Department of Physics

• **Courses offered:** UG Physics FYUGP

• **Paper and Topic**

Semester wise Papers and Examination Structure for **Physics Major** 2023 onwards

Semester	Paper Code	Paper	Full Marks	Pass Mark
I	MJ-1: Theory	Mathematical Physics-I	25+75	10+30
	MJ : Practical	Practical	100	40
II	MJ-2: Theory	Mechanics & Waves	25+75	10+30
	MJ-3: Practical-I	Practical	100	40
III	MJ-4: Theory	Electricity & Magnetism	25+75	10+30
	MJ-5: Practical-II	Practical	100	40
IV	MJ-6: Theory	Optics and Electromagnetic	25+75	10+30
	MJ-7: Theory	Mathematical Physics-II	25+75	10+30
	MJ-8: Practical-III	Practical	100	40
V	MJ-9 Theory	Thermal Physics and Statistical	25+75	10+30
	MJ-10: Theory	Mechanics Analog and Digital Electronics	25+75	10+30
	MJ-11: Practical-IV	Practical	100	40
VI	MJ-12: Theory	Advanced Mathematical Physics	25+75	10+30
	MJ-13: Theory	Elements of Modern Physics	25+75	10+30
	MJ-14: Theory	Quantum Mechanics and Applications	25+75	10+30
	MJ-15: Practical-V	Practical	100	40

Semester wise Papers and Examination Structure for **Physics Minor** Papers from **Discipline Studies** 2023 onwards

Semester	Paper Code	Paper & Practical	Full Marks	Pass Mark
I	MN-1A	Mechanics	(15+50)+25	30+10
II	MN-1B	Electricity & Magnetism	(15+50)+25	30+10
III	MN-1C	Thermal Physics and Statistical Mechanics	(15+50)+25	30+10

Semester wise Papers and Examination Structure for **Physics Minor** Papers from **Vocational Studies** 2023 onwards

Semester	Paper Code	Paper & Practical	Full Marks	Pass Mark
II	MN-2A	Energy Sources	75+25	30+10
IV	MN-2B	Basic Instrumentation Skills	75+25	30+10
VI	MN-2C	Optical Instruments	75+25	30+10

• **Admission process**: https://jharkhanduniversities.nic.in/university/admisssionopenclose

• **Total Departmental Intake/Seat**: 64

• **Syllabus:** https://bbmku.ac.in/Courses_details/FYUGP%202025

• **Exam Pattern / Evaluation Process**:

Paper	Paper & Practical	Internal	Semester	Full Marks	Pass Mark
Major	Theory	25	75	100	40
	Practical	-	100	100	40
Minor	Theory	15	60	75	30
	Practical	-	25	25	10
Minor-VOC	Theory	-	75	75	30
	Practical	-	25	25	10

• **Faculty Details:**

Dr. Santosh Kachhap	
PhD: Indian Institute of Technology (BHU) Varanasi	
PhD Thesis Topic: Lanthanide doped Halide/Oxide Perovskite for Optoelectronic Applications. **Publications:**https://scholar.google.com/citations?hl=en&user=r0yo-pIAAAAJ&view_op=list_works&sortby=pubdate	