** ROYAL OAK INTERNATIONAL SCHOOL**

**Sr. Sec. C.B.S.E Affiliated**

**SESSION: 2018-19**

**Whole year syllabus of class XI (Science Stream)**

**SUBJECT -ENGLISH (301)**

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| MONTH | DAYS | TOPICS | | ASSIGNMENT |
| APRIL | 27 | Hornbill : The portrait of lady  Poem : A Photograph  Grammar :Jumbled Sentences & Gap Filling  Writing : Formal Letters & Notice  Reading : Comprehension | | Assignments and worksheets will be provided every fortnight according to the requirement of the chapters |
| MAY | 24 | Hornbill : … If We Can All Be Together  Poem : The voice of the rain  Snapshot : The summer of the beautiful horse  Grammar :Jumbled Sentences & Gap Filling  Writing : Advertisement (Classified and Display)  Reading : Note making | |
| JULY | 22 | Snapshort : The Address, Ranga’s Marriage  Grammar :Jumbled Sentences, Editing & Gap Filling  Writing : Advertisement, Article, Notice & Letter  Reading : Note making | |
| **Written Evaluation Syllabus : UNIT TEST – I (M.M. –50)**  Hornbill : 1. The portrait of lady 2. If We Can All Be Together  Poem :1. A Photograph2. The voice of the rain  Snapshot :1. The summer of the beautiful horse2. The Address  3. Ranga’s Marriage  Writing : Notice Writing,Advertisement (Classified) & Formal LetterReading  Comprehension & Note making | | | |
| AUG. | 21 | Hornbill : The Ailing Planet  Poem : Childhood  Snapshot : Mother’s day  Grammar :Integrated Grammar  Writing : Report writing and Invitation  Reading : Comprehension Note making | |
| SEPT. | 8 | Grammar :Integrated Grammar  Writing : Report writing and Invitation  Reading : Comprehension & Note making | |
| **Written Evaluation Syllabus : HALF YEARLY (M.M –100)**  Hornbill :1. The portrait of lady2. If We Can All Be Together3. The Ailing Planet  Poem :1. A Photograph2. The voice of the rain3. Childhood  Snapshot :1. The summer of the beautiful horse2. The Address3. Ranga’sMarriage4. Mother’s day  Writing : Notice Writing,Advertisement (Classified) & Formal Letter  Grammar : Integrated Grammar, Jumbled Sentences, Editing & Gap FillingReading  Comprehension & Note making | | | | |
| OCT. |  | Snapshot : Albert Einstine At School  & Birth  Grammar :Integrated Grammar  Writing : Speech Writing  Reading : Comprehension Note making |  | |
| NOV. |  | Hornbill : The Browining Version  Poem : Father to Son  Grammar :Integrated Grammar  Writing : Speech Writing  Reading : Comprehension Note making |  | |
| **Written Evaluation Syllabus : UNIT TEST – II M.M. (50)**  Hornbill : The Browining Version  Poem : Father to Son  Snapshot : Albert Einstine At School, Birth  Grammar :Integrated Grammar  Writing:Speech writing, Invitation  Reading : Note making | | | | |
| DEC. |  | Recapitulation of the whole syllabus |  | |
| JAN. |  | Recapitulation of the whole syllabus |  | |
| FEB. |  | Recapitulation of the whole syllabus |  | |
| **Written Evaluation Syllabus : YEARLY EXAM M.M. (100)**  Hornbill :1. The portrait of lady2. If We Can All Be Together3. The Ailing Planet4. The Browining Version  Poem :1. A Photograph2. The voice of the rain3. Childhood4. Father to Son  Snapshot :1. The summer of the beautiful horse2. The Address3. Ranga’s Marriage  4. Mother’s day5. Albert Einstine At School 6. Birth  Writing : Notice Writing,Advertisement, Poster writing, Formal Letter, Speech, Report Writing, Article &  Debate  Grammar : Integrated Grammar, Jumbled Sentences, Editing & Gap FillingReading  Comprehension & Note making | | | | |

**Physical Education**

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| **Month** | **Days** | **Chapters To be covered** | **Activity** | **Worksheet**  **Chapter wise** |
| April | 17 | Sports Injuries  Awards – Dronacharya Award   1. Changing trends and careers in Physical Education 2. Olympic movement |  |  |
| May | 9 | 1. Physical fitness, wellness and lifestyle 2. Physical education and sports for differently Abled |  |  |
| July | 22 | Revision |  |  |
| **Written Evaluation Syllabus : UT I M.M. (50)**  Sports Injuries Awards – Dronacharya Award  1) Changing trends and careers in Physical Education 2) Olympic movement  3) Physical fitness, wellness and lifestyle 4) Physical education and sports for differently Abled | | | | |
| Aug. | 21 | 1. Yoga 2. Physical Activity and leadership training 3. Test, Measurement and Evaluation in sports 4. Fundamentals of Anatomy and physiology |  |  |
| Sep | 17 | Revision |  |  |
| **Written Evaluation Syllabus : Half Yearly Exam M.M. (100) (Theory + Practical)**  Sports Injuries Award - Arjuna Award  1) Changing trends and careers in Physical Education2) Olympic movement  3) Physical fitness, wellness and lifestyle4) Physical education and sports for differently Abled  5) Yoga6) Physical Activity and leadership training | | | | |
| Oct. | 20 | 1. Kinesiology Biomechanics and sports 2. Psychology and sports 3. Training in sports 4. Doping |  |  |
| Nov. | 15 | Revision |  |  |
| **Written Evaluation Syllabus UT – II M.M. (50 )**  Sports Injuries Award – Rajiv Gandhi KhelRatna Award  7) Test, Measurement and Evaluation in sports 8) Fundamentals of Anatomy and physiology  9) Kinesiology Biomechanics and sports 10) Psychology and sports | | | | |
| Dec. | 21 | Revision |  |  |
| Jan.  2ND | 18 | Revision |  |  |
| Feb. | 11 | Revision |  |  |
| **Written Evaluation Syllabus : Yearly Exam M.M. (100) (Theory + Practical)**  Complete syllabus | | | | |

**Maths**

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| **Month**  **and**  **days** | | **Exams** | **M.Marks** | | **Content** |
| **Apr.(10)**  **+**  **May(23)**  **+July (22)** | | **UT I** | **50** | | Ch:-1 SETS (8marks)  Ch:- 2 RELATION N FUNCTION (4 marks)  Ch:- 3 TRIGONOMETRIC FUNCTION (10marks)  Ch: -4 P.M.I. (4marks)  Ch:-5Complex Number (4marks)  Ch:-16 Probability (6marks)  Ch:-15 Statistics (6 marks)  Ch: -13 Limit And Derivatives (8marks) |
| **WRITTEN EVALUATION SYLLABUS UT- I M.M. (50)**  Ch:-1 Sets Ch:- 2 Relation N Function Ch:- 3 Trigonometric Function  Ch:4 P.M.I. Ch:-5ComplexNumber Ch: -13 Limit And Derivatives  Ch:-15 Statistics Ch : - 16 Probability | | | | | |
| **Aug.**  **(21)**  **+**  **Sept.**  **(17)** | **Half**  **Yearly** | | **100** | Ch.:-6 Linear inequalities (6marks)  Ch.:-7 Permutation n combination ( 8 marks)  Ch.: 8 Binomial theorem (8 marks) | |
| **WRITTEN EVALUATION SYLLABUS Half Yearly Exam M.M. (100)**  Ch:-1 SetsCh:- 2 Relation N FunctionCh:- 3 Trigonometric Function  Ch:4 P.M.I. Ch:-5ComplexNumber Ch.:-6 Linear inequalities  Ch.:-7 Permutation n combination Ch.: 8 Binomial theorem  Ch:-12 Three Dimensional geometry Ch: -13 Limit And Derivatives  Ch. : 14.Mathematical ReasoningCh:-15 Statistics | | | | | |
| **Oct. 20** |  | |  | Ch:- 9 sequence n series (8marks)  Ch:-10 straight line (8 marks**)** | |
| **Nov.**  **(15)** | **UTII** | | **50** | Ch:-11 Conic section (6marks)  Ch:-12 Three Dimensional Geometry (6marks) | |
| **WRITTEN EVALUATION SYLLABUS UT-II M. M (50)**  Ch.:-6 Linear inequalitiesCh.:-7 Permutation n combination  Ch.: 8 Binomial theoremCh:- 9 sequence n series Ch:-10 straight line  Ch:-11 conic sectionCh:-12 Three Dimensional geometry | | | | | |
| **Dec. (21)** |  | |  | Ch. :14.Mathematical Reasoning(4 marks) | |
| **Jan (18)**  **+ Feb.**  **(18)** |  | |  | Revision | |
| **WRITTEN EVALUATION SYLLABUS Yearly Syllabus M.M. (100)**  All the Chapters (Ch .No -1 to Ch .no 15) | | | | | |

**Physics**

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| **Month** | | **No. of days** | | **Content** | **Marks** | **Practical** |
| April | | 17 | | Ch : 1 - Physical World  Ch : 2 Units And Measurement  Ch : 3 Motion in a straight Line | 3  5  5 | A-1 To measure the diameter of a small spherical/cylindrical body using verniercallipers. 1.(a) To measure the dimensions of a given rectangular block of known mass using verniercallipers and hence find its density. A-2 To determine the internal diameter, depth and volume of a given calorimeter using a verniercallipers. B-1 To make a paper scale of given least count e.g., 0.2 cm, 0.5 cm. |
| May | | 24 | | Ch : 4 Motion in Plane | 5 | A - 3 To find the diameter of a wire with the help of a screw gauge and hence find its volume. A - 4 To measure the thickness of a given sheet using a screw gauge. B - 2 To measure the mass of a given body by using a metre scale. B - 3 To plot a graph for a given set of data, with proper choice of scales and error bars, e.g., graph between voltage and current and verify Ohm's law for the given resistance. |
| July | | 22 | | Revision  Ch - 5 Laws of Motion | 5 | A - 7 To determine the mass of two different objects using a beam balance. |
| **WRITTEN EVALUATION SYLLABUS UT-I M.M. (50)**  Ch : 1 - Physical World Ch : 2 Units And MeasurementCh : 3 Motion in a straight Line  Ch : 4 Motion in Plane Ch - 5 Laws of Motion | | | | | | |
| Au. | | 21 | | Ch - 6 Work , Energy and Power  Ch : 7 System of particles and Rotational motion  Ch - 8 Gravitation | 5  7  5 | A - 9 Using a simple pendulum, plot L-T and L-T2 graph. Hence find effective length of second's pendulum using appropriate graph. A - 10 To study the relationship between force of limiting friction and normal reaction and to find the co-efficient of friction between a block and a horizontal surface. B - 4 To measure the force of limiting friction for rolling of a roller on a horizontal plane. B - 7 To study the energy is dissipated as heat of energy oa a simple pendulum by plotting graph between square of amplitude and time |
| Sept. | | 17 | | Revision  Ch : 9 Mechanical properties of solids | 3 | A - 11 To find the downward force along an inclined plane acting on a roller due to gravitational pull of the earth and study its relationship with the angle of inclination by plotting graph between force and sin 0. A - 12 To determine the Young's modulus of the material of a given wire using searle's apparatus. B - 8 To observe change of state and plot a cooling curve for molten wax. |
| **WRITTEN EVALUATION SYLLABUS Half Yearly Exam M.M. 100 (Theory + Practical)**  Ch : 1 - Physical World Ch : 2 Units And Measurement Ch : 3 Motion in a straight Line  Ch : 4 Motion in Plane Ch - 5 Laws of Motion Ch - 6 Work , Energy and Power  Ch : 7 System of particles and Rotational motion Ch - 8 Gravitation | | | | | | |
| Oct. | 20 | | Ch : 10 Mechanical properties of fluids | | 5 | A - 13 To find the force constant of a helical spring from the load-extension graph. |
| Nov. | 15 | | Ch : 11 Thermal properties of Matter  Ch : 12 Thermo dynamics | | 4  5 | A-16 To determine the co-efficient of viscosity of a given liquid by measuring the terminal velocity of a given spherical body in it. |
| **WRITTEN EVALUATION SYLLABUS UT-II M.M. (50)**  Ch : 9 Mechanical properties of solids Ch : 10 Mechanical properties of fluids  Ch : 11 Thermal properties of Matter | | | | | | |
| Dec. | 21 | | Revision  Ch : 13 Kinetic theory of gases | | 3 |  |
| Jan. | 18 | | Ch : 14 oscillations  Ch : 15 Waves | | 10 |  |
| Feb. | 11 | | Revision | |  |  |
| **WRITTEN EVALUATION SYLLABUS Yearly Exam M.M. (100) (Theory + Practical)**  CH - 1 TO 15 | | | | | | |

**Chemistry**

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| **Months** | **No. of days** | | **Contents** | | **Chapters covered by project** | | **Practical** |
| April | 17 | | Some Basic Concepts of Chemistry  Structure of Atom | |  | | 1. Basic Laboratory Techniques  2. Quantitative Estimation  a) To prepare the standard solution of Oxalic acid and Sodium carbonate |
| May | 24 | | Classification of Elements and Periodicity in Properties  Chemical Bonding and Molecular Structure | |  | | b) To determine the molarity and strength of a given solution of NaOH by titrating it against standard solution of oxalic acid.  c) To determine the molarity and strength of a given solution of HCl by titrating it against standard solution of Sodium carbonate. |
| July | 22 | | States of Matter: Gases and Liquids | |  | | 3. To identify an acid and one basic radical in an inorganic compound. |
| **WRITTEN EVALUATION SYLLABUS UT-I M.M. ( 50)**  Some Basic Concepts of Chemistry Structure of Atom Classification of Elements and Periodicity in Properties  Chemical Bonding and Molecular Structure | | | | | | | |
| Aug. | 21 | | Chemical Thermodynamics  Equilibrium | | |  |  |
| Sept. | 17 | | Revision | | | Environmental Chemistry |  |
| **WRITTEN EVALUATION SYLLABUS Half Yearly Exam M.M. (100) (Theory + Practical)**  Some Basic Concepts of Chemistry Structure of Atom  Classification of Elements and Periodicity in Properties  Chemical Bonding and Molecular Structure States of Matter: Gases and Liquids  Chemical Thermodynamics Equilibrium | | | | | | | |
| Oc. | | 20 | | Redox Reactions Hydrogen  s-Block Elements | |  | 4.To detect out N, S, Cl in the given organic compound |
| Nov. | | 15 | | Some p-Block Elements | |  |  |
| **WRITTEN EVALUATION SYLLABUS UT II M.M. (50)**  Redox Reactions Hydrogen s-Block Elements Some p-Block Elements | | | | | | | |
| Dec. | | 21 | | Organic Chemistry: Some Basic Principles and Techniques | |  |  |
| Jan. | | 18 | | Hydrocarbons | |  |  |
| Feb. | | 11 | |  | | Qualitative and quantitative estimation of organic compounds |  |
| **WRITTEN EVALUATION SYLLABUS Yearly Exam M.M. 100(Theory+ Practical)**  Some Basic Concepts of Chemistry Structure of Atom Classification of Elements and Periodicity in Properties  Chemical Bonding and Molecular Structure States of Matter: Gases and Liquids  Chemical Thermodynamics Equilibrium Redox Reactions Hydrogen  s-Block Elements Some p-Block Elements  Organic Chemistry: Some Basic Principles and Techniques Hydrocarbons | | | | | | | |

**Biology**

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| **Months** | **No. of days** | | **Contents** | **Chapters covered by activities** | **Practical** |
| April | 17 | | Ch 1. The Living World  Ch 2. Biological Classification  Ch 3. Plant Kingdom |  | 1. Study parts of a compound microscope  2. Study and describe three locally available common flowering plants  3. Identification of stages of gamete development |
| May | 24 | | Ch 4. Animal Kingdom  Ch 5. Morphology of Flowering  Plants  Ch 6. Anatomy of Flowering  Plants | Ch 7. Structural Organization in Animals  ( Holiday Assignment) | 5. Study and identification of different types of inflorescence (cymose and racemose)   6. Preparation and study of T.S. of dicot and monocot roots and stems (primary). |
| July | 22 | | Ch 8. Biomolecules  Ch 9. Cell-The Unit of Life |  | 4. Prepare a temporary mount of onion root tip to study mitosis |
| **WRITTEN EVALUATION SYLLABUS UT- I M.M. (50)**  Ch 1. The Living WorldCh 2. Biological ClassificationCh 3. Plant Kingdom  Ch 4. Animal KingdomCh 5. Morphology of Flowering PlantsCh 6. Anatomy of Flowering Plants | | | | | |
| Aug. | 21 | Ch 10. Cell Cycle and Cell Division  Ch 11. Transport in Plants  Ch 12. Mineral nutrition | |  | 8.Study the common disease causing organisms  9. Study the plant population density  10. Study of plasmolysis  study of the rates of transpiration  12. Study of soil and microbes in water |
| Sept. | 17 | Ch 13. Photosynthesis in Higher Plants  Ch 14. Respiration in Plants | |  | 7.  Test for the presence of sugar, starch, proteins  11. To study the rate of respiration in germination |
| **WRITTEN EVALUATION SYLLABUS Half Yearly M.M. (100)(Theory+ Practical)**  Ch 1. The Living WorldCh 2. Biological ClassificationCh 3. Plant Kingdom  Ch 4. Animal KingdomCh 5. Morphology of Flowering PlantsCh 6. Anatomy of Flowering Plants  Ch 7. Structural Organization in AnimalsCh 8. BimolecularCh 9. Cell-The Unit of Life  Ch 10. Cell Cycle and Cell Division | | | | | |
| Oct. | 20 | Ch 15. Plant - Growth and Development  Ch 16. Digestion and Absorption | |  |  |
| Nov. | 15 | Ch 17. Breathing and Exchange of Gases | |  |  |
| **WRITTEN EVALUATION SYLLABUS UT II M.M.(50)**  Ch 11. Transport in PlantsCh 12. Mineral nutritionCh 13. Photosynthesis in Higher Plants  Ch 14. Respiration in PlantsCh 15. Plant - Growth and Development | | | | | |
| Dec. | 21 | Ch 18. Body Fluids and Circulation  Ch19 . Locomotion and Movement  Ch 20. Excretory Products and Their Elimination | | Ch 22. Neural Control and Coordination  (Holidays Assignment) | 13. Study of human skeleton |
| Jan. | 18 | Ch 21. Chemical Coordination and Integration | |  |  |
| Feb. | 11 | Revision | |  |  |
| **WRITTEN EVALUATION SYLLABUS Yearly Exam M.M (100) (Theory+ Practical)**  Complete syllabus | | | | | |

**Informatics Practices**

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| **Month** | **M.M.** | **Contents (Theory)** | **PRACTICALS** |
| April | **17** | Ch 1 – Hardware Concept  Ch 2 – Software Concepts & Productivity Tools  Ch 10 – DBMS Concepts | Practical of SQL |
| May | **9** | Ch 11 - Introduction to My SQL  Ch 12 – Simple Queries SQL | Practical of SQL |
| July | **22** | Ch 13- My SQL Functions  Ch 14 Table, Creation & Data Manipulation Commands | Practical of SQL |
| **WRITTEN EVALUATION SYLLABUS**UT – I M.M. (50)  Ch 1 – Hardware Concept Ch 2 – Software Concepts & Productivity Tools Ch 10 – DBMS Concepts  Ch 11 - Introduction to My SQL Ch 12 – Simple Queries SQL | | | |
| Aug. | **21** | Ch 3 – Introduction of Python  Ch 4 – Operator in Python | Practical of Python |
| Sep. | **9** | **Revision** |  |
| **WRITTEN EVALUATION SYLLABUS Half yearly Exam M.M. (100)**  Ch 3 – Introduction of Python  Ch 4 – Operator in Python  Ch 12 – Simple Queries SQL Ch 13- My SQL Functions  Ch 14 Table, Creation & Data Manipulation Commands | | | |
| Oct. | **19** | Ch 5- Control/Condition statement  Ch 6 – Loops in Python  Ch 7 – List and Dictionary in Python | Practical of Python |
| Nov. | **15** | Ch 8 – Data Structure in Python Panda | Practical of Python |
| **WRITTEN EVALUATION SYLLABUS UT- II M.M. (50)**  Ch 5- Control/Condition statement Ch 6 – Loops in Python Ch 7 – List and Dictionary in Python | | | |
| Dec. | **18** | Ch 9- Society law and ethics | Practical of Python |
| Jan. | **18** | **Revision** |  |
| Feb. | **18** |  | |
| **WRITTEN EVALUATION SYLLABUS Yearly Exam M.M. (100)**  Ch 5- Control/Condition statement  Ch 6 – Loops in Python  Ch 7 – List and Dictionary in Python  Ch 8 – Data Structure in Python Panda  Ch 9- Society law and ethics  Ch 14 Table, Creation & Data Manipulation Commands | | | |

**Computer Science**

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| **Month** | **No. of Days** | | **Contents (Theory)** | | **PRACTICALS** |
| April | **17** | | **Computer Fundamentals**  L – 1 Computer Overview  L – 2 Software Concepts  L- 3 Data Representation | | Basis of C++ |
| May | **9** | | L – 4 Flow Chart  L- 13 Data Base | | Practical of SQL |
| July | **22** | | L – 13 Data Base (My SQL)  L – 12 Sorting | | Practical of SQL |
| **WRITTEN EVALUATION SYLLABUS UT- I M.M. (50)**  L – 1 Computer Overview L – 2 Software Concepts L- 3 Data Representation L – 4 Flow Chart  L- 13 Data Base(My SQL) | | | | | |
| Aug. | | **21** | | L - 5 Introduction of Python  L – 6 Operators | Practical of Python |
| Sept. | | **9** | | **Revision** | **Programming in C++** |
| **WRITTEN EVALUATION SYLLABUS Half Yearly Exam M.M. (100)**  L- 3 Data Representation L – 4 Flow Chart L - 5 Introduction of Python L – 6 Operators  L – 12 Sorting L – 13 Data Base (My SQL) | | | | | |
| Oct. | | **19** | | L -7 Control Statements  L – 8 Loops | Practical of Python |
| Nov. | | **15** | | L – 9 Functions | Practical of Python |
| **WRITTEN EVALUATION SYLLABUS UT - II M.M. (50)**  L -7 Control Statements L – 8 Loops L – 9 Functions | | | | | |
| Dec. | | **18** | | L – 10 Strings  L – 11 Lists | Practical of Python |
| Jan. | | **18** | | L- 14 Society , Law and Ethics | Practical of Python & SQL |
| Feb. | | **18** | | Revision | Practical of Python & SQL |
| **WRITTEN EVALUATION SYLLABUS Yearly Exam M.M. (100)**  L -7 Control Statements L – 8 Loops L – 9 Functions L – 10 Strings L – 11 Lists Sorting  L – 13 Data Base (My SQL) L- 14 Society , Law and Ethics | | | | | |