

KHATRA ADIBASI MAHAVIDYALAYA

DEPARTMENT OF PHYSICS

SYLLABUS MODULE

SESSION 2023-24

(N.B.: Figures in brackets indicate number of lecture hours per week)

For Odd Semester courses

Sem	Course Code	Topic	Instructor
1	S/PHS/101/MJC-1	Mechanics and General Properties of Matter	AC(6)
	S/PHS/102/MN-1	Mechanics and General Properties of Matter	AC(6)
	S/PHS/103/MD-1	Fundamentals of Physics -I	SS(4)
	S/PHS/104/SEC-1	Basics of Computer & Python Programming	SS(6)
3	SHPHS/301/C-5	Mathematical Physics-II	SS(6)
	SHPHS/302/C-6	Thermal Physics	SS(6)
	SHPHS/303/C-7	Digital Systems and Applications	AC(6)
	SHPHS/304/GE-3	Physical Optics and Modern Physics	AC(6)
	SHPHS/305/SEC-1	Renewable Energy and Energy Harvesting	AC(3)
	SP/PHS/301/C-1C	Physics III	AC(6)
	SP/PHS/304/SEC-1	Renewable Energy and Energy Harvesting	AC(3)
5	SHPHS/501/C-11	Quantum Mechanics & Applications	SS(6)
	SHPHS/502/C-12	Solid State Physics	AC(6)
	SHPHS/503/DSE-1	Classical Dynamics	SS(6)
	SHPHS/504/DSE-2	Nuclear & Particle Physics	SS(6)
	SP/PHS/501/DSE-1A	Classical Dynamics	SS(6)
	SP/PHS/504/SEC-3	Electrical Circuits & Network Skills	AC(3)

Note: Internal Assessment (IA) for 3rd & 5th sem students were however held in **offline mode** in the period from 1/12/2023 to 17/12/2023. IA for 1st sem students were held in **offline mode** on 05/02/2024 & 06/02/2024.

IA for 2nd, 4th & 6th sem students were held in **offline mode** in the period from 17/05/2024 to 21/05/2024.

- **SS**= Siddhartha Sinha
- **AC**=Arindam Chackrabarti

For Even Semester courses

Semester	Course Code	Topics	Instructor
2	S/PHS/201/MJC-2	Electricity and Magnetism	AC(6)
	S/PHS/202/MN-2	Electricity and Magnetism	AC(6)
	S/PHS/203/MD-2	Fundamentals of Physics -II	SS(4)
	S/PHS/204/SEC-2	Basic Instrumentation Skills	AC(4)
4	SHPHS/401/C-8	Mathematical Physics III	SS(6)
	SHPHS/402/C-9	Elements of Modern Physics	SS(6)
	SHPHS/403/C-11	Analog Systems and Applications	AC(6)
	SHPHS/404/GE-4	Electronics & Instrumentation	AC(6)
	SHPHS/405/SEC-2	Radiation Safety	SS(3)
	SP/PHS/401/C-1D	Physics IV	AC(6)
	SP/PHS/404/SEC-2	Radiation Safety	SS(3)
6	SHPHS/601/C-13	Electromagnetic Theory	AC(6)
	SHPHS/602/C-14	Statistical Mechanics	SS(6)
	SHPHS/603/DSE-3	Physics of Earth	SS(6)
	SHPHS/604/DSE-4	Communication Electronics	AC(6)
	SP/PHS/601/DS-1B	Physics of Earth	SS(6)
	SP/PHS/604-SEC-4	Basic Instrumentation Skills	AC(3)

- **SS**= Siddhartha Sinha
- **AC**=Arindam Chackrabarti

Note: All classes are taken in offline-mode, except for a few weeks on the months of April & May.