



**SETHU INSTITUTE OF TECHNOLOGY**  
 (An Autonomous Institution| Accredited with 'A' Grade by NAAC)  
 PULLOOR, KARIAPATTI – 626 115.



**DEPARTMENT OF MECHANICAL ENGINEERING**

**Activity Supports Employability/Entrepreneurship/Skill Development**

**Subject Code : 19PCD 510**

**Subject Name : Metrology and Nondestructive Testing**

**Activity Supports: The Video Lectures from NPTEL, would help the students to understand the Non Destructive Testing concept, & to support them in Employability.**

<b>Goal</b>	To Create and implement an effective Teaching learning processes in a technology driven environment.	
<b>Technique used</b>	In Conventional teaching, the students are not able to learn beyond the syllabus concept. Therefore the NPTEL videos are more helpful to the students, to learn the concept of Magnetic Particle Testing, Eddy Current Testing & Acoustic Emission Testing	
<b>Topic</b>	Magnetic Particle Testing, Eddy Current Testing & Acoustic Emission Testing	
<b>Type of Activity</b>	Group Learning	
<b>URL of the videos</b>	<a href="https://nptel.ac.in/courses/113/106/113106070/">https://nptel.ac.in/courses/113/106/113106070/</a>	
<b>In Class Activity</b>	<b>What Course Instructor Does</b>	. Play the visualization
	<b>What student Does</b>	Listen, Observe the Topics
<b>Description</b>	The Learning of contents beyond syllabus such as - "Magnetic Particle Testing, Eddy Current Testing & Acoustic Emission" would support them in Employability.	

**SCREEN SHOTS:**

<p><b>Modules / Lectures</b></p> <p>Week 1</p> <p>Week 2</p> <ul style="list-style-type: none"> <li>Magnetic particle testing - 1</li> <li>Magnetic particle testing - 2</li> <li>Magnetic particle testing - 3</li> <li>Magnetic particle testing - 4</li> <li>Magnetic particle testing - 5</li> </ul> <p>Week 3</p> <p>Week 4</p> <p>Week 5</p> <p>Week 6</p>	<p>Watch on YouTube   Video   Assignments   Download Videos   Transcripts   Books</p>
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<p><b>Modules / Lectures</b></p> <p>Week 1</p> <p>Week 2</p> <p>Week 3</p> <ul style="list-style-type: none"> <li>Eddy current testing - 1</li> <li>Eddy current testing - 2</li> <li>Eddy current testing - 3</li> <li>Eddy current testing - 4</li> <li>Eddy current testing - 5</li> </ul> <p>Week 4</p> <p>Week 5</p> <p>Week 6</p>	<p>Watch on YouTube   Video   Assignments   Download Videos   Transcripts   Books</p>
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<p><b>Modules / Lectures</b></p> <p>Week 1</p> <p>Week 2</p> <p>Week 3</p> <p>Week 4</p> <p>Week 5</p> <p>Week 6</p> <ul style="list-style-type: none"> <li>Acoustic Emission Testing - 1</li> <li>Acoustic Emission Testing - 2</li> <li>Acoustic Emission Testing - 3</li> <li>Acoustic Emission Testing - 4</li> <li>Acoustic Emission Testing - 5</li> </ul>	<p>Watch on YouTube   Video   Assignments   Download Videos   Transcripts   Books</p>
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**Outcome** Students were easily understood the concept with the help of NPTEL video lectures from IIT's will make them more intellectual

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