SYLLABUS 2014-2015

CLASS: XII (Science)



Recog. by Directorate of Education, Govt. of NCT of Delhi Aff. to C.B.S.E., Ministry of H.R.D., Govt. of India

BRITISH | International School Award COUNCIL | 2010-2013

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Our Vision: Excellence in Education

Our Mission : To strive for the strong foundation of young learners in the age group of 5+ to 17 years which facilitate them to become active participants in life long learning and earning by integrating both national and international dimensions in the curriculum supported by the state-of-the-art infrastructure.

Our Philosophy : "You are a Child of immortality, Your roots go deep to eternity, Your reach is unto infinity."

" A child is not a vessel to be filled but a lamp to be lighted."

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Class: XII

RUKMINI DEVI PUBLIC SCHOOL Class XII (Science)

Introduction: This booklet contains the syllabus along with a tentative programme of activities, functions and the school almanac.

Evaluation System:

1. There would be a system of formative Assessments and other assessments for each subject as per the prescribed syllabus and test schedule.

Terms			I	I	I	
Exam/Test	CT-1	June Test	CT-2	First Term Exam	CT-3	Pre -Board Exam
Maximum Marks	25	*	25	*	*	*

^{*}Maximum Marks in June Test, First Term Exam, CT-3 and Pre Board Exam will vary w.r.t. each subject

- These test would aim at evaluating the understanding of the students and preparing them for their Final Exam.
- *CT-1, 2, & First Term Exam will include only the syllabus prescribed for that particular cycle/term while CT-3 Exam and Pre Board Exam will
 include the entire syllabus.
- In case there happens to be a holiday on the day of a particular test, the test will be held on the next working day.
- It is compulsory for each student to appear in all the tests.
- Each student should have 75 % of attendance in the session to appear in Final Board Exam.
- Should a student fail to appear for a test/exam (whatever grounds), he / she would have to pay Rs. 200/- per test and compulsorily appear in the retest/exam of the same. The amount would be deposited to the incharge before the retest.

Note: Please see page 3 for Examination schedule.

- 2. The answer sheets of Class Tests and other Exams having been checked by the teacher will be sent to the parents for their information and signature / acknowledgment.
 - The answer sheets after being signed by the parents have to be sent to the concerned class teacher the very next day for verification .
 - Any re-totaling / rechecking of answer sheets will not be entertained, once the student receives the answer copy and leaves the classroom.
- 3. Scheme of studies and their evaluation is as per CBSE Curriculum:
 - The subjects in which marks have to be awarded include: English, Mathematics/ Physical Education, Chemistry, Physics, Biology / Computer Science/ Physical Education / Economics.
 - The following compulsory internal assessment subjects/activities/qualities will be awarded grades as per the under mentioned grade key on the basis of continuous and comprehensive evaluation:
 - Physical & Health Education
 - General Studies
 - Work Education: The student has to opt for any one of the following options
 (a) Textile Designing (b) Applied Art (c) Craft (d) Electronics (e) Indian Dance (f) Contemporary Dance (g) Vocal Music
 (h) Instrumental Music (i) Dramatics.
 - Personal & Social Qualities: These include Regularity, Punctuality, Cleanliness, Attitude towards Teachers & Schoolmates and Participation in School Programmes.

Grade Key

Grade	A1	A2	B1	B2	C1	C2	D1	D2	E
Criteria	The top1/8 of the passed candidate	The next 1/8 of the passed candidate	Failed candidate						

Examination Schedule		Session: 2014-2015			Class- XII (Science	
*CT-1	**June Test	*CT-2	**First Term Exam	**CT-3	Pre-Board	
28.04.14		21.07.14		24.11.14		
05.05.14		28.07.14	08.09.14	27.11.14	22.12.14	
	20.06.14		00103124		to 13.01.15	
12.05.14	to	04.08.14	to	20.11.14	13.01.13	
	30.06.14		22.09.14		Date Sheet: Chemistry - 22.12.14	
19.05.14		12.08.14		17.11.14	English - 26.12.14 Maths/Phy. Ed 30.12.14	
23.05.14		20.08.14		01.12.14	Physics - 09.01.15 Bio./Comp./Eco. /Phy. Ed 13.01.15	
	*CT-1 28.04.14 05.05.14 12.05.14	*CT-1 **June Test 28.04.14 05.05.14 20.06.14 12.05.14 to 30.06.14	*CT-1 **June Test *CT-2 28.04.14 21.07.14 05.05.14 28.07.14 12.05.14 to 04.08.14 19.05.14 12.08.14	*CT-1 **June Test *CT-2 **First Term Exam 28.04.14 21.07.14 05.05.14 28.07.14 12.05.14 to 04.08.14 to 30.06.14 12.08.14	*CT-1 **June Test *CT-2 **First Term Exam **CT-3 28.04.14 21.07.14 24.11.14 05.05.14 28.07.14 08.09.14 12.05.14 to 04.08.14 to 20.11.14 19.05.14 12.08.14 17.11.14	

Subject Code: 301 - English Core	Syllabus: 2014-2015	Class : XII

Prescribed Books: 1. Flamingo, Text book class XII (Core Course) NCERT

2. Vistas, Supplementary Reader in English class XII (Core Course) NCERT

3. Novel – The Invisible Man (H.G. Wells)

TEST/EXAM (M.M.)	DURATION	PARTICULARS	TEST DATE
CT-1 25	15.04.14 to 27.04.14	BOOK 1 : L – 1: The last lesson, Poem 1 – My Mother at Sixty Six BOOK 2 : L – 1: The Tiger King Writing Skills : Notice, Poster, Letter to Editor Reading Skills : Reading Comprehension, Note – Making & Summary	28.04.14
CT-2 25	28.04.14 to 20.07.14	BOOK 1 : L - 2: Lost - Spring Stories of Stolen Childhood, Poem 2 - An Elementary School Classroom in a slum L - 3: Deep Water L - 4: The Rattrap, Poem 3 - Keeping Quiet L - 5: Indigo, Poem 4 - A Things of Beauty BOOK 2 Writing Skills : Article Writing	21.07.14
	21.07.14 to 07.09.14	BOOK 1 : L – 6: Going Places BOOK 2 : L – 2: The Enemy L – 4: On the Face of it Writing Skills : Job – Application, Report Writing, Advertisements. Reading Skills : Reading Comprehension, Note – Making & Summary	

100	08.09.14 to 22.09.14	Novel: Ch $-$ 1 $-$ 10: (Self Reading) Syllabus covered from 15.04.14 till 07.09.14 + Assignments Provided	
CT – 3 100	23.09.14 to 23.11.14	BOOK 1 : Poem 5 : Aunt Jennifer's Tigers BOOK 2 : L – 5: Evans Tries an O – Level L – 6: Memories of Childhood Writing Skills : Factual description, Business and Official letters, Invitations, Debate and Speech + Revision of Entire Syllabus Note : Complete Syllabus would be covered in CT – 3	24.11.2014
	24.11.14 Till Final exam	Revision and Discussion of Sample Papers Novel: Ch - 11 - 15: (Self Reading) Pre Board: Date 26.12.2014 Syllabus: Complete syllabus covered during the session + Assignments provided	
Final Exam	Date sheet will be provided by CBSE	Complete Syllabus covered during the session + Assignments Provided	
Reference Book	s: Oxford Comm	nunicative English (class 12).	

Subject Code : 0	941 - Mathematic	Syllabus : 2014-2015	Class : XI
Prescribed Book	s: Mathematics –	A Textbook for Class XII Part I-II (NCERT)	
TEST/EXAM (M.M.)	DURATION	PARTICULARS	TEST DATE
CT - 1 25	15.04.14 to 04.05.14	Ch 1 : Relations and Functions Ch 2 : Inverse Trigonometric Functions Ch 3 : Matrices Ch 4 : Determinants	05.05.2014
CT - 2 25	05.05.14 to 27.07.14	Ch 5 : Continuity and Differentiability Ch 6 : Application of Derivatives Ch 7 : Integrals (Ex 7.1 to Ex 7.7)	28.07.2014
	28.07.14 to 07.09.14	Ch 7 : Integrals (Contd. Ex 7.8 to Ex 7.11) Ch 8 : Application of Integrals Ch 9 : Differential Equations Ch 12 : Linear Programming + Revision	
irst Term Exam	08.09.14 to 22.09.14	Syllabus covered from 15.04.14 to 07.09.14	+ Assignments Provided

CT - 3 100	23.09.14 to 26.11.14	Ch 10 : Vectors Ch 11 : Three Dimensional Geometry Ch 13 : Probability + Revision Note : Complete Syllabus would be covered in CT 3 27.11.14
	27.11.14 Till Final exam	Revision of the entire syllabus and Discussion of Sample Papers Pre Board: Date 30.12.2014 Syllabus: Complete syllabus covered during the session + Assignments provided
Final Exam	Date sheet will be provided by CBSE	Complete Syllabus covered during the session + Assignments Provided
Reference Book	Mathematics for Cl	ass XII: R.D. Sharma, ass XII: M.L. Aggarwal ass XII: R.S. Aggarwal

Subject Code : 0	048 - Physical Ed	ucation (Theory) Syllabus : 2014-2015	Class : XII			
Prescribed Books: Saraswati Health & Physical Education						
TEST/EXAM (M.M.)	DURATION	PARTICULARS	TEST DATE			
CT-1 25	Against Maths 15.04.14 to 04.05.14	Part A Unit-1 : Sports Environment & Society Unit-2 : Adventure Sports & leadership Training Unit-3 : Sports & Nutrition	05.05.14			
	Against Biology 15.04.14 to 22.05.14	Part B Unit-1: 1.1 History of the Game / Sport 1.2 Latest General Rules of the Game / Sport 1.3 Specifications of Playfield and Sport Equipment.	23.05.14			
CT-2 25	Against Maths 05.05.14 to 27.07.14	Part A Unit-4 : Planning in Sports Unit-5 : Postures Unit-6 : Children & Sports	28.07.14			
	Against Biology 23.05.14 to 19.08.14	Part B Unit I : 1.4 Important Tournaments and Venues 1.5 Sports Personalities 1.6 Proper Sportswear and its importance Unit II : 2.1 Fundamental skills of the Game / Sport 2.2 Specific Exercises of warm – up and conditioning 2.3 Related Sports Terminologies	20.08.14			

	Against Maths 28.07.14 to 07.09.14	Part A Unit-7: Test & Measurement in Sports Unit-8: Physiology & Sports Unit-9: Biomechanics & Sports	
	Against Biology 20.08.14 to 07.09.14	*Part B Unit 2 : 2.3 Specific Exercises of Warm-up & conditioning 2.4 Sports Awards 2.5 Common sports Injuries & its Prevention	
First Term Exam	08.09.14 to 22.09.14	Syllabus covered from 15.04.14 to 07.09.14 + Assignments Provided	
CT-3 70	Against Maths 23.09.14 to 26.11.14	Part A Unit 10 : Psychology & Sports Unit 11 : Training in Sports	27.11.14
	Against Biology 23.09.14 to 30.11.14	*Part B Unit-2 : 2.6: SGFI & its Organizational Set Up	01.12.14

	27.11.14 till Final Exam	Revision of the entire syllabus and Discussion of Sample Papers Pre Board: 30.12.14 Syllabus: Complete syllabus covered during the session + Assignments provided			
Final Exam	Date sheet will be provided by CBSE	Complete Syllabus covered during the session + Assignments Provided			
	* Part B relates to any one game/ sports chosen by the student out of Basket Ball, Handball, Kho Kho & Volley Ball Reference Books: 1. Physical Education & Health by Dr. A.K. Srivastava & Dr. N.K. Gaur. 2. Together with Physical Education by S. Sahni				

Subject Code : 048	- Physical Education	(Practical) Syllabus : 2014-2015	Class : XII
Prescribed Books :	Health & Physical Ed	ucation (Saraswati Publication)	
TEST/EXAM (M.M.)	DURATION	PARTICULARS	
	Against Maths 15.04.14 to 04.05.14	AAHPHER TEST (Score of ten minimum students) - Pull ups (for boys); flexed arm hang (for girls) - Flexed leg sit ups - 50 m yard dash	
	Against Biology 15.04.14 to 22.05.14	- Standing Broad Jumps - Shuttle run - 600 yard run/walk	
	Against Maths 05.05.14 to 27.07.14	ATHLETICS:	
	Against Biology 23.05.14 to 19.08.14	 Middle & Long distance race Throws 	
	Against Maths 28.07.14 to 07.09.14	Specific Exercises of warm up and conditioning for different game or sports YOGA	

	Against Biology 20.08.14 to 07.09.14	AEROBICS ASANAS: Corrective Asanas, Meditative Asanas and Relaxation Asanas,
First Term Exam	08.09.14 to 22.09.14	Practicals Completed from 15.04.14 to 07.09.14 + Assignments Provided
	Against Maths 23.09.14 to 26.11.14	SKIILL OF ANY CHOOSEN GAME - Fundamental skills of game of specialization
	Against Biology 23.09.14 to 30.11.14	 Latest General Rules of the Game/ Sport Specifications of Play Court or Grounds
	27.11.14 till Final Exam	Revision of the entire syllabus and Discussion of Sample Papers Syllabus: Complete syllabus covered during the session + Assignments provided
Final Exam	Date sheet will be provided by CBSE	Practical: Physical Fitness Test + VIVA + Record File

Subject Code: 0	43 - Chemistry (T	Theory) Syllabus: 2014-2015	Class : XII
Prescribed Book	s: 1. Book – 1 & 2 (Chemistry, A Textbook for class XII (NCERT)	
TEST/EXAM (M.M.)	DURATION	PARTICULARS	TEST DATE
CT-1 25	15.04.14 to 11.05.14	Book 1 Unit 1 : The Solid State Unit 2 : Solutions Unit 3 : Electrochemistry Unit 4 : Chemical Kinetics	12.05.14
CT-2 25	12.05.14 to 03.08.14	Unit 5 : Surface Chemistry Unit 6 : General Principles and Processes of Isolation of Elements Unit 7 : The p - Block Elements Unit 8 : The d & f - Block Elements Unit 9 : Co - ordination Compounds	04.08.14
	04.08.14 to 07.09.14	Book 2 Unit 10 : Haloalkanes & Haloarenes Unit 11 : Alcohols, Phenols & Ethers	
First Term Exam	08.09.14 to 22.09.14	Syllabus Covered from 15.04.14 to 07.09.14 + Assignments Provide	ed

CT-3 70	23.09.14 to 19.11.14	Unit 12 : Aldehydes, Ketones & Carboxylic Acids Unit 13 : Amines Unit 14 : Biomolecules Unit 15 : Polymers Unit 16 : Chemistry in everyday life + Revision Note : Complete Syllabus would be covered in CT – 3	20.11.14 Note: Complete syllabus would be covered in CT-3
	20.11.14 till Final Exam	Revision and Discussion of Sample Papers Pre Board : Date 22.12.14 Syllabus: Complete syllabus covered during the session + Assignments processes.	rovided
Final Exam	Date sheet will be provided by CBSE	Complete Syllabus covered during the session + Assignments Provided	
Reference Book	(.) =	ompanion Chemistry for class XII New Course Chemistry for class XII	

Subject Code: 043 - Chemistry ((Practical) Syllabus: 2014-2015	Class : XII
TEST/EXAM (M.M.)	DURATION	PARTICULARS	
	15.04.14 to 11.05.14	Qualitative Analysis 1. Determination of one cation and one anion in a given salt. Cations: Pb ²⁺ , Cu ²⁺ , As ³⁺ , Al ³⁺ , Fe ³⁺ , Mn ²⁺ , Zn ²⁺ , Co ²⁺ , Nl ²⁺ , Ca ²⁺ , Sr ²⁺ , Ba ²⁺ , Mg ²⁺ , NH ₄ ⁺ Anions: CO ₃ ²⁻ , S ²⁻ , SO ₃ ²⁻ , SO ₄ ²⁻ NO ₂ , NO ₃ , Cl ⁻ , Br ⁻ , I ⁻ , PO ₄ ³⁻ , C ₂ O ²⁻ ₄ , CH ₃ COO Allocation of *Project	
	12.05.14 to 03.08.14	Surface Chemistry 2(a) Preparation of one lyophilic and lyophobic sol. Lyophilic sol starch, egg albumin and gum Lyophobic sol aluminum hydrozide, ferric hydroxide, arsenious sulphide. 2(b) Study of the role of emulsifying agents in stabilizing the emulsion of different oils. Chemistry Kinetics 3 (a) Effect of concentration and temperature on the rate of reaction between Na ₂ S ₂ O ₃ & HCl 3 (b) Study of reaction rates of any one of the following: (i) Reaction of iodide ion which hydrogen peroxide at room temperature using different con iodide ions. (ii) Reaction between potassium iodate (KIO ₃) and sodium sulphite (Na ₂ SO ₃) using starch indicator (Clock reaction) Thermochemistry 4. Change in enthalpy after mixing chloroform and acetone. Electrochemistry 5. Variation of cell potential in Zn / Zn ²⁺ II Cu ²⁺ / Cu with change in concentration of electrons.	n solution as

	04.08.14 to 07.09.14	Chromatography 6 (a) Separation of pigments from extracts of leaves and flower by paper chromatography and to determine Rf values. 6 (b) Separation of constituents present in an inorganic mixture containing two cations only (constituents having large difference in Rf values to be provided) Preparation of Inorganic Compounds 7 (a) Preparation of double salt of ferrous ammonium sulphate or potash alum 7 (b) Preparation of potassium ferric oxalate. Quantitative Analysis 8. Determination of concentration / Molarity of KMnO ₄ , solution by titrating it against a standard solution of: (a) Oxalic acid, (b) Ferrous ammonium sulphate. Submission of Practical File — 01.09.14
First Term Exam	Date sheet will be provided in advance	Practicals covered from 15.04.14 to 07.09.14 Practical: 20 Marks + Viva Voce: 5 Marks + File: 5 Marks

	23.09.14 to 19.11.14	Preparation of Organic Compounds 9 (a) Di – benzal acetone 9 (b) Aniline Yellow or 2 – Naphthol aniline dye. Test for the functional groups present in the organic compounds 10. Tests for Unsaturation, alcoholic, phenolic, ketonic, carboxylic and amino (primary) groups 11. Study of Carbohydrates, Fats & Protein in pure form & detection of their presence in given food stuffs. Qualitative Analysis (contd.) 12. Determination of one cation and one anion in a give salt. Cations: Pb²+, Cu²+, As³+, Al³+, Mn²+, Zn²+, Co²+, Nl²+, Ca²+, Sr²+, Ba²+, Mg²+, NH²+, Anions: CO₃²-, S²-, SO²-₃, SO²-₃, NO⁻-₃, NO⁻-₃, Cr, Br, I⁻-, PO₃³-, C₂O₃²-, CH₃COO⁻-
	20.11.14 till Final Exam	Revision of Practicals & Completion of Project Work Mock Practical & Submission of file + Project Report
Final Exam	Date sheet will be provided in advance	Practicals completed during the session Volumetric Analysis : 10 Marks + Salt Analysis : 8 Marks + Content Based Experiments : 6 Marks + Class Record & Viva : 6 Marks

Subject Code:	042 - Physics (Th	neory) Syllabus : 2014-2015	Class: XI
Prescribed Book	(s: Physics - Text b	ook for class XII, Part I & II (NCERT)	
TEST/EXAM (M.M)	DURATION	PARTICULARS	TEST DATE
CT – 1 25	15.04.14 to 18.05.14	Unit I : Electrostatics Ch - 1 : Electric Charges and Fields Ch - 2 : Electrostatics Potential and Capacitance Unit - II : Current Electricity Ch - 3 : Current Electricity	19.05.14
CT – 2 25	19.05.14 to 11.08.14	Unit – III: Magnetic Effect of Current & Magnetism Ch – 4 : Moving Charges and Magnetism Ch – 5 : Magnetism and Matter Unit – IV : Electromagnetic Induction & Alternating Current Ch – 6 : Electromagnetic Induction Ch – 7 : Alternating Current Unit – V : Electromagnetic Waves Ch – 8 : Electromagnetic Waves	12.08.14
	12.08.14 to 07.09.14	Unit - VI: Optics Ch - 9: Ray Optics and Optical Instruments Ch - 10: Wave Optics Unit-VII: Dual Nature of Matter Ch - 11: Dual Nature of Radiation and Matter	

First Term Exam	08.09.14 to 22.09.14	Syllabus Covered from 15.04.14 to 07.09.14 + Assignments Provided
CT – 3 70	23.09.14 to 16.11.14	Unit-VIII : Atoms & Nuclei 17.11.14 Ch - 12 : Atoms Note: Ch - 13 : Nuclei Complete Unit - IX : Electronic Devices syllabus Ch - 14 : Semi conductor & Electronics Devices would be Unit - X : Communication Systems covered in Ch - 15 : Communication Systems CT - 3
	17.11.14 till Final Exam	Revision and Discussion of Sample Paper Pre Board : Date : 09.01.2015 Syllabus: Complete Syllabus covered during the session + Assignments provided
Final Exam	Date sheet will be provided by CBSE	Complete Syllabus covered during the session + Assignments Provided
Reference boo		undamental Physics nysics with Modern Physics by Hugh. D. Young

	Subject Code: 042 - Physics (Practical) Prescribed Books: Physics-Text book for class XII, Part I & II (NCERT)			
TEST/EXAM (M.M)	DURATION	PARTICULARS		
	15.04.14 to 18.05.14	 Experiments: To find resistance of a given wire using metre bridge and hence determine the specific resistance of material. To determine resistance per cm of a given wire by plotting a graph of potential difference versus current. To verify the laws of combination (series / parallel) of resistances using a metre bridge. To compare the emf of two given primary cells using potentiometer. To determine the internal resistance of given primary cell using potentiometer. 		
	19.05.14 to 11.08.14	 Experiments: 6. To determine resistance of a galvanometer by half – deflection method and to find its figure of merit. 7. To Find the frequency of A.C. mains using sonometer Activities: 1. To assemble the components of a given electrical circuit. 2. To study the variation in potential drop with length of a wire for a steady current. 3. To draw the diagram of a given open circuit comprising at least a battery, resistor / rheostat, key, ammeter and voltmeter. Mark the components that are not connected in proper order and correct the circuit and also the circuit diagram. 4. To identify a diode, an LED a transistor, and I.C., a resistor and a capacitor from mixed collection of suitems. 5. To observe refraction and lateral deviation of a beam light incident obliquely on a glass slab. 6. To observe Polarization of light using two Polaroids. 		

	12.08.14 to 07.09.14	Experiments: 8. To find the value of v for different values of u in case of a concave mirror and to find the focal length. 9. To find the focal length of a convex lens by plotting graphs between u and v. 10. To find the focal length of a concave lens mirror, using a convex lens. 11. To determine retractive index of a glass slab using a travelling microscope.
First Term Exam	Date sheet will be provided in advance	Submission of Practical File, Activity File and Project Report on 03.09.14. Practicals completed from 15.04.14 - 07.09.14 will be evaluated
	23.09.14 to 16.11.14	 Experiments: 12. To draw the I – V characteristic curve of a p – n junction in forward bias and reverse bias. 13. To draw the characteristic curve of a Zener diode and to determine its reverse breaks down voltage. 14. To study the characteristic of a common – emitter npn or pnp transistor and to find out the values of current and voltage gains. 15. To determine angle of minimum deviation for a given prism by plotting a graph between angle of incidence and angle of deviation.
	17.11.14 till Final Exam	Revision of Practicals completed during the session. Mock Practical & Submission of Practical File, Activity File and Project Report on 21.11.14 to 22.11.14.
Final Exam	Date sheet will be provided in advance	Practicals completed during the session Practical : 16 marks + Practical record : 6 marks + Project: 3 marks + viva : 5 marks

Subject Code : 0)44 - Biology (The	eory) Syllabus : 2014-2015	Class : XI
Prescribed Boo	oks: Biology-A Tex	tbook for class XII (NCERT)	
TEST/EXAM (M.M.)	DURATION	PARTICULARS	TEST DAT
CT-1 25	15.04.14 to 22.05.14	Unit VI - Reproduction Ch 1 : Reproduction in Organisms Ch 2 : Sexual Reproduction in Flowering Plants Ch 3 : Human Reproduction Ch 4 : Reproductive Health Unit VII - Genetics and Evolution Ch 5 : Principles of Inheritance and Variation.	23.05.14
CT-2 25	23.05.14 to 19.08.14	Unit VII – Genetics and Evolution (contd.) Ch 6 : Molecular Basis of Inheritance Ch 7 : Evolution Unit VIII – Biology in Human Welfare Ch 8 : Human Health and Diseases Ch 9 : Strategies for Enhancement in Food Production	20.08.14
	20.08.14 to 07.09.14	Unit VIII – Biology in Human Welfare (Contd.) Ch 10 : Microbes in Human Welfare Unit IX – Biotechnology Ch 11 : Biotechnology : Principles and Processes Ch 12 : Biotechnology & its Applications	

First Term Exam	08.09.14 to 22.09.14	Syllabus Covered from 15.04.14 to 07.09.14 + Assignments Provided	
CT-3 70	23.09.14 to 30.11.14	Unit X – Ecology Ch 13 : Organism and Populations Ch 14 : Ecosystem Ch 15 : Bio – diversity and Conservation Ch 16 : Environmental Issues Note : Complete syllabus would be covered in CT – 3	01.12.14
	01.12.14 Till final exam	Revision and Discussion of Sample Papers Pre Board : Date 13.01.2015 Syllabus: Complete syllabus covered during the session + Assignments provided	
Final Exam	Date sheet will be provided by CBSE	Complete Syllabus covered during the session + Assignments Provided	
Reference Bo		of Biology by Pradeep Publication lementary Biology by K. N. Bhatia & M.P. Tyagi	

Subject Cod	e : 044-Biolo	gy (Practical) Syllabus : 2014-2015 Class	s : XI
TEST/EXAM (M.M.)	DURATION	PARTICULARS	
	15.04.14 to 22.05.14	 Study Pollen germination on a slide. Prepare a temporary mount of onion root tip to study mitosis. Study of flowers adapted to pollination by different agencies (wind, Insect, bird) Study of pollen germination on stigma through a permanent slide & study pollen germination on slide. Study & identify stages of gamete development i.e. T.S. Testis and T.S. Ovary through permanent slide. Study of T.S. of blastula through permanent slide. Allocation of Project	
	23.05.14 to 19.08.14	 Study Mendelian inheritance using seeds of different colour / sizes of any plant. Study prepared pedigree charts of genetic traits such as rolling of tongue, blood groups, earlobes, widow's and colour blindness. Isolation of DNA from available plant material such as spinach, green pea seeds, papaya etc. Study the effect of temperature and three different PH on the activity of Salivary amylase on starch. 	peak
	20.08.14 to 07.09.14	11. To identify common disease causing organisms like Ascaris, Entamoeba, Plasmodium, Ringworm through permanent slide or specimen. Submission of Practical File – 05.09.14	
First Term Exam 30	Date sheet will be provided in advance	Practicals completed from 15.04.14 to 07.09.14	

	23.09.14 to 30.11.14	 Study two plant and two animals found in xeric conditions. Study plants and animal found in aquatic conditions. Study meiosis through Permanent slides. Collect water from two different water bodies around you and study of samples for pH, clarity and Presence of any living organism. Study the presence of suspended particulate matter in air at the two widely different sites. Collect and study soil from at least two different sites and study these for texture, moisture content, pH and water holding capacity of soil. Study of plant population density by quadrant method. Study of plant population frequency by quadrate method.
	01.12.2014 till final exam	Revision of Practical completed during the session. Mock Practical & Submission of Practical file+ Project Report: 02.02.2014
Final Exam	Date sheet will be provided in	Practicals completed during the session

Reference Book: Comprehensive Laboratory Manual in Biol

Subject: 083	- Computer Scien	ce (Theory) Syllabus : 2014-2015	Class : XII
Prescribed Boo	oks: Computer Sc.	(with Python) – A text Book by CBSE	
TEST/EXAM (M.M.)	DURATION	PARTICULARS	TEST DATE
CT-1 25	15.04.14 to 22.05.14	Unit I: Object Oriented Programming with Python Complete	23.05.14
		Unit II: Concept of Data Structure & File Handling Data File Handling & Exception Handling	
CT-2 25	23.05.14 to 19.08.14	Unit II : Concept of Data Structure & File Handling Stacks & Queues & Generator functions Unit V : Communication Technologies Complete	20.08.14
	20.08.14 to 07.09.14	Revision	·
irst Term Exam	08.09.14 to 22.09.14	Syllabus Covered from 15.04.14 to 07.09.14 + Assignments Provid	led

CT-3 70	23.09.14 to 30.11.14	Unit III: Data Base management System & SQL Complete Unit IV: Boolean Algebra Complete	01.12.14		
	01.12.14 Till Final Exam	Revision and Discussion of Sample Papers Pre Board : Date 13.01.2015 Syllabus: Complete syllabus covered during the session + Assignm	ents provided		
Final Exam	Date sheet will be provided by CBSE	Complete Syllabus covered during the session + Assignments	Provided		
Reference Boo	Reference Books: (I) Computer Networks (PHI) (ii) Digital Computers by Moris Mano (iii) Programming in Python by Mark Lutz				

			11.0.1.3.		
Subject : 083	- Computer Science	e (Practical) Syllabus : 2014-2015	Class : XII		
Prescribed Boo	Prescribed Books: Computer Sc. (with Python) – A text Book by CBSE				
TEST/EXAM (M.M.)	DURATION	PARTICULARS	TEST DATE		
	15.04.14 to 22.05.14	Python programs dealing with - Classes - Inheritance - Data File handling (Text & Binary) - Exception Handling			
	23.05.14 to 19.08.14	Python program dealing with - Arrays - Stacks - Queue - Generator functions Submission of Project Algorithm / Flowchart			
	20.08.14 to 07.09.14	Project Work + Revision for Practical exam Submission of Practical File – 05.09.14			
First Term Exam	Date sheet will be provided in advance	Practicals completed from 15.04.14 to 07.09.14			

23.09.14 to 30.11.14	Completion of Project Work & SQL Commands
01.12.2014 till final exam	Revision of Practical completed during the session. Mock Practical + Project Report : 02.02.2014
Date sheet will be provided in advance	Practicals completed during the session
	to 30.11.14 01.12.2014 till final exam Date sheet will be

			К.Б.г.З
Subject Code: 030 - I	Economics	Syllabus: 2014-2015	Class : XII
		f Microeconomics (NCERT) f Macroeconomics (NCERT)	
TEST/EXAM (M.M.)	DURATION	PARTICULARS	TEST DATE
CT-1 25	15.04.14 to 22.05.14	Book 1 Unit 1: Introduction Unit 2: Consumer Behaviour and Demand Unit 3: Producer Behaviour and Supply	23.05.14
CT-2 25	23.05.14 to 19.08.14	Book 1 Unit 4: Forms of Market & Price Determination Book 2 Unit 1: Introduction of Macro Economics Unit 2: National Income and related Aggregates – Concepts and Measurement	20.08.14
	20.08.14 to 07.09.14	Book 2 Unit 3 : Determination of Income and Employment	
First Term Exam	08.09.14 to 22.09.14	Syllabus Covered from 15.04.14 to 07.09.14 + Assignments Provi	ded

CT-3 (100)	23.09.14 to 30.11.14	Book 2 Unit 3 : Determination of Income and Employment (Contd) Unit 4 : Money & Banking Unit 5 : Government Budget and the Economy Unit 6 : Balance of Payments : Meaning and Components	01.12.14 Note: Complete Syllabus would be covered in CT-3	
	01.12.14 till Final Exam	Revision and Discussion of Sample Pa Pre Board : Date : 13.01.2015 Syllabus: Complete Syllabus covering during the session		
Final Exam	Date Sheet will be provided by CBSE	Complete Syllabus covered during the s + Assignments Provided	ession	
Reference Books: 1. Introductory Micro Economics, by Sandeep Garg 2. Introductory Macro Economics, by Sandeep Garg				

ubject Code : 502 - F	Physical & Health Education	Syllabus: 2014-2015	Class : XII
MONTHS	GAMES		PARTICULARS
April - May	Basket Ball Badminton Hand Ball Volley Ball Kho-kho		 History of the Game / Sports Latest general rules of the Game / Sports Specification of play fields and sports equipments Fundamental Skill of the Game / sports
July - August	Table- Tennis Athletics		 Sports Terminologies, Sports Tactics, Sports Advance Knowledge Developing Motor Components for Particular Game
September		First Term Assessme	nt.
Oct November	 Basket Ball Badminton Hand Ball Volley Ball Kho-kho Table- Tennis Athletics 		 Important Tournaments and Venues Famous Sports Personalities Sports Awards Common Sports Injuries Prevention Treatment Intra School Competition

Note: Grades will be sent to CBSE on the basis of continuous and comprehensive evaluation.

Subject Code: 503 - General Studies Syllabus: 2014-2015 Class:			Class : XII
MONTHS		PARTICULARS	
April-May	Topic: Contemporary Problems • Removal of Poverty • Eradication of Superstitions • Social Inequalities	 Removal of Literacy 	
July - August	Topic: Contemporary Problems • Meaning of Culture • Evolution of Indian Culture • Features of "Indianness"	& Indian Society	
Sept - November	Topic: Contemporary Problems • Historical Perspective • Declaration of Human Rights • Human Rights as a means of Harn		

Note: The topics are integrated with Intra School Activities. Grades will be sent to CBSE on the basis of continuous and comprehensive evaluation.

List of Holidays for Students : 2014-2015 Class : XII		
MONTH	DATE & DAY	DETAILS Class: All
April'14	8th, Tuesday 18th, Friday	Ram Navami Good Friday
May'14	14th, Wednesday	Buddha Purnima
July'14	29th, Tuesday	Idu'l Fitr
August '14	15th, Friday 18th, Monday	Independence Day Janamashtami
October'14	2nd, Thursday 3rd, Friday 6th, Monday 8th, Wednesday 22nd -25th, Wednesday to Saturday Mahatma Gandhi's Birtho Dussehra Id-ul-Zuha(Bakrid) Maharishi Valmiki's Birtho Diwali Break	
November'14	4th ,Tuesday 6th ,Thursday	Muharram Guru Nanak's Birthday
December '14	25th, Thursday	Christmas Day
January'15	26th, Monday	Republic Day

		Year Planner : 2014-2015	Class : XII
MONTH	DATE & DAY	DETAILS	
May' 14	08.05.14 (Thursday)	Student's Workshop : Value Based and Life Skill by XII C	
	15.05.14 (Thursday)	Student's Workshop : Value Based and Life Skill by XII A	
June' 14	20.06.14 (Friday) onwards	June Test	
August' 14	01.08.14 (Friday)	Student's Workshop : Value Based and Life Skill by XII D	
	02.08.14 (Saturday)	Parent Teacher Meeting + Book Fair + Fine Art Exhibition	
	07.08.14 (Thursday)	Student's Workshop : Value Based and Life Skill by XII B	
September' 14	08.09.14 (Monday) onwards	First Term Examination (SA – I)	
October' 14	18.10.14 (Saturday)	Parent Teacher Meeting + Book Fair + Science Exhibition	
November' 14	08.11.14 (Saturday)	Senior Annual Day & Prize Distribution Ceremony	
December' 14	05.12.14 (Friday)	Senior Sports Day	
	13.12.14 (Saturday)	'INSYNC' (Fete)	
	22.12.14 (Monday)	Pre Board Examination	
January' 15	10.01.15 (Saturday)	Parent Teacher Meeting + Book Fair	
Note: 1. Dates Proposed are tentative and subject to change. 2. Dates and details of workshops & Educational Visit will be intimated as per the availability of Venue & Resource Person.			