

Lesson Plan Format
18 weeks (From January 2018 to April 2018)

Name of Assistant / Associate Professor : Monika Devi
 Class and Section : B.Sc. II Sem
 Subject : Optics (Physics)

Week 1 (January 1-6)

Chapter 1

01/01/2018 Introduction - Interference and interference by plane film.
 02/01/2018 Interference of light in colour of thin films.
 03/01/2018 Wedge shaped film
 04/01/2018 Newton's Rings
 05/01/2018
 06/01/2018

Week 2 (January 8-13)

Chapter

08/01/2018 Newton's Rings
 09/01/2018 "
 10/01/2018 Interferometer - Michelson's Interferometer
 11/01/2018
 12/01/2018
 13/01/2018

Week 3 (January 15-20)

Chapter

15/01/2018 Applications of Michelson's interferometer / standardisation of meter
 16/01/2018 determination of wave length, Introduction of diffraction.
 17/01/2018 Fresnel's diffraction & its assumptions.
 18/01/2018
 19/01/2018
 20/01/2018

Week 4 (January 22-27)

Chapter

22/01/2018 — HOLIDAY —
 23/01/2018 Zone plate & action of zone plate for spherical wavefront
 24/01/2018 Fresnel's half period zones
 25/01/2018
 26/01/2018 — HOLIDAY —

27/01/2018

Week 5 (January 29- Feb 3)

Chapter

29/01/2018 diffraction at a straight edge
30/01/2018 diffraction at rectangular slit
31/01/2018 diffraction at a circular aperture
01/02/2018
02/02/2018
03/02/2018

Week 6 (Feb 5-10)

Chapter

05/02/2018 Numericals of Unit 2
06/02/2018 Test of UNIT-2
07/02/2018
08/02/2018
09/02/2018
10/02/2018 — HOLIDAY —

Week 7 (Feb 12-17)

Chapter

12/02/2017 Introduction of diffraction,
13/02/2017 — HOLIDAY —
14/02/2017 Fraunhofer diffraction
15/02/2017
16/02/2017
17/02/2017

Week 8 (Feb 19-24)

Chapter

19/02/2018 Fraunhofer diffraction : one slit diffraction
20/02/2018 Two slit diffraction
21/02/2018 N-slit diffraction
22/02/2018
23/02/2018
24/02/2018

Week 9 (Feb 26-March 03)

Chapter

26/02/2018 Plane transmission gratings
27/02/2018 Grating spectrum & its dispersive power
28/02/2018 // HOLIDAY //
01/03/2018

02/03/2018 / HOLIDAY /
03/03/2018

Week 10 (March 5-10)

Chapter

05/03/2018 Determination of wavelength of a spectral line using Grating
06/03/2018 Resolving power & limit of resolution.
07/03/2018
08/03/2018
09/03/2018
10/03/2018

Week 11 (March 12-17)

Chapter

12/03/2018 Rayleigh's criterion
13/03/2018 Resolving power of telescope
14/03/2018 Resolving power of grating.
15/03/2018
16/03/2018
17/03/2018

Week 12 (March 19-24)

Chapter

19/03/2018 Numericals of Unit-2.
20/03/2018 Test of Unit-2
21/03/2018 Introduction of Polarization & double Refraction.
22/03/2018 — HOLIDAY —
23/03/2018
24/03/2018

Week 13 (March 26-31)

Chapter

26/03/2018 Intro Polarisation by reflection and by scattering.
27/03/2018 Malus law.
28/03/2018 Phenomenon of double refraction
29/03/2018 — HOLIDAY —
30/03/2018
31/03/2018

Week 14 (April 02-07)

Chapter

02/04/2018 Huygens wave theory of double refraction
03/04/2018 Analysis of polarised light: Nicol prism
04/04/2018 Quarter wave plate & half wave plate,

05/04/2018 Production and detection of (i) Plane polarized

06/04/2018

07/04/2018

Week 15(April 09-14)

Chapter

09/04/2018 Production and detection of plane polarized light

10/04/2018 Circularly polarized light

11/04/2018 Elliptically polarized light

12/04/2018

13/04/2018 / HOLIDAY /

14/04/2018 HOLIDAY

Week 16(April 16-21)

Chapter

16/04/2018 optical activity

17/04/2018 Fresnel's theory of rotation

18/04/2018 — HOLIDAY —

19/04/2018

20/04/2018

21/04/2018

Week 17(April 23-28)

Chapter

23/04/2017 Specific rotation

24/04/2017 Polarimeters (Half shade & Biquartz)

25/04/2017 Numerical of Unit-3

26/04/2017

27/04/2017

28/04/2018 Numerical of Unit-3

Week 18(April 29-30)

Chapter

30/04/2018 Test of Unit - 3