

**DEPARTMENT OF
PHYSICS (A,B and C
SECTION)**

**Online Resources for Physics Theory and Lab (18PHY22
and 18PHYL26) From 26.03.2020 to 20.05.2020**

Module	Date	Topics[1 Hr Each]	PPT	Video Links	E-Materials	Old QP & Link
	26/3/ 20	Lecture 1: Intro duction to Oscillati on and SHM	-	https://nptel.ac.in/ courses/122105023 /#watch https://www.youtu be.com/watch?v=jx stE6A_CYQ https://www.youtu be.com/watch?v=u M2HpLBVAkA	https://drive.google.com/dri ve/u/1/folders/18kBjf_mY1r Yol4SY-BFSJEiqO7fxJFgs	
	27/3/ 20	Lecture 2: Springs in Series and Parallel	-	https://nptel.ac.in/ courses/1221050 23/#watch	https://drive.google.com/dri ve/u/1/folders/18kBjf_mY1r Yol4SY-BFSJEiqO7fxJFgs	
	28/3/ 20	Lecture 3: Polar and comple x represe ntation of SHM	-	https://nptel.ac.in/ courses/122105023 /#watch https://www.youtu be.com/watch?v=d 0p7vDIgqjU https://www.youtu be.com/watch?v=cx -qHZwsLqs	https://drive.google.com/d rive/u/1/folders/18kBjf_m Y1rYol4SY- BFSJEiqO7fxJFgs	
	29/3/ 20	Lecture 4: Free Oscillati on and Dampe d Oscillati on	-	https://nptel.ac.in/ courses/122105023 /#watch https://www.youtu be.com/watch?v=o unpxxIUjPE	https://drive.google.com/dri ve/u/1/folders/18kBjf_mY1r Yol4SY-BFSJEiqO7fxJFgs	
	30/3/ 20	Lecture 5: Cases of Dampe	-	https://nptel.ac.in/ courses/122105023 /#watch https://www.youtu	https://drive.google.com/dri ve/u/1/folders/18kBjf_mY1r Yol4SY-BFSJEiqO7fxJFgs	

		d Oscillation		be.com/watch?v=99ZE2RGwqSM&t=25s	
	31/3/20	Lecture 6: Forced Oscillation	-	https://nptel.ac.in/courses/122105023/#watch https://www.youtube.com/watch?v=jewSVEBkl_s&t=172s	https://drive.google.com/drive/u/1/folders/18kBJf_mY1rYol4SY-BFSJEiqO7fxJFgs
	04-01-2020	Lecture 7	-	https://drive.google.com/drive/u/1/folders/18kBJf_mY1rYol4SY-BFSJEiqO7fxJFgs	https://drive.google.com/drive/u/1/folders/18kBJf_mY1rYol4SY-BFSJEiqO7fxJFgs
	04-02-2020	Lecture 8	-	https://drive.google.com/drive/u/1/folders/18kBJf_mY1rYol4SY-BFSJEiqO7fxJFgs	https://drive.google.com/drive/u/1/folders/18kBJf_mY1rYol4SY-BFSJEiqO7fxJFgs
	04-03-2020	Lecture 9	-		https://drive.google.com/drive/u/1/folders/18kBJf_mY1rYol4SY-BFSJEiqO7fxJFgs
	04-04-2020	Lecture 10	-	-	-
	04-05-2020	Lecture 1 & 2: Stress Strain, Poisson's ratio	-	https://www.youtube.com/watch?v=x-UiYHyAUaM	https://drive.google.com/drive/u/2/folders/1nRMNvpawXPPaEleiKLnYuAVr2FSuT5VV
	04-06-2020	Lecture 12: Relation between moduli	-	https://www.youtube.com/watch?v=x-UiYHyAUaM	https://drive.google.com/drive/u/2/folders/1nRMNvpawXPPaEleiKLnYuAVr2FSuT5VV
	04-07-2020	Lecture 3 : Relation between γ , η and σ	-		https://drive.google.com/drive/folders/1nRMNvpawXPPaEleiKLnYuAVr2FSuT5VV
	04-08-2020	Lecture 4: Relation between K , γ ,		https://www.youtube.com/watch?v=x-UiYHyAUaM	https://drive.google.com/drive/folders/1nRMNvpawXPPaEleiKLnYuAVr2FSuT5VV

		and σ			
	04-09-2020	Lecture 5 : Torsion Pendulum		https://www.youtube.com/watch?v=tuOIM3P7ygA	https://drive.google.com/drive/folders/1nRMNvpawXPPaEleiKLnYuAVr2FSuT5VV
	04-10-2020	Lecture 6: CLASSIFICATION OF ELASTIC MATERIALS, Stress & strain analysis		https://www.youtube.com/watch?v=nGtnpbPddtw	https://drive.google.com/drive/folders/1nRMNvpawXPPaEleiKLnYuAVr2FSuT5VV
	04-11-2020	Lecture 7: Factors Affecting Elasticity		https://www.youtube.com/watch?v=wLrfNkRTYjc	https://drive.google.com/drive/folders/1nRMNvpawXPPaEleiKLnYuAVr2FSuT5VV
	04-12-2020	Lecture 8: EXPRESSION FOR BENDING MOMENT		https://www.youtube.com/watch?v=PRYtw9EQhug&pbjreload=10	https://drive.google.com/drive/folders/1nRMNvpawXPPaEleiKLnYuAVr2FSuT5VV
	13/4/2020	Lecture 9: Depression of a single cantilever - loaded at its ends	-		https://drive.google.com/drive/folders/1nRMNvpawXPPaEleiKLnYuAVr2FSuT5VV
	14/4/2020	Lecture 10	-		https://drive.google.com/drive/folders/1nRMNvpawXPPaEleiKLnYuAVr2FSuT5VV

					aEleiKLnYuAVr2FSuT5VV	
18PHY 22	15/4/ 20	Lecture 2.10 of Module 2			https://drive.google.com/drive/folders/1nRMNvpawXPPaEleiKLnYuAVr2FSuT5VV	
	18.04. 2020	Lecture 3.1 of Module 3		https://www.youtube.com/watch?v=TQXuUpkAr6U	https://drive.google.com/drive/folders/1nRMNvpawXPPaEleiKLnYuAVr2FSuT5VV	https://classroom.google.com/u/2/w/NTYxMjE3ODAzNjRa/tc/NjKxNDQyOTAwODRa
	20.04. 2020	Lecture 3.2 of Module 3		https://www.youtube.com/watch?v=Mri--f_Sp4Y	https://drive.google.com/drive/folders/1nRMNvpawXPPaEleiKLnYuAVr2FSuT5VV	https://classroom.google.com/u/2/w/NTYxMjE3ODAzNjRa/tc/NjKxNDQyOTAwODRa
	21.04. 2020	Lecture 3.3 of Module 3		https://www.youtube.com/watch?v=Mri--f_Sp4Y	https://drive.google.com/drive/folders/1nRMNvpawXPPaEleiKLnYuAVr2FSuT5VV	
	22.04. 2020	Lecture 3.4 of Module 3		https://www.youtube.com/watch?v=yxITpsvcj8s	https://drive.google.com/drive/folders/1nRMNvpawXPPaEleiKLnYuAVr2FSuT5VV	https://drive.google.com/file/d/1kVkgzqeZgvt9wCkEJwMpPSgfogpBGuGJ/view
	23.04. 2020	Lecture 3.5 of Module 3		https://www.youtube.com/watch?v=VfKpqFKOccE	https://drive.google.com/drive/folders/1nRMNvpawXPPaEleiKLnYuAVr2FSuT5VV	https://drive.google.com/file/d/1kVkgzqeZgvt9wCkEJwMpPSgfogpBGuGJ/view
	24.04. 2020	Lecture 3.6 of Module 3		https://www.youtube.com/watch?v=gSeYksmwjZc	https://drive.google.com/drive/folders/1nRMNvpawXPPaEleiKLnYuAVr2FSuT5VV	
	25.04. 2020	Lecture 3.7 of Module 3		https://www.youtube.com/watch?v=lWVPJSoJDzA	https://drive.google.com/drive/folders/1nRMNvpawXPPaEleiKLnYuAVr2FSuT5VV	https://drive.google.com/file/d/1kVkgzqeZgvt9wCkEJwMpPSgfogpBGuGJ/view
	27.04. 2020	Lecture 3.8 of Module 3		https://www.youtube.com/watch?v=swrh0xjRXmc	https://drive.google.com/drive/folders/1nRMNvpawXPPaEleiKLnYuAVr2FSuT5VV	
	28.04. 2020	Lecture 3.9 of Module 3		https://www.youtube.com/watch?v=j1KlawXfy9c https://youtu.be/LhLp4XZOZuk	https://drive.google.com/drive/folders/1nRMNvpawXPPaEleiKLnYuAVr2FSuT5VV	

29.04.2020	Lecture 4.1 of Module 4	https://www.youtube.com/watch?v=8HfxVcK1RUU https://youtu.be/LhLp4XZOZuk	https://drive.google.com/drive/folders/1nRMNvpawXPPaEleiKLnYuAVr2FSuT5VV	https://classroom.google.com/u/2/w/NTYxMjE3ODAzNjRa/tc/NjKxNDQyOTAwODRa
30.04.2020.	Lecture 4.2 of Module 4	https://www.youtube.com/watch?v=LZgUkZUYHaA https://youtu.be/RabgOdvWpdg	https://drive.google.com/drive/folders/1nRMNvpawXPPaEleiKLnYuAVr2FSuT5VV	https://classroom.google.com/u/2/w/NTYxMjE3ODAzNjRa/tc/NjKxNDQyOTAwODRa
01.05.2020	Lecture 4.3 of Module 4	https://www.youtube.com/watch?v=AHNLML05MiM	https://drive.google.com/drive/folders/1nRMNvpawXPPaEleiKLnYuAVr2FSuT5VV	
2-5-20	Lecture 4.4 of Module 4	https://youtu.be/b5jhPyTIm2Y	https://drive.google.com/drive/folders/1nRMNvpawXPPaEleiKLnYuAVr2FSuT5VV	
4-5-20	Lecture 4.5 of Module 4	https://youtu.be/LhLp4XZOZuk	https://drive.google.com/drive/folders/1nRMNvpawXPPaEleiKLnYuAVr2FSuT5VV	https://classroom.google.com/u/2/w/NTYxMjE3ODAzNjRa/tc/NjKxNDQyOTAwODRa
5-5-20	Lecture 5.1 of Module 5	https://www.youtube.com/watch?v=QraBn9ng-H0 https://www.youtube.com/watch?v=XEWfw7CHST8 https://www.youtube.com/watch?v=sjUXpD0VpQ4	https://classroom.google.com/u/0/c/NTYxMjE3ODAzNjRa/m/OTk3NDIxNzY4NjRa/details	https://classroom.google.com/u/2/w/NTYxMjE3ODAzNjRa/tc/NjKxNDQyOTAwODRa
6-5-20	Lecture 5.2 of Module 5	https://www.youtube.com/watch?v=QraBn9ng-H0 https://www.youtube.com/watch?v=XEWfw7CHST8 https://www.youtube.com/watch?v=sjUXpD0VpQ4	https://classroom.google.com/u/0/c/NTYxMjE3ODAzNjRa/m/OTk3NDIxNzcwMTZa/details	
7-5-20	Lecture 5.3 of Module 5	https://www.youtube.com/watch?v=QraBn9ng-H0 https://www.youtube.com/watch?v=XEWfw7CHST8 https://www.youtube.com/watch?v=sjUXpD0VpQ4	https://classroom.google.com/u/0/c/NTYxMjE3ODAzNjRa/m/OTk3NDIxNzcwNzNa/details	

	8-5-20	Lecture 5.4 of Module 5	https://www.youtube.com/watch?v=OZchTd4fxo0&t=13s	https://classroom.google.com/u/0/c/NTYxMjE3ODAzNjRa/m/OTY0MDQzODgxMzFa/details	
	9-5-20	Lecture 5.5 of Module 5	https://www.youtube.com/watch?v=QraBn9ng-H0 https://www.youtube.com/watch?v=XEWfw7CHST8 https://www.youtube.com/watch?v=sjUXpD0VpQ4	https://classroom.google.com/u/0/c/NTYxMjE3ODAzNjRa/m/OTY0MDQzODgyMzZa/details	
	11-5-20	Lecture 5.6 of Module 5	https://www.youtube.com/watch?v=OZchTd4fxo0&t=13s https://www.youtube.com/channel/UCVi3LnJHotH83TPS0cvGpug?view_as=subscriber	https://classroom.google.com/u/0/c/NTYxMjE3ODAzNjRa/m/MTAwOTUwMTY5MDM4/details	
	12-5-20	Lecture 3.10 of Module 3	https://youtu.be/HBZ-fSBbxY0	https://classroom.google.com/u/0/c/NTYxMjE3ODAzNjRa/m/MTAwOTM2NDI2MDE3/details	
	13/5/20	Lecture 3.11 of Module 3	https://youtu.be/JGVvQqfBCvU	https://classroom.google.com/u/0/c/NTYxMjE3ODAzNjRa/m/MTAwOTM2NDI2Mjg1/details	
	14/5/20	Lecture 3.12 of Module 3	https://youtu.be/nhvDig2QqbA https://youtu.be/G2leX6KeDAk	https://classroom.google.com/u/0/c/NTYxMjE3ODAzNjRa/m/MTAzMzUxMjk4OTI1/details	
	15/5/20	Spring Constant Experiment	https://youtu.be/v2BOQyW8XJ0	https://classroom.google.com/u/0/c/NTYxMjE3ODAzNjRa/m/ODQzNzA4MTgxMjRa/details	
	16/5/20	Rigidity Modulus and Moment of inertia	https://youtu.be/v2BOQyW8XJ0	https://classroom.google.com/u/0/c/NTYxMjE3ODAzNjRa/m/ODQzNzA4MTgyNDJa/details	
	18/05/20	Wave length of light by	https://youtu.be/v2BOQyW8XJ0	https://classroom.google.com/u/0/c/NTYxMjE3ODAzNjRa/m/ODQzNzA4MTgyNjVa/d	

		Grating			etails	
	19/5/20	Dielectric Constant		https://youtu.be/v2B0QyW8XJ0	https://classroom.google.com/u/0/c/NTYxMjE3ODAzNjRa/m/ODQzNzMyMjk4NzJa/details	
	20/5/20	additional links on lab experiments		https://www.youtube.com/watch?v=psq7FBWvP-4 https://youtu.be/oxidgmtko4s https://youtu.be/TLKiTI-tFtY https://youtu.be/TLKiTI-tFtY https://youtu.be/TLKiTI-tFtY https://youtu.be/TLKiTI-tFtY https://youtu.be/TLKiTI-tFtY https://youtu.be/TLKiTI-tFtY		