

**Online Class Program (OCP)**  
**Science ( Physics) Road Map for Term-I ( 2020-2021) wef.01 jul 2020**

| Class-X ( RMR ) (SCI- PHY) |                                 |   | Class -IX (SHK)(PHYSICS) |   |  |
|----------------------------|---------------------------------|---|--------------------------|---|--|
| Date                       | Topic                           | Subtopic                                  | Topic                    | Subtopic  |  |
| 01-07-2020                 |                                 |   |                          |   |  |
| 02-07-2020                 |                                 |   |                          |   |  |
| 03-07-2020                 |                                 |   |                          |   |  |
| 04-07-2020                 |                                 |   |                          |   |  |
| 05-07-2020                 | <b>SUNDAY</b>                   |   | <b>SUNDAY</b>            |   |  |
| 06-07-2020                 | magnetic effects of current     | magnetic field and field lines            | Force and Newton's laws  | Force and Motion                                    |  |
| 07-07-2020                 |                                 | field due to a current carrying conductor |                          | Newton's Laws of Motion, Action and reaction forces |  |
| 12-07-2020                 |                                 |   |                          |   |  |
| 13-07-2020                 |                                 | solenoid                                  |                          | Inertia of a body, Inertia and mass, Momentum       |  |
| 14-07-2020                 |                                 | force on current carrying conductor       |                          | Force and Acceleration & Application                |  |
| 19-07-2020                 |                                 |   |                          |   |  |
| 20-07-2020                 |                                 | Fleming's left hand rule                  |                          | Elementary idea of conservation of Momentum.        |  |
| 21-07-2020                 |                                 | electric motor                            |                          | Activities  |  |
| 26-07-2020                 |                                 |   |                          |   |  |
| 27-07-2020                 |                                 | electromagnetic induction                 |                          | Problems  |  |
| 28-07-2020                 |                                 | Fleming's right hand rule                 |                          | Problems  |  |
| 02-08-2020                 |                                 |   |                          | <b>SUNDAY</b>                                       |  |
| 03-08-2020                 |                                 | electric generator                        |                          | Gravitation   | Gravitation; Universal Law of Gravitation                                |
| 04-08-2020                 |                                 | A.C and D.C                               |                          |   | Force of Gravitation of the earth (gravity), Acceleration due to Gravity |
| 09-08-2020                 |                                 |   |                          |   |  |
| 10-08-2020                 | advantages of A.C over D.C      | Mass and Weight                           |                          |   |  |
| 11-08-2020                 | Intext questions                | Free fall                                 |                          |   |  |
| 12-08-2020                 |                                 |   |                          |   |  |
| 15-08-2020                 |                                 |   |                          |   |  |
| 16-08-2020                 |                                 |   |                          |   |  |
| 17-08-2020                 | domestic electric circuits      | Activities                                |                          |   |  |
| 18-08-2020                 | exercise questions              | Problems                                  |                          |   |  |
| 23-08-2020                 | <b>SUNDAY</b>                   |   |                          |   |  |
| 24-08-2020                 | light reflection and refraction | reflection of light                       | Thrust and Pressure      |   |  |
| 25-08-2020                 |                                 | reflection of light by curved surfaces    |                          |   | Archimedes' Principle; Buoyancy  |
| 30-08-2020                 |                                 |   |                          |   |  |
| 31-08-2020                 |                                 | spherical mirrors                         |                          | Elementary Idea of Relative Density                 |  |
| 01-09-2020                 |                                 | reflection by spherical mirrors           |                          | Activities  |  |
| 06-09-2020                 |                                 |   |                          |   |  |
| 07-09-2020                 |                                 | mirror formula                            |                          | Problems  |  |
| 08-09-2020                 |                                 | numericals                                |                          | problems  |  |
| 13-09-2020                 |                                 |   |                          | <b>SUNDAY</b>                                       |  |
| 14-09-2020                 |                                 | refraction-laws of refraction             |                          | and power   | Work done by a Force   |
| 15-09-2020                 | lenses, refractive index        | Energy, Power                             |                          |   |  |
| 20-09-2020                 |                                 |   |                          |   |  |
| 21-09-2020                 | numericals                      | Kinetic and Potential energy              |                          |   |  |

|            |               |                                |              |  |
|------------|---------------|--------------------------------|--------------|--|
| 22-09-2020 |               | lens formula and magnification | Work, energy | Law of conservation of energy          |
| 27-09-2020 |               |                                |              |  |
| 28-09-2020 |               | power of a lens                |              | Activities                             |
| 29-09-2020 |               | exercise                       |              | Problems                               |
| 04-10-2020 | <b>SUNDAY</b> |                                |              |  |
| 05-10-2020 |               |                                |              | Problems                               |
| 06-10-2020 |               |                                |              | Revision                               |
| 10-10-2020 |               |                                |              | <b>SUNDAY</b>                          |
| 11-10-2020 |               |                                | Sound        | Nature of sound                        |
| 12-10-2020 |               |                                |              | its propagation in various media       |
| 18-10-2020 |               |                                |              |  |
| 19-10-2020 |               |                                |              | speed of sound                         |
| 20-10-2020 |               |                                |              | range of hearing in humans, ultrasound |
| 25-10-2020 |               |                                |              |  |
| 26-10-2020 |               |                                |              | reflection of sound, echo and SONAR    |
| 27-10-2020 |               |                                |              | Structure of the Human Ear             |
| 01-11-2020 |               |                                |              |  |
| 02-11-2020 |               |                                |              | Activities                             |
| 03-11-2020 |               |                                |              | Problems                               |