



GOVERNMENT GENERAL DEGREE COLLEGE, RANIBANDH

DEPARTMENT OF PHYSICS

Vill. + P.O.: Rautara *P.S.: Barikul *Dist.: Bankura *Pin Code: 722135 *West Bengal *India

Ph.: 7872790264 *e-mail: govtgencol.ranibandh@gmail.com *Website: ranibandhgovtcollege.org

Syllabus Distribution for Academic Session 2024-2025

ODD SEMESTER (JULY 2024 – DECEMBER 2024):

Semester I, III and V of Physics Honours Courses will start in accordance with the regulations under the affiliation of Bankura University. Classes were allotted as prescribed by the rules and regulations of Bankura University. 6 credits for each core & DSE courses and 2 credit for each SEC courses were allotted on class routine. A departmental meeting was held for distribution of syllabus among two teachers of our department and the teachers willing to collaborate from the departments of Mathematics and Chemistry (Notice and Resolution were kept in Notice book and Resolution book respectively).

Course: Physics Honours

Semester: I			
<u>Course Title & Course Code</u>	<u>Name of Teacher</u>	<u>Units</u>	<u>Hours</u>
Mechanics and General Properties of Matter (CourseCode: S/PHS/101/MJC-1)	Dr. Aniruddha Chattopadhyay	1. Vector Calculus	12
	Mr. Kapil Mandal	2. Fundamentals of Dynamics 3. Work and Energy 4. Rotational Dynamics 5. Fluid Motion 6. Elasticity 7. Gravitation and	48



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		Central Motion	Force
	Mr. Kapil Mandal	All units (Lab)	25
Basics of Computer and Python Programming (Course Code: S/PHS/104/SEC-1)	Mr. Kapil Mandal	All units (Theory)	30
	Mr. Kapil Mandal	All units (Lab)	15

Semester: III			
<u>Course Title & Course Code</u>	<u>Name of Teacher</u>	<u>Units</u>	<u>Hours</u>
Mathematical Physics-I (Course Code: S/PHS/301/MJC-3)	Mr. Madhusudan Garain	All units (Lab)	25
	Dr. Aniruddha Chattopadhyay	1. Orthogonal Curvilinear Coordinates	15
	Dr. Prasenjit Mondal	2. Differential Equation 3. Fourier Series	14
	Mr. Kapil Mandal	4. Frobenius Method and Special Functions	6



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Waves and Oscillation (Course Code: S/PHS/302/MJC-4)	Mr. Totan Roy	1. Superposition of Collinear Harmonic Oscillations	6
	Mr. Madhusudan Garain	2. Damped and Forced Oscillations 3. Wave Motion 4. Vibration of Strings 5. Doppler Effect and Acoustics of Buildings 6. Technical Acoustics	29
	Mr. Madhusudan Garain	All units (Lab)	25
Introduction to LASER and Fibre Optics (Course Code: S/PHS/305/SEC-3)	Mr. Madhusudan Garain	All Units (Theory)	35
	Mr. Madhusudan Garain	All units (Lab)	25

Semester: V

<u>Course Title & Course Code</u>	<u>Name of Teacher</u>	<u>Units</u>	<u>Hours</u>
Quantum Mechanics and Applications (Course Code: SHPHS/501/C-11)	Mr. Kapil Mandal	All Units (Theory)	35
	Mr. Kapil Mandal	All units (Lab)	25



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Solid State Physics (Course Code: SHPHS /502/C-12)	Mr. Kapil Mandal	All Units (Theory)	35
	Mr. Kapil Mandal	All units (Lab)	25
Classical Dynamics (Course Code: SHPHS/503/DSE-1)	Mr. Kapil Mandal	All Units	60
Nuclear and Particle Physics (Course Code: SHPHS /504/DSE-2)	Mr. Kapil Mandal	All Units	60

Signature of Teachers
