

# PHYSICS THEORY NEPTEL LINK SEM-I

S.No.	Name Of Topic	NPTEL Link
1	Introduction of Interference	<a href="http://nptel.ac.in/courses/122107035/16">http://nptel.ac.in/courses/122107035/16</a> <a href="http://nptel.ac.in/courses/122107035/11">http://nptel.ac.in/courses/122107035/11</a>
2	Fresnel's Bi Prism	<a href="http://nptel.ac.in/courses/122107035/14">http://nptel.ac.in/courses/122107035/14</a>
3	Wedge Shape Film	<a href="http://nptel.ac.in/courses/122107035/12">http://nptel.ac.in/courses/122107035/12</a> <a href="http://nptel.ac.in/courses/122107035/15">http://nptel.ac.in/courses/122107035/15</a>
4	Newton's ring	<a href="http://nptel.ac.in/courses/122107035/12">http://nptel.ac.in/courses/122107035/12</a> <a href="http://nptel.ac.in/courses/122107035/15">http://nptel.ac.in/courses/122107035/15</a>
5	Michelson's Interferometer	<a href="http://nptel.ac.in/courses/122107035/12">http://nptel.ac.in/courses/122107035/12</a> <a href="http://nptel.ac.in/courses/122107035/15">http://nptel.ac.in/courses/122107035/15</a>
6	Introduction of Diffraction	<a href="http://nptel.ac.in/courses/122107035/17">http://nptel.ac.in/courses/122107035/17</a>
7	Fraunhofer diffraction by a single slit	<a href="http://nptel.ac.in/courses/122107035/17">http://nptel.ac.in/courses/122107035/17</a>
8	Fraunhofer diffraction by n slits: diffraction grating	<a href="http://nptel.ac.in/courses/122107035/18">http://nptel.ac.in/courses/122107035/18</a>
9	Resolving power and dispersive power	<a href="http://nptel.ac.in/courses/122107035/18">http://nptel.ac.in/courses/122107035/18</a>
10	Nicol Prism	<a href="http://nptel.ac.in/courses/122107035/4">http://nptel.ac.in/courses/122107035/4</a> <a href="http://nptel.ac.in/courses/122107035/1">http://nptel.ac.in/courses/122107035/1</a> <a href="http://nptel.ac.in/courses/122107035/3">http://nptel.ac.in/courses/122107035/3</a>
11	Production of Plane, Circularly and Elliptically Polarised Light	<a href="http://nptel.ac.in/courses/122107035/4">http://nptel.ac.in/courses/122107035/4</a>
12	Specific Rotation ,Laurent's Half-Shadow Polarimeter	<a href="http://nptel.ac.in/courses/122107035/5">http://nptel.ac.in/courses/122107035/5</a>
13	Absorption of Radiation Spontaneous Emission Stimulated (induced) Emission	<a href="http://nptel.ac.in/courses/117101054/9">http://nptel.ac.in/courses/117101054/9</a> <a href="http://nptel.ac.in/courses/117101054/11">http://nptel.ac.in/courses/117101054/11</a>

14	Characteristic of laser light Helium-Neon Laser: gas Laser	<a href="http://nptel.ac.in/courses/117101054/11">http://nptel.ac.in/courses/117101054/11</a> <a href="http://nptel.ac.in/courses/117101054/12">http://nptel.ac.in/courses/117101054/12</a>
17	Semiconductor Laser	<a href="http://nptel.ac.in/courses/117101054/12">http://nptel.ac.in/courses/117101054/12</a>
18	Introduction of dielectric	<a href="http://nptel.ac.in/courses/113104005/53">http://nptel.ac.in/courses/113104005/53</a> <a href="http://nptel.ac.in/courses/113104005/52">http://nptel.ac.in/courses/113104005/52</a> ,
19	Energy Stored in dielectric	<a href="http://nptel.ac.in/courses/113104005/56">http://nptel.ac.in/courses/113104005/56</a>
20	Internal fields or local fields Classius – Mosotti relation	<a href="http://nptel.ac.in/courses/113104005/54,56">http://nptel.ac.in/courses/113104005/54,56</a>
21	Introduction of Fibre optics and its types	<a href="http://nptel.ac.in/courses/117101054/1">http://nptel.ac.in/courses/117101054/1</a> <a href="http://nptel.ac.in/courses/117101054/3">http://nptel.ac.in/courses/117101054/3</a>
22	Acceptance Angle Numerical Aperture	<a href="http://nptel.ac.in/courses/117101054/4">http://nptel.ac.in/courses/117101054/4</a> <a href="http://nptel.ac.in/courses/117101054/5,6">http://nptel.ac.in/courses/117101054/5,6</a>
23	Introduction, Frame of reference	<a href="http://nptel.ac.in/courses/115101011/1">http://nptel.ac.in/courses/115101011/1</a>
24	Michelson and Morley Experiment	<a href="http://nptel.ac.in/courses/115101011/2">http://nptel.ac.in/courses/115101011/2</a>
25	Lorentz Transformation	<a href="http://nptel.ac.in/courses/115101011/3">http://nptel.ac.in/courses/115101011/3</a> <a href="http://nptel.ac.in/courses/115101011/5">http://nptel.ac.in/courses/115101011/5</a>
26	Length contraction, Time dilation Addition of velocities	<a href="http://nptel.ac.in/courses/115101011/6">http://nptel.ac.in/courses/115101011/6</a>
27	Variation of mass with velocity	<a href="http://nptel.ac.in/courses/122107035/34">http://nptel.ac.in/courses/122107035/34</a>
28	Introduction of Superconductivity	<a href="http://nptel.ac.in/courses/115101012/1">http://nptel.ac.in/courses/115101012/1</a>
29	Cooper pairs, BCS theory: qualitative explanation, Application of superconductivity	<a href="http://nptel.ac.in/courses/113104005/88">http://nptel.ac.in/courses/113104005/88</a>
30	London equation	<a href="http://nptel.ac.in/courses/115101012/4">http://nptel.ac.in/courses/115101012/4</a>

