

O'UM 6 ja

D - Block, Vikas Puri, New Delhi - 110018

SYLLABUS: (2018-19)

Class - XI

FEATURES & GUIDELINES

Complexity / Difficulty Level			
Level Description Notes			
1	High (H)	Topic needs more attention	
2	Medium (M)	Needs moderate attention	
3	3 Easy (L) Simple topic		

- High Level of Difficulty implies more practice and parental guidance towards the topic.
- Classes for subjects like computer, Moral Science, General Knowledge, Drawing and Music are conducted once a week. Hence, the schedule is planned accordingly.
- In English, we have categorized the skills such as Reading, Writing, Vocabulary, Grammar, Speaking, and listening so that the child has a holistic approach towards the language.
- All the activities are relevant to the topic and are planned based on its difficulty level.
- Group activities will instill qualities such as teamwork, sharing and respecting others' opinion among the students.
- Most of the activities help to bridge the gap between theory and practical connecting the students to real life processes.
- Constant recapitulation of the topics helps in proper comprehension and retention of the concepts.
- All the activities in mathematics are designed to erase off fear from the minds of the learners towards the subject.
- Please refer to the syllabus before contacting us for any queries related to the syllabus.

ENGLISH

UT	Month	Book	Topic	Grammar/Writing
	April	Hornbill	 The Portrait of a Lady 	Determiners
I		Snapshots	 A Photograph 	Article
	May Hornbill		The Summer of a	Active-Passive Voice
			Beautiful White Horse	
		Snapshots	The Address	Tenses
		Hornbill	 Discovering Tut 	Letter to Editor
	July	Hornbill	 The Voice of the Rain 	Business Letters-
		Snapshots	Ranga's Marriage	Enquiry
П			 The Ghat of only World 	
"	Aug.	Hornbill	 Albert Einstein at School 	Business Letters-Reply
			 We are not afraid to die 	&Placing Orders
			Adventure	
H.Y. Exam	Sept.	Hornbill	 The Ailing Planet 	Report Writing
ΤX			Laburuim Top	Sub-Verb Agreement
	Oct.	Hornbill	 Childhood 	Factual Description
		Snapshots	Mother's Day	
l			Silk Road	
III	Nov.	Hornbill	 The Browning Version 	Editing
			 Father to Son 	Jumbled Words
		Snapshots	 The Tale of Melon City 	
	Dec.	Snapshots	• Birth	Practice Work
IV	Jan			Revision
	Feb.	Final Exam		

MATHEMATICS

Books: NCERT (RD Sharma)

UT	Months	Topic	
ı	April	Ch-1 Sets Ch- Relations & Functions CH-3 Trigonometric Functions	
	May	Ch-4 Principle of Mathematical Induction Revision	
II	July	Ch-5 Complex Numbers and Quadratic Equations CH-6 Linear Inequalities Revision	
	Aug.	Ch-7 Permutations & Combinations Revision	
H.Y. Exam	Sept.	Ch-8 Binomial Theorem Ch-9 Sequences and Series	
	Oct.	Ch-10 Straight Lines Ch-11 Conic Section & Revision	
III	Nov.	Ch-12 Introduction of Three Dimensional Geometry	
IV	Dec.	Ch-13 Limits and Derivatives Ch-15 Statistics	
l v	Jan.	Ch-16 Probabilities	
	Feb.	(Final Exam.)	

PHYSICS I

Book: NCERT

UT	Month	Topic	Practical
	Apr.	Physical world & Measurement	-
-	May	Kinematics	_
	June	Work, Power & Energy	_
II	July	Laws of Motion	Experiment No.1st, 2nd
.,	Aug.	Motion of System of Particles and Rigid Body	Expt. No. 4 th , 5 th , 6 th
H.Y. Exam.	Sep.	Gravitation	Expt. No. 7 th & 8 th
	Oct.	Properties of Bulk Matter	Expt. No. 7 th & 8 th
III	Nov.	Thermodynamics	_
IV	Dec.	Waves	_
IV	Jan.	Oscillations	_
	Feb.	Ray Optics & Final Exam.	

CHEMISTRY

Book: NCERT

UT	Month	Topic	Practical
I	Apr.	Ch1: Some Basic Concept of Chemistry	Analysis of functional group.
	May	Ch2: Atomic Structure Ch3: Environmental Chemical	Analysis of functional groupChromatography
II	July	Ch4: Periodic + Chemical Bonds	Preparation of sol.Volumetric Analysis
	Aug.	Ch5: Red ox + Thermodynamics	Volumetric Analysis
H.Y. Exam.	Sep.	Ch6: Equilibrium + S Block	Volumetric Analysis TitrationSalt Analysis
III	Oct.	Ch.7: States of Matters Ch8: Hydrogen	Salt Analysis
""	Nov.	Ch10: P Block	Salt Analysis Practice
	Dec.	Ch11: Some Basic Concept of Organic Compound	-
IV	Jan.	Ch12: Hydrocarbon	_
	Feb.	Final Exam.	

BIOLOGY

Book: NCERT

UT	Month	Topic	Practical
	April	Ch-1 The Living World Ch-2 Biological Classification Ch-3 Plant Kingdom Ch-4 Animal Kingdom.	Expt. No. 1&2
I	May	Ch-5 Morphology of Flowering Plants Ch-6 Anatomy of Flowering Plants Ch-8 all -The Unit of Life	Expt. No. 3,4&5
	July	Ch-10 Cell cycle and cell division Ch-11 Transport in plant Ch-12 Mineral nutrition Ch-13 Photosynthesis in Higher Plants	Expt. No.6,7,8,9&10
II	Aug.	Ch-14 Respiration in Plants Ch-15 Plant Growth &Development	Expt. No. 11&12
H.Y. Exam	Sept.	Ch-16 Digestion & Absorption Ch-17 Breathing & Exchange of Gases	-
	Oct.	Ch-18 Body Fluids and Circulation Ch-19 Excretory Products and their Elimination	-
III	Nov.	Ch-20 Locomotion & Movement	-
	Oct.	Ch-7 Structural Organisation in Animals	-
	Dec.	Ch-9 Biomolecules Ch-21 Neural Control & Coordination	-
IV	Jan.	Ch-22 Chemical Coordination and Integration.	-
	Feb.	Final Exam.	

BUSINESS STUDIES

Book: Poonam Gandhi /G.S. Alag / NCRT

UT	Month	Topic	Activities
	March	Ch-1 Nature and Purpose of Business	
		History of Commerce in India	-
	April	Continuation of chapter 1	-
		Ch-2 Forms of Business Organization	Case study
I	May	Continuation of chapter 2.	Project work
	June	Ch-3 Public, Private and Global	
		Enterprise.	-
	July	Ch-4 Business Services.	
		Ch-5 Emerging Modes of Business.	-
	Aug.	Ch-6 Social Responsibility of	
		Business and Business ethics	Presentation
II		Ch-7 Formation of Company	
H.Y.	Sept.	Ch-8 Sources of Business Finance	_
Exam			-
	Oct.	Continuation of Chapter 8	_
		Ch-9 Small Business	-
Ш	Nov.	Ch-10 Internal Trade	Role play
	Dec.	Continuation of chapter 10	-
IV	Jan.	Ch-11 International Business.	-
_	Feb.	Revision (Final Exam.)	-

ECONOMICS

UT	Month	Books	Topics
	April	Micro Economics Sandeep Garg	Unit-1 Introduction of Micro Economics
	May	Micro Economics Sandeep Garg	Unit- II Consumer Behaviour and Demand
I	July	Stats (N.M.Shah)	Ch-4 Economics Reforms since 1991 Ch-1 What is Economics Ch-2 Introduction Meaning & Scope Ch-3 Collection of Primary & Secondary Data Ch-4 Organization of Data
	Aug.	Stats (N.M. Shah)	Ch-5 Tabular Presentation Ch-6 Diagrammatic Presentation Ch-7 Graphic Presentation
II	Sept.	Micro Economics Sandeep Garg	Unit – III Producer Behaviour & Supply
H.Y. Exam	Oct.	Micro Economics Sandeep Garg	Unit – IV Market
	Nov.	Micro Economics Sandeep Garg	Unit – IV Price Determination
III	Dec.	Stats (N.M. Shah)	Ch-8 Measures of Central Tendency Ch-9 Positional Average & Partition Values Ch-10 Measures of Dispersion
IV	Jan.	Stats (N.M. Shah)	Ch-11 Correlation Ch-12 Index Number
	Feb.	Final Exam.	

ENTREPRENEURSHIP

Book: NCRT

UT	Month	Topic	Activity
	April	Ch-1 Entrepreneurship Concept & Function	_
I	May	Ch-2 An Entrepreneur	
	July	Ch-3 Entrepreneurship Journey	
	Aug.	Ch-4 Entrepreneurial Innovation & Problem	
		Solving	
	Sept.	Ch-5 Concept of Market	
II	Oct.	Ch-6 Business Finance & Arithmetic	Learn to Earn
H.Y.	Nov.	Ch-7 Resource Mobilization	
Exam			
	Dec.	Ch-12 Project Work	
III		Revision	
	Jan.	Revisions	
IV	Feb.	Final Exam.	

ACCOUNTANCY

Book: T.S. Garewal

UT	Month	Topic	
		Ch-1 Introduction	
	April	Ch-2 Basic Accounting Term	
		Ch-5 Accounting Equation	
		Ch-3 Accounting Standards and Concepts	
	May	Ch-4 Basis of Accounting	
		Ch-6 Rules of Debit & Credit	
		Ch-8 Journal & Ledger	
	July	Ch-7 Accounting Vouchers	
		Ch-9 Cash Book	
II		Ch-10 Special Purpose Book-Other Book	
	Aug.	Ch-12 Bank Reconciliation Statement	
		Ch-11 Trial Balance	
H.Y.	Sept.	pt. Ch-16 Rectification of Errors	
Exam	'	01.40.5	
		Ch-13 Depreciation	
	Oct.	Ch-14 Reserves & Provision	
		Ch-15 Bill of Exchange	
III	Nov.	Ch-17 Financial Statement-I without Adjustments	
		Ch-18 Financial Statement-II with Adjustments	
	Dec.	Ch-18 Financial Statement –II with Adjustments	
IV	Jan.	Ch-20 Single Entry System	
	Feb.	Revision – (Final Exam.)	

ENGINEERING GRAPHICS

Book: Modern Engineering Graphics – II

UT	Month	Topic	Activity
	Apr.	Lines & Angle	Work Book
ı	May & June	Triangle Quadrilateral Polygons	Work Book
	July	Circles Orthographic Projections	Prepare Solids
II	Aug.	Projections of Solids	Use of Coral Draw
H.Y. Exam	Sept.	Solids in 5 Positions Section of Solids	Plate 1, 2 & 3
III	Oct.	Plan views of class room building kitchen, Bedroom etc.	Plate 4, 5 & 6
""	Nov.	Views from 3D to 2D	Plate 7, 8 9 & 10
	Dec.	Isometric Scale & Views of Solids	Introduction to coral draw on computers
IV	Jan.	3D Blocks & Missing Views	Plate 11, 12, 13, 14 & 15
F. Exam	Feb.	-	-

INFORMATICS PRACTICES

Book: Book Published by CBSE, Notes & Assignment

UT	Month	Topic	Activity
I	Apr.	Ch 1 H/W concepts Ch 2 S/W concepts & productivity	Presentation based on basic computers, H/W & S/W
	May	Ch 3 Information security	Presentation based on Security system
	July	Ch 8 Introduction to MySQL Ch9 MySQL	Practical on MYSQL
II	Aug.	Ch10 functions in MySQL	Practical on MYSQL
H.Y. Exam.	Sep.	Ch 4 Getting Started with Java IDE, Programming	Practical File Submission for MYSQL Commands Dt. 10 Sep., 2017
	Oct.	Ch 5 Programming Fundamentals Ch 6 Flow of Control	Practical on Net Beans IDE
III	Nov.	Ch 6 contd.	Practical's on Net Beans IDE
	Dec.	Ch 6 contd. Ch 7 Programming Guidelines	Practical's on Net Beans IDE
IV	Jan.	Revision of complete syllabus	Submission of complete practical file 15th Jan.18
	Feb	Fina	I Exam.

COMPUTER SCIENCE

Book: C++ by Sumita Arora, Notes & Assignment

UT	Month	Topic	Practical
	April	Ch1 Computer Overview Ch2 Working with OS Ch15 Data Representation	Presentation based on working of computer, I/O devices, types of memory
ı	May	Ch16 I/O Memory Devices Ch3 General OOP Concepts Ch7 Algorithms/Flow Chart	Presentation based on number system and algorithms
	July	Ch4 Getting started with C++ Ch5 Data Handling Ch6 Operators & expression	_
II	Aug.	Ch8 Flow of control	Practical related to simple C++ programs
H.Y. Exam.	Sept.	Revision Ch14 Event Programming Ch 13 Programming methodology	Practical of C++ programs
	Oct.	Ch9 Console I/O operations Ch12 Standard Header files	Submission of Program file till control structures
III	Nov.	Ch 10 Structured data type – Array	_
	Dec.	Ch11 Functions Ch 17 Structures	Practical work
IV	Jan.	Revision Ch-17, Structures (Contd.)	Submission of Program file
F.Exam	Feb.	Revision of complete syllabus	_

PHYSICAL EDUCATION

	Month	Tonio	Activity
U.T.	Month	Topic Changing Tronds & Caroor in Physical	Activity
I	April	 Changing Trends & Career in Physical Education Define Physical Education, its Aims & Objectives Development of Physical Education - 	
		Post IndependenceConcept and Principles of Integrated	
		Physical Education	
		Concept & Principles of Adaptive	
		Physical Education	
		Career Options in Physical Education Olympic Movement	
		Ancient and Modern Olympics	
	Mov	Olympic Symbols, Ideals, Objectives &	Health and
	May	Values	Fitness Activities -
	&	International Olympic CommitteeIndian Olympic Association	Medicine
	July	Dronacharya Award, Arjuna Award and Rajiv Gandhi Khel Ratna Award Organizational set-up of CBSE Sports & Chacha Nehru Sports Award	Ball/Thera Tube/Pilates/Ro pe Skipping
		Physical Fitness, Wellness & Lifestyle	
		 Meaning and importance of Physical Fitness, Wellness and Lifestyle Factors affecting Physical Fitness and 	
		Wellness	
		 Indicators of Health - Physical and Psychological 	
		Preventing Health Threats through Lifestyle Change	
		Components of Positive Lifestyle	
		Physical Education & Sports for Differently Abled	
II		 Aims & Objectives of Adaptive Physical Education 	
		 Organisation promoting Adaptive Sports (Spl. Olympics Bharat; Paralympics; Deaflympics) 	
		Concept of Inclusion, its need &	
		Implementation	
		Role of various professionals for	
		children with special needs (Counsellor, Occupational Therapist,	
		Physiotherapist, Physical Education	
		Teacher, Speech Therapist & special	
		Educator)	
		Yoga Meaning and Importance of Yoga	
		Elements of Yoga	
	Aug.	• Introduction to - Asanas, Pranayam,	Asanas
	Aug.	Meditation and Yogic Kriyas	Asalias
		 Yoga for concentration & related Asanas (Sukhasana, Tadasana; 	
		Padmasana & Shashankasna)	
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		Relaxation Techniques for improving concentration - Yog-nidra	
	Sept.	 Physical Activity &Leadership Training Introduction to Physical Activity & Leadership Qualities & role of leader Beheviour change stages for physical activity (Pre-contemplation; Contemplation Planning; Active Maintenance) Creating leader through Physical Education Meaning objectives and types of Adventure Sports (Rock Climbing, Tracking, River Rafting, Mountaineering, Surfing & Para Gliding Safety measures during physical activity and adventure sports 	Athletics - Sprints
H.Y. Exam		Test, Measurement & Evaluation Define Test, Measurement & Evaluation Importance of Test and Measurement Evaluation in Sports Calculation of BMI & Waist - Hip Ratio Somato Types (Endomorphy, Mesomorphy and Ectomorphy) Procedures of Anthropromatric Measurement - Height, Weight, Arm & Leg Length	
III	Oct.	Fundamentals of Anatomy & Physiology Define Anatomy, Physiology and its importance Function of skeleton system, Classification of bones & types of joints Properties of muscles Function and structure of muscles Function and structure of Respiratory System, Mechanism of Respiration Structure of Heart and introduction to Circulatory System Oxygen debt, second wind	Athletics - Jumps
	Nov.	 Kinesiology, Biomechanics & Sports Meaning and Importance of Kinesiology Biomechanics in Physical Edu. & Sports Levers & its Types & its application in sports Newton's Law of Motion and its application in sports Equilibrium - Dynamic & Static & Centre of Gravity and its application in sports 	Taekwondo/Jud o

		Force - Centrifugal and Centripetal and	
		its application in Sports	
		Introduction to Buoyancy Force	
		• •	
		Psychology and Sports	
		Definition & importance of Psychology	
		in Physical Education & Sports	
		Define and differentiate between	
	_	Growth and Development	
	Dec.	Developmental characteristics at	
		different stage of development	Badminton/
		Adolescent problems and their management	Table Tennis
		Define Learning, Laws of Learning and	
		transfer of Learning	
		Plateau & causes of plateau	
		Emotion; concept, Type & Controlling	
		emotion	
		Training in Sports	
		Meaning & Concept of Sports Training	
	Jan.	Principles of Sports Training	
IV		Warming up and limbering down	
		Load, Symptoms of Overload,	
		Adaptation and Recovery	
		Skill, Technique and Style	
		Symptoms of Overload and How to	
		Overcome it	
		Role of Free play in the developments	
		of Motor Component	
		Doping	
		 Meaning and types of Doping 	
		 Prohibited substances and methods 	
		Athletes responsibilities	
		Testing - in competition and Out-of-	
		Competition	
		Side effects of prohibited substances	
		Ergogenic aids & doping in sports	
		Doping control procedure	
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