

ENGLISH
COURSE PLAN

I Term May 16 – 11 August	II Term 13 August – 01 December	III Term 03 December – 30 March
TEXT		
1. Appointment with Love 2. Life's Beginning 3. Girl Against the Jungle 4. The Broker 5. Sonnet 116 6. One Dark Night 7. The Rabbit	8. Work Builds, Charity Destroys 9. The Travel Bureau 10. Rukmini Devi Arundale 11. The House by the side of the Road 12. Unni Katha	13. Is Creativity Suppressed by Knowledge? 14. I am not that Woman
GRAMMAR		
1. Pronouns 2. Subject – Verb Agreement 3. Vocabulary 4. Use of Passive Voice 5. Reported Speech 6. Job Applications	1. Cohesive Devices 2. Letters of Public Interest 3. Note –taking & making 4. Report Writing 5. Reading Comprehension	1. Summarising 2. Expansion 3. Speaking Skills 4. Official Letters

INTERNAL ASSESSMENT

Term	Topic / Unit	Nature of the Assignment	Criteria
SCIENCE			
I	E-Submission	Online	<ul style="list-style-type: none"> Content Coherence Language use Use of technology
II	Error Identification in Scientific Writing	Writing	<ul style="list-style-type: none"> Identification of Error Accuracy in Grammar Application of Language Skills
III	Listening to recorded passages	Listening and Writing	<ul style="list-style-type: none"> Probing questions Guiding and Universal questions
COMMERCE & SOCIAL SCIENCES			
I	E-Submission	Online	<ul style="list-style-type: none"> Content Coherence Language use Use of technology
II	Micro Presentation and Group Discussion	Public Speaking and Writing	<ul style="list-style-type: none"> Attendance Oral Presentation Group Discussion Writing Skills
III	Listening to recorded passages	Listening and Writing	<ul style="list-style-type: none"> Probing questions Guiding and Universal questions

SANSKRIT

COURSE PLAN

I Term May 16 – 11 August	II Term 13 August – 01 December	III Term 03 December – 30 March
1. <i>Pratimāgruham</i> 2. Grammar 3. <i>Na Dahatyeva Pavakah</i> 4. Grammar a. <i>Swarsandhi</i> b. <i>Vyanjana</i> c. <i>Visarga</i> d. <i>Krudantapra karanam</i> e. <i>Chandas</i>	5. <i>Eka Chakram</i> 6. Grammar 7. <i>Chandrahâsa Charitam</i> 8. Grammar a. <i>Subanta</i> <i>Prakaranam</i> b. <i>Kriya Pada</i> c. <i>Prakaranam</i> d. <i>Patra Lekhanam</i> e. <i>Chandas</i>	9. <i>Sharame Laxmi</i> <i>Pratishthitâ</i> 10. Grammar 11. <i>Trçni Angul çyakâni</i> 12. Grammar 13. <i>Durlabham</i> <i>Mānusam Janma</i> 14. Grammar a. <i>Taddhitapra karanam</i> b. <i>Samasa</i> c. <i>Prayoga</i> d. <i>Alankâra</i> e. <i>Anuvâdah</i> f. <i>Vyakarana Vishshah</i>

INTERNAL ASSESSMENT

Term	Topic / Unit	Nature of the Assignment	Criteria
I	<i>Kavi Kavya Chintam</i>	Oral	<ul style="list-style-type: none"> • Content (topic) • Delivery (pronunciation, fluency and accuracy) • Creativity (critical and analytical skills)
II	<i>Rasaprashna (text based quiz)</i>	E- Submission / Online	<ul style="list-style-type: none"> • Performance
III	Grammar in work book	Written	<ul style="list-style-type: none"> • Completion • Presentation (Neatness)

KANNADA

COURSE PLAN

I Term May 16 – 11 August	II Term 13 August – 01 December	III Term 03 December – 30 March
1. <i>Vachanagalu</i> 2. <i>Ekalavya – Act 1 to 3</i> 3. <i>Yaadevisarva Bhooteshu</i> 4. <i>Simhanaadamgaidam</i> 5. <i>Ondu Anubhavada Eradu Mukha</i> 6. <i>Ellaru Maaduvudu</i> 7. Grammar	8. <i>Niyama Niyamagala Naduve</i> 9. <i>Manadolage Sattu Huttutirpalu</i> 10. <i>Bhimaalaapa</i> 11. <i>Ekalavya Act- 4 to 7</i> 12. <i>Elubina Handaradolage</i> 13. <i>Jeeva Ulisalu Hosa Jeevada Srushti</i> 14. <i>Poorvangane...</i> 15. <i>Tangi Huttidalu</i> 16. Grammar	17. <i>Kannada Samvardhane</i> 18. <i>Pathidharma</i> 19. <i>Petromax Hottavaru</i> 20. <i>Ekalavya Act- 8 to 11</i> 21. <i>Sumathiya Kathe</i> 22. Grammar

INTERNAL ASSESSMENT

Term	Topic / Unit	Nature of the Assignment	Criteria
I	Kannada quiz (text based)	E- Submission	<ul style="list-style-type: none"> • Performance
II	Subject related topics	Oral	<ul style="list-style-type: none"> • Content (Topic) • Delivery (pronunciation, fluency and accuracy) • Creativity (critical and analytical skills)
III	Workbook	Written	<ul style="list-style-type: none"> • Completion • Presentation (Neatness) • Creativity

HINDI

COURSE PLAN

I Term May 16 – 11 August	II Term 13 August – 01 December	III Term 03 December – 30 March
1. Orientation Programme 2. <i>Pavan Doot</i> 3. <i>Kakadi Ki Keemat</i> 4. <i>Sakhi Ve Mujse Kahakar Jaate</i> 5. <i>Pahila Safed Baal</i> 6. <i>Kabirdas Ki Padavali</i> 7. Novel – <i>Gangamaiya(1 and 2)</i> 8. <i>Vyakaran</i> 9. <i>Ek Kutta Aur Ek Maina</i> 10. <i>AIDS Rog Ki Avastaayen Chinha Evam Lakshan</i> 11. Novel – <i>Gangamaiya(3-5)</i> 12. <i>Soordas Ke Pad</i> 13. <i>Vasantha Aaya</i>	14. <i>Usne Kaha Tha</i> 15. <i>Bahata Paani Nirmala</i> 16. Novel – <i>Gangamaiya(6 and 7)</i> 17. <i>Tulasidas Ke Padh</i> 18. <i>Poos Ki Raath</i> 19. <i>Madhur Madhur Mere Deepak Jal</i> 20. <i>Madhushaala</i> 21. <i>Vishwa Vibhuti Sri Basaveshwar</i> 22. Novel – <i>Gangamaiya(8-11)</i>	23. <i>Sati</i> 24. <i>Meerabai Ki Padavali</i> 25. <i>Jab Tak Koi Bhi Bhookha Ho</i> 26. <i>Geet Farosh</i> 27. Novel - <i>Gangamaiya(12-17)</i>

INTERNAL ASSESSMENT

Term	Topic / Unit	Nature of the Assignment	Criteria
I	Quiz	E- Submission / Online	<ul style="list-style-type: none"> Performance
II	Topics will be given	Individual oral presentation	<ul style="list-style-type: none"> Content (Topic) Delivery (pronunciation, fluency and accuracy) Creativity (critical and analytical skills)
III	Grammar, Workbook and Worksheets	Written	<ul style="list-style-type: none"> Completion Presentation (Neatness)

FRENCH

COURSE PLAN

I Term May 16 – 11 August	II Term 13 August – 01 December	III Term 03 December – 30 March
1. Subject orientation 2. Grammar revision of I PUC portion 3. Unit-III a. Un PDG très occupé b. La Disparition mystérieuse c. L'enquête commence d. Workbook e. Leçon 1,2,3	1. Unit-III a. L'enquête continue b. Un coup de théâtre c. Workbook Leçon 4,5 2. Unit-IV a. Projets b. En panne c. Découverte d. Workbook e. Leçon 1,2,3	1. Unit-IV a. Conflits b. Vers l'avenir c. Workbook Leçon 4,5 2. Solving question paper. 3. Viva exam preparation.

INTERNAL ASSESSMENT

Term	Topic / Unit	Nature of the Assignment	Criteria
I	Verb conjugation	Written	<ul style="list-style-type: none"> ● Neatness ● Correct list of verbs ● Accurate conjugation of five new tenses
II	Role Play	Enactment	<ul style="list-style-type: none"> ● Props ● Pronunciation ● Fluency ● Spontaneity ● Content
III	Opinion phrases	Written and Oral presentation	<ul style="list-style-type: none"> ● Presentation ● Content ● Grammatical Phrases

SOCIAL SCIENCES

HISTORY

COURSE PLAN

I Term May 16 – 11 August	II Term 13 August – 01 December	III Term 03 December – 30 March
<p>1. Map work with Historical Importance.</p> <p>2. History of Karnataka: -</p> <p>2.1. Emergence of Modern Mysore – Hyder and Tipu Sultan.</p> <p>2.2. Restoration in Mysore</p> <p>2.3. Commissioners rule</p> <p>2.4. Rendition</p> <p>2.5. Karnataka's role in the Indian National Movement.</p> <p>2.6. Unification of Karnataka</p> <p>3. Biographical Sketches: - Leaders of Karnataka, India and the world</p> <p>4. History of Modern India: -</p> <p>4.1. Advent of Europeans in India. Map work – European settlements in India</p>	<p>4.2. British supremacy in India up to 1857</p> <p>4.3. Impact of British rule in India</p> <p>4.4. First War of Indian Independence.</p> <p>4.5. Impact of British rule</p> <p>4.6. Indian Renaissance</p> <p>4.7. National Movement</p> <p>5. Modern world:</p> <p>5.1. Geographical discoveries</p> <p>5.2. Renaissance</p> <p>5.3. Reformation - Counter reformation-</p> <p>5.4 American war of Independence</p> <p>5.5. French Revolution - Life and achievements of Napoleon</p> <p>5.6. Unification of Italy Unification of Germany: Life and achievements of Otto Von Bismarck.</p>	<p>5.7. Russian Revolution -</p> <p>5.8. World Wars and International Organizations: - first and second World War</p> <p>5.9.UNO</p>

INTERNAL ASSESSMENT

Term	Topic / Unit	Nature of the Assignment	Criteria
I	1. Book Reviews – Summer assignment	Written (e-submission) and oral presentations	Book Review <ul style="list-style-type: none"> • Content • Originality • Presentation
	2. Personalities	Power Point Presentations	Power Point Presentations <ul style="list-style-type: none"> • Content • Presentation
	3. Modern Karnataka	Comparative Chart	Chart making <ul style="list-style-type: none"> • Content • Creativity • Presentation
II	1. Modern Karnataka, India and the World	Role Play / Panel discussion	Role play <ul style="list-style-type: none"> • Creativity • Presentation Panel discussion <ul style="list-style-type: none"> • Research • Analysis • Content • Presentation
		Documentary review	Documentary review <ul style="list-style-type: none"> • Content • Originality • Presentation
		Comparative chart	Chart making <ul style="list-style-type: none"> • Content • Creativity • Presentation
III	Workbook History -2	Written	<ul style="list-style-type: none"> • Content • Presentation

ECONOMICS

COURSE PLAN

I Term May 16 – 11 August	II Term 13 August – 01 December	III Term 03 December – 30 March
1. Basic Concepts and Indicators of Development 2. Human Resource Development 3. Agriculture	4. Industrial Development 5. Labour Policy 6. Economic Infrastructure 7. Foreign Trade	8. Public Finance 9. Economic Planning

INTERNAL ASSESSMENT

Term	Topic / Unit	Nature of the Assignment	Criteria
I	1. Calculation of HDI for two countries	Problem solving	Chart Making / Collage <ul style="list-style-type: none"> • Content • Creativity • Presentation Case Study <ul style="list-style-type: none"> • Research • Analysis • Content • Bibliography Panel Discussion / PPT Presentation / Written Assignment <ul style="list-style-type: none"> • Research • Content • Analysis • Presentation Group Discussion <ul style="list-style-type: none"> • Communication • Leadership • Interpersonal • Persuasive skill • e. problem solving
	2. Developed, developing and underdeveloped economies	Case Study (Data Analysis)	
	3. Economic Reforms of 1991	Panel Discussion	
	4. Sustainable development	Written	
	5. Table, Pie Chart, Bar Graph	Written	
	6. A brief write up on National Population Policy	Written	
	7. Write 10 Slogans on <ul style="list-style-type: none"> • Health • Family Planning • Education • Women Empowerment • Poverty Alleviation • Unemployment 	Written	
	8. Population Census Data 2011	Panel Discussion	
	9. Primary Health	Role Play	
	10. Composition of Population	Chart Making	
	11. Watershed Management	Written Assignment	
	12. Green Revolution	Group Presentation	
	13. Soil Erosion	Micro Presentation	
	14. Report on a visit to Fair price shop	Written	
	15. Report on Rainwater harvesting in your area	Written	
II	1. List of major Industries in India and Location	Written	
	2. Report on SHG	Written	
	3. Railway Zones	Chart Making	
	4. Monetary Policy	Group Discussion	
	5. Money and Capital Markets	Panel Discussion	
	6. Structure and growth of commercial banks in India	Panel Discussion	
	7. List International Airports of India	Chart Making	
	8. Role of W.T.O in India	Panel Discussion	
	9. Indian Current status in Foreign Trade	Written (e-submission)	
III	1. Budget Analysis	Panel Discussion	
	2. Sources of Revenue and Heads of expenditure	Chart Making	
	3. Planning Commission in India	Written Assignment	

SOCIOLOGY

COURSE PLAN

I Term May 16 – 11 August	II Term 13 August – 01 December	III Term 03 December – 30 March
1. The making of Indian Society 2. Caste system in India 3. Family in India	4. Status of Women in India 5. Process of Social Change 6. Village India	7. Current Social Issue a. Child labour b. Corruption

INTERNAL ASSESSMENT

Term	Topic / Unit	Nature of the Assignment	Criteria
I	Book Review (related to II PU syllabus)	Written	<ul style="list-style-type: none"> ● Interpretation ● Book selected ● Originality
	Impact of western culture on Indian society	Written	<ul style="list-style-type: none"> ● Content ● Reference
	Cultural pluralism	Chart	<ul style="list-style-type: none"> ● Content ● Creativity ● Presentation
	Role and influence of caste	Panel Discussion	<ul style="list-style-type: none"> ● Content ● Research ● Interpretation ● References
II	Violation of Human rights in India (violence against women)	E-Submission	
III	Child labor/corruption	Project (case study)	<ul style="list-style-type: none"> ● Content ● Creativity ● Presentation
	Legislation related to family marriage and women.	Chart and presentation	

PSYCHOLOGY

COURSE PLAN

I Term May 16 – 11 August	II Term 13 August – 01 December	III Term 03 December – 30 March
1. Emotion and Motivation 2. Intelligence	3. Personality 4. Psychology – its Social Relevance 5. Frustration and Conflict	6. Counselling

INTERNAL ASSESSMENT

Term	Topic / Unit	Nature of the Assignment	Criteria
I	Psychology Applied in Today's World	Book Review, Case Analysis, Article Review. (e-submission)	<ul style="list-style-type: none"> ● Review ● Interpretation ● Writing Skills ● Originality ● Topic chosen
II	Interaction with Specially Abled Children	Project	<ul style="list-style-type: none"> ● Content ● Viva ● Group Dynamics
III	Social Behavior and its Relevance, Personality	Oral and PPT Presentation, Social Analysis	<ul style="list-style-type: none"> ● Content ● Knowledge ● Presentation Skills

POLITICAL SCIENCE

COURSE PLAN

I Term May 16 – 11 August	II Term 13 August – 01 December	III Term 03 December – 30 March
Title: Major Political Thinkers, Trends and Processes 1. Major Political Thinkers - I 2. Major Political Thinkers - II 3. Contemporary Political Trends 4. Electoral System in India	5. Party System in India 6. Public Opinion and Pressure Groups in India 7. Administrative machinery in India 8. Challenges to Indian Democracy	9. India and the World

INTERNAL ASSESSMENT

Term	Topic / Unit	Nature of the Assignment	Criteria
I	Political Trends and Developments	Written Assignment-Book Review	<ul style="list-style-type: none"> ● Originality ● Analysis ● Presentation
II	Challenges to Indian Democracy	Panel Discussion	<ul style="list-style-type: none"> ● Clarity of Thought ● Analysis ● Presentation
III	Contemporary Political Developments	Submission of two articles (E-Submission)	<ul style="list-style-type: none"> ● Originality ● Analysis ● Presentation

COMMERCE

BUSINESS STUDIES

COURSE PLAN

I Term May 16 – 11 August	II Term 13 August – 01 December	III Term 03 December – 30 March
1. Subject Orientation 2. Industry 3. Marketing 4. Social Responsibility of Business 5. Consumer Protection	6. Business Finance 7. Foreign Trade 8. Money and Capital Market 9. Computers in Business	10. Service Sector 11. Career Opportunities in Business.

INTERNAL ASSESSMENT

Term	Topic / Unit	Nature of the Assignment	Criteria
I	Different Industrial Sectors Plant Layout Advertisement	Chart Making Flow Chart Creative Print Advertisement	Chart Making <ul style="list-style-type: none"> • Content • Creativity • Presentation Flow Chart <ul style="list-style-type: none"> • Content • Clarity • Creativity • Presentation Creative Print Advertisement <ul style="list-style-type: none"> • Content • Creativity • Presentation Documentation <ul style="list-style-type: none"> • Content • Presentation • Creativity Micro Presentation <ul style="list-style-type: none"> • Content • Communication • Oral presentation skills Graphical Presentation <ul style="list-style-type: none"> • Research • Content • Presentation Report writing <ul style="list-style-type: none"> • Research • Content • Analysis • Presentation Mind Mapping <ul style="list-style-type: none"> • Content • Clarity • Creativity
II	Foreign Trade Corporate Social Responsibility Movement of Stock price of 10 companies	Documentation Micro Presentation Graphical Presentation	
III	Procedure of opening bank account Career opportunities Popular Insurance Schemes	Documentation Mind Mapping Report Writing	

ACCOUNTANCY

COURSE PLAN

I Term May 16 – 11 August	II Term 13 August – 01 December	III Term 03 December – 30 March
1. Subject orientation 2. Single Entry System 3. Accounts of Joint Stock Companies 4. Final Accounts of Companies 5. Fundamentals of Partnership 6. Death of Partner 7. Computerised Accounting Partnership Accounts- Admission of Partner (Part I)	8. Partnership Accounts- Admission of Partner 9. Partnership Accounts- Retirement of Partner 10. Dissolution of Partnership Firms 11. Depreciation Accounting (Part I)	12. Final Accounts of Non –Trading Concerns

INTERNAL ASSESSMENT

Term	Topic / Unit	Nature of the Assignment	Criteria
I	Areas of Accounting- (Financial accounting, Cost accounting, Management Accounting, Payroll Accounting, Forensic Accounting and Environmental accounting.)	Written	<ul style="list-style-type: none"> ● Content ● Research ● Presentation
II	Online quiz on partnership accounts	E-Submission	<ul style="list-style-type: none"> ● Performance
III	A study of non trading concern and its maintenance of accounts	Objective Test	<ul style="list-style-type: none"> ● Performance

BASIC MATHEMATICS

COURSE PLAN

I Term May 16 – 11 August	II Term 13 August – 01 December	III Term 03 December – 30 March
<p>A. Algebra</p> <p>a. Mathematical Logic</p> <p>b. Partial Fraction</p> <p>c. Binomial Theorem</p> <p>B. Calculus Functions, Limits and continuity</p> <p>C. Differential Calculus</p> <p>a. Derivatives</p> <p>b. Derivative as rate measure</p> <p>D. Co-ordinate Geometry</p> <p>a. Circles</p> <p>E. Mathematics of Finance</p> <p>a. Learning Curve</p> <p>b. L.P.P</p>	<p>A. Algebra</p> <p>a. Matrices and Determinants</p> <p>b. Permutation and Combination</p> <p>c. Probabilities</p> <p>B. Mathematics of Finance</p> <p>a. Stocks and Shares</p> <p>b. Bill discounting</p> <p>C. Co-ordinate Geometry Parabola</p> <p>D. Differential Calculus</p> <p>a. Total, Average and Marginal cost and revenue</p> <p>b. Increasing and decreasing functions</p> <p>c. Maxima and Minima</p> <p>d. Application to Commerce.</p>	<p>A. Mathematics of Finance</p> <p>a. Averages</p> <p>b. Ratio and Proportion</p> <p>B. Integral Calculus</p> <p>a. Indefinite Integral</p> <p>b. Definite integral and Applications</p>

INTERNAL ASSESSMENT

Term	Topic / Unit	Nature of the Assignment	Criteria
I	Application of Mathematics in Finance	Group Activity	<ul style="list-style-type: none"> • Content • Presentation • Group dynamics
II	Coordinate Geometry Mathematics of Finance	Mental aptitude test (Individual)	<ul style="list-style-type: none"> • Performance
III	Algebra, Calculus	Cooperative learning (Group activity)	<ul style="list-style-type: none"> • Identification and Interpretation • Algorithm/Flowchart • Team work, Recording and Reporting

STATISTICS

COURSE PLAN

I Term May 16 – 11 August	II Term 13 August – 01 December	III Term 03 December – 30 March
1. Vital Statistics 2. Index Numbers 3. Time Series 4. Statistical Quality Control	5. Theoretical Distribution 6. Statistical Inference	7. Operational Research

INTERNAL ASSESSMENT

Term	Topic / Unit	Nature of the Assignment	Criteria
I	Quiz(LMS)- Vital Statistics, Index Number And Time Series	E-Submission	<ul style="list-style-type: none"> ● Performance
II	Case Analysis Topic: Statistical Inference and Theoretical Distributions	E-Submission	<ul style="list-style-type: none"> ● Performance
III	Operational Research and Statistical Quality Control	Offline test	<ul style="list-style-type: none"> ● Performance

ECONOMICS

COURSE PLAN

I Term May 16 – 11 August	II Term 13 August – 01 December	III Term 03 December – 30 March
1. Basic Concepts and Indicators of Development 2. Human Resource Development 3. Agriculture	4. Industrial Development 5. Labour Policy 6. Economic Infrastructure 7. Foreign Trade	8. Public Finance 9. Economic Planning

INTERNAL ASSESSMENT

Term	Topic / Unit	Nature of the Assignment	Criteria
I	1. Calculation of HDI for two countries	Problem solving	Chart Making / Collage <ul style="list-style-type: none"> • Content • Creativity • Presentation Case Study <ul style="list-style-type: none"> • Research • Analysis • Content • Bibliography Panel Discussion /PPT Presentation / Written Assignment <ul style="list-style-type: none"> • Research • Content • Analysis • Presentation Group Discussion <ul style="list-style-type: none"> • Communication • Leadership • Interpersonal • Persuasive skill • e. problem solving
	2. Developed, developing and underdeveloped economies	Case Study (Data Analysis)	
	3. Economic Reforms of 1991	Panel Discussion	
	4. Sustainable development	Written	
	5. Table, Pie Chart, Bar Graph	Written	
	6. A brief write up on National Population Policy	Written	
	7. Write 10 Slogans on <ul style="list-style-type: none"> • Health • Family Planning • Education • Women Empowerment • Poverty Alleviation • Unemployment 	Written	
	8. Population Census Data 2011	Panel Discussion	
	9. Primary Health	Role Play	
	10. Composition of Population	Chart Making	
	11. Watershed Management	Written Assignment	
	12. Green Revolution	Group Presentation	
	13. Soil Erosion	Micro Presentation	
	14. Report on a visit to Fair price shop	Written	
	15. Report on Rainwater harvesting in your area	Written	
II	1. List of major Industries in India and Location	Written	
	2. Report on SHG	Written	
	3. Railway Zones	Chart Making	
	4. Monetary Policy	Group Discussion	
	5. Money and Capital Markets	Panel Discussion	
	6. Structure and growth of commercial banks in India	Panel Discussion	
	7. List International Airports of India	Chart Making	
	8. Role of W.T.O in India	Panel Discussion	
	9. Indian Current status in Foreign Trade	Written (e-submission)	
III	1. Budget Analysis	Panel Discussion	
	2. Sources of Revenue and Heads of expenditure	Chart Making	
	3. Planning Commission in India	Written Assignment	

SCIENCE

PHYSICS

COURSE PLAN

I Term May 16 – 11 August	II Term 13 August – 01 December	III Term 03 December – 30 March
Part – A		
1. Refraction at Plane Surface 2. Refraction through Prism 3. Refraction at Spherical Surface 4. Introduction to Theories of Light 5. Speed of light 6. Interference 7. Diffraction	8. Polarization 9. Introduction to Atomic Physics 10. Dual nature 11. Scattering of Light 12. Nuclear Physics 13. Radioactivity	14. Bohr's Atom Model 15. Photoelectric Effect
Part – B		
1. Electric Charges 2. Electrostatic Field 3. Capacitors 4. Electric Current 5. Kirchhoff's Law	6. Magnetic Effect of Current 7. Mechanical Effect of Current 8. Electromagnetic induction 9. Elementary particles 10. Lasers	11. Solid State Physics 12. Digital Electronics 13. Soft Condensed Matter Physics
Demonstration / Practical Experiments		
1. Dispersive power of Prism (Demo) 2. Diffraction Grating (Demo) 3. Focal length (P/c) 4. Ohms law (P/c) 5. Self Inductance (P/c) 6. Resistivity-meter bridge (P/c) 7. Thermistor-meter bridge (P/c)	8. Charging and discharging of capacitor (P/c) 9. Potentiometer (P/c) 10. Tangent Galvanometer (P/c) 11. Current Sensitivity (P/c) 12. Conversion of GM to VM (P/c) 13. Air Wedge (Demo) 14. Polarimeter (Demo)	15. Semi conductor diode (P/c) 16. Joule's Calorimeter (P/c) 17. Logic gates (P/c)

INTERNAL ASSESSMENT

Term	Topic / Unit	Nature of the Assignment	Criteria
Annual	Practical Curriculum and related theory	Viva Voce Mock Exam	<ul style="list-style-type: none"> • Continuous Assessment • Mock Test (performance and analytical skills; understanding and knowledge) • Discipline

CHEMISTRY

COURSE PLAN

I Term May 16 – 11 August	II Term 13 August – 01 December	III Term 03 December – 30 March
1. Noble gases 2. Solids 3. Chemical Kinetics 4. Thermodynamics 5. Metallurgy 6. Chemical Bonding 7. Synthetic organic chemistry 8. Concepts in organic chemistry 9. Isomerism 10. Hydrocarbon 11. Haloalkanes 12. Phenols 13. Aldehydes and Ketones 14. Carboxylic Acids 15. Amines	16. Colloids. 17. Carbohydrates, 18. Amino acids & proteins 19. Oils and Fats 20. d – block elements 21. Co-ordination compounds 22. Electro chemistry	23. Industrially important compounds. 24. Dilute solutions

INTERNAL ASSESSMENT

Term	Topic / Unit	Nature of the Assignment	Criteria
Annual	Seminar presentation	Lecture with Audio visual aids	<ul style="list-style-type: none"> ● Leadership ● Group dynamics ● Quality of content and presentation
	Subject mentoring	Oral and written checks on concept clarity	<ul style="list-style-type: none"> ● Response towards academics ● Interaction and Interpretation skill
	General behavior		<ul style="list-style-type: none"> ● Upholding the institutional culture
	Laboratory skills		<ul style="list-style-type: none"> ● Instrumentation skill ● Procedure skill ● Presentation skill
	Practical record		<ul style="list-style-type: none"> ● Tidiness of record ● Submission on time
	Viva voce	Questions on practical syllabus	<ul style="list-style-type: none"> ● Conceptual clarity

MATHEMATICS

COURSE PLAN

I Term May 16 – 11 August	II Term 13 August – 01 December	III Term 03 December – 30 March
<p>A. Co-ordinate Geometry Circles</p> <p>B. Trigonometry 1. Inverse Trigonometric Function 2. General Solutions 3. Complex Numbers</p> <p>C. Algebra Matrices and determinants (including properties of determinants)</p> <p>D. Calculus 1. Differentiation 2. Application of Differentiation i. Equation of Tangent and Normal ii. Angle between two curves iii. Sub Tangent and Subnormal</p>	<p>A. Algebra 1. Matrices and Determinants(complete) 2. Groups 3. Vectors</p> <p>B. Co-ordinate Geometry Conic Sections – Parabola</p> <p>C. Calculus 1. Rate measure 2. Maxima and Minima 3. Integration 4. Integration by Substitution 5. Some Important Integrals.</p>	<p>A. Co-ordinate Geometry Conic Sections (complete)</p> <p>B. Algebra Number Theory</p> <p>C. Calculus 1. Integration (Complete) 2. Definite Integral 3. Application of Definite Integral 4. Differential Equation</p>

INTERNAL ASSESSMENT

Term	Topic / Unit	Nature of the Assignment	Criteria
I	Application of Mathematics in real world	Power Point Presentation (Group Activity)	<ul style="list-style-type: none"> • Content • Presentation • Group dynamics
II	I and II term portions	Mental aptitude test (Individual)	<ul style="list-style-type: none"> • Performance
III	Vectors, Calculus	Cooperative learning (Group activity)	<ul style="list-style-type: none"> • Identification and Interpretation • Algorithm/Flowchart • Team work, Recording and Reporting

BIOLOGY

COURSE PLAN

I Term May 16 – 11 August	II Term 13 August – 01 December	III Term 03 December – 30 March
BOTANY		
Plant Histology and Anatomy, Water Relations, Introduction to Bioenergetics and Photosynthesis	Respiration, Molecular Biology, Biotechnology – Introduction, tools, recombinant DNA technology, Brief account of DNA finger printing, Monoclonal antibodies, Gene therapy and Human genome project	Plant breeding, Tissue culture, Animal breeding, Safeguards and hazards of Biotechnology, Growth and growth regulators
ZOOLOGY		
Genetics, Homeostasis, Body Defense and immunity, digestion, circulation, respiration	Excretion and Nervous system Continuity of life	Biodiversity

INTERNAL ASSESSMENT

Term	Topic / Unit	Nature of the Assignment	Criteria
I	Syllabus covered during I term	<i>Viva voce</i>	<ul style="list-style-type: none"> ● Knowledge ● Understanding
II	Syllabus covered during I and II term	Written	<ul style="list-style-type: none"> ● Performance
III	Record Attestation	Written	<ul style="list-style-type: none"> ● Drawing skills and neatness of the record ● Punctuality

ELECTRONICS

COURSE PLAN

I Term May 16 – 11 August	II Term 13 August – 01 December	III Term 03 December – 30 March
<p>Bipolar Junction Transistor:</p> <ul style="list-style-type: none"> ▪ Transistor working and concepts biasing of transistor <p>Transistor Amplifiers:</p> <ul style="list-style-type: none"> ▪ Single Stage amp ▪ AC and DC equivalent circuit ▪ Photo Transistor ▪ RC coupled amp ▪ Differential amp <p>Digital Electronics: NAND, NOR, XOR gates, SOP and POS, representation Karnaugh map, codes sequential logic circuits, Flip Flops, Digital Computers.</p>	<p>Feedback in Amplifiers: Types, Negative feedback stability.</p> <p>Operational Amplifier: Parameters, Inverting and Non inverting, applications, comparators.</p> <p>Communication: System Block Diagram, Ionosphere, Sky wave, ground wave and space wave.</p> <p>Modulation and Demodulation:</p> <ul style="list-style-type: none"> ▪ Need and Type ▪ AM and FM ▪ Receivers, Transmitters 	<p>Oscillators: Theory of Oscillators, RC, LC and Crystal Oscillators.</p> <p>Modern Communication:</p> <ul style="list-style-type: none"> ▪ Television ▪ Mobile Phones ▪ Internet and computer networking ▪ Satellite communication

INTERNAL ASSESSMENT

Term	Topic / Unit	Nature of the Assignment	Criteria
Annual	Class Presentation/ Project Presentation	Power Point Charts Reports	<ul style="list-style-type: none"> • Teamwork • Content • Explanation • Interaction
	Academics	Student performance in academics	<ul style="list-style-type: none"> • All average marks of the exams conducted during the academic year
	Practical	Regular experiments	<ul style="list-style-type: none"> • Regularity/attendance: • Initial preparation • Performance • Observation • Record