**Pakistan School System- Oman**

**Syllabus / SLOs Coverage plan ( 2022-23)**

| **Grade:** | **X** | | | **Subject:** | **Physics** | | |
|---|---|---|---|---|---|---|---|
| Week | # of Working days | From--T0 | Chapter | Date | Topics | % | Review |
| # | | August - 2022. | | | | | |
| 1 | 2 | 10 to 11 | **SIMPLE HARMONIC MOTION AND WAVES** | .August-7 | Ashoora -Holiday | | |
| | | | | .August-8 | | 3% | |
| | | | | .August-9 | | | |
| | | | | .August-10 | Simple Harmonic Motion (SHM | | |
| | | | | .August-11 | Motion of mass attached to a spring | | |
| | | | | | | | |
| Week | # of Working days | From--T0 | Chapter | Date | Topics | % | Review |
| # | | August - 2022. | | | | | |
| 2 | 4 | 14 to 18 | **SIMPLE HARMONIC MOTION AND WAVES** | .August-14 | Independence day - Holiday | | |
| | | | | .August-15 | Simple pendulum | 8% | |
| | | | | .August-16 | Waves, their nature and type | | |
| | | | | .August-17 | Properties of waves | | |
| | | | | .August-18 | speed = frequency x wavelength | | |
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| Week | # of Working days | From--T0 | Chapter | Date | Topics | % | Review |
|---|---|---|---|---|---|---|---|
| # | | August - 2022. | | | | | |
| 3 | 5 | 21 to 25 | **SIMPLE HARMONIC MOTION AND WAVES** | .August-21 | ripple tank(Properties of wave) | 13% | |
| | | | | .August-22 | Exercise | | |
| | | | | .August-23 | Exercise | | |
| | | | | .August-24 | Exercise | | |
| | | | | .August-25 | Exercise | | |
| | | | | | | | |
| Week | # of Working days | From--T0 | Chapter | Date | Topics | % | Review |
| # | Aug/ Sep - 2022. | | | | | | |
| 4 | 5 | 28 to 1 | **Sound** | .August-28 | Sound waves | 18% | |
| | | | | .August-29 | Speed of sound | | |
| | | | | .August-30 | Characteristics of sound | | |
| | | | | .August-31 | longitudinal nature of sound waves | | |
| | | | | .Sept:1 | pitch, loudness and quality of sound | | |
| | | | | | | | |
| Week | # of Working days | From--T0 | Chapter | Date | Topics | % | Review |
| # | | Sept: - 2022. | | | | | |
| 5 | 5 | 4 to 8 | **Sound** | .Sept:-4 | intensity and intensity level and state its SI unit | 23% | |
| | | | | .Sept:-5 | Noise pollution | | |
| | | | | .Sept:-6 | reflection of sound produce echo | | |
| | | | | .Sept:-7 | Audible frequency range | | |
| | | | | .Sept:-8 | importance of acoustic protection | | |
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| Week | # of Working days | From--T0 | Chapter | Date | Topics | % | Review |
|---|---|---|---|---|---|---|---|
| # | | Sept: - 2022. | | | | | |
| 6 | 5 | 11 to 15 | **Geometrical Optics** | Sept:- 11 | Exercise | 29% | |
| | | | | Sept:- 12 | Exercise | | |
| | | | | Sept:- 13 | Reflection of light | | |
| | | | | Sept:- 14 | Image location by spherical mirror equation | | |
| | | | | Sept:- 15 | Refraction of light | | |

| Week | # of Working days | From--T0 | Chapter | Date | Topics | % | Review |
|---|---|---|---|---|---|---|---|
| # | | Sept: - 2022. | | | | | |
| 7 | 5 | 18 to 22 | **Geometrical Optics** | .Sept: 18 | Total internal reflection | 35% | |
| | | | | .Sept: 19 | Refraction through a prism | | |
| | | | | .Sept: 20 | Image location by lens equation | | |
| | | | | .Sept: 21 | Magnifying power and resolving power | | |
| | | | | .Sept: 22 | Compound microscope | | |

| Week | # of Working days | From--T0 | Chapter | Date | Topics | % | Review |
|---|---|---|---|---|---|---|---|
| # | | Sept: - 2022. | | | | | |
| 8 | 5 | 25 to 29 | **Geometrical Optics** | .Sept: 25 | Telescope | 41% | |
| | | | | .Sept: 26 | Defects in vision | | |
| | | | | .Sept: 27 | Exercise | | |
| | | | | .Sept: 28 | Exercise | | |
| | | | | .Sept: 29 | Exercise | | |

| Week | # of Working days | From--T0 | Chapter | Date | Topics | % | Review |
|---|---|---|---|---|---|---|---|
| # | | October-2022. | | | | | |
| 9 | 5 | 2 to 6 | **Electrostatics** | .Oct: - 2 | Electric charge | 47% | |
| | | | | .Oct: - 3 | Electrostatic induction | | |
| | | | | .Oct: - 4 | Electroscope | | |
| | | | | .Oct: - 5 | Coulomb's law | | |
| | | | | .Oct: - 6 | Electric field and its intensity | | |

| Week | # of Working days | From--T0 | Chapter | Date | Topics | % | Review |
|---|---|---|---|---|---|---|---|
| # | | October-2022. | | | | | |
| 10 | 5 | 9 to 13 | **Electrostatics** | .Oct: - 9 | Electrostatic potential | 53% | |
| | | | | .Oct: - 10 | Applications of electrostatic | | |
| | | | | .Oct: - 11 | Capacitors and capacitance | | |
| | | | | .Oct: - 12 | Different types of capacitors | | |
| | | | | .Oct: - 13 | Exercise | | |

| Week | # of Working days | From--T0 | Chapter | Date | Topics | % | Review |
|---|---|---|---|---|---|---|---|
| # | | October-2022. | | | | | |
| 11 | 5 | 16 to 20 | **Current Electricity** | .Oct: - 16 | Exercise | 58% | |
| | | | | .Oct: - 17 | Exercise | | |
| | | | | .Oct: - 18 | Electric current | | |
| | | | | .Oct: - 19 | Potential difference and emf | | |
| | | | | .Oct: - 20 | Ohm's law | | |

| Week | # of Working days | From--T0 | Chapter | Date | Topics | % | Review |
|---|---|---|---|---|---|---|---|
| # | | October-2022. | | | | | |
| 12 | 5 | 23 to 27 | **Current Electricity** | .Oct: - 23 | Resistance in series | 63% | |
| | | | | .Oct: - 24 | Resistance in parallel combinations | | |
| | | | | .Oct: - 25 | The I-V characteristics for ohmic and non ohmic conductors | | |
| | | | | .Oct: - 26 | Electrical power and Joule's law | | |
| | | | | .Oct: - 27 | Use of circuit components | | |

| Week | # of Working days | From--T0 | Chapter | Date | Topics | % | Review |
|---|---|---|---|---|---|---|---|
| # | | Oct/ Nov- 2022. | | | | | |
| 13 | 5 | 30 to 3 | **Current Electricity** | .Oct:- 30 | Measuring instruments (voltmeter, galvanometer, ammeter) | 68% | |
| | | | | .Oct:- 31 | Alternating current A.C ,Safety measures | | |
| | | | | .Nov:- 1 | Exercise | | |
| | | | | .Nov:- 2 | Exercise | | |
| | | | | .Nov:- 3 | Exercise | | |

| Week | # of Working days | From--T0 | Chapter | Date | Topics | % | Review |
|---|---|---|---|---|---|---|---|
| # | | Nov:- 2022. | | | | | |
| 14 | 5 | 6 to 10 | **Electromagnetism** | .Nov- 6 | Magnetic effect of a steady current | 73% | |
| | | | | .Nov- 7 | Force on a current carrying conductor in a magnetic field | | |
| | | | | .Nov- 8 | Turning effect on a current carrying coil in a magnetic field | | |
| | | | | .Nov- 9 | D.C motor ,Electromagnetic induction | | |
| | | | | .Nov- 10 | A.C generator | | |

| Week | # of Working days | From--T0 | Chapter | Date | Topics | % | Review |
|---|---|---|---|---|---|---|---|
| # | | Nov:- 2022. | | | | | |
| 15 | 5 | 13 to 17 | **Introductory Electronics** | .Nov: -13 | Mutual Induction, Transformer | 78% | |
| | | | | .Nov: -14 | Exercise | | |
| | | | | .Nov: -15 | Exercise | | |
| | | | | .Nov: -16 | Electron gun and cathode rays , | | |
| | | | | .Nov: -17 | Deflection of electron by electric field, Deflection of electron by magnetic field | | |

| Week | # of Working days | From--T0 | Chapter | Date | Topics | % | Review |
|---|---|---|---|---|---|---|---|
| # | | Nov:- 2022. | | | | | |
| 16 | 5 | 20 to 24 | **Introductory Electronics** | .Nov:- 20 | Cathode rays oscilloscope (CRO) | 80% | |
| | | | | .Nov:- 21 | Introduction to electronics ,Analogue and digital electronics | | |
| | | | | .Nov:- 22 | Logic gates | | |
| | | | | .Nov:- 23 | Exercise | | |
| | | | | .Nov:- 24 | Exercise | | |

| Week | # of Working days | From--T0 | Chapter | Date | Topics | % | Review |
|---|---|---|---|---|---|---|---|
| # | Nov / Dec:- 2022. | | | | | | |
| 17 | Nil | 27 to 1 | | .Nov:- 27 | Oman National Day- Holidays | | |
| | | | | .Nov:- 28 | | | |
| Sendup Examination - From November 29, 2022 to December 15, 2022 | | | | | | | |

| Week | # of Working days | From--T0 | Chapter | Date | Topics | % | Review |
|---|---|---|---|---|---|---|---|
| # | | Dec: - 2022. | | | | | |
| 18 | 5 | 18 to 22 | **Information and Communication Technology** | .Dec: -18 | Components of ICT, | 85% | |
| | | | | .Dec: -19 | Flow of information | | |
| | | | | .Dec: -20 | Communication technology | | |
| | | | | .Dec: -21 | Storing information | | |
| | | | | .Dec: -22 | Handling information | | |
| Winter Vacation from December 22 to January 5, 2023 | | | | | | | |
| Week | # of Working days | From--T0 | Chapter | Date | Topics | % | Review |
| # | | January- 2023. | | | | | |
| 19 | 5 | 8 to 12 | **Atomic and Nuclear Physics** | .Jan:- 8 | Atom and Atomic nucleus | 90% | |
| | | | | .Jan:- 9 | Natural radioactivity | | |
| | | | | .Jan:- 10 | Natural transmutations | | |
| | | | | .Jan:- 11 | Background radiation | | |
| | | | | .Jan:- 12 | Half life | | |
| | | | | | | | |
| Week | # of Working days | From--T0 | Chapter | Date | Topics | % | Review |
| # | | January- 2023. | | | | | |
| 20 | 5 | 15 to 19 | **Atomic and Nuclear Physics** | .Jan:- 15 | Radio isotopes | 100% | |
| | | | | .Jan:- 16 | Fission and fusion | | |
| | | | | .Jan:- 17 | Hazards and safety measures | | |
| | | | | .Jan:- 18 | Exercise | | |
| | | | | .Jan:- 19 | Exercise | | |
| Syllabus Completion till January 19, 2023 | | | | | | | |

| Week | # of Working days | From--T0 | Chapter | Date | Topics | % | Review |
|---|---|---|---|---|---|---|---|
| # | | January- 2023. | | | | | |
| 21 | 5 | 15 to 19 | | .Jan:- 22 | Revision | | |
| | | | | .Jan:- 23 | Revision | | |
| | | | | .Jan:- 24 | Revision | | |
| | | | | .Jan:- 25 | Revision | | |
| | | | | .Jan:- 26 | Revision | | |
| | | | | | | | |
| Week | # of Working days | From--T0 | Chapter | Date | Topics | % | Review |
| # | | Jan/ Feb- 2023. | | | | | |
| 22 | 5 | 29 to 02 | | .Jan:- 29 | Revision | | |
| | | | | .Jan:- 30 | Revision | | |
| | | | | .Jan:- 31 | Revision | | |
| | | | | .Feb:- 1 | Revision | | |
| | | | | .Feb:- 2 | Revision | | |
| | | | | | | | |
| Week | # of Working days | From--T0 | Chapter | Date | Topics | % | Review |
| # | | February- 2023. | | | | | |
| 23 | 5 | 5 to 9 | | .Feb:- 5 | Revision / Test Series | | |
| | | | | .Feb:- 6 | Revision / Test Series | | |
| | | | | .Feb:- 7 | Revision / Test Series | | |
| | | | | .Feb:- 8 | Revision / Test Series | | |
| | | | | .Feb:- 9 | Revision / Test Series | | |
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| Week | # of Working days | From--T0 | Chapter | Date | Topics | % | Review |
|---|---|---|---|---|---|---|---|
| # | | February- 2023. | | | | | |
| 24 | 5 | 12 to 16 | | .Feb:- 12 | Revision / Test Series | | |
| | | | | .Feb:- 13 | Revision / Test Series | | |
| | | | | .Feb:- 14 | Revision / Test Series | | |
| | | | | .Feb:- 15 | Revision / Test Series | | |
| | | | | .Feb:- 16 | Revision / Test Series | | |
| | | | | | | | |
| Week | # of Working days | From--T0 | Chapter | Date | Topics | % | Review |
| # | | February- 2023. | | | | | |
| 25 | 3 | 19 to 23 | | .Feb:- 19 | Revision / Test Series | | |
| | | | | .Feb:- 20 | Revision / Test Series | | |
| | | | | .Feb:- 21 | Revision / Test Series | | |
| | | | | .Feb:- 22 | Revision / Test Series | | |
| | | | | .Feb:- 23 | Revision / Test Series | | |
| | | | | | | | |
| Week | # of Working days | From--T0 | Chapter | Date | Topics | % | Review |
| # | | Feb/ Mar: - 2023. | | | | | |
| 26 | 5 | 26 to 2 | | .Feb:- 26 | Revision / Test Series | | |
| | | | | .Feb:- 27 | Revision / Test Series | | |
| | | | | .Feb:- 28 | Revision / Test Series | | |
| | | | | .March:- 1 | Revision / Test Series | | |
| | | | | .March:- 2 | Revision / Test Series | | |
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| Week | # of Working days | From--T0 | Chapter | Date | Topics | % | Review |
|---|---|---|---|---|---|---|---|
| # | | March: - 2023. | | | | | |
| 27 | 5 | 5 to 9 | | .March: - 5 | Revision / Test Series | | |
| | | | | .March: - 6 | Revision / Test Series | | |
| | | | | .March: - 7 | Revision / Test Series | | |
| | | | | .March: - 8 | Revision / Test Series | | |
| | | | | .March: - 9 | Revision / Test Series | | |
| | | | | | | | |
| Week | # of Working days | From--T0 | Chapter | Date | Topics | % | Review |
| # | | March: - 2023. | | | | | |
| 28 | 5 | 12 to 16 | | .March: - 12 | Revision / Test Series | | |
| | | | | .March: - 13 | Revision / Test Series | | |
| | | | | .March: - 14 | Revision / Test Series | | |
| | | | | .March: - 15 | Revision / Test Series | | |
| | | | | .March: - 16 | Revision / Test Series | | |
| | | | | | | | |
| Week | # of Working days | From--T0 | Chapter | Date | Topics | % | Review |
| # | | March: - 2023. | | | | | |
| 29 | 4 | 19 to 23 | | .March: - 19 | Revision / Test Series | | |
| | | | | .March: - 20 | Revision / Test Series | | |
| | | | | .March: - 21 | Revision / Test Series | | |
| | | | | .March: - 22 | Revision / Test Series | | |
| | | | | .March: - 23 | Pakistan Day- Holiday | | |
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| Week | # of Working days | From--T0 | Chapter | Date | Topics | % | Review |
|---|---|---|---|---|---|---|---|
| # | | March: - 2023. | | | | | |
| 30 | 5 | 26 to 30 | | .March: - 26 | Revision | | |
| | | | | .March: - 27 | Revision | | |
| | | | | .March: - 28 | Revision | | |
| | | | | .March: - 29 | Revision | | |
| | | | | .March: - 30 | Revision | | |
| Pre- Board- IX- X - April-2023 | | | | | | | |