

KHATRA ADIBASI MAHAVIDYALAYA

DEPARTMENT OF PHYSICS

SYLLABUS MODULE

SESSION 2020-21

(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	AC(6)
	SP/PHS/101/C-1A	Physics -I	AC(6)
3	SHPHS/301/C-5	Mathematical Physics-II	SS(6)
	SHPHS/302/C-6	Thermal Physics	SS(4)+AC(2)
	SHPHS/303/C-7	Digital Systems and Applications	AC(6)
	SHPHS/304/GE-3	Physical Optics and Modern Physics	SS(3)+AC(3)
	SHPHS/305/SEC-1	Renewable Energy and Energy Harvesting	AC(3)
	SP/PHS/301/C-1C SP/PHS/304/SEC-1	Physics III Renewable Energy and Energy Harvesting	SS(3)+AC(3) 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)

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

For Even Semester courses

Sem	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	AC(4)+SS(2)
	SP/PHS/201/C-1B	Physics -II	AC(4)+SS(2)
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)

Note: Internal Assessment (IA) for 1st for 1st, 3rd & 5th sem students were held in online mode in the period from 24/2/2021 to 02/03/2021.

IA for 2nd, 4th & 6th sem students were held in **online mode** in the period from 24/6/2021 to 02/07/2021.

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

*Note: All classes are taken in **online mode** due to the public health related restrictions imposed by SARS-COV-2 pandemic (except for the months February to April, 2021).*