



## Integrated Program Course Planning (Class 9th)

**Academic Session 2016-17**

### PHYSICS

**Course Name :** Aim

**Course Commencement :** 4<sup>th</sup> April 2016

**Course Completion :** Last Week of Jan.'17

S.No	Topic Name	Total Lectures	Lecture No.	Sub-topic(s) Name	No. of DPPs	Misc. DPP's
1	Motion	2	L-1	Physic, Rest and motion are relative terms, Concept of a Point Object, Frame of Reference, Motion in one, two and three dimensions, types of motion.	2	1
			L-2	Scalar & vector quantity, Distance and displacement, Uniform and Non-uniform motion, Speed, Types of speed.		
2	Motion	2	L-3	Velocity, Types of velocity, Features of uniform motion.	2	
			L-4	Acceleration, Uniform Acceleration, Non-Uniform Acceleration, Types of acceleration, Equations of uniformly accelerated motion.		
3	Motion	2	L-5	To solve numerical problems, Motion under gravity, Distance (displacement) from speed–time, velocity–time graph.	1	1
			L-6	Graphical derivation of equations of motion and numericals.		
4	Circular Motion	2	L-7	Circular Motion, Radian –(a unit for plane angle), Angular displacement and angular velocity,	1	
			L-8	Angular acceleration, Relation between Linear and Angular Quantities.		
5	Force and Laws of motion	2	L-9	Force, Effects of Force, Galileo’s experiments, Newton’s first law of motion, Inertia, Types of inertia.	3	1
			L-10	Definition of force from first law of motion, Momentum, Newton’s Second Law of motion, Units of force.		
6	Force and Laws of motion	3	L-11	First law of motion by second law of motion, Impulse of force, Applications of Impulse equation in daily life, Impulse during an impact or collision.	2	1
			L-12	Newton’s third law, No action is possible without reaction, Action and reaction are not balanced, Interaction between bodies at a distance, Any pair of equal and opposite forces is not an action–reaction pair.		
			L-13	Principle of conservation of linear momentum, Some illustrations on conservation of momentum.		
7	Gravitation	2	L-14	Newton’s law of Gravitation,, Newton’s law of Gravitation, Newton’s third law of motion and gravitation, Estimation of gravitational force between different objects.	2	1
			L-15	Force of gravitation of the earth (gravity), Bodies falling near the surface of the earth, Galileo’s Observations on Falling Bodies. Acceleration due to gravity, Factors Effecting the value of 'g'		
8	Gravitation	2	L-16	Value of ‘g’ on the Surface of the Moon, Mass of earth and mean density of earth, Equations of motion for freely falling object.	2	
			L-17	Mass and weight, Difference between Mass and Weight, Difference between ‘g’ & ‘G’, Weightlessness, Kepler's Laws of Planetary Motion.		
9	Fluid	2	L-18	Fluid, Pressure in a fluid, Thrust, Units of Pressure, Buoyancy and force of buoyancy.	2	1
			L-19	Archimedes Principle, Proof of Archimedes Principle, Density, Relative density or specific gravity.		
10	Fluid	2	L-20	Uses of Archimedes principle, Physical meaning of Relative density.	2	
			L-21	Law of floatation, Relation between Density of Solid and Liquid, Equilibrium of Floating Bodies.		
11	Work, Energy and Power	3	L-22	Introduction, Work, Measurement of Work, Units of Work done, Positive Work done, Negative Work done.	3	1
			L-23	Energy, Units of energy, Different forms of energy, Kinetic energy, Potential energy.		
			L-24	Definition of Potential Energy, Gravitational and Elastic Potential Energy, Expression for Potential Energy of a Body at a Certain Height.		
12	Work, Energy and Power	2	L-25	Interconversion of potential and kinetic energy, Law of conservation of energy, Law of Conservation of Mechanical Energy, Mechanical Energy of a Freely Falling Body, Some other examples of Conservation of Energy.	2	1
			L-26	Power, Expression for Power, Electric energy, electric power, Calculation of electric bill, Distinction with energy.		

13	Wave Motion and Sound	2	L-27	Wave motion, Classification of waves, Some definitions : Amplitude, Wavelength, Time period, Frequency, Relation between frequency and time period, Sound wave, Production of sound waves, Propagation of sound, Sound needs a material medium for its propagation.	2	
			L-28	Wave Terminology, Range of Hearing, Sonic Boom.		
14	Wave Motion and Sound	2	L-29	Reflection of sound, Laws of Reflection, Verification of Laws of Reflection, Applications of Reflection of Sound.	1	1
			L-30	Speed of sound in different medium, Effect of temperature on the speed of sound, Echo, Reverberation, Relation between speed of sound, time of hearing echo and distance of reflecting body.		
15	Wave Motion and Sound	2	L-31	Audible, ultrasonic and infrasonic waves, Ultrasound, Applications of ultrasound, SONAR, Principle of Sonar, Working of Sonar, Reason for using ultrasonic waves in sonar.	1	
			L-32	The human ear, Working of Human Ear.		



## Integrated Program Course Planning (Class 9th)

Academic Session 2016-17

### CHEMISTRY

Course Name : AIM

Course Commencement : 4<sup>th</sup> April 2016

Course Completion : Last Week of Jan.'17

S.No	Topic Name	No. of Lectures	Lecture No.	Sub-topic(s) Name	No. of DPPs	Misc. DPP's
1	Matter in our Surroundings	7	L-1	Physical nature of matter, Brownian motion	4	
			L-2	Characteristics of particles of matter, Classification of matter		
			L-3	Interconversion of matter by altering temperature and pressure		
			L-4	Evaporation, Fourth and fifth states of matter.		
			L-5	Module Dpp discussion		
			L-6	Dpp discussion		
			L-7	NCERT discussion		
2	Is matter around us pure	13	L-8	Pure substances, Characteristics of pure substances and elements.	6	3
			L-9	Compounds, Mixtures - Definition and types, Differences between compounds and mixtures, Reasons for regarding air as a mixture, Reasons for regarding water as a compound, Reasons for regarding alloys as mixture.		
			L-10	Solutions - Components; Examples and Types, True solutions.		
			L-11	Concentration of solutions with numericals.		
			L-12	Suspensions and their characteristics, Colloidal solutions and their characteristics.		
			L-13	Types of colloidal solutions, Separation of mixture of two solids - Sublimation, By using a suitable solvent.		
			L-14	Separation of mixture of a solid and a liquid - By evaporation, By Centrifugation , Chromatography.		
			L-15	Separation of mixture of two liquids - By distillation, By separating funnel.		
			L-16	Separation of components of air, City water supply.		
			L-17	Physical and chemical changes.		
			L-18	Module Dpp discussion		
			L-19	Dpp discussion		
			L-20	NCERT discussion		
3	Atoms and Molecules	12	L-21	Introduction, Laws of chemical combination - Law of conservation of mass and Law of constant proportion.	4	1
			L-22	Dalton's atomic theory, Merits and demerits of Dalton's atomic theory .		
			L-23	Atoms, Symbols of elements, Atomic mass, Molecules, Molecules of elements, Molecules of compounds and Atomicity.		
			L-24	Molecular mass, Ions - Types, Ionic compounds.		
			L-25	Formula unit of ionic compounds, Formula mass, Chemical formula.		
			L-26	Writing of chemical formula with examples, Mole concept.		
			L-27,28,29	Practice of mole concept.		
			L-30	Module Dpp discussion		
			L-31	Dpp discussion		
			L-32	NCERT discussion		
4	Structure of Atom	11	L-33	Introduction, Fundamental particles of atom.	3	1
			L-34	Thomson's atomic model, Rutherford's alpha particle scattering experiment.		
			L-35	Rutherford's model of an atom, Bohr's model of an atom.		
			L-36	Atomic structure - shells, subshells and orbitals.		
			L-37	Module Dpp discussion		

		L-38	Electronic configuration of elements, Valency Atomic number and Mass number.	
		L-39	Isotopes, Applications of Radioactive isotopes, Isobars, isotones, Isoelectronic species.	
		L-40	Practice of all 'iso' terms.	
		L-41	Module DPP Discussion	
		L-42	DPP Discussion	
		L-43	NCERT Discussion	



## Integrated Program Course Planning (Class 9th)

**Academic Session 2016-17**

### BIOLOGY

Course Name : Aim

Course Commencement : 4<sup>th</sup> April 2016

Course Completion : Last Week of Jan.'16

S.No	Topic Name	Total Lectures	Lecture No.	Sub-topic(s) Name	No. of DPPs	Misc. DPP's
1	Fundamental Unit of Life	9	L-1	Cell, Microscope. Cell theory, Types of Cell, Cell shape, cell size, Components of cell,.	1	1
			L-2	Cell Wall, Cell membrane, Nucleus.		
			L-3 & L-4	Cytoplasm, Cell organelles, Endoplasmic reticulum, Golgi apparatus, Lysosome, Peroxisome, Glyoxysome		
			L-5 & L-6	20. Plastid, 21. Mitochondria, 22. Ribosome, Ergastic body 23. Differences between a plant cell and an animal cell.		
			L-7 & L-8	Difference b/w prokaryotes and eukaryotes, Preparation of slide.		
			L-9	DPP + Test Review		
2	Tissue	7	L-10	Introduction, Plant tissue.Meristematic tissue.	1	
			L-11	Simple Permanent tissue.		
			L-12	Complex Permanent Tissue		
			L-13	Animal tissue ,Epithelial Tissue , Nervous tissue.		
			L-14 & L-15	Muscular tissue, Connective tissue		
			L-16	DPP + Test Review		
3	Improvement in Food Resources	6	L-17	Introduction, Improvement in Crop yield, Crop Season	1	1
			L-18 & 19	Manures and Fertilizers, Biofertilisers, Organic farming, Irrigation,		
			L-20	Cropping pattern, Crop Rotation, Crop protection management, Storage of grains,	1	
			L-21	Animal Husbandry and its practice, poultry pisciculture, apiculture, laculture, sericulture, pearlculture		
			L-22	DPP + Test Review		
9	Diversity	8	L-23	Diversity & classification, Basis of classification.	1	1
			L-24	Plant Kingdom ( Cryptogams )		
			L-25	Plant Kingdom ( Phanerogams )		
			L-26	Basis of Animal Classification		
			L-27 & 28	Animal Kingdom ( Non chordates )		
			L-29	Animal Kingdom ( Non chordates )		
			L-30	DPP + Test Review		
10	Diversity	6	L-31	Hemichordates, Chordata	1	
			L-32	Protochordata		
			L-33	Vertebrata - 1		
			L-34	Vertebrata - 2		
			L-35	Vertebrata - 3		
			L-36	DPP + Test Review		
11	Why do we Fall ill	5	L-37	Human health and disease, What is a Disease.	1	1
			L-38	Types of Disease.		
			L-39 & 40	Infectious Disease,. Non-infectious disease Means of spreading disease, Treatment of Infectious Disease, Prevention of infectious Disease,		
			L-41	DPP + Test Review		
12	Natural Resources	7	L-42	Natural Resources, 2. Air or Atmosphere,	1	
			L-43	Pollution of air		
			L-44	Green House effect,5. Ozone Depletion		
			L-45	Water (Hydrosphere), Water pollution.		
			L-46	Soil,		
			L-47	Biogeochemical cycles,		
			L-48	DPP + Test Review		



## Integrated Program Course Planning (Class 9th)

Academic Session 2016-17

### MATHEMATICS

Course Name : Aim

Course Commencement : 4<sup>th</sup> April 2016

Course Completion: Last Week of jan.'17

S.No	Topic Name	Total Lectures	Lecture No.	Sub-topic(s) Name	No. of DPPs	Misc.
						DPP's
1	Number System	8	L-1,2	Classification of numbers, Rational number in decimal representation, Representation of natural numbers, integers, rational numbers on the number line.	1	
			L-3,4	Representation of terminating / non-terminating recurring decimals on the number line through successive magnification, Conversion of recurring decimal into fraction.		
			L-5	Proof of irrationality of numbers, Irrational numbers in decimal form, Insertion of Irrational numbers between two real numbers, Irrational numbers on a number line, Geometric representation of real numbers.		
			L-6	Surds, Laws of surds, Operation on surds, Rationalization of surds.		
			L-7	Laws of exponents with integral powers. Rational exponents with positive real bases.		
			L-8	Module and DPP discussion.		
2	Polynomial	10	L-9	Polynomials, Types of polynomials, Zeros and value of polynomials.	2	1
			L-10,11	Factor Theorem, remainder theorem, Division algorithm.		
			L-12	Problem based on Algebraic Identities (i) $(a + b)^2 = a^2 + 2ab + b^2$ , (ii) $(a - b)^2 = a^2 - 2ab + b^2$ , (iii) $a^2 - b^2 = (a + b)(a - b)$ , (iv) $(a + b + c)^2 = a^2 + b^2 + c^2 + 2ab + 2bc + 2ca$ .		
			L-13	Problems based on algebraic identities,		
				(i) $(a + b)^3 = a^3 + b^3 + 3ab(a + b)$		
				(ii) $(a - b)^3 = a^3 - b^3 - 3ab(a - b)$		
				(iii) $a^3 + b^3 = (a + b)^3 - 3ab(a + b)$		
				(iv) $a^3 - b^3 = (a - b)^3 + 3ab(a - b)$		
			(v) $a^3 + b^3 + c^3 - 3abc = (a + b + c)(a^2 + b^2 + c^2 - ab - bc - ac)$			
			If $a + b + c = 0$ then $a^3 + b^3 + c^3 = 3abc$ .			
L-14,15	Factors of polynomials : (a) Factorization by taking out the common factor					
	(b) Factorization by grouping					
	(c) Factorization by making a perfect square					
	(d) Factorization the difference of two squares					
L-16,17	(e) Factorization of a quadratic polynomial by splitting the middle term					
	(f) Factorization of an algebraic expression as the sum or difference of two cubes					
	(g) Factorization of an algebraic expression of the form $a^3 + b^3 + c^3 - 3abc$ .					
L-18	Module and DPP discussion.					
3	Coordinate geometry	3	L-19,20	The Cartesian plane, coordinates of a point, names and terms associated with the coordinate plane, notations, plotting points in the plane.	1	
			L-21	Module and DPP discussion.		
4	Introduction to euclid geometry	3	L-22,23	History Euclid and geometry in india, Basic geometrical concept (Axioms, theorem and corollaries), Euclid's five postulates, Some terms related to geometry, Incidence and Parallel axioms of line.	1	1
			L-24	Module and DPP discussion.		
5	Lines and angles	6	L-25,26	Angles, types of angles, pairs of angles, angle made by transversal.	1	
			L-27,28	Angle sum property and angle based result of triangle.		
			L-29	problem based on angle of triangle		
			L-30	Module and DPP discussion		
6	Triangle	8	L-31,32	SAS, ASA criteria of triangle and problem based on it	1	1

			L-33,34	SSS, RHS criteria of triangle and problem based on it		
			L-35,36	Triangle Inequalities		
			L-37	Problem based triangle inequality		
			L-38	Module and DPP discussion		
7	Heron's formula	4	L-39,40	Area of a triangle using Heron's formula.	1	
			L-41	Application in finding the area of a quadrilateral		
			L-42	Module and DPP discussion		
8	Linear Equation in two variables	5	L-43,44	Linear equations in one variable. Introduction to the equation in two variables. Graph of the equation of the form : $ax + 0.y = c$ , $0.x + by = c$ , $ax + by = 0$ & $ax + by = c$ .	1	
			L-45,46	Examples and problems from real life, including problems with algebraic and graphical solutions being done simultaneously.		
			L-47	Module and DPP discussion		
9	Quadrilaterals	7	L-48	Quadrilateral, Types of quadrilateral, Angle sum property of quadrilateral	1	
			L-49,50	parallelogram and their properties and problem based on it,Sufficient condition for quadrilateral to become parallelogram		
			L-51,52	Special type of quadrilateral(rectangle,rhombus,square,trapezium,kite) and their properties and problem based on it	1	
			L-53	Midpoint theorem and its converse and problem based on it		
			L-54	Module and DPP discussion		
10	Area of parallelograms and triangles	6	L-55	Concept of Same Base and Same base and between same parallel and theorem related to it and their proof	1	
			L-56,57	Problem based on theorem related to same base and between same parallel		
			L-58,59	Theorem: Median of triangle divides it into two triangle of equal area , Problem based on it		
			L-60	Module and DPP discussion		
11	Circles	8	L-61,62	Definition of circle and terms related to circle, theorem based on circle and their proof	1	
			L-63	Problem based on theorem of circle		
			L-64,65	Angle based theorem and their proof and problem based on it	1	
			L-66,67	Cyclic quadrilateral, properties of cyclic quadrilateral and problem based on it		
			L-68	Module and DPP discussion		
12	Construction	4	L-69,70	Construction of Bisector of line segment, angle bisector of line segment, required angle	0	
			L-71	Construction of triangle when (i ) sum of side (ii)Difference of side(iii) perimeter of triangle is given to us		
			L-72	Module and DPP discussion		
13	Surface area and volume	9	L-73,74	Problem based on cube and cuboid	1	
			L-75	Problem based on cylinder		
			L-76	Problem based on cone,		
			L-77,78	Problem based on sphere and hemisphere		
			L-79,80	Mixed problem		
			L-81	Module and DPP discussion		
14	Statistics	9	L-82,83	Introduction to Statistics and Defination of various terms related to statistics,Construction of frequency distribution table	1	
			L-84,85	Construction of grouped, cumulative frequency distribution,Construction of bar graph,		
			L-86,87	Construction of histogram in different conditions,construction of frequency polygon	1	
			L-88	Measure of central tendency: Mean		
			L-89	Median and Mode		
			L-90	Module and DPP discussion		

15	Probability	4	L-91,92	Probability and terms and problem based on it	1	
			L-93	problem based on probability		
			L-94	Module and DPP discussion		





## Integrated Program Course Planning (Class 9th)

Academic Session 2016-17

### ENGLISH

Course Name : Aim

Course Commencement : 4<sup>th</sup> April 2016

Course Completion : Last Week of Jan.'16

S. No	Topic(s) Name	Total Lectures	No. of DPPs
1	Tense	4	1
2	Subject Verb Concord	3	1
3	Brook	1	1
4	How I Taught My Grandmother To Read+ Diary Writing	1	2
5	Conditionals	3	1
6	The Road Not Taken	1	1
7	Prepositions	3	1
8	A Dog Named Duke + Article Writing	2	2
9	Solitary Reaper	2	1
10	Modals	3	1
11	Lord Ullin's Daughter + Story Writing	1	2
12	Passive Voice	3	1
19	Reported Speech	3	1
14	Villa for Sale	3	1
15	Determiners, Connectors	3	2
16	Integrated Grammar	3	1
17	Gulliver's Travels, Three Men in a Boat	4	2
18	Seven Ages	2	1
19	The Man Who Knew Too Much	1	1
20	Grammar Practice+Diary Entry	2	1
21	Keeping It From Harold	4	1
22	Oh I Wish I'd Looked After My Teeth	1	1
23	Best Seller	3	1
24	Grammar Practice+ Article Writing	2	1
25	Song of the Rain	1	1
26	Grammar Practice+Story Writing	2	1
27	Bishop's Candlesticks	5	1
28	Novel (Gulliver's Travel and Three Men in a Boat)	4	2



## Integrated Program Course Planning (Class 9th)

Academic Session 2016-17

### Mental Ability

Course Name : Aim

Course Commencement : 4<sup>th</sup> April 2016

Course Completion : Last Week of Jan.'17

S.No	Total Lectures	Topic(s) Name	Lecture No.	Sub-topic(s) Name	No. of DPPs	Misc DPP's
1	5	Series Completion	L-1 & 2	Number Series, Alphabet Series,	2	1
			L-3 to 5	Letter Repeating Series, Missing term in figure	1	
2	2	Coding-Decoding	L-6	Letter-Letter Coding, Letter-Number Coding,	1	
			L-7	Column Coding , Miscellaneous Coding		
3	2	Logical Alphabet Number and Time Sequence Test	L-8	Logical Alphabet Number	1	1
			L-9	Time Sequence Test		
4	1	Mathematical Operations	L-10	Mathematical Logic (BODMAS Application, Interchange of signs, Number, Deriving the appropriate conclusions, Definitely True)	1	
5	1	Sitting arrangement	L-11	Linear Seating Arrangement and Circular Seating Arrangement.	1	
6	2	Puzzle -Test	L-12 & 13	Classification type Puzzles, Comparison Type Puzzles, Sequential Order of Things, Selection Based on given Conditions, Family-Based Puzzles and Miscellaneous Puzzles.	1	1
7	1	Calender Test	L-14	Odd Days, Counting of Odd Days, Odd Days	1	
8	1	Logical Venn Diagram	L-15	Simple Venn Diagram, Logical (Conditional) Venn Diagram	1	1
9	1	Syllogism	L-16	Two-Premise Arguments, Four-Premise Arguments	1	
10	1	Non-Verbal Series	L-17	Non-Verbal Series (Different types of Series)	1	
11	1	Non-Verbal Analogy	L-18	Non-Verbal Analogy (Different Types of Analogy)	1	1
12	1	Non-Verbal Classification	L-19	Non-Verbal Classification (Different types of Classification)	1	
13	2	Cube Test	L-20 & 21	Cubes (Simple) , Cubes (Difficult Questions)	1	
14	1	Dice Test	L-22	Dice	1	



## Integrated Program Course Planning (Class 9th)

**Academic Session 2016-17**

### Computer

**Course Name :** Aim

**Course Commencement :** 4<sup>th</sup> April 2016

**Course Completion :** Last Week of Jan.'16

S.No	Total Lectures	Topic(s) Name	Lecture No.	Sub-Topic(s) Name	No. of DPP
1	The Computer System	3	L-1	Characteristics of a Computer, Basic Applications of a Computer	1
			L-2	The Computer System	
			L-3	Computer Language, Convergence of Technologies	
2	Operating System	4	L-4	Need for an Operating System, Functions of an Operating System	1
			L-5	Types of Operating Systems	
			L-6	Introduction to Windows 7, Basic Components of a GUI Window	
			L-7	Windows Accessories, Special Features of Windows 7	
3	Editing and Formatting in a Word Processor	2	L-8	Word 2013 Basics, Editing a Document	1
			L-9	Formatting a Document, Printing a Document	
4	More Features of a Word Processor	4	L-10	Spelling & Grammar, Change Case, Find and Replace, Bullets and Numbering, Symbols	1
			L-11	Creating a Table, Modifying a Table, Formatting a Table	
			L-12	Working with Objects in Word 2013, Inserting Clip Art and Pictures, Headers and Footers, Footnotes and Endnotes	
			L-13	Page Formatting, Mail Merge, Auto Format, Tracking Changes, Inserting Mathematical Symbols	
5	Introduction to Python	6	L-14	Starting Python, Working in Python, Constants	1
			L-15	Variables, Keywords	
			L-16	Built-in Data Types, Print Statement	
			L-17	Operators	
			L-18	Input Functions	
			L-19	Comments	
6	Data Types in Python	2	L-20	Strings, Lists	1
			L-21	Tuples, Dictionary	
7	Control Structures in Python	2	L-22	Control Structures	1
			L-23	Jump Statements	
8	Introduction to Java Script	8	L-24	Java Script Syntax, Alert Statement	1
			L-25	Comments in Java Script, Variables	
			L-26	Assignment Statement, Semicolon in Java Script	
			L-27	Operators in Java Script	
			L-28	Conditional Operator, Prompt Dialog Box	
			L-29	Simple and Compound Statements	
			L-30	If Statement	
			L-31	Switch Statement	
9	Looping in Java Script	4	L-32	While Loop, Do.....while Loop	1
			L-33	For Loop	

			L-34	Break Statement	
			L-35	Continue Statement	
10	Communication Technology	4	L-36	Data, Information	1
			L-37	Multimedia, Networking	
			L-38	Types of Networks, Now a Network Works?	
			L-39	Networking Technologies	
11	Introduction to Presentation Software	2	L-40	Starting Power Point 2013, Creating a New Presentation, Adding Slides to a Presentation, Formatting the Slides	1
			L-41	Saving, Closing, and Opening a Presentation, Viewing and Organizing Slides, Creating and Customizing Slide Master	
12	Adding Effects to a Presentation	3	L-42	Inserting Picture, Inserting Shapes & Smart Art, Creating Watermark, Grouping Shapes, Pictures, or Objects, Inserting a Screenshot	1
			L-43	Creating a Photo Album, Inserting Sound & Movie, Slide Transitions & Animations	
			L-44	Slide Show, Creating Hyperlinks, Printing the Presentation	
13	Introduction to Spreadsheets	2	L-45	Advantages of Spreadsheets, Starting Excel 2013, Creating a New Workbook	1
			L-46	Selecting Cells, Editing Cells, Formatting Excel 2013 Worksheet, Formatting Data in Excel 2013	
14	Formulae and Charts in a Spreadsheet	2	L-47	Using Formulae, Cell Referencing, AutoSum, Functions	1
			L-48	Advanced Features of Excel 2013, Charts in Excel 2013, Printing a Worksheet	
15	Introducing Java GUI	3	L-49	Basic Terminology in Java, Net Beans IDE 7.3.1	1
			L-50	Steps in Creating a Java GUI application	
			L-51	Controls - Button, Label, Text Field, Text Area, and Password Field	
16	Controls and Working with Data in Java	3	L-52	Radio Button, Check Box, List	1
			L-53	Combo Box, Variables, Constants	
			L-54	Operators, Concatenation	
17	Control Structures in Java	2	L-55	Sequence, Selection	1
			L-56	Loops	
18	Societal Impact of Information Technology	3	L-57	What is ICT?, Plagiarism	1
			L-58	Privacy, Security and Integrity of Information	
			L-59	Intellectual Property Rights, Careers in IT	



## Integrated Program Course Planning (Class 9th)

**Academic Session 2016-17**

### SOCIAL SCIENCE

Course Name : Aim

Course Commencement : 4<sup>th</sup> April 2016

Course Completion : Last Week of Jan.'17

S.No	Topic Name	Total Lectures	Lecture No.	Sub-topic(s) Name	No. of DPPs	Misc. DPP's
1	India – Size and Location	3	L-1	location, relief, structure, major physiographic units.	1	
			L-2	structure, major physiographic units.		
			L-3	Exercise		
2	Democracy in the Contemporary World	3	L-4	Two tales of democracy, The changing map of democracy,	1	1
			L-5	Phases in the expansion of democracy, Democracy at the Global Level ?		
			L-6	Exercise		
3	The Story of Village Palampur	3	L-7	Organisation of Production, Farming in Palampur	1	
			L-8	Non-Farm activities in Palampur		
			L-9	Exercise		
4	The French Revolution	4	L-10	The Ancient Regime and its crises.	1	
			L-11	The social forces that led to the revolution.		
			L-12	The different revolutionary groups and ideas of the time, The legacy.		
			L-13	Exercise		
5	Physical Features of India	5	L-14	Major physiographic divisions (i) The Himalayan Mountains	1	1
			L-15	(ii) The Northern Plains		
			L-16	(iii) The Peninsular Plateau (iv) The Indian Desert		
			L-17	(v) The Coastal Plains (vi) The Islands		
			L-18	Exercise		
6	Socialism in Europe and The Russian Revolution	4	L-19	The crises of Tzarism.	1	
			L-20	The nature of social movements between 1905 and 1917.		
			L-21	The First World War and foundation of Soviet state, The legacy.		
			L-22	Exercise		
7	What is Democracy ? Why Democracy?	4	L-23	What are the different ways of defining democracy ?	1	
			L-24	Why has democracy become the most prevalent form of government in our times ? Must every democracy have the same institutions and values ?		
			L-25	What are the alternatives to democracy ? Is democracy superior to its available alternatives ?		
			L-26	Exercise		
8	People as Resource	5	L-27	Introduction of how people become resource/asset;	1	1
			L-28	Economic activities done by men and women; unpaid work done by women;		
			L-29	Quality of human resource		
			L-30	Role of health and education; unemployment as a form of nonutilisation of human resource; socio-political implication in simple form.		
			L-31	Exercise		
9	Constitutional Design	4	L-32	Democratic constitution in South Africa,	1	
			L-33	Why do we need a Constitution ?,		
			L-34	Making of the Indian Constitution and its significance.		
			L-35	Exercise		
10	Drainage	3	L-36	Major rivers and tributaries,	1	1

			L-37	Lakes and seas, role of rivers in the economy, pollution of rivers, measures to control river pollution.		
			L-38	Exercise		
11	Nazism and Hitler	4	L-39	(i) The growth of social democracy (ii) The crises in Germany.	1	
			L-40	(iii) The basis of Hitler's rise to power.		
			L-41	(iv) The ideology of Nazism. (v) The impact of Nazism.		
			L-42	Exercise		
12	Poverty as a Challenge	4	L-43	Who is poor (through two case studies one rural and one urban);	1	
			L-44	indicators; absolute poverty (not as a concept but through a few simple examples)		
			L-45	why people are poor; unequal distribution of resources; comparison between countries; steps taken by government for poverty alleviation.		
			L-46	Exercise		
13	Electoral Politics	4	L-47	Why and how do we elect representatives ? Why do we have a system of competition among political parties ?	1	
			L-48	Selection of candidate. Election Process .		
			L-49	Campaign, result declaration . Importance of Election commission. How are the results affected in Indian political system.		
			L-50	Exercise		
14	Climate	4	L-51	factors influencing the climate	1	1
			L-52	monsoon — its characteristics		
			L-53	rainfall and temperature distribution; seasons; climate and human life.		
			L-54	Exercise		
15	Forest Society and Colonialism	4	L-55	(i) Relationship between forests and livelihoods.	1	
			L-56	(ii) Changes in forest societies under colonialism.		
			L-57	Case Studies : Focus on two forest movements, one in colonial India (Bastar) and one in Indonesia.		
			L-58	Exercise		
16	Pastoralists in the Modern World	5	L-59	(i) Pastoralism as a way of life.	1	
			L-60	(ii) Different forms of pastoralism.		
			L-61	(iii) What happens to pastoralism under colonialism and modern states ?		
			L-62	Exercise		
17	Natural Vegetation and Wildlife	3	L-64	Factors affecting natural vegetation and types of vegetation.	1	1
			L-65	distribution as well as altitudinal variation, need for conservation and various measures.		
			L-66	Exercise		
18	Working of Institutions	4	L-67	How is a Major policy decision taken ?	1	
			L-68	Parliament		
			L-69	Political Executive, The Judiciary.		
			L-70	Exercise		
19	Food Security in India	4	L-71	variety across the nation; famines in the past; the need for self sufficiency;	1	1
			L-72	role of government in food security; procurement of foodgrains; overflowing of granaries and people without food.		
			L-73	public distribution system; role of cooperatives in food security (foodgrains, milk and vegetables ration shops, cooperative shops, two-three examples as case studies.		
			L-74	Exercise		
20	Democratic Rights	4	L-75	Why do we need rights in a constitution ?	1	
			L-76	What are the Fundamental Rights enjoyed by the citizen under the Indian constitution ?		
			L-77	How does the judiciary protect the Fundamental Rights of the Citizen ? How is the independence of the judiciary ensured ?		

			L-78	Exercise		
21	Peasants and Farmers – The Coming of Modern Agriculture in England	4	L-79	Peasants and Farmers	1	
			L-80	Histories of the emergence of different forms of farming and peasant societies.		
			L-81	Changes within rural economies in the modern world.		
			L-82	Exercise		
22	History and Sports – The Story of Cricket	4	L-83	The story of cricket (i) The emergence of cricket as an English sport.	1	
			L-84	(ii) Cricket and colonialism.		
			L-85	(iii) Cricket nationalism and de-colonialisation.		
			L-86	Exercise		
23	Population	4	L-87	size, distribution, age-sex composition,	1	1
			L-88	population change — migration as a determinant of population change,		
			L-89	literacy, health, occupational structure and national population policy : adolescents as under-served population group with special needs.		
			L-90	Exercise		
24	Clothes and Culture	3	L-91	(i) A short history of changes in clothing.	1	
			L-92	(ii) Debates over clothing in colonial India.		
			L-93	Exercise		