

# KHATRA ADIBASI MAHAVIDYALAYA

## DEPARTMENT OF PHYSICS

### SYLLABUS MODULE

SESSION 2022-23

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

#### For Odd Semester courses

Sem	Course Code	Topic	Instructor
1	SHPHS/101/C-1	Mathematical Physics-I	SS(6)
	SHPHS/102/C-2	Mechanics	AC(6)
	SHPHS/103/GE-1	Mechanics, Electrostatics and Sound	SS(6)
	SP/PHS/101/C-1A	Physics -I	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 3<sup>rd</sup> & 5<sup>th</sup> sem students were however held in **offline mode** on the dates 16/11/2022, 17/11/2022, 19/11/2022, 21/11/2022 & 22/11/2022. IA for 1<sup>st</sup> sem students were held in **offline mode** on 07/12/2022 & 08/12/2022.

IA for 2<sup>nd</sup>, 4<sup>th</sup> & 6<sup>th</sup> sem students were held in **online mode** in the period from 03/05/2023 to 08/05/2023 (due to classes being held in online mode due to a prevailing *heat wave* in that period).

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

For Even Semester courses

Semester	Course Code	Topics	Instructor
2	SHPHS/201/C-3	Electricity and Magnetism	AC(6)
	SHPHS/202/C-4	Waves and Optics	SS(6)
	SHPHS/203/GE-2	Electromagnetism and Thermal Physics	SS(6)
	SP/PHS/201/C-1B	Physics -II	SS(6)
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.*