



INTERNATIONAL PUBLIC SCHOOL

Affiliated to Central Board of Secondary Education, Delhi. (Aff. No. : 1030204)

SYLLABUS BIFURCATION OF Class XI (Science)



**For
Monthly
Weekly
Co-scholastic Syllabi**
Please visit <http://www.ipsbhupal.com>

Contact Address:
Misrod, Mandideep Road, Bhopal

Phone:
School Reception : +91755-4221229

Email:
principal@ipsbhupal.com



Session 2025-26

English Syllabus

| MONTH | CONTENT | ACTIVITIES (MSA/SEA) | ASSESSMENTS |
|----------------|--|-------------------------|--|
| TERM- I | | | |
| March | 1. Introduction of the Syllabus Writing Skill - Poster | | PA-I 1. The Portrait of a Lady (Hornbill) 2. Poem: A photograph (H) Writing Skills: Poster |
| April | 1. The Portrait of a Lady (Hornbill) 2. Poem: A photograph (H) 3. The Summer of a Beautiful White Horse (Snapshots) • English Project as Holiday Homework | | |
| June | 4. We are Not Afraid to Die (H) Writing Skills: Debate | | Half Yearly Exams 1. The portrait of a Lady 2. Poem: The Laburnum Top 3. The Summer of a Beautiful White Horse (Snapshots) 4. We're Not Afraid to Die (H) 5. Poem: The Laburnum Top (H) 6. The Address (S) 7. Discovering Tut (H) 8. Mother's Day (S) 9. Poem: Voice of the Rain (H) Writing Skills: |
| July | 5. Poem: The Laburnum Top 6. The Address (S). Reading Skills: Note Making | | |
| August | 7. Discovering Tut (H) 8. Mother's Day (S) 9. Poem: Voice of the Rain • ASL | | |
| September | Revision for Half Yearly Exams | | |

Mathematics Syllabus

| MONTH | CONTENT | ACTIVITIES AND PRACTICALS | ASSESSMENTS |
|-----------|--|---------------------------|---|
| TERM- I | | | |
| March | Sets, Relations and Functions, Trigonometric Functions | Activity 1 | PA-I 1.Sets 2.Relations and Functions |
| April | Complex Numbers and Linear Inequalities | Activity 2 | |
| May | Permutations and Combinations | Activity 3 | |
| June | Binomial Theorem and Sequences and Series | Activity 4 | Half Yearly Examination Syllabus |
| July | Straight lines and Conic Sections | Activity 5 | 1.Trigonometric Functions 2.Complex Numbers |
| August | Introduction to Three Dimensional Geometry | Activity 6 | 3. Linear Inequalities 4.Permutations and Combinations |
| September | Revision and Half Yearly Exam | | 5.Binomial Theorem 6. Sequences and Series 7.Straight lines 8.Conic Sections |
| TERM-II | | | |
| October | Introduction to Three Dimensional Geometry and Limits | Activity 7 | |
| November | Derivatives and Statistics | Activity 8 | |
| December | Probability | Activities 9 and 10 | Annual Syllabus |
| January | Revision | | 1.Trigonometric Functions 2.Complex Numbers 3. Linear Inequalities |
| February | Revision & Annual Exam | | 4.Permutations and Combinations 5. Sequences and Series 6.Straight lines 7.Conic Sections 8.Limits and Derivatives 9.Probability |

English Syllabus

| | | | |
|----------------|--|--|---|
| | | | <ul style="list-style-type: none"> • Poster • Debate • Reading Skills: Note Making |
| TERM-II | | | |
| October | 10. The Adventure (H) Grammar: Integrated Rearrange the words Sentence Transformation Fill in the blanks with Correct Modals Writing Skills: Advertisements | | PA-II 1. The Adventure (H) 2. Poem: Childhood • Integrated Grammar • Writing Skills: Advertisements |
| November | 11. Birth (S) 12. Poem: Childhood (H) Writing Skills: Speech Submission of English Project Work | | |
| December | 13. Silk Road (H) Reading Skills: Note Making 14. Poem: Father to Son (H) | | Annual Exams Chapters:1 to 15 • Writing Skills • Integrated Grammar • Reading Skills (100% Syllabus) |
| January | 15. The Tale of Melon City (S) REVISION | | |
| February | Annual Exams | | |

Physics Syllabus

| MONTH | CONTENT | ACTIVITIES (MA/SEA) | ASSESSMENTS |
|-----------|---|---|--|
| TERM- I | | | |
| March | | | PA-I 1. Unit and measurement 2. Motion in a straight line 3. Motion in a plane |
| April | 1. Unit and measurement 2. Motion in a straight line. 3. Motion in a plane (continued) | 1.To measure internal diameter and depth of a given beaker/calorimeter using Vernier Callipers and hence find its volume. 2. To measure diameter of a given wire and thickness of a given sheet using screw gauge. | |
| June | Motion in a plane (continued) | | |
| July | 1. Motion in a plane 2. Law of motion | 1. To find the weight of a given body using parallelogram law of vectors. 2. Using a simple pendulum, plot its L-T ² graph and use it to find the effective length of second's pendulum. | Half Yearly 1. Unit and measurement 2.Motion in a straight line 3. Motion in a plane 4.Laws of motion 5.Work energy and power |
| August | Work energy and power | | |
| September | Revision & Half Yearly Exam | | |
| TERM-II | | | |
| September | Gravitation (contiued) | | PA-II 1. Gravitation 2. Mechanical properties of solids |
| October | Gravitation Mechanical properties of solids (continue..) | To find the force constant of a helical spring by plotting a graph between load and extension. | |
| November | Mechanical properties of solids Mechanical properties of fluids(continue..) | | |
| December | Mechanical properties of fluids Thermal properties of matter Thermodynamics Oscillation (contd...) | To determine the surface tension of water by capillary rise method. To study the relationship between the temperature of a hot body and time by plotting a cooling curve. | Annual 1.Unit and measurement 2.Motion in a straight line 3. Motion in a plane 4.Laws of motion 5.Work energy and power 6.Gravitation 7.Mechanical properties of solids 8.Mechanical properties of fluids 9.Thermal properties of matter 10. Thermodynamics 11.Oscillation 12. waves |
| January | Oscillation Wave REVISION | To study the relation between the length of a given wire and tension for constant frequency using sonometer. | |
| February | Revision & Annual Exam | | |

Painting Syllabus

| MONTH | CONTENT | PRACTICALS/ PROJECT/AIP | ASSESSMENTS |
|--|--|---|---|
| March April (PA-I) | Unit – 1,Pre-Historic rock paintings and art of Indus Valley | Still life Folk art | PA-I (10% of the Entire Syllabus) Unit – 1, Still life- 2 Folk Art - 2 |
| June July August September | Unit- 2,Buddhist, Jain and Hindu Art Ajanta Painting Unit – 3, Temple Sculptures | Still life Folk art | |
| | | | Half Yearly (50% of the Entire Syllabus) Unit – 1,2, Still life – 1 Landscape -2 |
| | | | PA-II (70% of the Entire Syllabus) Unit – 1,2,3, Nature - 1 Composition -2 |
| October November December January | Unit – 3 ,Bronzes and Artistic aspects of Indo-Islamic architecture | Human Composition Geometric art /Landscape | Annual Exam (100% of the Entire Syllabus) Unit – 1,2,3 Geometric composition -1 Modern Art -1 |
| | | | Prelim-II (100% of the Entire Syllabus) Unit – 1,2,3 |

Hindusthani Music Vocal

| MONTH | CONTENT | PRACTICALS/ PROJECT/ AIP | ASSESSMENTS |
|-----------|---|--------------------------|--|
| April | अलंकार | | |
| June | अलंकार, राग भैरवी, | | |
| July | राग भैरवी, एकताल, नोटेशन राईटिंग, जीवनी | | PA-I (10% of the Entire Syllabus) |
| August | राग बिहाग, नाट्यशास्त्र, जीवनी, ध्रुपद, ख़याल, तराना, | | |
| September | राग बिहाग, तराना, तानपुरे की जानकारी | PRACTICALS | Half Yearly (50% of the Entire Syllabus) |
| October | ध्रुपद, ताल दादरा, राग भीमपलासी, जीवनी | | |
| November | तराना, ताल केहरवा, ताल चौताल, | | PA-II (70% of the Entire Syllabus) |
| December | राग जौनपुरी, भजन, लोकगीत | | |
| January | रिविजन | PRACTICALS | Annual Exam (100% of the Entire Syllabus) |

Web Application Syllabus

| MONTH | CONTENT | ACTIVITIES (MSA/SEA) | ASSESSMENTS |
|----------------|--|---|--|
| TERM- I | | | |
| | | | PA-I PART A |
| April | PART A Unit 1 : Communication Skills-III | | Unit 1 : Communication Skills-III Unit 2 : Self-Management Skills-III |
| June | Unit 2 : Self- Management Skills- III | | Half Yearly PART A Unit 1 : Communication Skills-III Unit 2 : Self-Management Skills-III |
| July | PART-B Chapter1: Basics of Networking Chapter 2: Website Building Using HTML and CSS | <ul style="list-style-type: none"> Identification of network devices Identification of types of networks in school and other offices. Creating Web pages with insertion of images, Lists and Tables | PART-B Chapter1: Basics of Networking Chapter 2: Website Building Using HTML and CSS |
| August | Chapter 2: Website Building Using HTML and CSS Continue..... | <ul style="list-style-type: none"> Creating Web pages with insertion Audios and Videos Using CSS in simple Web pages Create website using CSS | |
| September | Revision Unit 3: ICT Skills-III | | |
| TERM-II | | | |
| October | Unit 3: ICT Skills- III Unit 4: Entrepreneurial Skills-III Unit 5: Green Skills- III | | PA-II Unit 3: ICT Skills-III Unit 4: Entrepreneurial Skills- III |
| November | Chapter 3: Multimedia Design Using GIMP | Creating layers, rearranging layers <ul style="list-style-type: none"> Using Layers to merge and create new images Make a brochure, advertisement, e-invite, poster, birthday card etc using GIMP and its tools. | |
| December | Chapter 4: JavaScript Part 1 | <ul style="list-style-type: none"> Draw Smart art of data types and variables Writing simple programs using operators, inbuilt functions iterative statements, conditional statements in JavaScript Create program using for loop, while loop and break & continue | Annual PART A Unit 1 : Communication Skills-III Unit 2 : Self-Management Skills-III Unit 3: ICT Skills-III Unit 4: Entrepreneurial Skills- III Unit 5: Green Skills-III |
| January | Revision | | PART-B Chapter1: Basics of Networking Chapter 2: Website Building Using HTML and CSS Chapter 3: Multimedia Design Using GIMP Chapter 4: JavaScript Part 1 |
| February | | | |

Physical Education Syllabus

| MONTH | CONTENT | ASSESSMENTS |
|-----------|---|---|
| March | - | |
| April | Unit 1: changing trends and career in physical education | |
| June | Unit 2: Olympic Movement | P A I Unit 1- changing trends and career in physical education Unit 2- Olympic Movement Half Yearly |
| July | Unit 5: Physical Fitness and wellness Unit 4: Physical education and Sports for CWSN. | Unit I:- changing trends and career in physical education Unit 2:- Olympic Movement Unit 3:- Yoga UNIT 4:- Physical education and Sports for CWSN. |
| August | Unit 6: Test and Measurement Unit 3: Yoga | Unit 5:- Physical Fitness and wellness Unit 6:- Test and Measurement |
| September | | |
| October | Unit 10:- Training and Doping in Sports. | PA II Unit 9:- Psychology and sports. |
| November | Unit 9:- Psychology and Sports | Unit 10:- Training and doping in sports. |
| December | Unit 7:- Fundamentals of Anatomy and physiology Unit 8:- Kinesiology and Biomechanics in sports. | Annual Examination |
| January | Unit 8:- Kinesiology and Biomechanics in Sports | |

Tourism Syllabus

| MONTH | CONTENT | ACTIVITIES (MA/SEA) | ASSESSMENTS |
|-----------|---|------------------------|---|
| TERM- I | | | |
| March | | | PA-I |
| April | Subject Specific Skills- Unit -1 Introduction to Tourism Employability Skills- Unit -1 Communication | Practical | Unit -1 Introduction to Tourism Unit- 2 Tourism: A Historical Account |
| June | Subject Specific Skills- Unit 2- Tourism: A Historical Account Unit 3- Tourism Concepts | Practical | Half Yearly Subject Specific Skill- Unit 1 to 4 |
| July | Employability Skills- Unit 2- Self Management Unit-3 ITC Subject Specific Skills- Unit 4- Tourism Components -I | SEA-I | Employability Skills- Unit 1 to 3 |
| August | Subject Specific Skills- Unit -5 Tourism Components -II | Practical | |
| September | Revision & Half Yearly Exam | | |
| TERM-II | | | |
| September | Subject Specific Skills- Unit -6 Interlinkage Between Tourism and Geography Industry | | PA-II |
| October | Subject Specific Skills- Unit -7 Interlinkage Between History and Tourism Industry Employability Skills- Unit 4- Entrepreneurship | Practical | Subject Specific Skills- Unit 5 and 6 |
| November | Subject Specific Skills- Unit -8 Tourism Organisation and Trends Employability Skills- Unit-5 Green Skills | Practical | |
| December | Employability Skills- Unit-5 Green Skills | Practical | Annual Subject Specific Skills- |
| January | Revision | | Unit 1 to 8 |
| February | Revision & Annual Exam | | Employability Skills- Unit 1 to 5 Practical |

Yoga Syllabus

| | | | |
|----------------|--|--|-------------|
| | | <ul style="list-style-type: none"> ○ Kinesthetic learning, ○ Game-based learning and ○ Expeditionary learning | |
| September | UNIT 3— Yoga for health promotion - I Brief introduction to human body Role of yoga for health promotion | <ul style="list-style-type: none"> ○ Lecture-based instruction, ○ Technology-based learning, ○ Group learning, ○ Individual learning, ○ Inquiry-based learning, ○ Kinesthetic learning, ○ Game-based learning ○ and ○ Expeditionary learn | |
| TERM-II | | | |
| October | Yogic attitudes and practices Holistic approach of yoga towards the health and diseases | <ul style="list-style-type: none"> ○ Lecture-based instruction, ○ Technology-based learning, ○ Group learning, ○ Individual learning, ○ Inquiry-based learning, | PA-II |
| November | Introduction to yoga diet and its relevance and importance in yoga Sadhana Dincharya and Ritucharya with respect of yogic Lifestyle | <ul style="list-style-type: none"> ○ Lecture-based instruction ○ Group learning ○ Inquiry-based learning, | |
| December | PRACTICAL WORK "Vishvas Yoga Practical and Project Workbook" | <ul style="list-style-type: none"> ○ Lecture-based instruction ○ Group learning ○ Inquiry-based learning, | Annual Exam |
| January | Demonstration of Skill Competency is published by Vishvas Publication available separately | <ul style="list-style-type: none"> ○ instruction ○ Group learning ○ Inquiry-based learning, | |
| February | | | |

Yoga Syllabus

| MONTH | CONTENT | ACTIVITIES (MSA/SEA) | ASSESSMENTS |
|----------------|--|---|-------------|
| TERM- 1 | | | |
| March | Unit 1 – Introduction to Yoga and Yogic Practices—1 Yoga Etymology, definition, Aim, objective and misconception text. | <ul style="list-style-type: none"> ○ Lecture-based instruction, ○ Technology-based learning, ○ Group learning, | PA-I |
| April | Yoga origin, history and development Rules and regulations to be followed by yoga practitioners | <ul style="list-style-type: none"> ○ Lecture-based instruction, ○ Individual learning, ○ Group learning, | |
| June | Introduction to Major schools of Yoga (Janan -Yoga, Bhakti-Yoga, Karma, Patanjali, Hatha Introduction to yogic practices (Sukshama Vyayama, Surya Namaskar and Asanas) -I | <ul style="list-style-type: none"> ○ Lecture-based instruction, ○ Group learning, | Half Yearly |
| July | UNIT 2— INTRODUCTION TO YOGA TEXTS — I Introduction and study of Patanjali Yoga Sutra including memorization of selected Sutra Introduction and study of Bhagavad Gita including memorization of selected Slokas | <ul style="list-style-type: none"> ○ Lecture-based instruction, ○ Technology-based learning, ○ Group learning, ○ Individual learning, ○ Inquiry-based learning, ○ Kinesthetic learning, ○ Game-based learning ○ Expeditionary learning. | |
| August | Introduction of Hatha Pradipika Introduction and study of Gheranda Samhita.. | <ul style="list-style-type: none"> ○ Lecture-based instruction, ○ Technology-based learning, ○ Group learning, ○ Individual learning, ○ Inquiry-based learning, | |

Psychology Syllabus

| MONTH | CONTENT | PRACTICALS/ PROJECT | ASSESSMENTS |
|-----------|---|---|---|
| March | | | PA-I Chapter-1- What is psychology? Chapter-5- Learning |
| April | Chapter-1- What is psychology? | Life skills activity | |
| June | Chapter-5- Learning | How parents and teachers reinforce child's behaviour? Interview and observe | |
| July | Chapter-3- Human development | Write how you solve your confrontations with your parents | Half Yearly Chapter-1- What is psychology? Chapter-3- Human development Chapter-4- Attentional and perceptual processes Chapter-5- Learning |
| August | Chapter-4- Attentional and perceptual processes | Activity on selective and sustained attention | |
| September | REVISION | | |
| October | Chapter-2- Methods of enquiry in psychology | Small scale research | |
| November | Chapter-6- Human memory | Experiment on forgetting due to interference | PA-II Chapter-2-Methods of enquiry in psychology Chapter-6- Human memory |
| December | Chapter-7- Thinking | Creativity test | |
| January | Chapter-8- Motivation and emotion | Role plays on emotional expressions | |

Computer Science Syllabus

| MONTH | CONTENT | ACTIVITIES /PRACTICAL | ASSESSMENTS |
|----------------|---|--|---|
| TERM- I | | | |
| March | - | - | |
| April | Unit 1 Chap 1: Computer System Organization Chap 2:Data Representation & Boolean logic | 1.Number system conversion problem 2. Draw Circuit Diagram | |
| June | Unit 2 Chap 3: Getting Started with Python Programming Chap 4: Python programming fundamental | Practical 1. drawing algorithm & flowchart 2. Problem solving using arithmetic operations, conditional statements with the help of a python program. | |
| July | Unit 2 Chap 5: Conditional & looping Constructs | Practical 1. Iteration program | |
| August | Unit 2 Chap 6: string in python | Practical 1. To print the words starting with a alphabet in a user entered string. | |
| September | Revision & Half Yearly Exam | Practical Exam | Half Yearly Unit 1 1,2 Unit 2 Chap 3 to 6 |

Biology Syllabus

| | | | |
|----------------|---|--|--|
| | Chapter 13: Photosynthesis in Higher Plants C4 Pathway and Photorespiration, Factors affecting Photosynthesis | | Chapter 13 |
| September | REVISION & HALF YEARLY EXAM | Practical Exam | |
| TERM-II | | | |
| September | Chapter 14: Respiration in Plants Electron Transport System, Respiratory Balance Sheet Chapter 15: Plant Growth and Development Phases of Growth, Condition for Growth Plant Growth Regulators, Photoperiodism, Vernalization. | <ul style="list-style-type: none"> Study of the rate of respiration Study of distribution of stomata in the upper and lower surface of leaves. | PA-II UNIT IV Chapter 14 and 15 |
| October | Chapter 16: Digestion and Absorption Digestion of food UNIT-V Chapter 17: Breathing and Exchange of Gases Exchange of gases To Be Continued... | <ul style="list-style-type: none"> Test for the presence of sugar, starch, proteins and fats Study of human skeleton and different types of joints | |
| November | Chapter 18: Body Fluids and Circulation Cardiac Cycle, Electrocardiograph Chapter 19: Excretory Products and their elimination Regulation of Kidney Function Regulation of Kidney Function continue.... | | |
| December | Chapter 20: Locomotion and Movement Mechanism of muscle contraction. Skeletal system. Chapter 21: Neural Control and Coordination Nervous system and conduction of nerve impulse. | | |
| January | Human eye and ear. Chapter 22: Chemical Coordination And Integration Human Endocrine System Mechanism of Hormone Action | | |
| February | Revision & Annual Exam | Revision | ANNUAL EXAM UNIT I TO V Chapter 1 to 22 |

Biology Syllabus

| MONTH | CONTENT | ACTIVITIES /PRACTICAL | ASSESSMENTS |
|----------------|---|--|---|
| TERM- I | | | |
| March | - | - | |
| April | UNIT-I Chapter 1: The Living World Chapter 2: Biological Classification Chapter 3: Plant Kingdom Chapter 4: Animal Kingdom | <ul style="list-style-type: none"> •Identification of plants •Study of plant family •Study of Animal Kingdom | |
| June | UNIT -II Chapter 5: Morphology of Flowering Plants Description of Plant family Chapter 6: Anatomy of Flowering Plants Tissue System, Secondary Growth | <ul style="list-style-type: none"> •Study of tissues and diversity in shapes and sizes of plant and animal cells •Study and identification of different types of inflorescence. •Preparation and study of T.S. of dicot and monocot roots and stems (primary). •Study of different modifications in roots, stems and leaves. | |
| July | Chapter 7: Structural Organization in Animals Animal Tissue, Cockroach UNIT-III Chapter 8: Cell: The Unit of Life Cell Theory, Cell Organelles Chapter 9: Introduction to Biomolecules Structure of Proteins, Enzymes, Nomenclature Of enzyme | <ul style="list-style-type: none"> • Study the external morphology of cockroach • Study of osmosis by potato osmometer. • Study of plasmolysis in epidermal peels (e.g Rhoeo Leaves). | PA-I Unit 1 Chapter 1 to 4 |
| August | Chapter 10: Cell Cycle and Cell Division Chapter 11: Transport in Plants Translocation of Mineral Ions Chapter 12: Mineral Nutrition Metabolism of Nitrogen UNIT-IV | <ul style="list-style-type: none"> • Study of mitosis in onion root tip cells • Study of the rate of transpiration. • Separation of plant pigments through paper chromatography | Half Yearly UNIT I Chapter 1 to 4 UNIT II Chapter 5 to 7 UNIT III Chapter 8 to 12 UNIT IV |

Computer Science Syllabus

| TERM-II | | | |
|-----------|--|---|---|
| September | Unit 2: Chap 7: List in python | Practical 1. Create a list storing information of student 2. Program related to all operation of list | PA-II Unit 2: Chap 7 & 8 |
| October | Unit 2: Chap 8: Tuple & Dictionary | Create a dictionary to store names of states and their capitals. Create a dictionary of students to store names and marks obtained in 5 subjects. To print the highest and lowest values in the dictionary. | |
| November | Unit 2: Chap 9: Introduction to python Module Unit 3: Chap 10: Society Laws & Ethics | Program based on importing different modules in python . | |
| December | Unit 3: Chap 11: Cyber safety | Practical File | ANNUAL EXAM Unit 1 Chap 1 & 2 Unit 2 Chap 3 to 9 Unit 3: Chap 10 & 11 |
| January | Revision | Practical File | |
| February | Revision & Annual Exam | REVISION | |

Chemistry Syllabus

| MONTH | CONTENT | ACTIVITIES (MSA/SEA/ PRACTICALS/ PROJECT) | ASSESSMENTS |
|--------|---|---|--|
| March | | | PA-I |
| April | Unit I Some basics concepts of chemistry | HOLIDAY HOMEWORK Completion of Practical Record | Unit I : Some basics concepts of chemistry |
| June | Unit I Some basics concepts of chemistry | | Half Yearly |
| July | Unit II Structure of atom : | Titration: Acid –Base NaOH vs Oxalic acid | Unit I Some basics concepts of chemistry Unit II |
| August | Unit III Classification of elements and periodicity in properties. Unit IV Chemical Bonding and Molecular structure | Titration: Acid –Base NaOH vs Oxalic acid Salt Analysis: Detection of anions and cations. | Structure of atom Unit III Classification of elements and periodicity in properties. Unit IV Chemical Bonding and Molecular structure |

Chemistry Syllabus

| | | | |
|-----------|--|---|---|
| September | Unit VIII Organic chemistry: Some basic Principles and Techniques. | | Unit VIII Organic chemistry: Some basic Principles and Techniques. |
| October | Unit VIII Organic chemistry: Some basic Principles and Techniques. | Salt Analysis: Detection of anions and cations. | PA II Unit VIII Organic chemistry: Some basic Principles and Techniques |
| November | Unit – VII Redox reactions. Unit – V Thermodynamics. | Salt Analysis: Detection of anions and cations. | |
| December | Unit VI Equilibrium .Equilibrium in physical and chemical processes | Salt Analysis: Detection of anions and cations. | |
| January | .Unit -IX Hydrocarbons. | Salt Analysis: Detection of anions and cations. | Annual Exam Unit -I to Unit -IX Complete Syllabus |