



ABES Engineering College, Ghaziabad

Department of Applied Sciences & Humanities

Session: 2023-24

Semester: II

Section: Common to All

Course Code: BAS201

Course Name: Engineering Physics

Assignment 3 (WAVE OPTICS)

Date of Assignment:

Date of submission:

- 1 a) What do you understand by coherent sources? (2022-23)(K2, CO3)
b) What will happen to Newton's rings if monochromatic light is replaced by white light.(K1,CO3)
2. a) Why two independent light sources cannot produce interference pattern?
(2020-21, 2021-22, 2022-23)(K2,CO3)
b) Why the center of Newton's ring in reflected system is dark?. (2021-22)(K2,CO3)
3. a) Explain the necessity of extended sources. (2018-19) (K1,C03)
b) What are Newton's rings? (2017-18) (K1,C03)
4. a) What are the changes that are caused in the diffraction pattern if the number of slits are made large? (2022-23)(K2,CO3)
b) Explain Rayleigh's criterion of resolution. (2021-22) (K1, CO3)
5. a)What is dispersive power of plane transmission grating.(2019-20)(K1,CO3)
b) What happens if the slit is smaller than wavelength in diffraction pattern? 2023-24(K2, CO3)

