** 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 ladyPoem : A PhotographGrammar :Jumbled Sentences & Gap FillingWriting : Formal Letters & NoticeReading : Comprehension | Assignments and worksheets will be provided every fortnight according to the requirement of the chapters |
| MAY | 24 | Hornbill : … If We Can All Be TogetherPoem : The voice of the rainSnapshot : The summer of the beautiful horseGrammar :Jumbled Sentences & Gap FillingWriting : Advertisement (Classified and Display)Reading : Note making |
| JULY | 22 | Snapshort : The Address, Ranga’s MarriageGrammar :Jumbled Sentences, Editing & Gap FillingWriting : 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 TogetherPoem :1. A Photograph2. The voice of the rainSnapshot :1. The summer of the beautiful horse2. The Address3. Ranga’s MarriageWriting : Notice Writing,Advertisement (Classified) & Formal LetterReadingComprehension & Note making |
| AUG. | 21 | Hornbill : The Ailing PlanetPoem : ChildhoodSnapshot : Mother’s dayGrammar :Integrated GrammarWriting : Report writing and InvitationReading : Comprehension Note making |
| SEPT. | 8 | Grammar :Integrated GrammarWriting : Report writing and InvitationReading : 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 PlanetPoem :1. A Photograph2. The voice of the rain3. ChildhoodSnapshot :1. The summer of the beautiful horse2. The Address3. Ranga’sMarriage4. Mother’s dayWriting : Notice Writing,Advertisement (Classified) & Formal LetterGrammar : Integrated Grammar, Jumbled Sentences, Editing & Gap FillingReadingComprehension & Note making |
| OCT. |  | Snapshot : Albert Einstine At School& BirthGrammar :Integrated GrammarWriting : Speech WritingReading : Comprehension Note making |  |
| NOV. |  | Hornbill : The Browining VersionPoem : Father to SonGrammar :Integrated GrammarWriting : Speech WritingReading : Comprehension Note making |  |
| **Written Evaluation Syllabus : UNIT TEST – II M.M. (50)**Hornbill : The Browining VersionPoem : Father to SonSnapshot : Albert Einstine At School, BirthGrammar :Integrated GrammarWriting:Speech writing, InvitationReading : 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 VersionPoem :1. A Photograph2. The voice of the rain3. Childhood4. Father to SonSnapshot :1. The summer of the beautiful horse2. The Address3. Ranga’s Marriage4. Mother’s day5. Albert Einstine At School 6. BirthWriting : Notice Writing,Advertisement, Poster writing, Formal Letter, Speech, Report Writing, Article &DebateGrammar : Integrated Grammar, Jumbled Sentences, Editing & Gap FillingReadingComprehension & Note making |

**Physical Education**

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| **Month** | **Days** | **Chapters To be covered** | **Activity** | **Worksheet** **Chapter wise** |
| April | 17 | Sports Injuries Awards – Dronacharya Award1. Changing trends and careers in Physical Education
2. Olympic movement
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| May | 9 | 1. Physical fitness, wellness and lifestyle
2. Physical education and sports for differently Abled
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| July  | 22 | Revision |  |  |
| **Written Evaluation Syllabus : UT I M.M. (50)**Sports Injuries Awards – Dronacharya Award1) 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
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| Sep | 17 | Revision |  |  |
| **Written Evaluation Syllabus : Half Yearly Exam M.M. (100) (Theory + Practical)**Sports Injuries Award - Arjuna Award1) Changing trends and careers in Physical Education2) Olympic movement3) 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
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| 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 inequalitiesCh.:-7 Permutation n combination Ch.: 8 Binomial theoremCh:-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 combinationCh.: 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 MeasurementCh : 3 Motion in a straight Line  | 355 | 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 PowerCh : 7 System of particles and Rotational motionCh - 8 Gravitation | 575 | 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 PowerCh : 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 MatterCh : 12 Thermo dynamics | 45 | 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 ChemistryStructure of Atom |  | 1. Basic Laboratory Techniques2. Quantitative Estimationa) To prepare the standard solution of Oxalic acid and Sodium carbonate |
| May | 24 | Classification of Elements and Periodicity in PropertiesChemical 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 AtomClassification of Elements and Periodicity in Properties Chemical Bonding and Molecular Structure States of Matter: Gases and LiquidsChemical Thermodynamics Equilibrium |
| Oc. | 20 | Redox Reactions Hydrogens-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 PropertiesChemical Bonding and Molecular Structure States of Matter: Gases and LiquidsChemical 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 WorldCh 2. Biological ClassificationCh 3. Plant Kingdom |  | 1. Study parts of a compound microscope2. Study and describe three locally available common flowering plants3. Identification of stages of gamete development |
| May | 24 | Ch 4. Animal KingdomCh 5. Morphology of Flowering PlantsCh 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. BiomoleculesCh 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 KingdomCh 4. Animal KingdomCh 5. Morphology of Flowering PlantsCh 6. Anatomy of Flowering Plants |
| Aug. | 21 | Ch 10. Cell Cycle and Cell DivisionCh 11. Transport in PlantsCh 12. Mineral nutrition |  | 8.Study the common disease causing organisms9. Study the plant population density 10. Study of plasmolysisstudy of the rates of transpiration 12. Study of soil and microbes in water |
| Sept. | 17 | Ch 13. Photosynthesis in Higher PlantsCh 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 KingdomCh 4. Animal KingdomCh 5. Morphology of Flowering PlantsCh 6. Anatomy of Flowering PlantsCh 7. Structural Organization in AnimalsCh 8. BimolecularCh 9. Cell-The Unit of LifeCh 10. Cell Cycle and Cell Division |
| Oct. | 20 | Ch 15. Plant - Growth and DevelopmentCh 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 PlantsCh 14. Respiration in PlantsCh 15. Plant - Growth and Development |
| Dec. | 21 | Ch 18. Body Fluids and CirculationCh19 . Locomotion and MovementCh 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 ToolsCh 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 FunctionsCh 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 ConceptsCh 11 - Introduction to My SQL Ch 12 – Simple Queries SQL |
| Aug. | **21** | Ch 3 – Introduction of PythonCh 4 – Operator in Python | Practical of Python |
| Sep. | **9** | **Revision**  |  |
| **WRITTEN EVALUATION SYLLABUS Half yearly Exam M.M. (100)**Ch 3 – Introduction of PythonCh 4 – Operator in PythonCh 12 – Simple Queries SQL Ch 13- My SQL Functions Ch 14 Table, Creation & Data Manipulation Commands |
| Oct. | **19** | Ch 5- Control/Condition statementCh 6 – Loops in PythonCh 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 statementCh 6 – Loops in PythonCh 7 – List and Dictionary in Python Ch 8 – Data Structure in Python PandaCh 9- Society law and ethicsCh 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 OverviewL – 2 Software ConceptsL- 3 Data Representation  | Basis of C++ |
| May | **9** | L – 4 Flow ChartL- 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 ChartL- 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 OperatorsL – 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 StringsL – 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 |