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JANGIPUR COLLEGE

(Govt. Sponsored)
(NAAC Accredited Cycle-2, B++)
P.O.-Jangipur, Dist.-Murshidabad, Pin-742213

U.G Sem-IV Physics (Honours) Project 2023

This is for information of B.Sc Sem-IV Physics students that they must complete one project work for each paper and submit the same at the department of physics on 10/9/23 (Hons + G.E) and 11/9/23 (PCC).

Topics of Honours Students:

HCC-8	HCC-9	HCC-10
1. Laplace's Transforms	1. Black body Radiation	1. P-N junction diode, Current flow mechanism in forward & reverse bias, Barrier width, Barrier potential.
2. Fourier Transforms	2. Photo electric effect and Compton scattering	2. Transistor characteristics (CB, CE, CC)
3. Complex Integral	3. Nuclear Shell model and magic number	3. Operational amplifier
	4. Radioactivity	4. Transistor amplifier, Hybrid model

Topics for G.E Students:

- Michelson's interferometer.
- Acoustics of buildings
- Fraunhofer diffraction
- Lissajous figure

Topic for P.C.C Students: 1. Reciprocal lattice, Brillouin zones, Bragg's law of diffraction in crystals.

Osaka.
01/09/23