirements— Implementation— Documentation— Internal Audits— Registration	Dr. A Krishnaveni Professor Government College of Engineering, Tirunelveli <i>krishnaveni@gcetly.ac.in</i> 98941 82237	<a href="https://drive.google.com/file/d/1HZjpXUvul5wqB3SeRI2tAZUsAgxoXI4l/view?usp=sharing">https://drive.google.com/file/d/1HZjpXUvul5wqB3SeRI2tAZUsAgxoXI4l/view?usp=sharing</a>	
17			TQM_Unit V_ Module 2: EMS Introduction—ISO 14000 Series Standards— Concepts of ISO 14001— Requirements of ISO 14001— Benefits of EMS		<a href="https://drive.google.com/file/d/1K8Q5piKgAxNNkxG0wVODTv7C883lDHPq/view?usp=sharing">https://drive.google.com/file/d/1K8Q5piKgAxNNkxG0wVODTv7C883lDHPq/view?usp=sharing</a>	

## 18. MF8071 Additive Manufacturing








Sl. No	Subject Code and Name	e-Lecture Unit	Title of video lecture	Faculty Name, Designation, e-mail ID and mobile number	Video link (Google Drive/You Tube)	QR code
1	MF8071 Additive Manufacturing	Unit 1 Introduction	Introduction to Additive Manufacturing	Dr.V.Subravel Assistant Professor Government College of Engineering Thanjavur <i>subra.vetri@gmail.com</i> 9940062272	<a href="https://drive.google.com/file/d/17bR9Ni33Pn5KEsefwY0YJRAESn3GNK3Q/view?usp=drivesdk">https://drive.google.com/file/d/17bR9Ni33Pn5KEsefwY0YJRAESn3GNK3Q/view?usp=drivesdk</a>	
2		Unit II Design For Additive Manufacturing	Design for Additive Manufacturing	Dr.V.Subravel Assistant Professor Government College of Engineering, Thanjavur <i>subra.vetri@gmail.com</i> 9940062272	<a href="https://drive.google.com/file/d/1DbgU5PgyulZqCAA_olUYD1RlyPgB0Hda/view?usp=drivesdk">https://drive.google.com/file/d/1DbgU5PgyulZqCAA_olUYD1RlyPgB0Hda/view?usp=drivesdk</a>	
3		Unit III Photopolymers and Powder Bed Fusion Processes	STA and SLM	Dr.V.Subravel Assistant Professor Government College of Engineering, Sengipatti <i>subra.vetri@gmail.com</i> 9940062272	<a href="https://drive.google.com/file/d/1FKjWJxHDMSEzcuPpm0Qi7rFFQ0ScpAAH/view?usp=drivesdk">https://drive.google.com/file/d/1FKjWJxHDMSEzcuPpm0Qi7rFFQ0ScpAAH/view?usp=drivesdk</a>	
4		Unit IV Extrusion Based and Sheet Lamination Processes	Extrusion Based and Sheet Lamination Processes	Mr. K. Senthil Kumar Assistant Professor(ADHOC) Government College of Engineering, Sengipatti <i>senthil30may@gmail.com</i> 8344518235	<a href="https://youtu.be/byBhiaOXXI8">https://youtu.be/byBhiaOXXI8</a>	
5		Unit V Printing Processes And Beam Deposition Processes	Additive Manufacturing	Mr.J.Prabhakaran Assistant Professor(ADHOC) Government College of Engineering, Sengipatti <i>jpkn00@gmail.com</i> 9500334050	<a href="https://youtu.be/y-eJsEKrYpU">https://youtu.be/y-eJsEKrYpU</a>	









### 19. ME8095 Design of Jigs, Fixtures and Press Tools

Sl. No	Subject Code and Name	e-Lecture Unit	Title of video lecture	Faculty Name, Designation, e-mail ID and mobile number	Video link (Google Drive/You Tube)	QR code
1	ME8095 Design of Jigs, Fixtures and Press Tools	Unit 1 Locating and Clamping Principles	Introduction	Mr.V.Gurukarthikeyan Assistant Professor Government College of Engineering Thanjavur gurumech37@gmail.com 8122077083	<a href="https://youtu.be/Vgze9xSA4hc">https://youtu.be/Vgze9xSA4hc</a>	
2			Types of Locators		<a href="https://youtu.be/Z8MIAIkbuA0">https://youtu.be/Z8MIAIkbuA0</a>	
3			Types of Clamps		<a href="https://youtu.be/ww9GBXqjC5g">https://youtu.be/ww9GBXqjC5g</a>	
4			Drill bushes		<a href="https://youtu.be/zpH2REAbDBY">https://youtu.be/zpH2REAbDBY</a>	
5		Unit II Jigs And Fixtures	Design of fixtures	Mr.V.Gurukarthikeyan Assistant Professor Government College of Engineering, Thanjavur gurumech73@gmail.com 8122077083	<a href="https://youtu.be/4TdirRpOKQA">https://youtu.be/4TdirRpOKQA</a>	
6			Machine fixtures		<a href="https://youtu.be/a8TQDWcUT8k">https://youtu.be/a8TQDWcUT8k</a>	
7				Press Tools		<a href="https://youtu.be/RZp7obv0-T4">https://youtu.be/RZp7obv0-T4</a>

8		Unit III Press Working Terminologies and Elements of Cutting Dies	Press tools 2	Mr.V.Gurukarthikeyan Assistant Professor Government College of Engineering, Sengipatti <i>gurumech73@gmail.com</i> 8122077083	<a href="https://youtu.be/Yig9jgfBN5E">https://youtu.be/Yig9jgfBN5E</a>	
9			Press tools 3		<a href="https://youtu.be/BK7ktnqZkcM">https://youtu.be/BK7ktnqZkcM</a>	
10			Unit IV Bending and Drawing Dies		Bending - 1	Mr.V. Gurukarthikeyan Assistant Professor Government College of Engineering, Sengipatti <i>gurumech73@gmail.com</i> 8122077083
11		Bending - 2		<a href="https://youtu.be/uDDkRLDemfE">https://youtu.be/uDDkRLDemfE</a>		
12		Drawing - 1		<a href="https://youtu.be/xQudQ7Sc_M0">https://youtu.be/xQudQ7Sc_M0</a>		
13		Drawing - 2		<a href="https://youtu.be/6jaHpKy4wtw">https://youtu.be/6jaHpKy4wtw</a>		
14		Unit V Forming Techniques and Evaluation		Forming Technology - 1	Mr.V.Gurukarthikeyan Assistant Professor Government College of Engineering, Sengipatti <i>gurumech73@gmail.com</i> 8122077083	
15			Forming Analysis - 2	<a href="https://youtu.be/jky5c9QtnVI">https://youtu.be/jky5c9QtnVI</a>		


## 20. ME8097 Non-Destructive Testing and Evaluation

Sl. No	Subject Code and Name	e-Lecture Unit	Title of video lecture	Faculty Name, Designation, e-mail ID and mobile number	Video link (Google Drive/You Tube)	QR code
1	ME8097 Non-Destructive Testing and Evaluation	Unit I Overview of NDT	Overview of NDT	Dr.G.Padmanaban Associate Professor Thanthai Periyar Government Institute of Technology, Vellore <i>gknaban.pg@gmail.com</i> 9443956536	<a href="https://youtu.be/0WfmRb4gwsM">https://youtu.be/0WfmRb4gwsM</a>	
2			Applications-Merits and Demerits of NDT		<a href="https://youtu.be/HpfApJOUFKY">https://youtu.be/HpfApJOUFKY</a>	
3			Various physical characteristics of Materials and their applications in NDT- Visual Examination		<a href="https://youtu.be/CQR-2zR7rHI">https://youtu.be/CQR-2zR7rHI</a>	
4			Visual Examination (aided)		<a href="https://youtu.be/FHHM3cXE76k">https://youtu.be/FHHM3cXE76k</a>	
5		Unit II Surface NDE methods	Principle of Liquid Penetrant Test- important steps	Dr.G.Padmanaban Associate Professor Thanthai Periyar Government Institute of Technology, Vellore <i>gknaban.pg@gmail.com</i> 9443956536	<a href="https://youtu.be/lef075IqIiU">https://youtu.be/lef075IqIiU</a>	
6			Characteristics-Types of Penetrants and Developers		<a href="https://youtu.be/-9K3YH5S-k">https://youtu.be/-9K3YH5S-k</a>	
7			Principle of Magnetic particle Inspection Test- Steps involved		<a href="https://youtu.be/oWcG8-7RQw0">https://youtu.be/oWcG8-7RQw0</a>	

8			Application of Magnetic media- Demagnetization- Residual Magnetism- Advantages and Limitations		<a href="https://youtu.be/vttf2GRuo0o">https://youtu.be/vttf2GRuo0o</a>	
9		Unit III Thermography and Eddy Current Testing (ET)	Principle of Thermography	Dr.G.Padmanaban Associate Professor Thanthai Periyar Government Institute of Technology, Vellore <i>gknaban.pg@gmail.com</i> 9443956536	<a href="https://youtu.be/izTSPB6DxJ4">https://youtu.be/izTSPB6DxJ4</a>	
10	Types of Thermography and its advantages and Limitations		<a href="https://youtu.be/x0IKjOrJcPE">https://youtu.be/x0IKjOrJcPE</a>			
11	Principle of Eddy Current Testing		<a href="https://youtu.be/bMl0lvRisGU">https://youtu.be/bMl0lvRisGU</a>			
12	Types of probes and Evaluation of result		<a href="https://youtu.be/oVo0k1nPtWU">https://youtu.be/oVo0k1nPtWU</a>			
13	Applications, advantages and Limitations of ECT		<a href="https://youtu.be/VjQlSIH176k">https://youtu.be/VjQlSIH176k</a>			
14	Unit IV Ultrasonic Testing and Acoustic Emission		Ultrasonic testing and Principle		<a href="https://drive.google.com/file/d/1tVd89aBBKpFBz_IPzHK0nEOFcstmydac/view?usp=sharing">https://drive.google.com/file/d/1tVd89aBBKpFBz_IPzHK0nEOFcstmydac/view?usp=sharing</a>	
15		Transmission and pulse-echo method, straight beam and angle beam ,	<a href="https://drive.google.com/file/d/110wmT4_kuVL0pQ7BhKS6qZiceNmb4zMh/view?usp=sharing">https://drive.google.com/file/d/110wmT4_kuVL0pQ7BhKS6qZiceNmb4zMh/view?usp=sharing</a>			

16			Transducer, Data representation, A-Scan, B-scan, C-scan. Time of Flight Diffraction		<a href="https://drive.google.com/file/d/1Xlk8nAI4LvoULKuOplLEIzuKLGvrieY/view?usp=sharing">https://drive.google.com/file/d/1Xlk8nAI4LvoULKuOplLEIzuKLGvrieY/view?usp=sharing</a>	
17			Acoustic Emission Principle and History		<a href="https://drive.google.com/file/d/1NaoWTXTB3EiWwcCRmZGvoz7c4Y9uvoPd/view?usp=sharing">https://drive.google.com/file/d/1NaoWTXTB3EiWwcCRmZGvoz7c4Y9uvoPd/view?usp=sharing</a>	
18			Acoustic Emission Testing Process		<a href="https://drive.google.com/file/d/1NFP8rxabHFoc0_1RpEYw6L-oDb1dNIF6/view?usp=sharing">https://drive.google.com/file/d/1NFP8rxabHFoc0_1RpEYw6L-oDb1dNIF6/view?usp=sharing</a>	
19			Acoustic Emission parameters	J.Ranganathan Assistant Professor Thanthai Periyar Government Institute of Technology, Vellore <i>ranganathan446@gmail.com</i> 9600884902	<a href="https://drive.google.com/file/d/1NMe_tsqtdYO9Ki6FKw3QBroKOR_er7Xo/view?usp=sharing">https://drive.google.com/file/d/1NMe_tsqtdYO9Ki6FKw3QBroKOR_er7Xo/view?usp=sharing</a>	
20		Applications of Acoustic Emission	<a href="https://drive.google.com/file/d/1N_vEz_7ldwWQjoUWmaMATBtaoZfFFiu4/view?usp=sharing">https://drive.google.com/file/d/1N_vEz_7ldwWQjoUWmaMATBtaoZfFFiu4/view?usp=sharing</a>			
21					<a href="https://drive.google.com/drive/folders/14qSE-uQdE-kzSglau-TR_z0D_KDErxg9?usp=sharing">https://drive.google.com/drive/folders/14qSE-uQdE-kzSglau-TR_z0D_KDErxg9?usp=sharing</a>	
22		Unit V Radiography (RT)	Radiography	E.Elavenil Assistant Professor Thanthai Periyar Government Institute of Technology, Vellore <i>e.elavenil75@gmail.com</i> 9952522562	<a href="https://youtu.be/slMmYjVNWyE">https://youtu.be/slMmYjVNWyE</a>	
23					<a href="https://youtu.be/SFabz2M7Ypg">https://youtu.be/SFabz2M7Ypg</a>	



24				P.Rajiv Assistant Professor Thanthai Periyar Government Institute of Technology, Vellore <i>ssmp.rajiv@gmail.com</i> 9751081674	<a href="https://youtu.be/apoqzgRkKt0">https://youtu.be/apoqzgRkKt0</a>	
25					<a href="https://youtu.be/rbHbf3AQrhA">https://youtu.be/rbHbf3AQrhA</a>	