

WELCOME TO

PHYSICS

PH11003

L-T-P-C 3-1-0-4

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For lecture notes and slides:

<http://www.cts.iitkgp.ernet.in/home/pratik/teaching.html>

Course Schedule

Lectures (3 per week in NR111)

Monday: 12:00 Noon – 12:55 PM,

Tuesday: 10:00 AM – 11:55 AM

Tutorial (1 per week)

Mr. Aditya Sharma: Wed. 2:00 PM - 2:55 PM/

Sec. 11/ Group A/ NC 121 (23AE10031 - 23EE30032)

Ms. Sonali Maity: Wed. 2:00 PM - 2:55 PM/

Sec. 11/ Group B/ NC122 (23EX10019 - 23PH10027)

Mr. Aditya Sharma: Wed. 11:00 AM - 11:55 AM/

Sec. 12/ Group A/ NC121 (23AE10012 - 23EX10020)

Ms. Sonali Maity: Wed. 11:00 AM - 11:55 AM/

Sec. 12/ Group B/ NC 122 (23EX10040 - 23PH10047)

Marks break-up:

Total: 100

Tutorials: 20

(2 Class Tests)

Mid sem: 30

End sem: 50

Course (38 lectures)

Introduction -	1 lecture
Oscillations -	9 lectures
Waves-	5 lectures
Interference-	8 lectures
Diffraction-	4 lectures
Polarisation -	4 lectures
Quantum Physics -	7 lectures

BOOKS

LECTURE NOTES & PROBLEMS BANK for PHYSICS by R S SARASWAT AND G P SASTRY

1. Oscillations and Waves: S. Bharadwaj and S. P. K.
<https://archive.nptel.ac.in/courses/115/105/115105083/>
2. Vibrations and Waves in Physics by I. G. Main
3. Waves: Berkeley Physics Course by F. Crawford
4. Vibrations and Waves by A. P. French
5. Optics by E. Hecht
6. Fundamentals of Optics by F. A. Jenkins and H.E. White
7. Physics of Waves by H. Georgi (for which the legal ebook in pdf could be downloaded from the following site)
<https://sites.harvard.edu/hgeorgi/physics-of-wave-files/>