

## ST. JOSEPH'S CONVENT HIGH SCHOOL, CBSE – CHITTARANJAN

### Syllabus Details

Session- 2024-25

Subject – Sc. ( Physics)

Class – X

For Exam – P. T. I

Books Recommended:

1. N. C. E. R. T. Sc& Technology
2. S. Chand.
3. N. C. E. R. Exemplar.

MONTH	BOOKS / SECTION	LESSON(S) / TOPIC(S)	SUGGESTED ACTIVITIES & PROJECTS
APRIL	❖ Light	<ul style="list-style-type: none"><li>❖ Reflection of light from curved surfaces.</li><li>❖ Spherical mirrors( Concave &amp; Convex )</li><li>❖ Rules of reflections by curved mirrors.</li><li>❖ Ray diagrams.</li><li>❖ Applications of curved mirrors.</li><li>❖ Mirror and magnification formula.</li><li>❖ Application( Curved mirrors )</li></ul>	<ul style="list-style-type: none"><li>❖ Activity: To observe &amp; understand the image formation on different surfaces of the spoon. ( Do on 1/4<sup>th</sup> size chart paper )</li></ul>
MAY	❖ Light	<ul style="list-style-type: none"><li>❖ Cartesian sign convention.</li><li>❖ Numerical based on curved mirrors.</li><li>❖ Refraction by a rectangular glass slab.</li><li>❖ Properties of refraction.</li><li>❖ Refraction by a prism.</li><li>❖ Lens formula.</li><li>❖ Magnification.</li><li>❖ Refractive index.</li></ul>	<ul style="list-style-type: none"><li>❖ Summer vacation project. Hold a convex lens in your hand and direct it towards the sun. Focus the light from the sun on a sheet of paper and obtain a bright image of the sun. ( Do it, in lab manual notebook or on a 1/4<sup>th</sup> size chart paper )</li></ul>

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|  |  | <ul style="list-style-type: none"><li>❖ Numerical.</li><li>❖ Application ( Spherical lenses )</li><li>❖ Ray diagrams.</li></ul> |  |
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