

**MECHANICAL ENGINEERING DEPARTMENT**

**B.E. 3<sup>rd</sup> SEMESTER**

**SUBJECT: MATERIAL SCIENCE & METALLURGY**

**SUBJECT CODE: 3131904**

Sr. NO	Chapter/Topic	Video Link	Source By
1	Introduction to MSM	<a href="https://youtu.be/KMcsjCXfLQw">https://youtu.be/KMcsjCXfLQw</a>	NPTEL
2	Crystal geometry & crystal imperfection	<a href="https://youtu.be/KilQCJNucUw">https://youtu.be/KilQCJNucUw</a>	NPTEL
3	Crystal geometry & crystal imperfection	<a href="https://youtu.be/ZmfxnA4H2MQ">https://youtu.be/ZmfxnA4H2MQ</a>	NPTEL
4	Crystal geometry & crystal imperfection	<a href="https://youtu.be/J8Bo9BHxesE">https://youtu.be/J8Bo9BHxesE</a>	NPTEL
5	Crystal geometry & crystal imperfection	<a href="https://youtu.be/ecn8bPDV6Sc">https://youtu.be/ecn8bPDV6Sc</a>	NPTEL
6	Crystal geometry & crystal imperfection	<a href="https://youtu.be/MvRZ6DynZT0">https://youtu.be/MvRZ6DynZT0</a>	NPTEL
7	Metallic Materials	<a href="https://youtu.be/IPjM4UGumT4">https://youtu.be/IPjM4UGumT4</a>	NPTEL
8	Metallic Materials	<a href="https://youtu.be/ag7hD9Q-Dsc">https://youtu.be/ag7hD9Q-Dsc</a>	NPTEL
9	Solidification and theory of Alloy	<a href="https://youtu.be/8pGj_ETreqM">https://youtu.be/8pGj_ETreqM</a>	NPTEL
10	Solidification and theory of Alloy	<a href="https://youtu.be/erOKm7wbkJE">https://youtu.be/erOKm7wbkJE</a>	NPTEL
11	Phase and Phase Equilibrium	<a href="https://youtu.be/BJrTZ07bHm4">https://youtu.be/BJrTZ07bHm4</a>	NPTEL
12	Phase and Phase Equilibrium	<a href="https://youtu.be/lzhv87GIL4U">https://youtu.be/lzhv87GIL4U</a>	NPTEL
13	Phase and Phase Equilibrium	<a href="https://youtu.be/5vaYfd0fekl">https://youtu.be/5vaYfd0fekl</a>	NPTEL
14	Allotropy of Iron	<a href="https://youtu.be/wVZkdWEZv80">https://youtu.be/wVZkdWEZv80</a>	NPTEL
15	Heat Treatment of steel	<a href="https://youtu.be/748_ME0p0Aq">https://youtu.be/748_ME0p0Aq</a>	NPTEL
16	Powder metallurgy	<a href="https://youtu.be/uRVaLUQUmA8">https://youtu.be/uRVaLUQUmA8</a>	NPTEL
17	Non-Destructive Testing	<a href="https://youtu.be/DK1dltnl8mM">https://youtu.be/DK1dltnl8mM</a>	NPTEL
18	Non-Destructive Testing	<a href="https://youtu.be/r4Xytb-KEao">https://youtu.be/r4Xytb-KEao</a>	NPTEL