

SIDDHINATH MAHAVIDYALAYA

TEACHING PLAN

DEPARTMENT OF PHYSICS

| Teaching Plan of Semester I (2022-23) | | | | |
|------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------|----------------------|-----------------------|
| Generic Elective(GE) [Interdisciplinary for other Department] | | | | |
| Syllabus GE1T: ELEMENTS OF MODERN PHYSICS | | TEACHER | Allotted Time | Class per week |
| Unit-I | Planck's Quantum | Pabitra Adhikary | September To March | 4 |
| | Problems with Rutherford Model | | | |
| Unit-II | Position Measurement | | | 2 |
| Unit-III | Two Slit Interference Experiment | | | 3 |
| Unit-IV | One Dimensional Infinitely Rigid Box | | | 3 |
| Unit-V | Size and Structure of Atomic Nucleus and Its Relation with Atomic Weight | | | 3 |
| Unit-VI | Radioactivity | | | 4 |
| | Fission and Fusion | | | |
| Syllabus GE1P: ELEMENTS OF MODERN PHYSICS (Lab) | | | | |
| Unit-I | To Determine Value of Boltzmann Constant Using V-I Characteristic of PN Diode. | Pabitra Adhikary | September To March | 2 |
| Unit-II | To Determine Value of Planck's Constant Using LEDs of atleast 4 Different Colours. | | | 2 |