

SUBJECT: COMMUNICATIVE ENGLISH

SUBJECT CODE: 101

| Month | Literature Reader | Main Course Book | Reading, Grammar & Advanced Writing Skills | Activities/Projects |
|-------|---|---|---|--|
| APRIL | PROSE 1. Two Gentlemen of Verona POETRY 1. The Frog and the Nightingale | UNIT - 1 Health and Medicine Writing Skills - Laughter is the best Medicine. | 1. Tenses and it's kinds, usage 2. Modals WRITING SKILLS: Email to school authorities (Application for leave/ change of subject/change of section/ bus-timings or similar topics) in maximum 50 words. | Demonstrative Knowledge + Understanding (Knowledge based simple recall questions, to know specific facts, terms, concepts, principles or theories, identify, define etc. |
| MAY | PROSE 2 Mrs. Packletide's Tiger | UNIT - 2 Education | Subject - Verb Concord WRITING SKILLS: Factual Description of a person/object in maximum 100 words | Comprehension ☑ to be familiar with meaning and to understand conceptually, interpret, compare, contrast, explain, paraphrase information) |
| JUNE | POETRY 2. Not Marble nor the Gilded Monuments (Poem) PROSE 3. The Letter | UNIT - 3 Science | Use of Passive Voice Reported Speech:- *Commands and requests *Statements *Questions WRITING SKILLS: Formal letters, in maximum 120 words, thematically aligned to topics in MCB. | |
| JULY | PROSE 3. The Letter POETRY 3. Ozymandias | UNIT - 3 Science (Contd..) | Clauses: Noun clauses Adverb clauses Relative clauses | Conceptual Application (Use abstract information in concrete situation, to apply knowledge to new situations; |

| Month | Literature Reader | Main Course Book | Reading, Grammar & Advanced Writing Skills | Activities/Projects |
|-----------|--|--------------------------------|--|--|
| | <p>DRAMA1.</p> <p>The Dear Departed</p> | | <p>WRITING SKILLS:</p> <p>Articles based on verbal cues, in maximum 150 words, thematically aligned to MCB topics.</p> | <p>use given content to interpret a situation, provide an example or solve a problem)</p> |
| AUGUST | The Dear Departed (Contd..) | UNIT - 4 Environment | Determiners | |
| SEPTEMBER | FIRST TERMINAL EXAMINATION | | | |
| OCTOBER | <p>PROSE:</p> <p>4. A Shady Plot</p> <p>5. Patol Babu</p> <p>POETRY:</p> <p>4. The Rime of Ancient Mariner</p> | UNIT 5 Travel and Tourism | <p>Integrated Grammar exercises:</p> <p>*Gap filling</p> <p>*Editing or Omission</p> | <p>Classroom interaction among peers, students and teachers through activities such as role play, group work etc.</p> <p>To make evaluation a true index of learners' attainment, each language skill is to be assessed through a judicious mixture of different types of questions.</p> |
| NOVEMBER | <p>PROSE:</p> <p>6. Virtually True</p> <p>POETRY:</p> <p>5. Snake</p> <p>DRAMA:</p> <p>2. Julius Caesar</p> | UNIT 6 National Integration | <p>Integrated Grammar exercises based on the topics of Grammar:</p> <p>*Sentences Reordering</p> <p>*Sentence Transformation</p> | <p>Take up questions for discussion to encourage pupils to participate and to marshal their ideas and express and defend their views. Besides measuring attainments, texts serve the dual purpose of diagnosing mistakes and areas of non-learning.</p> |

| Month | Literature Reader | Main Course Book | Reading, Grammar & Advanced Writing Skills | Activities/Projects |
|----------|--------------------|------------------|--|---|
| DECEMBER | REVISION | REVISION | REVISION | Reading for comprehension, critical evaluation, inference and analysis are skills to be tested. |
| JANUARY | REVISION | REVISION | REVISION | REVISION |
| FEBRUARY | REVISION | REVISION | REVISION | REVISION |
| MARCH | ANNUAL EXAMINATION | | | |

BLUE PRINT OF QUESTION PAPER

| SECTION | QUESTION TYPE | TOTAL NUMBER OF QUESTIONS | MARKS PER QUESTION | TOTAL MARKS |
|------------|--|---|--------------------|-------------|
| Section A | Reading Skills (Two unseen passage) | 2 unseen passages with 10 sub./MCQ based questions each | 12+10 | 22 marks |
| Section: B | Writing Skills (Two Short composition and two long composition) | Email (formal) Factual Description Formal letter Article = 4 questions | 3+4+7+8 | 22 marks |
| Section: C | Grammar | Gap filling Editing or Omission Sentences Reordering or Sentence Transformation in context = 3 questions | 3+4+3 | 10 marks |

| SECTION | QUESTION TYPE | TOTAL NUMBER OF QUESTIONS | MARKS PER QUESTION | TOTAL MARKS |
|------------|---------------|---|------------------------------------|-------------|
| Section: D | Literature | 2 Reference to context questions 5 Short answer type questions 1 Long answer type question = 3 questions | 4+4=8 5x2=10 8 marks | 26 marks |
| | | OVERALL = 10 Questions | | TOTAL = 80 |

हिंदी

TERM - I

| Month | Chapters |
|-------------------------|---|
| APRIL | सूरदास के पद, नेताजी का चश्मा (क्षितिज भाग2-) अलंकार, अनुच्छेद लेखन (व्याकरण) |
| MAY | माता का अंचल (कृतिका भाग2-) वाच्य, पत्र -लेखन (व्याकरण) |
| JUNE | आत्मकथ्य, बालगोबिन भगत (क्षितिज भाग2-) |
| JULY | उत्साह, अट नहीं रही, लखनवी अंदाज (क्षितिज भाग2-) पद- परिचय, वाक्य- भेद (रचना के आधार पर), संदेश- लेखन (व्याकरण) |
| AUGUST | साना-साना हाथ जोड़ी (कृतिका भाग2-) विज्ञापन लेखन, स्ववृत्त-लेखन, ईमेल-लेखन |
| SEPTEMBER | Revision and Term- I Exam |
| For internal assessment | 1) कक्षा में सस्वर कविता वाचन (सूरदास के पद) 2) भक्ति काल के पांच कवियों का सचित्र जीवन परिचय, कार्य क्षेत्र तथा उनकी प्रमुख रचनाओं का उल्लेख करते हुए कम से कम प्रत्येक की एक रचना (पद) सुंदर अक्षरों में लिखकर आकर्षक परियोजना कार्य तैयार करें। |

TERM- II

| | |
|-------------------------|--|
| OCTOBER | राम- लक्ष्मण- परशुराम संवाद, एक कहानी यह भी (क्षितिज भाग2-) |
| NOVEMBER | यह दंतुरित मुस्कान, फसल, संस्कृति, संगतकार (क्षितिज भाग2-) |
| DECEMBER | मैं क्यों लिखता हूँ? (कृतिका भाग2-) Revision for Pre-board Exam |
| For internal assessment | 1) 'हिन्दी भाषा और रोजगार' विषय पर आलेख लिखकर कक्षा में भाषण के रूप में प्रस्तुत करें। 2) समूह बनाकर समसामयिक मुद्दों पर कक्षा में नाटक प्रस्तुतिकरणा (शिक्षक अपनी पसंद का कोई भी विषय दे सकते हैं) |

BLUE PRINT OF QUESTION PAPER

| विषय वस्तु | उप भार | कुल भार (100) |
|---|---------|---------------|
| खंड अ बहुविकल्पीय प्रश्न | | |
| एक अपठित गद्यांश विकल्प के बिना (पांच प्रश्न) | 1 X 5=5 | 10 |
| एक अपठित काव्यांश विकल्प सहित (पांच प्रश्न) | 1 X 5=5 | |
| रचना के आधार पर वाक्य भेद (पांच में से चार प्रश्न) | 1 X 4=4 | 16 |
| वाच्य (पांच में से चार प्रश्न) | 1 X 4=4 | |
| पदह परिचय (पांच में से चार प्रश्न) | 1 X 4=4 | |
| अलंकार (पांच में से चार प्रश्न) | 1 X 4=4 | |
| क्षितिज से निर्धारित पाठों में से गद्यांश के आधार पर (पांच प्रश्न) | 1 X 5=5 | 14 |
| क्षितिज से निर्धारित गद्य पाठों के आधार पर (दो प्रश्न) | 1 X 2=2 | |
| क्षितिज से निर्धारित कविताओं में से काव्यांश के आधार पर (पांच प्रश्न) | 1 X 5=5 | |
| क्षितिज से निर्धारित कविताओं के आधार पर (दो प्रश्न) | 1 X 2=2 | |
| खंड ब वर्णनात्मक प्रश्न | | |

| विषय वस्तु | उप भार | कुल भार (100) |
|---|---------|---------------|
| क्षितिज से निर्धारित पाठों में से विषय वस्तु का ज्ञान बोध अभिव्यक्ति आदि पर (चार में से तीन प्रश्न) | 2 X 6=3 | 20 |
| क्षितिज से निर्धारित कविताओं के आधार पर काव्यबोध परखने हेतु (चार में से तीन प्रश्न) | 2 X 6=3 | |
| कृतिका के निर्धारित पाठों पर आधारित (तीन में से दो प्रश्न) | 4 X 8=2 | |
| अनुच्छेद- लेखन (तीन विषयों में से कोई एक) | 6 | 20 |
| औपचारिक अथवा अनौपचारिक पत्र | 5 | |
| स्ववृत्त- लेखन अथवा ईमेल- लेखन | 5 | |
| विज्ञापन - लेखन अथवा संदेश- लेखन | 4 | |
| आंतरिक मूल्यांकन | | |
| सामयिक आकलन | 5 | 20 |
| बहुविध आकलन | 5 | |
| पोर्टफोलियो | 5 | |
| श्रवण तथा वाचन | 5 | |

SANSKRIT SYLLABUS (2024-25)

TERM 1

| मासाः | पाठाः | विषयाः | व्याकरणपाठाः |
|------------|-------------------------|--|--|
| अप्रैलमासः | प्रथमपाठः | शुचिपर्यावरणम् | सन्धिकार्यम् (२+२) ४ व्यञ्जनसन्धिः i. वर्गीयप्रथमवर्णस्यतृतीयवर्णपरिवर्तनम्, ii. प्रथमवर्णस्यपञ्चमवर्णपरिवर्तनम् विसर्गसन्धिः - i. विसर्गस्यउत्त्वम्, ii. रत्वम्, iii. विसर्गलोपः, iv. विसर्गस्यस्थाने स्, श्, ष् वाच्यपरिवर्तनम् केवलं लट्लकारे (कर्तृ-कर्म-क्रिया) ३ |
| मईमासः | द्वितीयपाठः | बुद्धिर्बलवतीसदा | समासः- वाक्येषु समस्तपदानां विग्रहः विग्रहपदानां च समासः ४ i. अव्ययीभावः (अनु, उप, सह, निरु, प्रति, यथा) ii. तत्पुरुषः iii. बहुव्रीहिः iv. द्वन्द्वः (केवलम् इतरतरद्वन्द्वः) |
| जूनमासः | चतुर्थपाठः पञ्चमपाठः | शिशुलालनम् जननीतुल्यवत्सला | प्रत्ययाः (३+१) ४ i. तद्धिताः - मतुप्, ठक्, त्व, तल् ii. स्त्रीप्रत्ययौ - टाप्, डीप् 5. समयः- अङ्कानां स्थाने शब्देषु समयलेखनम् (सामान्य, सपाद, सार्ध, पादोन) ४ |
| जुलाईमासः | षष्ठपाठः सप्तमपाठः | सुभाषितानि सौहार्दप्रकृतेः शोभा | 6. अव्ययपदानि उच्चैः, च, वः, ह्यः, अद्य, अत्र-तत्र, यत्र-कुत्र, इदानीम्, (अधुना, सम्प्रति, साम्प्रतम्) यदा, तदा, कदा, सहसा, वृथा, शनैः, अपि, कुतः, इतस्ततः, यदि तर्हि, यावत्-तावत् ३ 7. अशुद्धिसंशोधनम् (वचन-लिङ्ग-पुरुष-लकार-विभक्तिदृष्ट्या संशोधनम्) ३ 8. अपठितावबोधनम् (१० अङ्काः) 80-100 शब्दपरिमितः एकः अपठितः गद्यांशः, सरलकथा, वर्णनं २+४+३+१ i. एकपदेन पूर्णवाक्येन च अवबोधनात्मकं कार्यम् ii. अनुच्छेदाधारितं भाषिककार्यम् iii. शीर्षकलेखनम् |
| अगस्तमासः | पुनरावृत्तिः | गद्यांश-पद्यांश-नाट्यांश अधिकृत्य अवबोधनात्मकं कार्यम् (३० अङ्काः) प्रश्नप्रकाराः एकपदेन पूर्णवाक्येन च प्रश्नोत्तराणि भाषिककार्यम्- वाक्ये कर्तृक्रियापदचयनम्, विशेषण-विशेष्यचयनम् पर्याय-विलोमपदचयनम् I. वाक्येषु रेखाङ्कितपदानि अधिकृत्य चतुर्णां प्रश्नानां निर्माणम् ४ | 9. रचनात्मककार्यम् (१५ अङ्काः) i. सङ्केताधारितम् औपचारिकम् अथवा अनौपचारिकं पत्रलेखनम् ५ ii. चित्रवर्णनम् अथवा अनुच्छेदलेखनम् ५ iii. हिन्दीभाषायाम् आङ्ग्लभाषायां वा लिखितानां पञ्चसरलवाक्यानां संस्कृतभाषायाम् अनुवादः ५ |

| मासाः | पाठाः | विषयाः | व्याकरणपाठाः |
|-------|-------|---|--------------|
| | | II. श्लोकान्वयः/एकस्य श्लोकस्य संस्कृतेन भावार्थलेखनम् ४ iii. घटनाक्रमानुसारं कथालेखनम् ४ IV. प्रसङ्गानुकूलमर्थलेखनम् ३ | |

TERM-2

| | | | |
|-------------|--------------|-----------------|--|
| सितम्बरमासः | अष्टमपाठः | विचित्रः साक्षी | |
| अक्टूबरमासः | नवमपाठः | सूक्तयः | |
| नवम्बरमासः | द्वादशपाठः | अन्योक्तयः | |
| दिसम्बरमासः | पुनरावृत्तिः | | |

प्रश्नपत्राणां प्रारूपम्

| प्रश्नप्रकारः | प्रश्नानां सङ्ख्या | विभाग-सङ्ख्या | प्रतिप्रश्नम् अङ्कभारः | आहत्याङ्काः |
|----------------------------|--------------------|---------------|------------------------|-------------|
| अति-लघुत्तरात्मकाः ½ अङ्कः | 6 = 2+2+ 2 | 3 | ½ | 3 |
| अति-लघुत्तरात्मकाः 1 अङ्कः | 2=2 | 1 | 1 | 2 |
| बहुविकल्पात्मकाः 1 अङ्कः | 17 = 3+3+4+4+ 3 | 5 | 1 | 17 |
| लघुत्तरात्मकाः 1 अङ्कः | 21=3+3+4+4+1+2+2+2 | 8 | 1 | 21 |
| दीर्घोत्तरात्मकाः ½ अङ्कः | 18 = 8+ 10 | 2 | ½ | 9 |
| दीर्घोत्तरात्मकाः 1 अङ्कः | 24= 4+4+2+2+2+5+5 | 7 | 1 | 24 |
| दीर्घोत्तरात्मकाः 2 अङ्कः | 2=2 | 1 | 2 | 4 |
| | | | आहत्याङ्काः | 80 |

SUBJECT: - Mathematics

| MONTH | TOPIC | ACTIVITY/PROJECT |
|----------------|--|--|
| APRIL | UNIT-1 NUMBER SYSTEM : Ch.- 1 REAL NUMBER UNIT-2 ALGEBRA : Ch. – 2 POLYNOMIALS | 1. To find the HCF of two nos. experimentally based on Euclid’s Division Lemma. 2. To draw the graph of a quadratic polynomial and observe: a) Shape of the curve when the coefficient of x^2 positive or negative. b) Its number of zeroes. Project 1. – Indian mathematicians and their contributions. |
| MAY JUNE | UNIT-2 ALGEBRA : Ch. – 3 PAIR OF LINEAR EQUATIONS IN TWO VARIABLES, Ch. – 4 QUADRATIC EQUATIONS Ch. – 5 ARITHMETIC PROGRESSIONS (INTRODUCTION) | 3. To verify the conditions of consistency/inconsistency for a pair of linear equations in two variables by graphical method. 4. To obtain the solution of a quadratic equation ($x^2 + 4x = 60$) by completing the square geometrically. |
| JUNE | | |
| JULY AUGUST | UNIT-2 ALGEBRA : Ch. – 5 ARITHMETIC PROGRESSIONS UNIT-3 COORDINATE GEOMETRY : Ch. – 7. COORDINATE GEOMETRY UNIT- 4 GEOMETRY : Ch. – 6 TRIANGLES UNIT- 5 TRIGONOMETRY : Ch. – 8 INTRODUCTION TO TRIGONOMETRY, Ch. – 9 SOME APPLICATIONS OF TRIGONOMETRY. | 5. To identify Arithmetic Progressions in some given lists of numbers (patterns). 6. To find sum of n natural numbers. 7. To find sum of the first n even natural numbers. |
| SEPTEMBER | REVISION AND TERM – I EXAMINATION | |
| OCTOBER | UNIT – 10 CIRCLES UNIT – 12 AREA RELATED TO CIRCLES UNIT – 13 SURFACE AREAS AND VOLUMES | 8. To verify the distance formula by graphical method. 9. To find number of tangents from an external point to the circle. Project 2. – To prepare a list of quotations on Mathematics |

| MONTH | TOPIC | ACTIVITY/PROJECT |
|----------|---|------------------|
| NOVEMBER | UNIT -14 STATISTICS UNIT -15 PROBABILITY REVISION | |
| DECEMBER | SAMPLE PAPER PRACTICE & REMEDIAL CLASS | |

BLUE PRINT/MARKING SCHEME FOR TERM – 1

| SL. NO. | Unit/chapter | VSA(01) | VSA(02) | SA(03) | SA(04) CASE BASED QUESTIONS | LA(05) | TOTAL |
|---------|---|---------|---------|--------|-----------------------------|--------|--------------------------|
| 1 | 1. REAL NUMBERS | 03 | 01* | 01 | - | - | (08) (05 QUESTIONS) |
| 2 | 2. POLYNOMIALS | 02* | - | 01 | - | 01 | (33) (15 QUESTIONS) |
| | 3. LINEAR EQUATIONS IN TWO VARIABLES | 02 | - | 01* | 01 | - | |
| | 4. QUADRATIC EQUATIONS | 02 | 01 | - | - | 01* | |
| | 5. ARITHMETIC PROGRESSIONS | 02 | - | 01 | - | - | |
| 3 | 7. COORDINATE GEOMETRY | 03 | 01* | -- | 01 | -- | (09) (05 QUESTIONS) |
| 4 | 6. TRIANGLES | 03* | 01 | 01 | 01 | 01* | (17) (07 QUESTIONS) |
| 5 | 8. INTRO. TO TRIGNOMETRY | 02 | 01 | 01* | - | 01 | (13) (06 QUESTIONS) |
| | 9. SOME APPLICATIONS OF TRIGNOMETRY | 01 | - | - | - | 01 | |
| | TOTAL | 20 Q | 5 Q | 6 Q | 3 Q | 4 Q | 80 MARKS 38 QUESTIONS |
| | * Stands for assertion -reason based question in section -A and optional questions in other sections. | | | | | | |

BLUE PRINT/MARKING SCHEME FOR PRE-BOARD EXAM 2024-25

| SL. NO. | Unit/chapter | VSA(01) | VSA(02) | SA(03) | SA(04) CASE BASED QUESTIONS | LA(05) | TOTAL |
|---------|----------------|---------|---------|--------|-----------------------------|--------|---------------------|
| 1 | 1.REAL NUMBERS | 01 | 01* | 01 | - | - | (06) (03 QUESTIONS) |

| SL. NO. | Unit/chapter | VSA(01) | VSA(02) | SA(03) | SA(04) CASE BASED QUESTIONS | LA(05) | TOTAL |
|---------|--|---------|---------|--------|-----------------------------|--------|--------------------------|
| 2 | 2.POLYNOMIALS | 02 | 01 | - | 01 | - | (20) (11 QUESTIONS) |
| | 3.LINEAR EQUATIONS IN TWO VARIABLES | 02 | - | - | 01 | - | |
| | 4.QUADRATIC EQUATIONS | 01 | 01 | - | - | 01 | |
| | 5.ARITHMETIC PROGRESSIONS | 02 | - | - | - | - | |
| 3 | 7. COORDINATE GEOMETRY | 01 | 01* | 01 | - | - | (06) (03 QUESTIONS) |
| 4 | 6.TRIANGLES | 01* | - | 01 | 01 | 01* | (15) (05 QUESTIONS) |
| | 10. CIRCLES | 02 | - | - | - | - | |
| 5 | 8. INTRO. TO TRIGNOMETRY | 01 | 01 | 01* | - | - | (12) (05 QUESTIONS) |
| | 9. SOME APPLICATIONS OF TRIGNOMETRY | 01 | - | - | - | 01 | |
| 6 | 12. AREAS RELATED TO CIRCLES | 01 | - | 01* | - | - | (10) (05 QUESTIONS) |
| | 13. SURFACE AREAS AND VOLUMES | 02* | - | - | 01 | - | |
| 7 | 14. STATISTICS | 01 | - | - | - | 01* | (11) (06 QUESTIONS) |
| | 15. PROBABILITY | 02 | - | 01 | - | - | |
| | TOTAL | 20 Q | 5 Q | 6 Q | 3 Q | 4 Q | 80 MARKS 38 QUESTIONS |
| | *Stands for assertion -reason based question in section -A and optional questions in other sections. | | | | | | |

SUBJECT- SCIENCE

| MONTH | TOPIC | ACTIVITY |
|-------|---|--|
| APRIL | PHYSICS Light - Reflection and Refraction Reflection of light by curved surfaces; Images formed by spherical mirrors, centre of curvature, principal axis, principal focus, focal length, mirror formula (Derivation not required), magnification. | 1. Image formed by: Concave Convex reflecting surface Using Large spoon and a candle 2. Solving numerical through activities. |
| | CHEMISTRY Chemical substances nature and behaviour Chemical equation, Balanced chemical equation Implications of a balanced chemical equation, Types of chemical reactions combination, Decomposition Displacement, Double displacement, Precipitation, endothermic exothermic reactions | 1. Combustion of magnesium ribbon 2. Reaction of zinc with acid. 3. Reaction between lead nitrate and potassium iodide 4. Reaction between quicklime and water 5. Decomposition reaction and double displacement reaction |
| | BIOLOGY Life Processes Nutrition | Slide preparation to study the presence of stomata in leaf. Demonstrate the presence of chlorophyll, role of light and importance of carbon dioxide in photosynthesis. Observe the effect of salivary amylase on food. Survey-dental carries in students. |
| MAY | PHYSICS Light - Reflection and Refraction Refraction; Laws of refraction, refractive index. Refraction of light by spherical lens; Image formed by spherical lenses | Refraction of light through a rectangular glass through a rectangular glass slab. Sun rays are focused by a convex lens on a piece of paper. Nature of the image formed by a convex lens of lighted candle. |
| | CHEMISTRY Chemical substances nature and behaviour Oxidation and reduction | 6. Electrolysis of water 7. Displacement reaction double displacement reaction |
| | BIOLOGY LIFE PROCESSES RESPIRATION-Break-down of glucose by various pathways | Demonstrate the production of carbon dioxide. Eg-addition of yeast to fruit juice. |

| MONTH | TOPIC | ACTIVITY |
|-------|--|---|
| JUNE | PHYSICS Light - Reflection and Refraction Revision of April and May months topics Lens formula (Derivation not required); Magnification. Power of a lens | Solving numerical through activities. |
| | CHEMISTRY Acids bases and salts Their definitions in terms of furnishing of H ⁺ and OH ⁻ ions, General properties, Examples and uses, Neutrilation reaction, concept of pH scale(Definition relating to logarithm not required) | 1. Action of indicators on different chemicals 2. Olfactory indicators 3. Reaction of zinc with HCl and NaOH. 4. Reaction of metal carbonates and bicarbonates with acid 5. Activities showing neutralization reaction |
| | BIOLOGY RESPIRATION-Plants, animals, and human beings | Aquarium-Counting the number of times the fish opens and closes its mouth in a minute and comparing with breathing rate of own self. |
| JULY | PHYSICS The Human Eye and the Colourful World Functioning of a lens in human eye, defects of vision and their corrections, applications of spherical mirrors and lenses. | Concave mirror used as shaving mirror. Convex mirror used as rear - view mirror. |
| | CHEMISTRY ACIDS BASES AND SALTS Importance of PH in everyday life, Preparation and uses of sodium hydroxide, Bleaching powder, Baking soda, Washing soda and plaster of Paris | 6. Activity showing acidic hydrogen present in a substance 7. Action of HCl gas on dry and wet litmus paper 8. Solubility of following chemical Sodium chloride, potassium nitrate, aluminium chloride ,zinc sulphate, copper sulphate ,sodium acetate etc. |
| | BIOLOGY LIFE PROCESSES TRANSPORTATION AND EXCRETION | Collecting data related to haemoglobin of persons of various age group (male and female) and compare. Measuring blood pressure. Transpiration in plants. Concept of organ donation. |

| MONTH | TOPIC | ACTIVITY |
|-----------|--|---|
| AUGUST | PHYSICS The Human Eye and the Colourful World Refraction of light through a prism, dispersion of light, scattering of light, applications in daily life (excluding colour of the sun at sunrise and sunset) | Refraction of light through a prism Dispersion of sun light by a prism |
| | CHEMISTRY Acids bases and salts Washing soda and plaster of Paris Revision for the first term | - |
| | BIOLOGY CONTROL AND CO-ORDINATION | Observe sensitivity in touch me not plant. Demonstrate phototropism and geotropism in plants. |
| SEPTEMBER | PHYSICS TERM 1 Exam. Current Electricity Electric current, potential difference and electric current. Ohm's law | Verification of Ohm's law. |
| | CHEMISTRY Metals and non-metals Physical properties of metals and nonmetals | 1. Activities to show some basic physical properties of metal and nonmetals 2. To Test the nature of metallic and non-metallic oxides 3. Formation of reactivity series with the help of displacement reaction |
| | BIOLOGY TERM 1 LIFE PROCESSES, CONTROL AND CO-ORDINATION | |
| OCTOBER | PHYSICS Current Electricity Resistance, Resistivity, Factors on which the resistance of a conductor depends. Series combination of resistors, parallel combination of resistors and its applications in daily life. Heating effect of electric current and its applications in daily life. Electric power, Interrelation between P, V, I and R. | Components made of different materials offer different electricals resistance. Factors on which the resistance of a metallic conductor depends. A) The current passing through different points same in an electric circuit consisting of different resistors connected in series. Potential difference across the ends of different resistors connected in series in an electric circuit depend upon the value of a resistors. |

| MONTH | TOPIC | ACTIVITY |
|----------|---|---|
| OCTOBER | | Whether the potential difference across the ends of different resistors connected in a parallel combination are the same? Is the current flowing through them are the same? |
| | CHEMISTRY Metals and nonmetals Chemical properties of metals and nonmetals, Reactivity series, Formation and properties of ionic compounds, Basic metallurgical processes, Corrosion and its prevention Carbon compounds Covalent bonding in carbon compounds versatile nature of carbon, Homologous series | 4. Activities to show properties of ionic compound 5. Rusting of iron |
| | BIOLOGY HOW DO ORGANISMS REPRODUCE | Observe asexual reproduction in organism Study slide-Binary fission in Amoeba, budding in yeast. Vegetative propagation in plants. Study different parts of a flower and their role in sexual reproduction. |
| NOVEMBER | PHYSICS Magnetic Effect Of Electric Current Magnetic field, field lines, field due to a current carrying conductor, field due to current carrying coil or solenoid; Force on current carrying conductor, Fleming's Left Hand Rule, Direct current. Alternating current: frequency of AC. Advantage of AC over DC. Domestic electric circuits | 1. Does a current carrying conductor produce magnetic field? What is the pattern of magnetic field lines around a bar magnet? How to draw magnetic field lines around a bar magnet? How does a current carrying circular coil produce a magnetic field? How does a conductor placed in a magnetic field behave when a current is passed through it. What happens when a magnet is moved near a coil of wire? What is the effect of varying the current in a coil on placing another coil near it? |

| MONTH | TOPIC | ACTIVITY |
|----------|---|--|
| | CHEMISTRY Carbon compounds Nomenclature (Halogens, Alcohol, ketone, aldehyde alkanes, alkenes,alkynes), Difference between saturated and unsaturated hydrocarbons, Chemical properties of carbon compounds(Combustion oxidation , addition and substitution) Ethanol and ethanoic acid(only properties and uses), Soaps and detergents | 1. Burning of saturated and unsaturated carbon compounds 2. To show is esterification reaction 3. Reaction between sodium and ethanol 4. To compare the pH of dilute acetic acid and dilute hydrochloric acid 5. To show property of soap in oil and water |
| | BIOLOGY HEREDITY, OUR ENVIRONMENT | Study distribution of hereditary characters. Visit natural and artificial ecosystem |
| DECEMBER | PREBOARD | |

BLUE PRINT FOR TERM - 1 2024-25

| Chapter Name | 1M (MCQ) | 1M (A/R) | 2M | 3M | 5M | 4M (CB) | TM |
|---------------------------------------|----------|----------|----|----|----|---------|----|
| Light - Reflection and Refraction | 1 | 1 | 1 | 2 | 1 | 1 | 19 |
| The Human Eye and the Colourful World | 1 | - | 1 | 1 | - | - | 6 |
| Chemical reactions | 4 | - | 1 | 1 | 1 | - | 14 |
| Acids bases and salts | 4 | - | - | 1 | - | 1 | 11 |
| Life Processes | 5 | 1 | 2 | 1 | 1 | - | 18 |
| Control and Coordination | 2 | 1 | 1 | 1 | - | 1 | 12 |

BLUE PRINT FOR PRE-BOARD 2024-25

| Chapter Name | 1M (MCQ) | 1M (A/R) | 2M | 3M | 5M | 4M (CB) | TM |
|---------------------------------------|----------|----------|----|----|----|---------|----|
| Light - Reflection and Refraction | - | - | - | - | 1 | 1 | 9 |
| The Human Eye and the Colourful World | 1 | 1 | 1 | 1 | - | - | 7 |
| Current Electricity | 1 | - | - | 1 | - | - | 4 |
| Magnetic Effect of Electric Current | - | - | 1 | 1 | - | - | 5 |
| Chemical reactions | 3 | - | - | 1 | - | - | 6 |
| Acids bases and salts | 3 | - | - | - | - | - | 3 |
| Metals and nonmetals | 1 | - | 1 | 1 | - | 1 | 10 |

| Chapter Name | 1M (MCQ) | 1M (A/R) | 2M | 3M | 5M | 4M (CB) | TM |
|----------------------------|-------------|-------------|----|----|----|------------|----|
| Carbon and its compounds | 1 | - | - | - | 1 | - | 6 |
| Life Processes | 1 | 1 | 2 | 1 | - | - | 9 |
| Control And Coordination | 1 | - | 1 | - | - | - | 3 |
| How Do Organisms Reproduce | 1 | - | - | - | 1 | - | 6 |
| Heredity | 2 | 1 | - | - | - | 1 | 7 |
| Our Environment | - | - | 1 | 1 | - | - | 5 |

SUBJECT-SOCIAL SCIENCE (History & Pol.Sc.)

| MONTH | CHAPTER/TOPIC | ACTIVITY | MARKS |
|-------|--|---|--------|
| APRIL | POWER SHARING Belgium and Sri Lanka Majoritarianism in Sri Lanka Accommodation in Belgium, Why power sharing is desirable? Forms of power sharing | Map skills, Belgium, and Sri Lanka Cartoon interpretation, A debate on the need of power sharing | 5 |
| | RISE OF NATIONALISM IN EUROPE Introduction The French Revolution and the idea of the Nation | Picture analysis Find out the difference between the two maps of Europe | 7 |
| MAY | RISE OF NATIONALISM IN EUROPE The making of Germany and Italy The Aristocracy and the new middle class What did liberal nationalism stand for? New conservatism after 1815 The age of revolution, 1830,- 1848 The romantic imagination and national feeling Hunger, hardship, and popular revolt The making of Germany and Italy Visualising the nation Nationalism and imperialism | Illustrate that the quest for imperialism triggered the first world war. | |
| JUNE | FEDERALISM What is federalism? What makes India a federal country? How is federalism practised? Decentralisation in India | Picture analysis | 5 |
| | NATIONALISM IN INDIA The first world war, Khilafat and non-cooperation Differing strands within the moment | Role-play | 7(5+2) |
| JULY | NATIONALISM IN INDIA Towards civil disobedience, the sense of collective belonging GENDER, RELIGION, and CAST Gender and politics Religion, communalism, and politics caste and politics Caste inequality today | Picture interpretation Peer discussion Map skill Diary writing Flowchart Data interpretation Debate | 5 |

| MONTH | CHAPTER/TOPIC | ACTIVITY | MARKS |
|-----------|--|--|--|
| | THE MAKING OF GLOBAL WORLD The pre-modern world The 19th century, 1815- 1914 Role of technology The inter War economy Rebuilding world economy, the post era | From topic The 19th century 1815-1914 to Rebuilding World Economy for interdisciplinary project | 2 |
| | AGE OF INDUSTRIALISATION | TO BE ASSESSED IN INTERNAL ASSESSMENT | To be Assessed in internal Assessment |
| AUGUST | POLITICAL PARTY Why do we need political parties? How many parties should we have National political parties? State parties Challenges of political parties How can parties be reformed? | PowerPoint presentation Map skill PROJECT Cartoon interpretation Debate Data analysis Collage of different party symbols Analysis of election results | 5 |
| SEPTEMBER | Revision First Term | | |
| OCTOBER | OUTCOME OF DEMOCRACY How do we assess Outcome of Democracy ? Accountable Responsive and Legitimate Government Economic Growth and Development Reduction of Inequality and Poverty Accommodation of Social Diversity Dignity and freedom of Citizens | Quiz Mind Map Concept Map | 4 |
| | PRINT CULTURE AND THE MODERN WORLD The First Printed Book Print Comes to Europe | Collage Making • Concept Map on Evolution of Printing Press | 4 |
| NOVEMBER | The Print Revolution and Its Attempt The Reading Mania India and the World of Print Religious Reforms and Public Debate New forms of Publication Print and Censorship Revision | | |
| DECEMBER | Revision & Pre-Board | | |

SUBJECT- GEOGRAPHY

TERM 1

| Months | Geography | Activities |
|-----------|--|--|
| APRIL | CH1 RESOURCES AND DEVELOPMENT | Group discussion on the indiscriminate use of resources |
| MAY | CH-2 FOREST AND WILDLIFE | Slogan writing conserving biodiversity |
| JUNE | CH-2 CONTINUED + CH 3 WATER RESOURCES | Poster making |
| JULY | CH -4 AGRICULTURE | ppt on various crops and its geographical requirement for its growth |
| AUGUST | REVISION | |
| SEPTEMBER | Half yearly examination | |

TERM 2

| Months | Geography | Activities |
|----------|---|--|
| OCTOBER | CH -5 MINERAL AND ENERGY RESOURCES | map work on mineral distribution |
| NOVEMBER | CH -6 MANUFACTURING INDUSTRIES + CH 7 LIFELINES OF THE NATIONAL ECONOMY (ONLY MAPWORK) | Nukkad natak on environmental pollution by the students for creating general awareness |
| DECEMBER | PREBOARD EXAMINATION | |

BLUE PRINT

| | Geography (20 Marks) |
|----------------------------|----------------------|
| 1. Sec A MCQ | 1x3=3 |
| 2. Sec B Vey short answer | 2x1=2 |
| 3. Sec C short answer(SA) | 3x1=3 |
| 4 Sec D Case Study | 4x1=4 |
| 5. Sec E Long Answers (LA) | 5x1=5 |
| 6. Sec F Map Skill | 3x1=3 |

SUBJECT- ECONOMICS

| | | |
|--|-------------------------------|----|
| Economics (Understanding Economic Development) | Suggestive no of periods = 50 | 20 |
|--|-------------------------------|----|

| Chapter No | Chapter Name | No. of Periods | Marks Allocated |
|------------|--|----------------|-----------------|
| 1 | Development | 12 | 20 |
| 2 | Sectors of the Indian Economy | 12 | |
| 3 | Money and Credit | | |
| 4 | Globalisation and the Indian Economy To be evaluated in the Board Examination ->What is Globalisation? ->Factors that have enabled Globalisation | 8 | |
| | For interdisciplinary project as part of multiple assessments (Internally assessed for 5 Marks) ->Production across the countries ->Chinese toys in India ->World Trade Organisation ->The Struggle for a Fair Globalisation | 6 | |
| 5 | Consumer Rights (Project Work) | | |

SUBJECT - ARTIFICIAL INTELLIGENCE

SUBJECT CODE - 417

| MONTH | TOPICS/ LEARNING OUTCOMES | SESSION/ ACTIVITY/ PRACTICA |
|------------------|---|--|
| MARCH - APRIL | <p>EMPLOYABILITY SKILLS Unit 1 : Communication Skills - II</p> <p>SUBJECT SPECIFIC SKILLS Unit 1 : Introduction to AI</p> <p>Understand the concept of human intelligence and its various components such as reasoning, problem-solving, and creativity</p> <p>Understand the concept of Artificial Intelligence (AI) and its domains Explore the use of AI in real Life.</p> <p>Learn about the ethical concerns involved in AI development, such as AI bias, data privacy and how they can be addressed.</p> | <p>Activity: Ethics Awareness Students play the role of major stake holders, and they have to decide what is ethical and what is not for agivenscenario.</p> <p>Session: What is Intelligence? Session: Decision Making. ● How do you make decisions? ● Make your choices! Session: what is Artificial Intelligence and what is not?</p> <p>Session: Introduction to AI and related terminologies. ● Introducing AI, ML & DL. ● Introduction to AI Domains (Data Sciences, CV & NLP)</p> <p>Session: Applications of AI – A look at Real-life AI implementations</p> <p>Session: AI Ethics ● Moral Machine Activity : a platform for gathering a human perspective on moral decisions made by machine intelligence, such as self-driving cars. http://moralmachine.mit.edu/</p> |
| MAY - JUNE | <p>EMPLOYABILITY SKILLS Unit 2 : Self-Management Skills-II</p> <p>SUBJECT SPECIFIC SKILLS Unit 2 : AI Project Cycle</p> <p>Introduction Understand the stages involved in the AI project cycle, such as problem scoping, data collection, data exploration, modeling, evaluation.</p> <p>Problem Scoping Learn about the importance of project planning in AI development and how to define project goals and objectives.</p> <p>Data Acquisition Develop an understanding of the importance of data collection in AI and how to choose the right data sources.</p> | <p>Session: Introduction to AI Project Cycle</p> <p>Session: Understanding Problem Scoping & Sustainable Development Goals</p> <p>Session: Simplifying Data Acquisition</p> <p>Session: Visualising Data</p> <p>Session: Introduction to modelling ● Introduction to Rule Based & Learning Based AI Approaches ● Neural Networks</p> |

| MONTH | TOPICS/ LEARNING OUTCOMES | SESSION/ ACTIVITY/ PRACTICA |
|------------|---|--|
| MAY - JUNE | <p>Data Exploration Know various data exploration techniques and its importance</p> <p>Modelling Know about the different machine learning algorithms used to train AI models</p> <p>Evaluation Know the importance of evaluation and various metrics available for evaluation</p> | <p>Session: Evaluating the idea!</p> |
| JULY | <p>EMPLOYABILITY SKILLS) Unit 3: ICT Skills - II</p> <p>SUBJECT SPECIFIC SKILLS Unit 3: Advance Python</p> | <p>Session: Introduction to Python</p> <p>Session: Python Basics</p> <p>Practical: Flow of control and conditions Students go through lessons on conditional and iterative statements (if, for and while) Students will try some basic problem-solving exercises using conditional and iterative statements on Python Compiler.</p> <p>Practical: Python Lists Students go through lessons on Python Lists (Simple operations using list) Students will try some basic problem-solving exercises using lists on Python .</p> |
| AUGUST | <p>(SUBJECT SPECIFIC SKILLS) Unit 4: Data Science (Practical)</p> <p>Introduction Define the concept of Data Science and understand its applications in various fields.</p> <p>Getting Started Understand the basic concepts of data acquisition, visualization, and exploration.</p> | <p>Session: Introduction to Data Science</p> <p>Session: Applications of Data Science</p> <p>Session: Revisiting AI Project Cycle, Data Collection, Data Access Activities: Game: Rock, Paper & Scissors https://next.rockpaperscissors.ai/</p> <p>Session: Python for Data Sciences</p> <ul style="list-style-type: none"> • Numpy • Pandas • Matplotlib |

| MONTH | TOPICS/ LEARNING OUTCOMES | SESSION/ ACTIVITY/ PRACTICA |
|-----------|---|--|
| | <p>Python Packages Use Python libraries such as NumPy, Pandas, and Matplotlib for data analysis and visualization.</p> <p>Concepts of Data Sciences Understand the basic concepts of statistics, such as mean, median, mode, and standard deviation, and apply them to analyze data using various Python packages.</p> | <p>Session: Statistical Learning & Data Visualisation</p> |
| SEPTEMBER | Revision of First Terminal full syllabus. | |
| OCTOBER | <p>EMPLOYABILITY SKILLS Unit 4: Entrepreneurial Skills-II</p> <p>SUBJECT SPECIFIC SKILLS Unit 5: Computer Vision (Practical)</p> <p>Introduction Define the concept of Computer Vision and understand its applications in various fields.</p> <p>Concepts of Computer Vision Understand the basic concepts of image representation, feature extraction, object detection, and segmentation.</p> | <p>Session: Introduction to Computer Vision</p> <hr/> <p>Session: Applications of CV</p> <hr/> <p>Session: Understanding CV Concepts</p> <ul style="list-style-type: none"> ● Computer Vision Tasks ● Basics of Images-Pixel, Resolution, Pixel value ● Grayscale and RGB images <hr/> <p>Activities:</p> <ul style="list-style-type: none"> ● Game- Emoji Scavenger Hunt https://emojiscavengerhunt.withgoogle.com/ ● RGB Calculator: https://www.w3schools.com/colors/colors_rgb.asp ● Create your own pixel art: www.piskelapp.com ● Create your own convolutions: http://setosa.io/ev/image-kernels/ |
| NOVEMBER | <p>EMPLOYABILITY SKILLS Unit 5 : Green Skills-II</p> <p>SUBJECT SPECIFIC SKILLS Unit 6: Natural Language Processing</p> | <p>Session: Introduction to Natural Language Processing</p> <p>Activity : Use of Google Translate for same spelling words</p> <hr/> <p>Session: NLP Applications</p> <hr/> <p>Session: Revisiting AI Project Cycle</p> <p>Activity: Introduction to Chatbots</p> |

| MONTH | TOPICS/ LEARNING OUTCOMES | SESSION/ ACTIVITY/ PRACTICA |
|----------|---|---|
| NOVEMBER | <p>Introduction Understand the concept of Natural Language Processing (NLP) and its importance in the field of Artificial Intelligence (AI).</p> <p>Chatbots Explore the various applications of NLP in everyday life, such as chatbots, sentiment analysis, and automatic summarization</p> <p>Language Differences Gain an understanding of the challenges involved in understanding human language by machine.</p> <p>Concepts of Natural Language Processing Learn about the Text Normalization technique used in NLP and popular NLP model - Bag-of-Words</p> <p>SUBJECT SPECIFIC SKILLS Unit 7: Evaluation</p> | <p>Session: Human Language VS Computer Language</p> <p>Session: Data Processing</p> <ul style="list-style-type: none"> • Text Normalisation • Bag of Words <p>Hands-on: Text processing</p> <ul style="list-style-type: none"> ● Data Processing ● Bag of Words <p>Session: Introduction to Model Evaluation</p> <ul style="list-style-type: none"> ● What is Evaluation? ● Different types of Evaluation techniques- Underfit, Perfect Fit, OverFit |
| | <p>Introduction Understand the role of evaluation in the development and implementation of AI systems.</p> <p>Model Evaluation Terminology Learn various Model Evaluation Terminologies</p> <p>Confusion Matrix Learn to make a confusion matrix for given Scenario</p> <p>Evaluation Methods Learn about the different types of evaluation techniques in AI, such as Accuracy, Precision, Recall and F1 Score, and their significance.</p> | <p>Session: Model Evaluation Terminologies</p> <ul style="list-style-type: none"> ● The Scenario - Prediction, Reality, True Positive, True Negative, False Positive, False Negative ● Confusion Matrix ● Activity- to make a confusion matrix based on data given for Containment Zone Prediction Model <p>Session & Activity: Confusion Matrix</p> <p>Session: Evaluation Methods</p> <ul style="list-style-type: none"> ● Accuracy ● Precision ● Recall ● Which Metric is Important? - Precision or Recall ● F1 Score <p>Activity: Practice Evaluation</p> |
| DECEMBER | Revision for Pre Board | Revision test |
| JANUARY | Revision for Pre Board | Revision test |

Artificial Intelligence

(Subject Code - 417)

Blue Print

Max. Time : 2 Hours

Max. Marks : 50

PART A - EMPLOYABILITY SKILLS (10 MARKS)

| Unit No. | Name of the Unit | Objective Type Questions 1 Mark Each | Short Answer Type Questions 2 Marks Each | Total Questions |
|---------------------------------|-----------------------------|---|---|-----------------|
| 1 | Communication Skills - II | 1 | 1 | 2 |
| 2 | Self-Management Skills - II | 2 | 1 | 3 |
| 3 | ICT Skills - II | 1 | 1 | 2 |
| 4 | Entrepreneurial Skills - II | 1 | 1 | 2 |
| 5 | Green Skills - II | 1 | 1 | 2 |
| Total Question | | 6 | 5 | 11 |
| No. of Questions to be Answered | | Any 4 | Any 3 | 07 |
| Total Marks | | 1x4 = 4 | 2x3 = 6 | 10 Marks |

PART B - SUBJECT SPECIFIC SKILLS (40 MARKS)

| Unit No. | Name of the Unit | Objective Type Questions 1 Mark Each | Short Answer Type Questions 2 Marks Each | Descriptive/ Long Ans. Type Questions 4 Marks Each | Total Questions |
|---------------------------------|-----------------------------|---|---|---|-----------------|
| 1 | Introduction to AI | 6 | 1 | 1 | 8 |
| 2 | AI Project Cycle | 6 | 2 | 1 | 9 |
| 6 | Natural Language Processing | 6 | 2 | 2 | 10 |
| 7 | Evaluation | 6 | 1 | 1 | 8 |
| Total Question | | 24 | 6 | 5 | 35 |
| No. of Questions to be Answered | | 20 | Any 4 | Any 3 | 27 |
| Total Marks | | 1x20 = 20 | 2x4 = 8 | 4x3 = 12 | 40 Marks |