

GOVERNMENT POLYTECHNIC, VAISHALI

Civil & Mechanical ~~Electronics~~ Engg, semester - II

Lecture Plan for left syllabus effective from 10-04-2020

subject: Applied science Physics / 1602103

subject Teacher: Upendra Ravidas

| S.No | Unit | Topic to BE COVERED | No. of Period | BOOK |
|------|------|---|---------------|---------------------------------|
| 1. | 4.1 | Weber and Fetchner Law, limit of intensity and loudness echo, Pitch, Timber | L1 | P ₁ , P ₂ |
| | | Sabin's formula, Reverberation Time, Creep | L2 | P ₁ |
| | | Acoustical Planning of auditorium, noise Pollution detail. | L3 | P ₂ , P ₃ |
| 2 | 4.2 | Luminous intensity, intensity of illumination inverse square Law | L4 | P ₂ |
| | | Bunsen's photometer - ray diagram, working and its application | L5 | P ₁ , P ₃ |
| | | indoor lighting, schemes and factors affecting indoor lighting | L6 | P ₂ , P ₁ |

BOOKS :-

- (i) Applied science, Roshan Kr. Sinha, foundation publication - P₁
- (ii) Applied science, Mahima Tulsian, SR Iyenger, Jhunjhunbala - P₂
- (iii) Engineering Physics, S.C Gupta, Dhamptrai Publication - P₃

civil & Electronics Engg., semester - II

Lecture Plan for Left syllabus effective from 10.4.2020

subject: Basic Physics [1602201]

subject Teacher: Upendra Ravidas

| S.NO | unit | Topic to be covered | No. of period | Book | | |
|------|------|--|---------------|--------------------------------------|-----|-------------------------------|
| 1. | 04 | Reflection of light, Snell's Law, Refraction of light | L1 | P ₁ | | |
| | | critical angle, Total internal reflection. Diffraction | L2 | P ₁ | | |
| | | Dispersion of light, Prism Polarization | L3 | P _{2, P₃} | | |
| | | Newton's corpuscular Theory Huygen's wave theory, | L4 | P ₃ | | |
| | | interference of light, Difference b/w interference and diffraction | L5 | P ₂ | | |
| | | Young's experiment, construction | L6 | P ₃ | | |
| | | LASER, Principle of laser. | L7 | P _{3, P₂} | | |
| | | Population inversion Pumping, He-Ne Laser | L8 | P _{1, P₂} | | |
| | | 2 unit | 05 | Properties of X-ray, Bragg's Law | L9 | P _{3, P₂} |
| | | | | Extra class, previous year questions | L10 | P _{1, P₂} |

BOOK: (i) Basic Physics - Krishna Prakashan Publications, P_{1, P₂}
 (ii) Basic Physics, Jhunjhunbala Publication
 (iii) Engineering Physics, S.C. Gupta, Dhanpatra Publication + P₃