| Textbook | Unit/Section | Topic | Modules |
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| ***Chapter 18*** | **The Chemistry of Carbon Compounds** | ***Structure and Formulae*** | Nature of Carbon<br>Homologous series<br>Types of Formulae<br>Determining formulae<br>Naming organic compouunds<br>Isomerism |
| **Chapter 19** | | ***Functional Group Analysis, Reactions and Mechanisms*** | Alkanes<br>Alkenes<br>Alcohols<br>Halogenoalkanes<br>Carbonyl Compounds<br>Carboxylic Acids<br>Esters<br>Amines<br>Aromatic Compounds<br>Azo Compounds |
| **Chapter 20** | | ***Acidic and Basic Character of Organic Compounds*** | Acidity of alcohols, phenols and carboxylic acids<br>Basicity of aliphatic amines, amides and aromatic amines<br>Acid-base properties of amino acids |
| **Chapter 21** | | ***Macromolecules*** | Addition polymerisation<br>Condensation polymerisation<br>Monomers and Polymers<br>Proteins<br>Carbohydrates |

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| **Chapter 22** | **Analytical Methods and Separation Techniques** | ***Uncertainty in Measurements*** | Analysis of scientific data<br>Accuracy in measurements and laboratory equipment |
| **Chapter 3** | **Analytical Methods and Separation Techniques** | ***Titrimetric Methods of Analysis*** | Principles of titrations<br>Primary standards<br>Types of titrations<br>Calculations using titrimetric data<br>Uses of titrimetric analysis |