

| <b>PHYSICS LECTURE PLAN : EKALAVYA COURSE NEET</b>                            |                                       |                |
|---|---------------------------------------|----------------|
| S.No.   | Topic                                 | No. of lecture |
| 1.  | Kinematics                            | 6              |
| 2.  | Newton's Law, Force and Friction      | 7              |
| 3.  | Circular motion, Work, Power & Energy | 8              |
| 4.  | Centre of mass, Momentum & Collision  | 7              |
| 5.  | Rotational Dynamics                   | 11             |
| 6.  | Simple Harmonic Motion                | 5              |
| 7.  | Electrostatics                        | 10             |
| 8.  | Gravitation                           | 4              |
| 9.  | Current Electricity                   | 6              |
| 10.   | Capacitance                           | 5              |
| 11.   | Magnetic Effect of Current            | 10             |
| 12.   | Electromagnetic Induction & AC        | 9              |
| 13.   | Mechanical Waves                      | 9              |
| 14.   | Geometrical Optics                    | 9              |
| 15.   | Electromagnetic Waves & Wave Optics   | 7              |
| 16.   | Modern Physics                        | 7              |
| 17.   | Fluid Mechanics                       | 9              |
| 18.   | Thermal Physics                       | 10             |
| 19.   | Semiconductor & Communication System  | 4              |
| 20.   | Errors in measurements & Instruments  | 1              |
| 21.   | Experiments & Instruments             | 1              |
| <b>INORGANIC &amp; PHYSICAL CHEMISTRY LECTURE PLAN : EKALAVYA COURSE NEET</b> |                                       |                |
| S.No.   | Topic                                 | No. of lecture |
| 1.  | Mole Concept                          | 6              |
| 2.  | Atomic Structure                      | 7              |
| 3.  | General chemistry and periodic table  | 4              |
| 4.  | Chemical Bonding                      | 20             |
| 5.  | Gaseous state                         | 9              |
| 6.  | Redox reactions                       | 4              |
| 7.  | Chemical Equilibrium                  | 3              |
| 8.  | Ionic Equilibrium                     | 8              |

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|-----|----------------------------------|----|
| 9.  | Thermodynamics & Thermochemistry | 14 |
| 10. | Chemical kinetics                | 8  |
| 11. | Electrochemistry                 | 10 |
| 12. | Liquid solution                  | 6  |
| 13. | Solid State                      | 6  |
| 14. | Surface Chemistry                | 6  |
| 15. | Coordination Compound            | 10 |
| 16. | Metallurgy                       | 5  |
| 17. | Types of reactions               | 8  |
| 18. | Types of reactions               | 8  |
| 19. | Block Chemistry                  | 16 |
| 20. | Environmental chemistry          | 2  |

**ORGANIC CHEMISTRY LECTURE PLAN : EKALAVYA COURSE NEET**

| S.No. | Topic                                | No. of lecture |
|-------|--------------------------------------|----------------|
| 1.    | IUPAC Naming                         | 6              |
| 2.    | General Organic Chemistry            | 15             |
| 3.    | Isomerism                            | 15             |
| 4.    | Hydrocarbon                          | 15             |
| 5.    | Alkyl halide & Alcohol, Ether        | 15             |
| 6.    | Grignard Reagent                     | 4              |
| 7.    | Oxidation & Reduction                | 3              |
| 8.    | Aldehyde, Ketone and Carboxylic acid | 7              |
| 9.    | Amines                               | 3              |
| 10.   | Biomolecules & Polymers              | 6              |
| 11.   | Aromatic Chemistry                   | 8              |
| 12.   | Chemistry in everyday life           | 4              |

**BIOLOGY (ZOOLOGY) LECTURE PLAN : EKALAVYA COURSE NEET**

| S.No. | Topic                                  | No. of lecture |
|-------|--|----------------|
| 1.    | Animal Kingdom                         | 18             |
| 2.    | Structural Organization of animals     | 10             |
| 3.    | Biomolecules                           | 8              |
| 4.    | Digestion & absorption                 | 10             |
| 5.    | Breathing & Exchange of gases          | 6              |
| 6.    | Body fluid & Circulation               | 9              |
| 7.    | Excretory products & their Elimination | 6              |
| 8.    | Locomotion & Movement                  | 9              |

|     |                                     |    |
|-----|-------------------------------------|----|
| 9.  | Neural control & Coordination       | 9  |
| 10. | Chemical Coordination & Integration | 8  |
| 11. | Human reproduction                  | 10 |
| 12. | Reproductive Health                 | 3  |
| 13. | Evolution                           | 11 |
| 14. | Human Health & Diseases             | 10 |
| 15. | Biotechnology Principle             | 5  |
| 16. | Biotech Application                 | 5  |
| 18. | Cockroach                           | 2  |
| 20. | Eyes                                | 2  |
| 21. | Ear                                 | 1  |

**BIOLOGY (BOTANY) LECTURE PLAN : EKALAVYA COURSE NEET**

| S.No. | Topic                                  | No. of lecture |
|-------|--|----------------|
| 1.    | The Living World                       | 4              |
| 2.    | Biological Classification              | 8              |
| 3.    | Plant Kingdom                          | 7              |
| 4.    | Morphology of Flowering Plant          | 8              |
| 5.    | Anatomy of Flowering Plant             | 8              |
| 6.    | The Unit of Life                       | 8              |
| 7.    | Cell Cycle & Cell Division             | 3              |
| 8.    | Transport in Plants                    | 8              |
| 9.    | Mineral Nutrition                      | 3              |
| 10.   | Photosynthesis in Plants               | 9              |
| 11.   | Respiration                            | 5              |
| 12.   | Plant Growth & Development             | 6              |
| 13.   | Reproduction in organisms              | 3              |
| 14.   | Sexual Reproduction in flowering plant | 7              |
| 15.   | Principles of inheritance & variations | 13             |
| 16.   | Molecular basis of inheritance         | 10             |
| 17.   | Strategies for Enhancement in food     | 2              |
| 18.   | Microbes in Human Welfare              | 3              |
| 19.   | Organisms & Population                 | 7              |
| 20.   | Ecosystem                              | 4              |
| 21.   | Biodiversity & Conservation            | 2              |
| 22.   | Environmental Issues                   | 2              |