

Syllabus Index

FYJC (Sci. & Comm.)

2026 – 27

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Month	Sr. No.	Ls.No.	Topic	Pg. No.	Date of completion
August	1	1.1	Being Neighborly.	1-14	
	2		Activity 1 : Make a list of careers available to you and write about them in brief in about 150-200 words.		
	3	2.1	Cherry Tree.	65-70	
	4		Activity 2 : Collect at least five poems of any Nature poet and write them along with their summary in about 200-250 words.		
	5	3.1	Writing Skill : Expand the idea - One should eat to live, not live to eat. - Franklin.	97-100	
	6		Grammar : Parts of Speech.		
	7	4.1	History of English Drama.	128-137	
Unit Test - I					
September	8	1.2	On to the Summit : We Reach the Top.	15-24	
	9		Activity 3 : Surf the internet for the names of various mountaineers who have successfully climbed Mt. Everest & write in your notebook about their struggles and their failures in about 200-250 words.		
	10	2.2	The Sower.	71-74	
	11		Activity 4 : Use the web and collect Information on 'Green Revolution' and 'White Revolution' in our country and write them in brief in about 200-250 words each.		
	12	3.2	Writing Skill : Prepare a word register for writing a blog on the topic - 'Environment' in about 200-250 words.	101-104	
	13		Grammar : Sentence structure.		
	14	4.2	The Rising of the Moon.	138-150	
October	15	1.3	The Call of the Soil : A Scent of Rice.	25-34	
	16		Activity 5 : Describe in about 150 words your experience similar to the writer's when you pursued something and reached your goal.		
	17	2.3	There is Another Sky.	75-80	
	18		Activity 6 : Search the poems 'The Road Not Taken' and 'O Captain My Captain' and write down your opinion about the poems in your notebook in about 200-250 words.		
	19	3.3	Writing Skill : Write an E-mail to your friend who has not contacted you for a long time in about 200-250 words.	105-110	
	20		Grammar : Vocabulary and word building.		
	21	4.3	Extracts of Drama.		
22		A) A Midsummer Night's Dream.	151-173		
Sem End Exam I <i>(Note : Syllabus of UT I is also included for SE I)</i>					
	23	1.4	Pillars of Democracy.	35-42	
	24		Activity 7 : Search the internet and find at least one speech of a renowned personality of the world, Mahatma Gandhi and write the Speech in your notebook in about 250-300 words.		

November	25	2.4	Upon Westminster Bridge.	81-86	
	26		Activity 8 : Find out the information about the famous bridge 'The Howrah Bridge' in India and write about it in your notebook in about 200-250 words.		
	27	3.4	Writing Skills: You are a class representative and you are assigned by the Principal of your college, the task to conduct an interview of a famous Cricketer Mr. Sachin Tendulkar. Write an Interview of about 20-30 questions.	111-116	
	28		Grammar: Speech.		
	29		B) An Enemy of the People.	174-195	
December	30	1.5	Mrs. Adis.	43-52	
	31		Activity 9 : Search on the internet a story where a king or any great person has forgiven a losing king, culprit or offender and write the summarised version of it in your notebook in about 300-350 words.		
	32	2.5	Nose versus Eyes.	87-90	
	33		Activity 10 : Search on internet and read a story about intelligent ministers of kings, whose judgements helped to bring about law and order in society and write it in your notebook in about 200-250 words.		
	34	3.5	Writing Skills : 'Narnia' is a film about four children who find a path to Narnia. Discuss in your class, the special effects and direction. Write a review with the help of the following points in about 100-150 words. (a) Storyline (b) Producer (c) Director (d) Music Director (d) Characters/ casting (major and minor) (e) Setting/ location (f) Conflict (g) Message (h) Significance of the title.	117-121	
	35		Grammar : Figures of Speech and stylistic devices.		
January	36	1.6	Tiger Hills.	53-64	
	37		Activity 11: Imagine that you are one of the soldiers from 18 Grenadiers on the mission Tiger Hill and write your experience of the war in your notebook in about 250-300 words.		
	38	2.6	The Planners.	91-95	
	39		Writing Skills : Imagine that a person who has returned to his native place after long time is talking to his old friend about the changes that have taken place in the village. Write a dialogue between two friends who have become nostalgic about their old village.		
	40		Activity 12 : Compose four lines expressing the grief of having lost nature due to modernisation.		
<i>Unit Test II</i>					

Month	Sr. No.	Ls. No.	Topic	Pg. No.	Date of Completion
August	1	1	त्रिवेणी: प्रेरणा	1-4	
	2	2	लघु कथाएँ	5-8	
	3		क्रियाकलाप 1 : शिक्षा से वंचित बालकों की समस्या इस विषय पर कक्षा में अपना मत प्रकट कीजिए और 80 से 100 शब्दों में निबंध लिखिए।		
	4	1	व्याकरण: संज्ञा के प्रकार		
Unit Test I					
Sept	5	3	गीत: पंद्रह अगस्त	9-12	
	6		क्रियाकलाप 2 : स्वतंत्रता का वास्तविक अर्थ समझाते हुए प्रस्तुत गीत का रसास्वादन कीजिए।		
	7	4	व्यंग: मेरा भला करने वालों से बचाएँ	13-18	
	8	2	व्याकरण: विराम चिन्ह		
Oct	9	5	मध्ययुगीन काव्य	19-22	
	10		क्रियाकलाप 3 : अहंकार मनुष्य का सबसे बड़ा शत्रु है इस विषय पर अपना विचार प्रकट कीजिए और लिखिए।		
	11	6	रेडियो रूपक: कलम का सिपाही	23-26	
	Sem End Exam I (Note : Syllabus of UT I is also included for SE I)				
Nov	12	7	प्रवासी साहित्य - कविता: स्वागत है	27-33	
	13		क्रियाकलाप 4 : विश्व बंधुता आज के समय की आवश्यकता इस विषय पर कक्षा में चर्चा कीजिए और अपना मत लिखिए।		
	14	8	प्रतीकात्मक कहानी : तत्सत	34-38	
	15	3	व्याकरण : रस के प्रकार		
Dec	16	9	गजलें	39-45	
	17		क्रियाकलाप 5 : गजल में निहित जीवन के विविध भावों को आत्मसात करते हुए रसास्वादन कीजिए।		
	18	10	वैचारिक निबंध: महत्वाकांक्षा और लोभ	46-49	
	19	11	जीवनीपरक उपन्यास अंश :भारती का सपूत	50-54	
	20		क्रियाकलाप 6 : भारती का सपूत के आधार पर भारतीय मुख्य उद्धार प्रवृत्ति का वर्णन कक्षा में कीजिए और कुछ वाक्य लिखिए।		
Jan	21	12	नई कविता: संहर्ष स्वीकारा है	55-60	
	22	4	व्याकरण : काल परिवर्तन		
	23	13	नुककड़ नाटक	61-64	
	24		क्रियाकलाप 7 : ब्लड बैंक समय की मांग इस विषय पर कक्षा में चर्चा कीजिए और अपना मत प्रकट करके लिखिए।		
	25	14	भाषण : हिंदी में उज्ज्वल भविष्य की संभावनाएँ	65-83	
	26		क्रियाकलाप 8: हिंदी विषय में आप अपना भविष्य किस प्रकार देखते हो इस विषय पर कक्षा में चर्चा कीजिए और लिखिए।		
	27	5	व्याकरण: अलंकार के प्रकार		

Unit Test II				
Feb	28	15	लेख: समाचार: जन से जनहित तक	89-92
	29	16	साक्षात्कार : रेडियो जॉकी	93-97
	30	17	आलेख: ई - अध्ययन :नई दृष्टि	98-101
March	31		क्रियाकलाप 9 : विद्यार्थी जीवन में अध्ययन का महत्व चर्चा में बताइए और लिखिए।	
	Sem End Exam II (Note : Syllabus of UT II is also included for Final Exam)			

Month	Sr. No.	Ls. No.	Topic	Pg. No.	Date of Completion
Aug	1	1	गद्य - मामू	2-6	
	2		Activity 1 - तुमच्या परिसरातील 'मामू' सारख्या बहुगुणी व्यक्तीचा शोध घ्या व त्याच्या व्यक्तिविशेषाचे वर्णन तुमच्या शब्दांत लिहा.		
	3	2	पद्य - प्राणसई (कविता)	7-10	
	4		Activity 2 - प्राणसई या कवितेचे रसग्रहण तुमच्या शब्दांत लिहा.		
	5		व्याकरण - शब्दांच्या जाती		
	6	1	व्याकरण - शब्दशक्ती	119-122	
Unit Test I					
Sep	7	3	गद्य - अशी पुस्तकं	11-15	
	8		Activity 3 - तुमच्या आवडत्या लेखक / लेखिका, कवी / कवयित्री यांच्या साहित्याची यादी तयार करून लिहिणे.		
	9		व्याकरण - लिंग		
	10		नाटक - साहित्यप्रकार - परिचय	61-69	
	11	1	उपयोजित मराठी - सूत्रसंचालन	88-92	
	12		उपयोजित मराठी - सूत्रसंचालन - 'वार्षिक स्नेहसंमेलनाचा' समारोप कार्यक्रमासाठी सूत्रसंचालनाची संहिता तयार करा.		
Oct	13		उपयोजित मराठी - सूत्रसंचालन - 'वसुंधरा दिनानिमित्त' होणाऱ्या कार्यक्रमासाठी सूत्रसंचालनाची संहिता तयार करा.		
	14		उपयोजित मराठी - सूत्रसंचालन - 'प्रकाशन समारंभ' कार्यक्रमासाठी सूत्रसंचालनाची संहिता तयार करा.		
	15		उपयोजित मराठी - सूत्रसंचालन - 'गौरव समारंभ' कार्यक्रमासाठी सूत्रसंचालनाची संहिता तयार करा.		
Semester End Exam - I (Note : Syllabus of UT I is also included for SE I)					
Nov	16	4	पद्य - झाडांच्या मनात जाऊ (कविता)	16-18	
	17		Activity 4 - झाडांच्या मनात जाऊ या कवितेचे रसग्रहण तुमच्या शब्दांत लिहा.		
	18	5	गद्य - परिमळ	19-24	
	19		Activity 5 - बहिणाबाईंची गाणी मिळवून ती सुरेख अक्षरात लिहून काढणे.		
	20		व्याकरण - वचन		
	21	2	व्याकरण - काव्यगुण	123-125	
	22	2	उपयोजित मराठी - मुद्रितशोधन	93-100	
	23	6	पद्य - दवांत आलिस भल्या पहाटी (कविता)	25-28	
	24		Activity 6 - दवांत आलिस भल्या पहाटी या कवितेचे रसग्रहण तुमच्या शब्दांत लिहा.		
	25	1	नाटक - हसवाफसवी	70-74	
	26		व्याकरण - समानार्थी शब्द		
	27		व्याकरण - विरुद्धार्थी शब्द		
	28	4	व्याकरण - काळ	130-131	
29	3	उपयोजित मराठी - अनुवाद	101-107		

Dec	30	7	गद्य - माणूस' बांधूया	29-32	
	31	8	पद्य - ऐसीं अक्षरें रसिकें (कविता)	33-35	
	32		Activity 7 - ऐसीं अक्षरें रसिकें या कवितेचे रसग्रहण तुमच्या शब्दांत लिहा.		
	33		व्याकरण - विरामचिन्हे		
	34		व्याकरण - वाक्प्रचार		
	35	2	नाटक - ध्यानीमनी	75-79	
	36	4	उपयोजित मराठी - अनुदिनी (ब्लॉग) लेखन	108-113	
	37		उपयोजित मराठी - अनुदिनी (ब्लॉग) लेखन - महाविद्यालयातील पहिला दिवस		
	38		उपयोजित मराठी - अनुदिनी (ब्लॉग) लेखन - माझा वाईट अनुभव		
	39		उपयोजित मराठी - अनुदिनी (ब्लॉग) लेखन - फेसबुक मैत्री आवश्यक की अनावश्यक		
40		उपयोजित मराठी - अनुदिनी (ब्लॉग) लेखन - माझा प्रवास			
Jan	41	9	गद्य - वहिर्नीचा 'सुसाट' सल्ला	36-43	
	42		Activity 8 - प्रसारमाध्यमांतून सतत दाखवल्या जाणाऱ्या जाहिराती व मालिका यांविषयी समवयस्कांशी चर्चा करा व त्यासंबंधी अहवाल लिहून काढा.		
	43	10	पद्य - शब्द (कविता)	44-46	
	44		Activity 9 - शब्द या कवितेचे रसग्रहण तुमच्या शब्दांत लिहा.		
Unit Test II					
Feb	45		व्याकरण - भाषाभ्यास		
	46		व्याकरण - म्हणी		
	47	5	व्याकरण - शब्दभेद	132-136	
	48	5	उपयोजित मराठी - रेडिओजॉकी	114-118	
	49	11	गद्य - वाङ्मयीन लेण्याचा शिल्पकार	47-52	
	50		Activity 10 - संगणकावर उपलब्ध असणाऱ्या गुगल चा वापर करून लिओ टॉलस्टोय यांच्याविषयी अधिक माहिती मिळवून लिहून काढा.		
	51	12	पद्य - पैजण (कविता)	53-60	
	52		Activity 11 - पैजण या कवितेचे रसग्रहण तुमच्या शब्दांत लिहा.		
March	53	3	नाटक - सुंदर मी होणार	80-87	
	54		व्याकरण - पारिभाषिक शब्द		
	55	3	व्याकरण - वाक्यसंश्लेषण	126-129	
	56		Revision		
Sem End Exam II					
(Note : Syllabus of UT II is also included for Final Exam)					

Month	Sr. No.	Ls. No.	Topic	Pg. No.	Date of Completion
Aug	1	1	Introduction to Book keeping and Accountancy	1-18	
	2		Activity 1: Prepare list of Assets that you find in your house.		
Unit Test I					
Sep	3	2	Meaning & Fundamentals of Double Entry Book- keeping	19-43	
	4	3	Journal	44-88	
	5		Activity 2: Journalize & collect GST Bills of 10 transactions incurred from your pocket money		
	6		Activity 3: Collect various types of GST bills & Compare the rates		
	7	4	Ledger	89-121	
Oct	8		Activity 4: Write down 10 transaction entries from passbook		
	9		Revision Lecture		
	10	5	Subsidiary Books	122-177	
	Sem End Exam I (Note : Syllabus of UT I is also included for SE I)				
Nov	11		Activity 5: Visit a Bank get a KYC form, fill it & Open your Saving Account.		
	12	6	Bank Reconciliation Statement	178-211	
	13		Revision Lecture		
Dec	14	7	Depreciation	212-247	
	15		Activity 6: Visit an Business organization and collect the information of the list of assets which are depreciated in that organization.		
	16	8	Rectification of Errors	248-270	
Jan	17		Revision Lecture		
	18	9	Final Accounts of a Proprietary Concern Activity 8: Visit a small business unit and collect information regarding incomes, expenses, assets, liabilities and prepare a Statement of Affairs and Statement of Profit or Loss.	271-332	
Unit Test II					
Feb	19	10	Single Entry System	333-362	
	20		Activity 7: Students should visit and interact with Sole Proprietor in your residential area, and collect information of various Expenses, Income, Profits, Losses, Purchases, Sales & Stock of goods, Asset & Liabilities. Prepare Trading A/c, Profit & Loss A/c and Balance sheet of his business with the help of collected information.		
	21		Revision Lecture		
March	Sem End Exam II (Note : Syllabus of UT II is also included for Final Exam)				

Month	Sr. No.	Ls. No.	Topic	Pg. No.	Date of Completion
Aug	1	1	Basic concepts in economics	1 - 7	
	2		Activity 1 : Write six names which belongs to noble prize winner in economics.		
	3		Activity 2 : Write distinguish between 'free goods' & 'economic good' ?		
	4		Activity 3 : Make a chart regarding commodities which satisfy the condition of physical transferability and national transferability.		
	5		Exercise solving.		
	6	2	Money	9 -12	
	7		Activity 4 : Write recent changes introduced by banks for safe use of plastic money.		
Unit Test I					
Sep	8		Exercise solving.		
	9	3	Partition value	14 - 22	
	10		Exercise solving		
	11	4	The economy of Maharashtra	24 - 29	
	12		Activity 5 : Write what will happen if the farmers sell their farm produce without the middlemen ?		
	13		Activity 6 : Write name of any five enterprises from each category producing the following goods in Maharashtra : Chemicals, food processing textiles, automobile, I.T and Pharmaceuticals		
	14		Activity 7 : Classify the service mentioned in the previous paragraph into services for business and services for final consumer.		
	15		Exercise solving.		
Oct	16		Revision Lecture		
	17	5	Rural development in India	31 - 34	
	18		Activity 8 : Write information about the latest achievements of NABARD .		
	19		Exercise solving.		
Sem End Exam I (Note : Syllabus of UT I is also included for SE I)					
Nov	20	6	Population in India	36- 42	
	21		Activity 9 : Write legal age of marriage for males and females in different countries		
	22		Exercise solving.		
	23		Revision Lecture		
Dec	24	7	Unemployment in India	43 - 49	
	25		Exercise solving.		
	26	8	Poverty in India	50 - 55	

Jan	27		Activity - 10 : Prepare a list of countries in the world having absolute poverty with latest World Bank Report.		
	28		Exercise Solving		
	29	9	Economic policy of India since 1991	56-63	
	30		Activity - 11 : Write names of five private banks and foreign bank		
	31		Exercise solving.		
Unit Test II					
Feb	32	10	Economic planning in India	64 - 68	
	33		Activity - 12 Write information of various levels of NFHS (National Family Health Survey) .		
	34		Exercise solving.		
	35		Revision Lecture		
March	Sem End Exam II (Note : Syllabus of UT II is also included for Final Exam)				

Month	Sr. No.	Ls. No.	Topic	Pg. No.	Date of Completion
Aug	1	1	Introduction of Commerce and Business	1-20	
	2		Activity 1 : Visit a small shop or a big shopping mall and find out the reasons for why profit is important to them. Write a report on it.		
	3		Activity 2 : Visit an estate broker and find out the duties performed by him for buyers and sellers of property. Write a report on it .		
Unit Test I					
Sep	4	2	Trade	21-45	
	5		Activity 3 : Visit one price shop near your locality. Make a report on it in 350 - 400 words.		
	6		Activity 4 : Find out importer and exporter in your locality. Write a report on it in 350 - 500 words.		
Oct	7	3	Small Scale Industry and Business	46-59	
	8		Activity 5 : Go to your local market, where agro based products are sold. Prepare a list of few products and ask questions and discuss with sellers on basis of following points. (a) From where have they brought product? (Homemade or not) (b) What are problems related with raw material and transportation? (c) Whether they are happy with present profit? (d) What are their expectation from Government and local market?		
	9		Activity 6 : Collect information and discuss in detail business surroundings of your own native place. Which industry is the best to start there according to the points studied in this topic. Make a detailed survey and write your opinion.		
	10		Revision Lecture		
Sem End Exam I (Note : Syllabus of UT I is also included for SE I)					
Nov	11	4	Forms of Business Organisation - I	60-94	
	12		Activity 7 : Visit a local shop near your house. (a) Find out a sole trading concern in your area. (b) Observe and study the characteristics / features of sole trading concern with reference to text book. Write a report on it		
	13		Activity 8 : Find out partnership firm in your area. Visit and discuss with partners about how their partnership firm works? Write a report it in 400 - 500 words.		
	14		Revision Lecture		

Dec	15	5	Forms of Business Organisation – II	95-116	
	16		Activity 9 : Visit RBI Headquarter at Mumbai. Name other four statutory corporations you know. Collect the information about Life Insurance Corporation.		
	17		Activity 10 : Find out information on government company like NTPC, MSRDC. Write a report of each government company under 200-300 words.		
	18	6	Institutes Supporting Business	117-137	
	19		Activity 11 : Visit near by manufacturing firm and collect information about products manufactured by them. Write a report on it in 400 - 500 words.		
	20		Activity 12 : Meet rural artisans and try to find out the problems faced by them, to start a business, we need capital. Prepare a list of sources from where you can raise capital for starting a business.		
Jan	21	7	Business Environment	138-152	
	22		Activity 13 : Find out raw material being available in abundance in your area. How many industries or business units set up is based on it ? Write a report on it in 400- 500 words.		
	23		Activity 14 : Visit to the post offices, banks and other offices in your area and make note of changes that have taken place due to the change in information technology.		
	24		Revision Lecture		
Unit Test II					
Feb	25	8	Introduction to Management	153-167	
	26		Activity 15 : Levels of Management Topic : Big Bazaar Make three groups of the students to play the role of levels of management. First group should be of top level managers, second should be of middle level and third should be of lower level staff. Let them express their views and ideas on their roles and functions. Write a report on it.		
	27		Activity 16 : Group Discussion Topic: Management as an Art or Science? Make two groups of the students and let one group to speak in favor of the topic and another in opposite of the topic, At the end of activity teacher will help the students to draw and write a report on conclusions.		
	28		Revision Lecture		
March	Sem End Exam II (Note : Syllabus of UT II is also included for Final Exam)				

Month	Sr. No.	Ls No.	Topic	Pg no.	Date of Completion
Aug	1	1	Secretary	1 - 15	
	2		Activity 1: Find out the following 1. Company Secretary of Mahindra & Mahindra Ltd. 2. Principal Secretary of Prime Minister of India 3. Chief Secretary, Maharashtra State 4. Secretary, School Education Department, Government of Maharashtra.		
	3		Activity 2: Atmaram Bendre is a Secretary of Gokulgha Housing Society. Enlist his duties.		
	4		Exercise Solving		
Unit Test I					
Sep	5	2	Joint Stock Company	16 - 32	
	6		Activity 3: Identify the type of following companies: 1) Bajaj Auto Limited 2) Coal India Limited 3) Microsoft India 4) Kirloskar Foundation		
	7		Exercise Solving		
	8		Note Book Checking		
	9	3	Formation of a Company	33 - 47	
	10		Activity 4: From the following CIN, identify the type of companies: 1) U74999TN2014OPC098340 2) L28920MH1945PLC004520 3) U72900KA2003PTC033028		
	11		Activity 5: Find out the promoter or promoters shareholding of Maruti Suzuki India Ltd. and Reliance Industries Ltd.		
	12		Exercise Solving		
Oct	13	4	Documents related to formation of a company	48 - 66	
	14		Activity 6: Read the Memorandum and Articles of Association of Tech Mahindra Limited From the website http://www.techmahindra.com/sites/ /Resources .		
	15		Exercise Solving		
	16		Note Book Checking		
	17	5	Members of a Company	67 -76	
	18		Activity 7: Find the composition of shareholding of a listed public company.		
	19		Exercise Solving		
	20		Note Book Checking		
Sem End Exam I (Note : Syllabus of UT I is also included for SE I)					
	21	6	Directors and Key managerial personnel of a company	77 - 101	
	22		Activity 8: Find out the KMP of the following: 1) Reliance Industries Limited 2) Cadbury India 3) Union Bank of India		

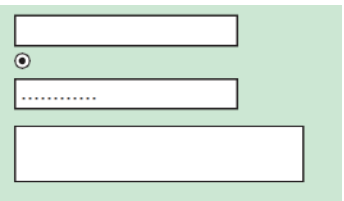
Nov	23		Activity 9: Visit the website of a listed public company and • Find out DIN of a director of the company. • Find out the composition of Board of Directors.		
	24		Exercise Solving		
	25		Note Book Checking		
	26		Revision Lecture		
Dec	27	7	Company Meetings – I	102 - 120	
	28		Activity 10: Prepare an agenda for a meeting to discuss holding of Annual Day		
	29		Exercise Solving		
	30		Note Book Checking		
	31	8	Company Meetings – II	121 - 133	
	32		Activity 11: Enlist the functions of Secretary related to Extra Ordinary General Meeting.		
	33		Exercise Solving		
Jan	34		Note Book Checking		
	35	9	Business Communication Skills of Secretary	134 - 148	
	36		Activity 12: How can a company use Twitter and Blogs to reach out to the outsiders		
	37		Exercise Solving		
	38		Note Book Checking		
	39	10	Correspondence with Directors	149 - 157	
	40		Activity 13: List of the directors of 1) Facebook 2) Tesla 3) IIFL 4) TATA Motors		
	41		Exercise Solving		
42		Note Book Checking			
43		Revision Lecture			
Unit Test II					
Feb	44	11	Correspondence with Banks	158 - 172	
	45		Activity 14 : Visit a bank and collect the Form of opening a bank account and find-out the details to be filled and the documents needed to open an account.		
	46		Exercise Solving		
	47		Note Book Checking		
	48	12	Correspondence with Statutory Authorities	173 - 185	
	49		Activity 15: State the features of SEBI		
March	50		Exercise Solving		
	51		Note Book Checking		
	52		Revision Lecture		
Sem End Exam II (Note : Syllabus of UT II is also included for Final Exam)					

Month	Sr. No.	Ls. No.	Topic	Pg. No.	Date of Completion
Aug	1	1	Sets and Relations Practical No. 1	1-19	
	2		Activity : 1 Write down the types of Relation.	12	
	3	1	Partition Values Practical No. 1	1-23	
Unit Test I					
Sep	4	2	Functions Practical No. 2	20-32	
	5		Activity : 2 Write down all Fundamental functions.	23	
	6	2	Measures of Dispersion Practical No. 2	24-36	
Oct	7	3	Complex numbers Practical No. 3	33-43	
	8	3	Skewness Practical No. 3	37-44	
	9		Activity 3 : Write down Bowley,s Coefficient of skewness and explain it in detail.	39	
Sem End Exam I (Note : Syllabus of UT I is also included for SE I)					
Nov	10	4	Bivariate Frequency Distribution and Chi Square Statistic Practical No. 4	45-55	
	11	4	Squence and Series Practical No. 4	44-65	
	12		Activity 4 : Explain formula of Chi-square Statistic and solve any 2 problems	51	
Dec	13	5	Correlation Practical No. 5	56-64	
	14	5	Locus and Straight line Practical No. 5	65-80	
	15	6	Permutations and Combina Practical No. 6	66-94	
	16		Activity 5 : Write Properties of the factorial Function.	74	
	17	6	Determinant Practical No. 6	81-96	
	18	7	Limits Practical No. 7	97-106	
	19		Activity 6 : Write down the conditions of Algebra Of limits	98	

Jan	20	7	Probability Practical No. 7	95-111	
	21	8	Continuity Practical No. 8	107-114	
	22	8	Linear Inequations Practical No. 8	112-122	
Unit Test II					
Feb	23	9	Differentiation Practical No. 9	115-125	
	24		Activity 6 : Write down all formulas of Derivatives of Algebraic Function. (Write 3 times)	118	
	25	9	Commercial Mathematics Practical No. 9	122-145	
March	Sem End Exam II (Note : Syllabus of UT II is also included for Final Exam)				

Month	Sr. No.	Ls. No.	Topic	Pg. No.	Date of Completion
Aug	1	1	Basics of Information Technology	01-09	
	2		Activity-1: Try to find out names of the modern input devices used in shops/malls.		
	3		Activity-2: List out the open source and closedsource software.		
	4		Activity-3: <ul style="list-style-type: none"> • Open the Ubuntu Software Center from the panel. • Search for GIMP (it is an image editing program) and install. • Run updates and uninstall software from the software center. • Log out, Log in, and Restart the computer. 		
	5		Activity-4: <ul style="list-style-type: none"> • Open Firefox browser from the command line. • Create a new file on the Desktop called hello.txt. • Change directory to Desktop using 'cd' command. • Open hello.txt in Nano text editor. • Write a message in hello.txt and save it. • Print the contents of hello.txt with 'cat' command. 		
Unit Test I					
Sept	6		Practical 1 : Create a Resume The resume should contain the following : <ul style="list-style-type: none"> • Title at the center with applicable font and size. • It should contain points such as Name, Address, Mobile Number, Date of Birth, Nationality, Caste, Category, Hobbies etc. Add some extra points. • For educational qualifications a student should insert a table. • At the end students should write a few lines about their aim. (IT Lab)		
	7		Practical 2: By using Mail Merge send an invitation for your birthday party. <ul style="list-style-type: none"> • Use mail merge feature. • Send invitation to at least 5 friends. (Homework) 		
	8		Practical 3 : Create a mark list. The mark list should display : <ul style="list-style-type: none"> • Fields as Name, Math, Physics, Chemistry, Biology, Total, Percentage. • Below each subject find out the lowest marks and highest marks. • Enter minimum 10 records. • Declare the first three ranker students. • Create a chart based on the above data. (IT Lab) 		
	9		Practical 4: Create an Informative presentation on your college. <ul style="list-style-type: none"> • Presentation should contain minimum 8 slides. • One slide should contain a chart. • One slide with an image. • Each slide should contain custom animation & slide transition effect. (Homework) 		

Oct	10	<p>Practical 5 : Use of Accounting Package to create a company. Create a company with the following particulars.</p> <p>Company Name : B.B Enterprises Case : Upper Case Company Type : Profit Making Financial Year : 01-04-2019 to 31-03-2020 Use GNUKxata for : Accounting Only</p> <p>Create profile with relevant data for any company. Create Admin account for the company. (IT Lab)</p>																						
	11	<p>Practical 6: Create ledger accounts using accounting Package. Create ledger accounts for the following and allocate proper groups.</p> <ol style="list-style-type: none"> 1. Import duty 2. Insurance 3. Machinery 4. Audit Fee 5. Purchase 6. Sales 7. Telephone charges 8. Interest Received 9. Salary 10. Professional fees (Homework) 																						
<p>Sem End Exam I (Note : Syllabus of UT I is also included for SE I)</p>																								
Nov	12	2	Introduction to DBMS	20-29																				
	13		Activity-1: Collect five examples of data and information																					
	14		Activity-2: You have scored 75.56% in the recent examination. Which data type would you prefer to use for storing this data?																					
	15		Activity-3: Explain the purpose of SQL																					
	16		<p>Practical 1 : Create a database, using postgres SQL named hospital.</p> <ul style="list-style-type: none"> • In this database, create a table of patients with the following fields Patient_ID, Patients_Name, Address, Room_number and Doctor's_name. • Give appropriate data type for each field. <table border="1" style="margin-left: 20px;"> <thead> <tr> <th>Patient_ID</th> <th>Patient_name</th> <th>Address</th> <th>Room_number</th> <th>Doctor's_name</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table> <p>(IT Lab)</p>	Patient_ID	Patient_name	Address	Room_number	Doctor's_name																
	Patient_ID	Patient_name	Address	Room_number	Doctor's_name																			
17		<p>Practical 2: Create a database using postgresQL named School-master.</p> <ul style="list-style-type: none"> • In this database create a table of students with the following fields student_ID, student_name, Address, Phone_number, Date_of_Birth. • Give appropriate data type for each field. Enter at least 5 records. <p>(IT Lab)</p>																						


	18		Practical 3: Given the list of fields : EmpId, EmpName, Emp Department, SalaryId, SalaryAmount, Bonus in the tables Employee and Salary respectively. Define primary key, foreign key and segregate for above fields into employee and salary table. Also create one-to-one relationship between Employee and Salary Table. (Homework)		
Dec	19	3	Impressive Web Designing	30-59	
	20		Activity-1: Create a simple web page using following features. Largest heading level 'Biodata' text in centre. Name in Bold. Address in Italics. Standard with underline.		
	21		Activity-2: <ul style="list-style-type: none"> To insert your photograph in a webpage the required tag is Can the ruled line be coloured in blue ? To display table without borders the syntax can be as Which attribute spans two or more columns of the table? 		
	22		Activity-3: Identify following form elements 		
	23		Activity-4: Define five correct and five incorrect variable names. List some scripting languages.		
	24		Activity-5: Find the result of.... 1. 20+'20' 2. 10+20+'2' 3. 10+'2'+2'		
	25		Activity-6 : Which of the following arithmetic expressions are valid in JavaScript. a) A=25/3%2 b) X=12.67*-5.0 c) 21%45-34+12=a+x d) (23/5)+4-7=c e) c+f=45*5/5%12		
	26		Activity-7: Determine the Boolean value of each of the following logical expressions if a=10, b=-5 and c=20 1. a<b && c>b 2. a==b c==d 3. c>-24 && a<50 4. a<b && b==c && a==b 5. c<0.0 a>-20 6. b<c && a==67 7. a<b a<c b<c		

	27	<p>Practical 1 : Write a program using HTML with following specifications.</p> <ul style="list-style-type: none"> • The background colour should be green. • The text colour should be red. • The heading should be large in size as 'My First Web Page'. • Display a horizontal line after the heading. • Display your name in Bold, address in Italics and standard as 11th . (IT Lab) 								
	28	<p>Practical 2 : Create a web page with, following specification.</p> <ul style="list-style-type: none"> • Image of any scientist with an alternate text as his name. • Create a paragraph related to information of that scientist. • Create a table of his/her inventions. (IT Lab) 								
	29	<p>Practical 3 : Create a webpage with following specification.</p> <ul style="list-style-type: none"> • Display heading 'Application Form' in highest heading with center alignment. • Accept name, standard 11th or 12 th with only one selection choice. • Submit the form. <p>(Homework)</p>								
	30	<p>Practical 4 : Write a program using HTML with the following specification.</p> <ul style="list-style-type: none"> • A webpage with details about a class with total number of students-100, (Boys50), Girls- 50 in tabular form. e.g. <table border="1" data-bbox="444 1016 1058 1113"> <thead> <tr> <th>Number of Students</th> <th>Boys</th> <th>Girls</th> </tr> </thead> <tbody> <tr> <td>100</td> <td>50</td> <td>50</td> </tr> </tbody> </table> <div data-bbox="535 1129 859 1392" style="border: 1px solid black; padding: 10px; margin: 10px auto; width: fit-content;"> <p>STD - XI</p> <p><i>Stream - Science</i></p> <p><u>Div - A</u></p> </div> <p style="text-align: center;">Demo.html</p> <ul style="list-style-type: none"> • Link this page to another page as follows. <p>(Homework)</p>	Number of Students	Boys	Girls	100	50	50		
Number of Students	Boys	Girls								
100	50	50								
Jan	31	<p>Practical 5 : Create JavaScript program for the following using appropriate variables, JavaScript inbuilt functions and control structures.</p> <ul style="list-style-type: none"> • To accept integer and display the result by multiplying it with 3. • To accept two integers and display larger number of them. • To check whether, user entered number is positive or negative. <p>(IT Lab)</p>								

	32	<p>Practical 6 : Create JavaScript program for the following using appropriate variables, JavaScript inbuilt functions and control structures.</p> <ul style="list-style-type: none"> To accept two positive or negative numbers and check whether they are equal or not. To accept number and display square of it. To check whether the accepted integer is multiple of 3 or multiple of 7. (IT Lab) 		
	33	<p>Practical 7 : Create JavaScript program for the following using appropriate variables, JavaScript inbuilt string functions and control structures.</p> <ul style="list-style-type: none"> To accept string and calculate its length. To accept string and display it into lowercase and uppercase. To check whether the length of string is 4 or greater. <p>(Homework)</p>		
	34	<p>Practical 8 : Create event driven JavaScript programs for the following using appropriate variables, JavaScript inbuilt functions and control structures.</p> <ul style="list-style-type: none"> To accept number and validate if the given value is a number or not by clicking on the button. <div style="border: 1px solid black; padding: 10px; width: fit-content; margin: 10px auto;"> <p>Enter Value:- <input style="width: 100px;" type="text"/></p> <p style="text-align: center;"><input type="button" value="Check"/></p> </div> <ul style="list-style-type: none"> To calculate addition and division of two numbers <div style="border: 1px solid black; padding: 10px; width: fit-content; margin: 10px auto;"> <p>1st Number : <input style="width: 100px;" type="text" value="12"/></p> <p>2nd Number : <input style="width: 100px;" type="text" value="10"/></p> <p style="text-align: center;"><input type="button" value="Addition"/> <input type="button" value="Divide"/></p> </div> <p style="text-align: right;">(Homework)</p>		

Unit Test II

Feb	35	4	Cyber Law	60-70	
	36		Activity-1: Search Cybercrime related Laws & punishment for it.		
	37		Activity-2: List out Cyber Crime which you find in your surroundings.		
	38		Activity-3: List out Security techniques to protect your computer data.		
	39		Activity-4: Find out new amendments in IT Act 2000.		
	40		Activity-5: Search some more cases of cybercrime investigated.		
	41		Activity-6: Find out at least Three more security procedures adopted by during electronic transactions by companies. Find out new amendments in IT Act 2008.		
	42		<p>Practical 1: Use of Toolbox and editing an image using GIMP.</p> <ul style="list-style-type: none"> Create an image by using Toolbox controls from GIMP. Insert the image in an already created image. (IT Lab) 		

43		<p>Practical 2 : Use GIMP for the following.</p> <ul style="list-style-type: none"> • Create a new image • Put your name using the text tool. • Use various filters to make a logo of your name. • Auto crop image to text size. (IT Lab) 		
44		<p>Practical 3 : Use Inkscape for the following.</p> <ul style="list-style-type: none"> • Draw a simple landscape using basic geometric shapes. • Use gradient tool for the same. (IT Lab) 		
45		<p>Practical 4 : Use Inkscape for the following.</p> <ul style="list-style-type: none"> • Load an Id size image, • Make 12 copies of it. • Arrange in 4 rows x 3 columns on an A4 size page. (Homework) 		
46		<p>Practical 5 : Use Inkscape for the following. You are starting a new business.</p> <ul style="list-style-type: none"> • Create an advertisement to be published in local newspaper promoting your product or services. • Size should be 210 x 210 mm. • Create your own visiting card using inkscape. (Homework) 		
47		<p>Practical 6: Using Inkscape make the following picture.</p> 		
March		<p>Sem End Exam II (Note : Syllabus of UT II is also included for Final Exam)</p>		

Month	Sr. No.	Ls. No.	Topic	Pg. No.	Date of Completion
Aug	1	1	Units and measurements	1-15	
	2	2	Mathematical methods	16-29	
	3	1	Practical 1: To determine volume of a solid sphere and a hollow cylinder by using vernier callipers.		
	4		Activity 1: Derive an expression for triangle law of vector addition. (Write 5 times)		
	5	6	Practical 2: To determine the refractive index of glass and water by using a travelling microscope.		
Unit Test I					
Sept	6	3	Motion in plane	30-46	
	7	4	Law of motion	47-77	
	8	2	Practical 3: To measure : 1. The diameter of a given wire and calculate its area of cross section. 2. Thickness of glass plate by using Screw Gauge.		
	9		Activity 2: Derive an expression for 1st, 2nd and 3rd law of motion.		
Oct	10	5	Gravitation	78-99	
	11	6	Mchanical property of solid	100-113	
	12	3	Practical 4: To determine the radius of curvature of a spherical surface using a spherometer.		
	13	5	Practical 5: To study the relationship between force of limiting and normal reaction and to find coefficient of friction between a block and a horizontal surface.		
	14		Activity 3: Derive an expression and explain Variation in the acceleration due to gravity with altitude depth,latitude and shape.		
Sem End Exam I					
(Note : Syllabus of UT I is also included for SE I)					
Nov	15	7	Thermal properties of matter	114-141	
	16	8	Sound	142-158	
	17	4	Practical 6: To verify parallelogram law and find the weight of a given body.		
	18	11	Practical 7: To study the characteristics of a thermistor.		
	19		Activity 4: Derive an expression for Newton's formula for velocity of sound.		
Dec	20	10	Electrostatics	188-206	
	21	7	Practical 8: To determine focal length of a lens by displacement method.		
	22	8	Practical 9: To determine the refractive index of a liquid by using a concave mirror.		
	23	9	Practical 10: To determine angle of minimum deviation for a given prism by plotting a graph between angle of incidence and the angle of deviation.		

	24		Activity 5: Explain defects of lenses with labelled chromatic aberration diagram.		
Jan	25	11	Electric current through the conductors	207-220	
	26	12	Magnetism	221-228	
	27		Activity 6: Make a chart and show the resistivity of various materials.		
Unit Test II					
Feb	28	13	Electromagnetic waves and communication system	229-241	
	29	9	Optics	159-187	
	30	10	Practical 11: Determination of magnetic moment of short bar magnet. (dipole) using a deflection magnetometer		
	31		Activity 7: Derive an expression for magnetic field due to a bar magnet at a point along its axis and at a point along its equator.		
	32	14	Semiconductor	242-256	
March	33	12	Practical 12: To draw the I-V characteristics curves of a P-N junction diode in forward and reverse bias.		
	Sem End Exam II				
: Syllabus of UT I, SE I & UT II are also included for Final Exam)					

Month	Sr. No.	Ls. No.	Topic	Pg. No.	Date of completion
August	1	1	Some Basic Concepts of Chemistry	1-12	
	2		Practical 1: Quantitative Analysis - To determine concentration in terms of molarity of NaOH by titrating it against standard solution of oxalic acid (0.05 M).		
	3	4	Structure of Atom	35 - 54	
	4		Practical 2: Quantitative Analysis- To determine concentration in terms of molarity of HCl by titrating it against (0.05 M) standard solution of sodium carbonate.		
	5		Activity1: a) Draw the structural formula of propanone and propanal. b) Find out their molecular formulae. c) What is the difference between them? d) What is the relation between the two compounds represented by these structural formulae?	219	
Unit Test I					
Sept	6	7	Modern Periodic Table	93 - 109	
	7		Practical 3: Detection of one basic radical and one acidic radical qualitatively from given inorganic salt - I		
	8	5	Chemical Bonding	55 - 80	
	9		Practical 4: Detection of one basic radical and one acidic radical qualitatively from given inorganic salt - II		
	10	10	States of Matter	135 - 159	
	11		Practical 5: Detection of one basic radical and one acidic radical qualitatively from given inorganic salt - III		
	12		Activity 2: Why He ₂ molecule is not stable? Draw molecular orbital diagram for it.	74	
Oct	13	12	Chemical Equilibrium	174 - 189	
	14		Practical 6: Detection of one basic radical and one acidic radical qualitatively from given inorganic salt - IV		
	15		Activity 3: Balance the reaction by oxidation number method $\text{Cr}_2\text{O}_7^{2-}(\text{aq}) + \text{SO}_3^{2-}(\text{aq}) \rightarrow \text{Cr}^{3+}(\text{aq}) + \text{SO}_4^{2-}(\text{aq})$ (acidic)	92	
	16	6	Redox Reactions	81 - 92	
	17		Practical 7: To prepare colloidal solution of starch.		
	18		Practical 8: To prepare colloidal solution of ferric hydroxide		
Sem End Exam I (Note : Syllabus of UT I is also included for SE I)					
Nov	20	8	Elements of Group 1 and 2	110 - 122	
	21		Activity 4: Draw shapes of 2s and 2p orbitals. Explain nodal plane in them	54	
	22		Practical 9: Study the shift in equilibrium position between ferric ions and thiocyanate ions by increasing the concentration of either of the ions.		
	24	9	Elements of Group 13, 14 and 15	123 - 134	

Dec	25		Practical 10: Study of the pH change in the titration of strong base (0.1 M NaOH) and strong acid (0.1 M HCl) using universal indicator.		
	26		Activity 5: A water sample, which did not form lather with soap, was found to contain $\text{Ca}(\text{HCO}_3)_2$ and $\text{Mg}(\text{HCO}_3)_2$. Which chemical will make this water give lather with soap? Explain with the help of chemical reactions.	122	
	27	14	Basic Principles of Organic Chemistry	204 - 232	
	28		Practical 11: Determination of melting point of given organic solid.		
	29		Practical 12: Determination of boiling point of given organic liquid.		
	30	15	Hydrocarbons	233 - 260	
	31		Practical 13: Crystallization of an impure sample of copper sulphate.		
Jan	32	16	Chemistry in Everday Life	261 - 270	
	33		Practical 14: Preparation of 100 mL of 0.1 M standard oxalic acid solution.		
	34	2	Introduction to Analytical Chemistry	13 - 26	
	35		Activity 6: Derive relation between molar mass and ideal gas equation.	148	
	36		Practical 15: Determination of pH of different fruit juices by using pH paper or universal indicator.		
Unit Test II					
Feb	38	11	Adsorption and Colloids	160 - 173	
	39		Activity 7: Calculate surface area to volume ratio of spherical particle. See how the ratio increases with the reduction of radius of the particle. Plot the ratio against the radius.	172	
	40		Practical 15: Calibration of pipette by burette.		
	41	13	Nuclear Chemistry and Radioactivity	190 - 203	
	42		Practical 16: To obtain pure water from impure water containing ink by simple distillation method.		
	43	3	Basic Analytical Techniques	27 - 34	
	44		Practical 17: To determine pH of HCl solution of various concentrations by using pH paper or universal indicator.		
March	Sem End Exam II (Note : Syllabus of UT I, SE I & UT II are also included for Final Exam)				

Month	Sr. No.	Ls. No.	Topic	Pg. No.	Date of Completion
Aug	1	1	Angle and Its Measurement No. 1	1-13	
	2		Activity 1:- Identify the types of angles and measure.	1	
	3	6	Sets and relations No. 5	87-105	
Unit Test I					
Sep	4	2	Trigonometric- I Practical No. 2	14-34	
	5		Activity 2:- Find the trigonometric function of angles $150^\circ, 210^\circ, 330^\circ, -45^\circ, -120^\circ$	19	
	6	1	Complex Numbers Practical No. 1	1-22	
Oct	7	3	Trigonometric- II Practical No. 3	35-58	
	8		Activity 3:- Define Formulae for conversion of sum or difference into product	48	
	9	3	Permutations and Combinations Practical No. 3	43-68	
Sem End Exam I					
(Note : Syllabus of UT I is also included for SE I)					
Nov	10	4	Determinants and Matrices Practical No. 4	59-102	
	11		Activity 4:- Define application of determinants : Cramer's rule	68	
	12	4	Method of Induction and Binomial theorem Practical No. 4	69-86	
Dec	13	5	Straight Line Practical No. 5	103-126	
	14	5	Circle Practical No. 6	127-139	
	15	2	Sequences and Series Practical No. 2	23-42	
	16	6	Functions Practical No. 6	106-132	
	17		Activity 5:- Learn about Type of functions , form of functions, Domain of functions, Range of functions	129	

Jan	18	7	Conic Section Practical No. 7	140-178	
	19	7	Measures of dispersion Practical No. 8	179-192	
	20	8	Limits Practical No. 7	133-159	
	21		Activity 6:- The intermediate value theorem for continuous functions	172	
	22	8	Continuity Practical No. 8	160-178	
Unit Test II					
Feb	23	9	Probability No. 9	Practical 193-216	
	24	9	Differentiation Practical No. 9	179-195	
March	Sem End Exam II				(Note :
	Syllabus of UT I, SE I & UT II are also included for Final Exam)				

Month	Sr. No.	Ls. No.	Topic	Pg. No.	Date of Completion
August	1	1	Living World	1 to 5	
	2		Practical 1: Study the part of Microscopes.		
	3		Practical 2: To observe mitochondria in onion peel cells.		
	4	9	Morphology of Flowering Plants	97 - 115	
	5		Activity 1: Identify the following figures and write down the types of leaves arrangements	114	
	6		Practical 3: Biochemical tests for starch, sugar and fat		
	7		Practical 4: Preparation of stained temporary mount of onion root.		
Unit Test I					
Sept	8	10	Animal Tissue	116 - 126	
	9		Practical 5: To prepare temporary stained slides of dicot and monocot specimens.		
	10	5	Cell structure and Organization	44 - 58	
	11		Activity 2: Draw and label different types of simple epithelial tissue and write their functions.	118	
	12		Practical 6: Study of plant family		
	13		Practical 7: To prepare temporary stained slide of squamous epithelium		
Oct	14	3	Kingdom Planate	19 - 28	
	15		Activity 3: Draw and label the leaves of Hibiscus, Peepal, Canna, grass and Tulsi. Classify them as monocot and dicot.	24	
	16		Practical 8: To study the effect of light on the rate of photosynthesis		
	17		Practical 9: To study human dentition.		
Sem End Exam I					
(Note : Syllabus of UT I is also included for SE I)					
Nov	18	12	Photosynthesis	138 - 150	
	19		Activity 4: Why Balanoglossus is considered as connecting link between Non chordates and Chordates? Draw and label its diagram	36	
	20		Practical 10: To study the effect of enzymes on starch, egg albumin and fats.		
	21	4	Kingdom Animalia	29 - 43	
	22		Practical 11: To test urine sample for normal and abnormal constituents.		
Dec	23	15	Excretion and Osmoregulations	174 - 192	
	24		Practical 12: Study of specimen and identification with reasons - I		
	25		Activity 5: Draw and label the diagram of mitochondria and write down the detail concept about it.	57	
	26		Practical 13: Study of specimen and identification with reasons - II		
	27	16	Skeleton and Movement	193 - 214	

	28		Practical 14: Study of permanent slides - Dicot root and monocot root		
	29	14	Human Nutrition	161 - 173	
	30		Practical 15: Study of modifications of root, stem and leaf		
Jan	31	7	Cell Division	76 - 84	
	32		Activity 6: Write down the explanation of prophase I in your words.	80	
	33		Practical 16: Study and Identification of inflorescence		
	34	2	Systematics of living world	6 to 18	
	35		Practical 17: Study of animal tissues		
Unit Test II					
Feb	36	11	Study of Animal Type: Cockroach	127 - 137	
	37		Activity 7: Draw and label the diagram of nephron and explain the process of urine formation.	182	
	38		Practical 18: To study the rate of respiration in flowering buds / leaf tissues/ germinating seeds		
	39		Practical 19: To study anaerobic respiration		
	40	6	Biomolecules	59 - 75	
	41		Practical 20: To study external features and digestive system of cockroach with the help of ICT, photographs, models and charts		
	42		Practical 21: To study mouth parts, gizzard and trachea of cockroach with the help of ICT, photographs, models and charts.		
	43		Practical 22: Study of histology of digestive organs of mammals		
	44		Practical 23: Study of Human Skeleton		
March	Sem End Exam II (Note : Syllabus of UT I, SE I & UT II are also included for Final Exam)				

Month	Sr. No.	Ls. No.	Topic	Pg. No.	Date of Completion
Aug	1	1	Number System and Binary Arithmetic - Paper I	1-18	
	2	2	Program Analysis - Paper I	19-36	
	3	1	Practical 1: Write a program to create simple VB application		
	4	2	Practical 2: Study of universal building blocks.		
	5	3	Practical 3: To study C++ program using operators		
	6	1	Activity 1: Write algorithm for linear searching of elements.		
Unit Test I					
Sept	7	6	Study of Components and Circuits - Paper II	199-218	
	8	4	Practical 4: To study C++ program using control structure		
	9	5	Practical 5: Study of half adder		
	10	2	Activity 2: Draw and explain the diagram for single stage amplifier.		
Oct	11	7	Logic Gates and Sequential Circuits - Paper II	219-235	
	12	6	Practical 6: Write a C++ program to calculate average and percentage		
	13	7	Practical 7: Study of full adder		
	14	3	Activity 3: Draw symbols and give truth table for AND, OR, NOT, NAND gate.		
Sem End Exam I (Note : Syllabus of UT I is also included for SE I)					
Nov	16	3	Introduction to C++ - Paper I	37-154	
	17	8	Practical 8: Write a C++ program to study the uses of functions.		
	18	4	Activity 4: List data types in C++.		
Dec	20	4	Visual Basic - Paper I	155-189	
	21	9	Practical 9: Write a C++ program to study the uses of arrays		
	22	5	Activity 5: Draw and label the tool bars and the tool box.		
Jan	23	8	Functional Hardware Parts of PC- Paper II	236-249	
	24	10	Practical 10: Study of 2X4 decoder.		
	25	6	Activity 6: Draw and label the layout of AT mother board.		
Unit Test II					
Feb	27	8	Introduction to Networking and Internet - Paper I	190-195	
	28	11	Practical 11: To study 4X4 diode matrix ROM		
	29	7	Activity 7: Write the advantages of collaborative computing.		
	30	9	Peripheral Devices - Paper II	250-266	
March	Sem End Exam II (Note : Syllabus of UT II is also included for Final Exam)				

Month	Sr. No.	Ls. No.	Topic	Pg. No.	Date of Completion
Aug	1	1	Sources of electrical power and network - Paper I	1-37	
	2	1	Semiconductor - Paper II	117	
	3	1	Practical 1: Study of Thevenin's Theorem (Paper I)	1-4	
	4	2	Practical 2: Maximum Power Transfer Theorem (Paper II)	5-7	
	5	1	Practical 3: Study of resistive characteristic of p-type / n-type Semiconductors (Paper II)	66	
	6	2	Practical 4: Forward and Reverse Characteristics of P-N Junction Diodes. (Paper II)	69	
	7		Activity1: Derive kirchhoff's law (both KCL & KVL)		
Unit Test I					
Sept	8	2	AC Fundamental and circuits (Paper I)	38	
	9	2	Study of Transistors (Paper II)	130	
	10	3	Practical 5: Study of Sinosoidal and Non- sinosoidal waveforms on CRO (Paper I)	8	
	11	4	Practical 6: Construction of multirange voltmeter (Paper I)	14	
	12	3	Practical 7: Testing of Diodes and Transistors (Paper II)	73	
	13	4	Practical 8: Study of i/p and o/p characteristics of transistors in CE Configuration (Paper II)	77	
	14		Activity2: Write the function of bipolar (BJT) & field- effect transistor (FET)		
Oct	15	3	Instruments (Paper I)	62	
	16	3	Study of semiconductors component (Paper II)	154	
	17	5	Practical 9: construction of Ammeters (Paper I)	18	
	18	6	Practical 10: Study of Multimeter (Paper I)	22	
	19	5	Practical 11: Study of FET Characteristics (Paper II)	81	
	20	6	Practical 12: Study of UJT Characteristics (Paper II)	84	
	21	7	Practical 13: Transistors As a switch (Paper II)	87	
	22		Activity 3: Make a list of active , passive and semiconductors component.		
Sem End Exam I					
(Note : Syllabus of UT I is also included for SE I)					
Nov	23	4	Study of Component (Paper I)	79	
	24	4	Amplifiers (Paper II)	168	
	25	7	Practical 13: Loading Effect of Voltmeter (Paper I)	29	
	26	8	Practical 14: Study of Resistors (Paper I)	32	
	27	8	Practical 15: Study of photodiode and Phototransistor (Demonstration) (Paper II)	91	
	28	9	Practical 16: Study of amplifier using Simple Amplifier (Paper II)	94	
	29		Activity 4: Write all types of Biasing circuit.		

Dec	30	9	Oscillators (Paper I)	197	
	31	9	Practical 15: Study of Capacitors (Paper I)	38	
	32	10	Practical 16 : Study of Relay (Paper I)	43	
	33	10	Practical 17: Frequency Response of AF Amplifier (Paper II)	97	
	34	11	Practical 18: Measurement of input and output Resistance of CE Amplifier (Paper II)	101	
	35		Activity 5: Write uses of oscillators (RC & LC)		
Jan	36	11	Practical 19: Study of Switch (Paper I)	47	
	37	12	Practical 20: Study of Inductors (Paper I)	50	
	38	12	Practical 21: Study of Half -wave Rectifier and Full-wave Ractifier using Center- Tapped Transformer (Paper II)	104	
	39	13	Practical 22: Study of Bridge rectifier	109	
	40		Activity 6: Write a note on wien bridge oscillator		
Unit Test II					
Feb	41	13	Practical 23 : Construction of bridge Rectifier with filter (Paper I)	53	
	42	14	Practical 24: cinstruction of Multivibrator circuit on PCB (Paper I)	56	
	43	14	Practical 25 : Study of Sinusoidal Oscillator (paper II)	112	
	44	15	Practical 26: Burglar Alarm using SCR, Piezo Buzzer and LDR (Paper II)	115	
	45		Activity 7: Draw circuit diagram of common base & common Emitter.		
	46	15	Practical 27: Construction of CE Amplifier on Breadboard (Paper I)	60	
	47	16	Practical 28: Study of Transformer (Paper I)	63	
	48	16	Practical 29: Negative and Positive Feedback (Demonstration) (Paper II)	118	
	49	17	Practical 30: Study of Equaliser Circuit in an Amplifier (Demonstration) (Paper II)	121	
March	Sem End Exam II				(Note :
	Syllabus of UT II is also included for Final Exam)				

Month	Sr. No.	Ls. No.	Topic	Pg. No.	Date of completion
August	1	1	Environment and Sustainable Development	1 - 13	
	2		Project 1: Write a report on Prakash Amte who has worked in Maharashtra for environment conservation and document the work done by them.		
Sept	3	2	Ecosystem	14- 27	
	4		Project 2: Observe indirect uses of ecosystem and explain it in detail.		
Oct	6	3	Biodiversity	28-45	
	7		Project 3: Write about Biosphere reserve in detail.	34	
Nov	8	4	Natural Resources	46-61	
	9		Project 4: What are the environmental impacts of mining activity? Suggest the conservation practices for mineral resources.	50	
Dec	10	5	Disaster	62-80	
	11		Project 5: Write about floods, types of floods. Write a report on flood which occur in Mumbai on 26th July 2005.		
Jan	12		Project 6: Study the role of 'Green peace India' national organisation and write about the work done by the organization.		
Feb	13		Project Submission		
Mar	Sem End Exam II				

Grade: 11

Subject: Health and Physical Education- Govt Book

Month	Sr. No.	Ls. No.	Topic	Pg. No.	Date of completion
August	1	1	Development of Physical Fitness	1-8	
	2		Project 1: Write a report on Circuit Training.		
Sept	3	2	Obesity	9-14	
	4		Project 2: Find and compare different methods to measure fat.		
	5	9	Various Games	51 - 53	
Oct	6	3	Nature and diet	15-21	
	7		Project 3: Write any four components of food that help replenish the athletes body.		
	8	10	Various Sports Competitions	54 - 57	
Sem End Exam I					
Nov	9	4	Yoga and Mudra	22-30	
	10		Project 4: Write information about one standing and one sitting asana mentioned in your text book.		
Dec	11	5	Doping (Stimulants)	31-34	
	12		Project 5: Write a report on Professional footballer Don Rodgers who died due to doping.		
Jan	13	6	Injury Management	35-40	
	14		Project 6: Prepare flow chart of any five causes of injuries.		
	15	7	Modern Technology-Activism	41-45	
Feb	16		Project 7: Write report on Mobile fitness applications		
	17	8	Career opportunities in Sports	46 -50	
	18		Project Submission		
Mar	Sem End Exam II				

Month	Sr. No.	Ls. No.	Topic	Pg. No.	Date of Completion
Aug	1	1	Introduction to Sociology	1 - 11	
	2		Activity 1 - Write a report on "The Effect of industrial development on Indian society" in 150 - 200 words		
	3		Activity 2- Divide the class into groups of 5-7 students. Each group will discuss one statement listed: (i) Sociology is practical and related to life. (ii) Careers in Sociology. Write a report on it in 100 - 120 words.		
Unit Test I					
Sep	4	2	Contribution of Western and Indian Sociologists	12 -21	
	5		Activity3- Discuss how "polarization of classes" and "class solidarity" are relevant in the present times. Write a report on it in 100 - 120 words.		
	6		Activity4- Read five newspaper articles related to caste issues (e.g. representation, atrocities, and reservation) and share the findings with your class. Write a report on it in 100 - 120 words.		
Oct	7	3	Basic Concepts in Sociology	22 -34	
	8		Activity 5- Visit a rural, tribal or urban community and speak to 3-5 People and find out about their work, families, customs, beliefs etc. Write a report minimum 100- 120 words or make a short film on your mobile phone.		
	9		Activity 6- List out various folkways and mores that we find our day-to-day lives. Write a report on it in 100 - 120 words.		
Sem End Exam I (Note : Syllabus of UT I is also included for SE I)					
Nov	10	4	Social Institutions	35 - 50	
	11		Activity 7 - Discuss why hypogamous marriages are resisted in society. Take helps of newspaper, magazines and cinema. Write a report on it in 100 - 120 words.		
	12		Activity 8 - Watch the classic movie 'MODERN TIMES' made by Charlie Chaplin and have a discussion on the effects of mechanisation on human labour. Write a report on it in 100 - 120 words.		
Dec	13	5	Culture	51 - 61	
	14		Activity 9- Culture varies from society to society or a group will have different culture. These cultures are sometimes overlapping and sometimes exclusive. Write a report on it in 100 - 120 words.		
	15		Activity 10 - Look at your surrounding and list out the examples of cultural hybridisation in the areas of food , toys religious practices, festivals, celebrations. Write a report on it in 100 - 120 words.		
	16	6	Socialization	62 -71	

Jan	17		Activity 11- Conduct a group discussion on the threatening challenge of online games like 'Blue Whale'. Try to find answers to issues like why do children even consider participating in such games? Are parents to be blamed? What is the role of law? Write a report on it in 150 - 200 words.		
	18		Activity 12 - Watch Advertisements or messages on T.V. and see how effective mass media is in creating awareness against corruption, drug addiction, smoking or any other relevant social issue. Write a report on it in 100 - 120 words.		
Unit Test II					
Feb	19	7	Social Stratification	72 - 81	
	20		Activity 13- Watch the Marathi movie, 'Fandry' and write a film review describing the social cultural and economic obstacles created by caste barriers. Write a report on it in 100 - 120 words.		
	21		Activity 14- Find out examples of intergenerational and intragenerational mobility from your surroundings and present it in your classroom. Write a report on it in 100 - 120 words.		
March	22	7	Social Change	82 - 92	
	23		Activity 15- Do a Google search for 'Punk Hairstyle'. Write a report on it in 150 - 200 words.		
	24		Activity 16- Try to understand the meaning of globalisation and observe changes brought about by globalisations in the world around you. Write a report on it in 150 - 200 words.		
	25		Passages	93 - 96	
	26		Revision		
	Sem End Exam II (Note : Syllabus of UT II is also included for Final Exam)				

Month	Sr. No.	Ls. No.	Topic	Pg. No.	Name of the Book	Date of completion
June	1	1.1	An Astrologer's Day.	1-12	English Yuvakbharati	
	2		Activity 1 : Prepare a speech on Science and Superstitions.			
	3	2.1	Song of the Open Road.	93-98	English Yuvakbharati	
	4		Activity 2 : Write four to six lines of Free Verse on th topic 'The road that leads to my college.'			
	5		Writing Skills 1 : Summary Writing : Communication is a part of our everyday life .We greet one another,smile or frown,depending on our moods.Animals,too,communicate,much to our surprise. Just like us,interaction among animals can be both verbal and non-verbal.Singing is one way in which animals can interact with one another. Male blackbirds often use their melodious songs to catch the attention of the females .These songs are usually rich in notes variation,encoding various kinds of messages. Songs are also used to warb and keep off other blackbirds from their teritory,usually a place where they dwell and reproduce. Large mammals in the ocean sing too, according to adventurous sailors.Enormous whales groan and grunt while smaller dolphine and porpoises produce pings,whistles and clicks.These sounds are surprisingly received by other mates as far as several hundered kilometers away. Summarise the above paragraph in 100-150 words. (Classwork)			
	6		Writing Skills 1 : Summary Writing : Exercise in nature is very beneficial for both physical and mental health in addition to general benefits of exercise, such as improving cardiovascular health and increasing muscle strength,outdoor activities also provide an opportunity to experience the beauty and tranquility of nature.It can increase feelings of well being and reduce stress and anxiety. It is important to embrace the benefits of outdoor exercise and incorporate it into your regular routine. (Homework)			
	7		Writing Skills 2 : Blog Writing : "Social Media is spoiling the spirit of Education". Prepare a blog in about 150 words. Focus on the adverse/negative effects/influence of social Media apps on the students. (Classwork)			
	8		Writing Skills 2 : Blog Writing : Neccesity of Social Awarness Regarding Cleanliness and Hygiene. Prepare a blog in about 100-150 words. (Homework)			
	9		Writing Skills 2 : Blog Writing : Man is free by Birth . Prepare a blog in about 100 -150 words. (Homework)			
	10		Writing Skills 3 : Drafting A Virtual Message : Imagine yourself as Ramesh.You are required to go to Pune to participate in national level Chess Competition and hence you wont be able to attend the class test. Draft a virtual message for your friend Sanket in about 50 to 75 words asking him to convey the reason of your absence to your subject teacher. (Classwork)			
	11		Writing Skills 3 : Drafting A Virtual Message : Mr.Deshmukh: Hello ! Iam here to submit the available sales report to the General manager . Gopal: I am sorry but the general manager was in a meeting .Can you leave a message for him along with the reports? Mr.Deshmukh : Sorry, I have to leave immediately to collect other reports .Please inform the general manager that i have to leave immediately and i will see him the evening at 5.30pm with other reports .Thank You . As a receptionist draft a virtual message for the general manager. (Homework)			
	12		Writing Skills 3 : Drafting A Virtual Message : Imagine you have to leave early from home for an interview. Draft a message to convey the same to your friend .Give your own reason to support your message. (Homework)			
	13		Writing Skills 4 : Expand the Idea : Experience is the best teacher . Expand the following idea with the help			
	14		Writing Skills 4 : Expand the Idea : Knowledge is power. Expand the following idea. (Homework)			
	15		Writing Skills 4 : Expand the Idea : One should eat to live, not live to eat - Franklin. Expand the following idea. (Homework)			
	16		Grammar: Phrases			
	17		Grammar: Transformation of Sentences			
	18	4.1	History of Novel.	173-177	English Yuvakbharati	
	19		Grammar: Synthesis of Sentences			
	20		Grammar: Prepositions			
	21		Grammer: Parts of speech			
	22		Grammar: Articles			
	23	1.2	On Saying "Please"	13-26	English Yuvakbharati	
	24		Activity 3 : Write a speech on 'Courtesy is the light of life'.			
	25	2.2	Indian Weavers.	99-102	English Yuvakbharati	

July	26	Activity 4 : Describe in your own words the steps or measures that can be taken to solve the problems of the weavers.			
	27	3.2 Writing Skills 5 : Do Schools Really Kill Creativity? (Mind-Mapping)	141-146	English Yuvakbharati	
	28	Writing Skills 6 : Statement of Purpose : You are so much interested in fashion designing .You have also participated in the various competiton and have shown your talent.Your friend is assisting you to make the career in fashion designing. Draft a statem of purpose that will help you get the admission for the course in fashion designing at M. Rajeshwar College, Hubli Karnataka. (Classwork)			
	29	Writing Skills 6 : Statement of Purpose : Imagine your college is organising a speech competition on the topic " Disappearing Birds" Prepare words speech in 100 words with the following points (1) Role of birds (2) Causes behind their disappearance (3) Ways tocall them back (4) Add your ideas. (Homework)			
	30	Writing Skills 6 : Statement of Purpose : Your College has organised an elocution competition .One of the topics therein is "Importance of Health" .Prepare a speech in 100 words with the help of following points . (1) Importance of exercise (2) Importance of Yoga (3) Importance of Diet. (Class Work)			
	31	Writing skills 7 : Drafting an Email : Imagine that you are a shopkeeper of article gifts. A customer had give order to purchase articles but you have some difficulties with giving order in time due to shortage .Write an email to him or her apologising for the delay. (Classwork)			
	32	Writing skills 7 : Drafting an Email : You are looking forward to start a Computer Institute in your area.You initially need 20 Pcs . Prepare/Draft an Email to the city dealer of DELL Computera demanding a moderate quotation for the same. (In about 100-150 words) (Homework)			
	33	Writing skills 7 : Drafting an Email : Write an E-mail to your friend who has not contacted you for a long time in about 200-250 words. (Homework)			
	34	Writing Skills 8 : Report Writing : Seven people killed in an accident . Write a brief report in about 100 to 120 words. (Classwork)			
	35	Writing Skills 8 : Report Writing : Childrens Day celebrated. Write a brief report in about 120-150 words. (Homework)			
	36	Writing Skills 8 : Report Writing : You are a representative of N.S.S unit of your college .Write a brief report of your camp in which various social activities including cleanliness have been conducted by all the participant. (Homework)			
August	37	4.2 To Sir, with Love.	178-188	English Yuvakbharati	
	38	Grammar: Active and Passive Voice			
	39	Grammar: Speech			
	40	1.3 The Cop and the Anthem.	27-34	English Yuvakbharati	
	41	Activity 5 : Write two paragraphs on 'Forgiveness is often better than punishment.			
	42	2.3 The Inchcape Rock.	103-110	English Yuvakbharati	
	43	Writing Skills 9 : Note-Making : Write a short paragraph about the sources of irrigation in about 120 words about the sources of irrigation in about 120 words (1) 60% Well and tube Irrigation (2) 6% Tank irrigation (3) Lift Irrigation (4) 30% Canal Irrigation. (Classwork)			
	44	Writing Skills 9 : Note-Making : Write a short paragraph in about 120 words on Barriers of effective communication (1) Language (2) Noise (3) Discomfort with the topic (4) Lack of interest (5) Distraction (6) time (7) distance . (Homework)			
	45	Writing Skills 10 : Speech Writing : Your College has organised an elocution competition .One of the topics therein is "Importance of Health" Prepare a speech in 100 words with the help of following points . (1) Importance of exercise (2) Importance of Yoga (3) Importance of Diet. (Classwork)			
	46	Writing Skills 10 : Speech Writing : Imagine your college is organising a speech competition on the topic " Disappearing Birds" Prepare words speech in 100 words with the following points (1) Role of birds (2) Causes behind their disappearance (3) Ways to call them back (4) Add your ideas. (Homework)			
	47	Writing Skills 10 : Speech Writing : You are an active member of an NGO working for water conservation. Prepare a speech for the school children/students where you invited on the eve of 'World Environment Day' to guide them about water harvesting.Your speech should not exceed 150 words. (Home Work)			
48	Writing skills 11 : Letter Writing : Write a letter to the commissioner of police darwing his/her attention towards the increasing theft/crime in your locality. (Classwork)				
49	Writing skills 11 : Letter Writing : Write a letter to the editor of the newspaper,drawing his attention towards the irregularity of garbage disposal in your area. (Homework)				

	50		Writing skills 11 : Letter Writing : Write a letter to the manager of your local bus depot pointing out that there are very few buses on your route in the morning and these are invariably late, thereby causing inconvenience to many junior college students and other passengers. (Homework)		
	51		Writing Skills 12 : Drafting a review : Draft a review that you have recently watched.Prepare your review with the help of these given points (1) Name of the movie/year of release (2) Producer/Director (3) Cast (4) Technical aspects: Music/Photography (5) Theme/Storyline in Brief (6) Your Opinion. (Classwork)		
	52		Writing Skills 12 : Drafting a review : Write a review of a film which you like the most with the help of the following points (1) Story/Theme (2) Producer/Director (3) Special Feature of Direction (4) characters: Conflict (5) Music/Dance/Photography etc (6) Your Opinion. (Homework)		
Unit Test I					
September	53	4.3	Around the World in Eighty Days.	189-203	English Yuvakbharati
	54		Grammar: Vocabulary (formation, prefix, suffix, homographs etc.)		
	55		Grammar : Tenses		
	56		Grammar:Punctuation		
	57	1.4	Big Data-Big Insights.	35-42	English Yuvakbharati
	58	2.4	Have you Earned your Tomorrow.	111-114	English Yuvakbharati
	59		Writing Skills 13 : Draft Interview Questions : One of your ex students from your college has recently been selected for the prestigious NDA(National Defence Academy).He is specially invited to motivate the aspiring students of your jr.college.Imagine yourself as an interviewer and prepare a set of 8 questions enabling your guest to share his or her experience and opinions .You may also take help of these points (1) NAME OF THE INTERVIEWEE (2) AREA OF SUCCESS AND REPUTATION (3)DATE/VENUE/TIME (4)DURATION OF INTERVIEW (5) HIS DECISION (6) HIS IDOLS /INSPIRATIONS (7) SUPPORT (8) TRAINING (9) DIFFICULTIES (10) CHALLENGES/MOTIVATING EXPERIENCES (11) GOALS/EXPECTATIONS(12) MESSAGE. (Classwork)		
	60		Writing Skills 13 : Draft Interview Questions : A well known social worker has been awarded 'National social award' for his/her contribution to social work.Prepare a set of 8 questions to interview him/her focussing on hi/her contribution and activities he/she carried out. (Homework)		
	61		Writing Skills 13 : Draft Interview Questions : Imagine that you are a journalist and you have been assigned the task of interviewing a film actor/actress.Frame a set of 8 to 10 questions to interview him/her. (Homework)		
	62		Writing skills 14 : Preparing an Appeal : Prepare an appeal inviting the students to respond to the"Voters'Registration Camp" specially organised by the State Election Commission on the eve of 75th Anniversary of our National Independence. (1) Give appropriate slogan (2) Poor turn out/low awareness (3) Statement of appeal (4) Arrangement of a special Camp (5) Guest/Time/Date/Venue. (Classwork)		
	63		Writing skills 14 : Preparing an Appeal : Prepare an appeal for eye donation with the help of the following points (1) Prepare an effective slogan (2) Use a logo/picture chart (3) Advantages of eye donation (4) Make a persuasive appeal. (Homework)		
	64		Writing skills 14 : Preparing an Appeal : A student in your college seeks immediate medical help.His parents are unable to afford the huge amount needed for the operation.Prepare an appeal to be put on your college notice board requesting the students to donate generously. Take the help of the following points: (1) The name of the illness (2) The cost of the operation (3) How the contributions can be made. (Homework)		
	65		Writing skills 15 : Counter View : Read the following view section and develop a counter view section in about 120 words.Suggest a suitable title " Old age homes are necessary in the mordern world " (1) Elders get a stressfree life (2)Secure and peaceful life (3) Better living conditions (4) Children working abroad have only option to keep elders in old age home. (Classwork)		
	66		Writing skills 15 : Counter View : Prepare a paragraph with an appropriate title to be used for the counter- View Section on the following topic in about 120 words : "Facebook is a user-friendly device " (1) Everybody can successfully network through facebook (2) Facebook allows information with people far and wide (3) Facebook allows users to create a profile page which interrelates with friends and relatives. (Homework)		
		67	4.4	The Sign of Four.	204-218
	68		Grammar: Clauses		
	69		Grammar: Simple, Compound and Complex sentence.		
	70		Grammar: Degrees of Comparison.		
	71		Grammar Skills: Conjunctions		

October	72	1.5	The New Dress.	43-54	English Yuvakbharati	
	73		Activity 6 : Divide the class into groups and Discuss the role of costumes in enhancing your personality.			
	74	2.5	Father Returning Home.	115-120	English Yuvakbharati	
	75		Activity 7 : Write a character sketch of your family member.			
	76		Writing Skills 16 : Compering : Imagine your school/jr.college has organised a farewell function for the students appearing for HSC examination.As a compere draft a script for the whole funtion maintaining the dequence of the following points (1) Welcoming the quest (2) Introduction (3) Felicitation (4) Important Speeches (5) Concluding remark (6) Vote of thanks . (Classwork)			
	77		Writing Skills 16 : Compering : Imagine you are given an opportunity to comper a programme organised at your college with reference to Yoga Day. As a compere draft the whole programme script deciding the flow of overall programme. (Homework)			
	78		Writing Skills 17 : Group Discussion : Imagine yourself as a participant in a group discussion arranged by an NGO working to promote swadeshi.The topic is 'Traditional food provide more nutrition to the children as compared to the junk food' There are wo more participants and evaluator to share their views . Prepare a set of 8 dialogues. (Classwork)			
	79		Writing Skills 17 : Group Discussion : You must have discussed many things with your friends,classmates in a group. It might be for going out on a picnic or selecting a gift for your teacher. Do you think some people are right some people are wrong in a group discussion? Why? (Homework)			
Sem End Exam I						
(Note : Syllabus of UT I is also included for SE I)						
November	80	1.6	Into the Wild.	55-64	English Yuvakbharati	
	81	2.6	Money.	121-124	English Yuvakbharati	
	82	1.7	Why we Travel.	65-76	English Yuvakbharati	
December	83	2.7	She Walks in Beauty.	125-128	English Yuvakbharati	
	84	1.8	Voyaging Towards Excellence.	77-92	English Yuvakbharati	
	85		Activity 8 : Discuss with your partner the different ways to travel from one place to another.			
	86	2.8	Small Towns and Rivers.	129-134	English Yuvakbharati	
Jan	Prelim Exam I					
	Prelim Exam II					

Month	Sr. No.	Ls. No.	Topic	Pg. No.	Date of Completion
June	1	1	चतुष्पदी : नवनिर्माण	1-4	
	2		क्रियाकलाप 1 : समाज का नव निर्माण और विकास नर नारी के सहयोग से संभव है इस विषय पर कक्षा में चर्चा कीजिए और अपने मत लिखिए।		
	3	2	संस्मरण निराला भाई	5-11	
July	4	19	आलेख : ब्लॉक लेखन	95-99	
	5		व्याकरण : रस के प्रकार		
	6		क्रियाकलाप 2 : किसी प्रसिद्ध व्यक्ति पर ब्लॉग लेखन कीजिए और कक्षा में प्रस्तुत कीजिए।		
	7	3	नई कविता : सच हम नहीं, सच तुम नहीं	12-15	
	8	4	कहानी : आदर्श बदला	15-22	
Aug	9		व्याकरण : अलंकार के प्रकार		
	10		लेखन कौशल्य : ब्लॉग लेखन		
	11		महाविद्यालय का पहला दिन पर ब्लॉग लेखन लिखिए।		
	12		मेरे भविष्य में मेरा सबसे खराब अनुभव पर ब्लॉक लिखिए।		
	13		फेसबुक पर मित्रता आवश्यक या अनावश्यक विषय पर ब्लॉग लेखन लिखिए।		
Unit test I					
Sept	14	5	पद दोह : गुरुबानी	23-26	
	15		क्रियाकलाप 3: आदर्श बदला कहानी के शीर्षक की सार्थकता पर कक्षा में चर्चा कीजिए और लेख लिखिए।		
	16	6	वृंद के दोहे	27-30	
	17		क्रियाकलाप 4: गुरु बिना ज्ञान ना हुई इस पंक्ति पर चर्चा कीजिए और अपना मत प्रकट कीजिए।		
Oct	18	7	निबंध : पाप के चार हथियार	31-35	
	19		क्रियाकलाप 5: लोगों के सक्रिय सहवाग से समाज सुधारक का कार्य सफल हो सकता है इस विषय पर अपना मत प्रकट कर कक्षा में चर्चा कीजिए।		
	20	8	नई कविता : पेड़ होने का अर्थ	36-40	
	21		Sem End Exam I		
Nov	22	9	पत्र : सुनो किशोरी	41-46	
	23		क्रियाकलाप 6: विद्यार्थी जीवन में मित्रता का महत्व इस विषय पर कक्षा में अपने अपने मध्य प्रकट कीजिए और लेख लिखिए।		
	24	10	शेर : चुनिंदा शेर	47-50	
	25		व्याकरण : लिंग के प्रकार		
	26	11	लेख : ओजोन विघटन का संकट	51-56	
	27		क्रियाकलाप 7: पर्यावरण रक्षा में आपका क्या योगदान है इस विषय पर कक्षा में चर्चा कीजिए और लेख लिखिये।		
	28	12	अनुदित साहित्य : कोखजाया	57-63	
	29	13	शोधपारक लेख : प्रकाश उत्पन्न करने वाले जीव	100-104	
	30	14	लोकगीत : सुनू रे सखिय	65-68	
	31		कजरी		
	32		क्रियाकलाप 8: बसंत और सामान रितु जीवन के सौंदर्य का अनुभव करते हैं इस कथन के आधार पर कविता का रसास्वादन कीजिए।		
	33		व्याकरण : सर्वनाम के भेद		

Dec	34	15	काव्य : कनुप्रिया	69-78	
	35		क्रियाकलाप 9: वृक्ष की उपयोगिता इस विषय पर चर्चा कीजिए और कक्षा में लिख लिख कर लाइए।		
	36	16	एकांकी : पल्लवन	79-84	
	37		व्याकरण : समानार्थी शब्द		
	38		व्याकरण : विरुद्धार्थी शब्द		
	39	17	कहानी : फीचर लेखन	85-90	
	40		क्रियाकलाप 10: भारत के अंतरिक्ष कार्यक्रम पर फीचर लेखन कीजिए और कक्षा में चर्चा कीजिए।		
	41	18	आत्मकथा : में उद्धोषक	91-94	
	42		व्याकरण : मुहावरे		
Jan	Prelim Exam I				
	Prelim Exam II				

Month	Sr. No.	Ls. No.	Topic	Pg. No.	Date of Completion
June	1	1	गद्य - वेगवशता	3-6	
	2		Activity 1- 'वाहतूक सुरक्षेची गरज' या विषयावर पाच मिनिटांचे भाषण देण्यासाठी लेख लिहून काढणे.		
	3	2	पद्य - रोज मातीत (कविता)	7-9	
	4		Activity 2- रोज मातीत या कवितेचे रसग्रहण तुमच्या शब्दांत लिहा.		
July	5	1	व्याकरण - वाक्यप्रकर	112-113	
	6		व्याकरण - शब्दांच्या जाती		
	7		कथा - साहित्यप्रकार - परिचय	62-69	
	8		व्याकरण - लिंग		
	9		व्याकरण - वचन		
	10	1	उपयोजित मराठी - मुलाखत	87-93	
	11		उपयोजित मराठी - मुलाखत - भाजीवाला याची मुलाखत घेण्यासाठी प्रश्नावली तयार करा.		
	12		उपयोजित मराठी - मुलाखत - पोस्टमन याची मुलाखत घेण्यासाठी प्रश्नावली तयार करा.		
Aug	13		उपयोजित मराठी - मुलाखत - परिचारिका याची मुलाखत घेण्यासाठी प्रश्नावली तयार करा.		
	14		उपयोजित मराठी - मुलाखत - 'वाहतूक नियंत्रण पोलीस कर्मचारी' यांची मुलाखत घेण्यासाठी प्रश्नावली तयार करा.		
	15	3	गद्य - आयुष्य... आनंदाचा उत्सव	10-16	
	16		Activity 3 - 'माझ्या जीवनातील आनंदाचे क्षण' या विषयावर वर्गात चर्चा करून झालेल्या चर्चेचे संवाद लेखन विद्यार्थ्यांकडून लिहून घेणे.		
	17	4	पद्य - रे थांब जरा आषाढघना (कविता)	17-19	
	18		Activity 4- रे थांब जरा आषाढघना या कवितेचे रसग्रहण तुमच्या शब्दांत लिहा.		
Unit Test I					
Sept	19	3	व्याकरण - समास	116-122	
	20	5	गद्य - वीराना सलामी	20-27	
	21		Activity 5- 'मी सैनिक होणार' या विषयावर पाच मिनिटांचे भाषण देण्यासाठी लेख लिहून काढणे.		
	22	1	कथा - शोध	70-78	
	23	2	व्याकरण - वाक्यरूपांतर	114-115	
	24		व्याकरण - काळ		
	25	6	पद्य - रंग माझा वेगळा (कविता)	28-30	
	26		Activity 6- रंग माझा वेगळा या कवितेचे रसग्रहण तुमच्या शब्दांत लिहा.		
	27		गद्य - आत्मविश्वासासारखी शक्ती नाही	31	
	28		Activity 7- व्यक्तीच्या जीवनातील 'आत्मविश्वासाचे' स्थान यावर लेख लिहून काढा.		
	29	2	उपयोजित मराठी - माहितीपत्रक	94-99	
	30		उपयोजित मराठी - माहितीपत्रक - एका वस्त्रदालनाचे आकर्षक माहितीपत्रक तयार करा.		
	31		उपयोजित मराठी - माहितीपत्रक - एका प्रयोगशाळेचे आकर्षक माहितीपत्रक तयार करा.		

Oct	32		उपयोजित मराठी - माहितीपत्रक - एका ग्रंथालयाचे आकर्षक माहितीपत्रक तयार करा.		
	33		उपयोजित मराठी - माहितीपत्रक - एका वसतिगृहाचे आकर्षक माहितीपत्रक तयार करा.		
	34	7	पद्य - विंचू चावला... (भारूड)	32-34	
	35		Activity 8- विंचू चावला... या कवितेचे रसग्रहण तुमच्या शब्दांत लिहा.		
Sem End Exam I					
(Note : Syllabus of UT I is also included for SE I)					
Nov	36	8	गद्य - रेशीमबंध	35-39	
	37		Activity 9- हिवाळ्यातील उत्तररात्री किंवा अगदी पहाटेच्या वेळी तुमच्या परिसराचे निरीक्षण करा. पाहिलेल्या निसर्गसौंदर्याचे वर्णन लिहून ते वर्गात वाचून घ्या.		
	38	2	कथा - गढी	79-86	
	39	4	व्याकरण - प्रयोग	123-125	
	40		व्याकरण - समानार्थी शब्द		
	41		व्याकरण - विरुद्धार्थी शब्द		
	42	9	पद्य - समुद्र कोंडून पडलाय (कविता)	40-42	
	43		Activity 10- समुद्र कोंडून पडलाय या कवितेचे रसग्रहण तुमच्या शब्दांत लिहा.		
	44	10	गद्य - दंतकथा	43-49	
	45		Activity 11- डोळे व नाक या अवयवांशी संबंधित वाक्प्रचारांची यादी तयार करून लिहून काढणे.		
	46	5	व्याकरण - अलंकार	126-130	
	47		व्याकरण - विरामचिन्हे		
	48		व्याकरण - वाक्प्रचार		
	49	11	पद्य - आरशातील स्त्री (कविता)	50-53	
	50		Activity 12- आरशातील स्त्री या कवितेचे रसग्रहण तुमच्या शब्दांत लिहा.		
	51	12	गद्य - रंगरेषा व्यंगरेषा	54-60	
	52		Activity 13- 'बेटी बचाओ, बेटी पढाओ' या विषयाशी संबंधित पाच घोषवाक्ये तयार करून लिहून काढा.		
	53		लेखन - निबंधलेखन	131-135	
	54		लेखन - निबंधलेखन - माझे आवडते चित्रपट		
	55		लेखन - निबंधलेखन - मराठी भाषेचे स्थान		
56		लेखन - निबंधलेखन - मी नगरसेवक झालो तर...			
57		लेखन - निबंधलेखन - मी केलेला प्रवास			
Dec	58	3	उपयोजित मराठी - अहवाल	100-104	
	59		उपयोजित मराठी - अहवाल - तुमच्या कनिष्ठ महाविद्यालयातील वृक्षारोपण कार्यक्रमाचे अहवाल लेखन करा.		
	61		उपयोजित मराठी - अहवाल - तुमच्या कनिष्ठ महाविद्यालयातील मराठी राजभाषा दिनानिमित्त आयोजित निबंध स्पर्धेचे अहवाल लेखन करा.		
	62		गद्य - जयपूर फुटचे जनक	61	
	63		व्याकरण - पारिभाषिक शब्द		
	64	4	उपयोजित मराठी - वृत्तलेख (फिचर रायटिंग)	105-111	
	65		उपयोजित मराठी - वृत्तलेख - तुमच्या महाविद्यालयात 'अंधश्रद्धा निर्मूलन' या विषयावर झालेल्या व्याख्यानाचा वृत्तलेख वर्तमानपत्रात प्रसिद्धीस देण्यासाठी तयार करा.		

	66	उपयोजित मराठी - वृत्तलेख - एखाद्या सांस्कृतिक प्रसंगावर आधारित वृत्तलेख तयार करा.		
	67	उपयोजित मराठी - वृत्तलेख - बोर्डाची परीक्षा रद्द होणार का ? या विषयावर वृत्तलेख तयार करा.		
	68	उपयोजित मराठी - वृत्तलेख - विद्यार्थ्यांसाठी वसतिगृह प्रवेशासंबंधी वृत्तलेख तयार करा.		
Jan	Prelim Exam I			
	Prelim Exam II			

Months	Sr. No.	Ls. No.	Topic	Pg. No.	Date of Completion
June	1	1	Introduction to Partnership and Partnership Final Accounts	1-62	
	2		Activity 1 : Visit a Partnership firm and study the management of the firm and write a report on it.		
July	3	2	Accounts of 'Not for Profit' Concerns	63-124	
	4		Activity 2 : Visit any Mahila Bachat Gat and study the procedure of maintaing the accounts and write a report on the same.		
Aug	5	3	Admission of Partners	125-167	
	6		Activity 3 : Visit any Bank and enquire about procedure for changes in the signatories of Partnership due to Admission of a Partner and write a report on the same.		
	7		Revision Lecture		
Unit Test I					
Sept	8	4	Reconstitution of Partnership (Retirement of Partner)	168-186	
	9		Activity 4 : Visit any lawyers office and obtain the procedure for preparation of New Partnership Deed after Retirement of an existing partner and write a report on the same.		
	10	5	Reconstitution of Partnership (Death of Partner)	187-205	
	11		Revision Lecture		
Oct	14	6	Dissolution of Partnership Firm	206-250	
	15	7	Bills of Exchange	251-308	
	16		Activity 5 : Collect specimens of Bill of Exchange and Promissory Note.		
Sem End Exam I (Note : Syllabus of UT I is also included for SE I)					
Nov	17	8	Company Accounts - Issue of Shares	309-343	
	18		Activity 6 : Obtain Prospectus issued by any Companyfor issue of shares and write a report on the procedure as mentioned in the Prospectus.		
	19	9	Analysis of Financial Statements	344-380	
	20		Activity 7 : Obtain a Balance Sheet published in Newspaper /Annual Report and prepare comparative Balance Sheet of the company.		
Dec	21	10	Computer In Accounting	381-391	
	22		Activity 8 : Obtain Information about various accounting software & write a report including typesof software, open sourceLicensed, single user, multiusers, hardware requirements, after sale service & training to use the software.		
	23		Revision Lecture		
Jan	Prelim Exams I				
	Prelim Exams II				

Month	Sr. No.	Ls. No.	Topic	Pg. No.	Date of Completion
June	1	1	Introduction to Micro Economics and Macro Economics	1 - 7	
July	2	2	Utility Analysis	8 - 16	
	3		Activity 1: Complete the following chart with proper statement and bring about the difference between the two concepts i.e total utility and marginal utility		
	4		Activity 2: Write an information note on paradox of value along with examples		
Aug	5	3A	Demand Analysis	17 - 24	
	6		Activity 3 : Complete the table which is given in textbook		
	7		Activity 4 : Draw a demand curve from the following demand schedule given in the textbook		
	8		Activity 5: Solve the examples of the given exceptions to the law of demand		
	9	3B	Elasticity of Demand	25 - 34	
Unit Test I					
Sept	10		Activity 6 : Identify the type of price elasticity of demand for the following goods. (1)Cosmetics (2) Medicine (3) School uniform(4) Air conditioners		
	11		Activity 7 : Solve - As the price of peanut packets increases by 5 % the demand for number of peanut packets will be ?		
	12		Revision lecture		
Oct	13	4	Supply Analysis	35 - 44	
	14		Activity 8 : Draw a supply curve with the help of a hypothetical schedule from the textbook		
	15		Activity 9 : I am firm produces 600 units of a commodity in a day and incurs a total cost of Rs 30,000 . Calculate the average cost .		
	16		Activity 10 : If a firm sells 400 units of a commodity at Rs 10 unit . Calculate the TR and AR		
Sem End Exam I					
(Note : Syllabus of UT I is also included for SE I)					
November	17	5	Forms of Market	45-52	
	18		Activity 11 : Write types of monopoly for the following product services (1) Tea in Assam ----- ----- (2) Atomic energy (3) Logo of a commercial bank -----		
	19		Activity 12 : Write close substitutes for the products mentioned in the textbook		
	20		Revision lecture		
	21	6	Index Numbers	53 - 59	

Dec	22	7	National Income	60 - 69	
	23		Activity 13 : Write methods of measurement of national income		
	24	8	Public Finance in India	70 - 79	
	25		Activity 14 : Write important social welfare scheme by the government		
	26	9	Money market and Capital market in India	80 - 92	
	27		Activity 15 : Make flow chart of Indian capital market		
	28	10	Foreign Trade in India	93 - 97	
	29		Activity 16 : Write recent shares of India's foreign trade in Gross national product		
Jan	Prelim Exams I				
	Prelim Exams II				

Month	Sr. No.	Ls. No.	Topic	Pg. No.	Date of Completion
June	1	1	Principles of Management	1-20	
	2		Activity 1 : Discuss an example of your favourite game like cricket. You will find each activity is based on-Fayol's Principles of management. Take the help of your Teacher. Write a report on it.		
	3		Activity 2 : You will find each activity is based on Fredrick Winslow Taylor's Scientific Management Theory. Write a report on it in 400 - 500 words.		
July	4	2	Functions of Management	17-46	
	5		Activity 3 : Organize Teacher's Day in your college. Make a report on it in 350 - 400 words.		
	6		Activity 4 : What is the meaning of "Right Person at the Right Job" ? Discuss with your Teacher. Write a report on it in 350 - 500 words.		
Aug	7	3	Entrepreneurship Development	46-54	
	8		Activity 5 : Collect any two success stories of entrepreneur / business icons and present it in class room. Write a report on it.		

Unit Test

Sept	9		Activity 6 : Collect information on Agritourism or agrotourism involves any agricultural based operation or activity that brings visitors to a farm or ranch. Make a report on it.		
	10		Revision Lecture		
	11	4	Business Services	54-95	
	12		Activity 7 : List down public, private and foreign banks in your area. Write a report on it.		
	13		Activity 8 : Visit nearest bank in your area and list down primary functions performed by such bank. Write a report it in 400 - 500 words.		
	14		Revision Lecture		
Oct	15	5	Emerging Modes of Business	95-117	
	16		Activity 9 : Study any business unit which is using E-business and E-commerce as a way of doing business. Write a summary in 400 - 500 words.		
	17		Activity 10 : Compare the products and their prices available on the internet and in retail shop. Write a report on it.		

Sem End Exam I

(Note : Syllabus of UT I is also included for SE I)

Nov	18	6	Social Responsibilities of Business	117-138	
	19		Activity 11 : Write a report on Corporate Social Responsibility towards the Environment in India.		
	20		Activity 12 : Write the CSR activity done by TATA group of company.		

Dec	21	7	Consumer Protection	138-151	
	22		Activity 13 : Visit to ten consumers in your area to find out whether they are aware of their rights and responsibilities as consumer. Write a report on it in 400- 500 words.		
	23		Activity 14 : Visit the Non Government Organization and discuss about malpractices by business in your area.		
	24	8	Marketing	151-168	
	25		Activity 15 : Collect 5 types of packaging material and read carefully the information given on the label of the package. Write a		
	26		Activity 16 : Visit five nearby grocery shops and find out different types/grades of wheat, rice and cereal etc. its prices. Find out the reasons of price changes in different grades of grains. Make a report on it.		
	27		Revision Lecture		
Jan	Prelim Exam I				
	Prelim Exam II				

Month	Sr. No.	Ls No.	Topic	Pg No.	Date of Completion
June	1	1	Introduction to Corporate Finance	1-13	
	2		Activity 1 : Visit website of any public limited company and find out details of its capital structure.		
July	3	2	Sources of Corporate Finance	14-38	
	4		Activity 2 : Find out Indian companies who have issued ADR as well as GDR.		
	5		Activity 3 : Study the role of different institutions in raising funds for companies.		
Aug	6	3	Issue of Shares	39-67	
	7		Activity 4 : Visit www.sebi.gov.in to view public issues related Draft offer Document filed by a company with SEBI.		
	8	4	Issue of Debentures	68-79	
	9		Activity 5 : Find out about the Debenture Trustee Services offered by IDBI Trusteeship Service Ltd		
	10		Activity 6 : Find out two institutions offering Debenture Trustee Services in India.		
	11		Revision Lecture		
Unit Test					
Sep	12	5	Deposits	80-92	
	13		Activity 7 : Find out various credit Rating Agencies in India.		
	14		Activity 8 : Find out any 5 top performing companies fixed Deposit ratings given by credit Rating agency.		
	15	6	Correspondence with Members	93-103	
	16		Activity 9 : List the duties and features of Members.		
	17	7	Correspondence with Debentureholders	104-115	
	18		Activity 10 : List the needs of Correspondence to Debentureholder.		
Oct	19		Revision Lecture		
	20	8	Correspondence with Depositors	116-126	
	21		Activity 11 : List the needs of Correspondence to Depositors.		
Sem End Exam I					
(Note : Syllabus of UT I is also included for SE I)					
Nov	22	9	Depository System	127-142	
	23		Activity 12 : Note down the companies who provide the facilities of Depository System.		
	24	10	Dividend and Interest	143-157	
	25		Activity 13 : Find out the dividend provided by the following companies : 1) AAFLE 2) CPSEETF 3) WIPRO 4) INFOYSYS		

Dec	26		Activity 14 : Find out the interest of the saving accounts following banks : 1) Bank of Baroda 2) ICICI Bank 3) Bank of India 4) HDFC Bank		
	27	11	Financial Market	158-169	
	28		Activity 15 : Collect additional information about Treasury Bills and Commercial Bills.		
	29	12	Stock Exchange	170-178	
	30		Activity 16 : Find the meaning of Beta, Blue chip Stocks, Penny Stock and Mid Caps Stock.		
	31		Revision Lecture		
Jan	Prelim Exam I				
	Prelim Exam II				

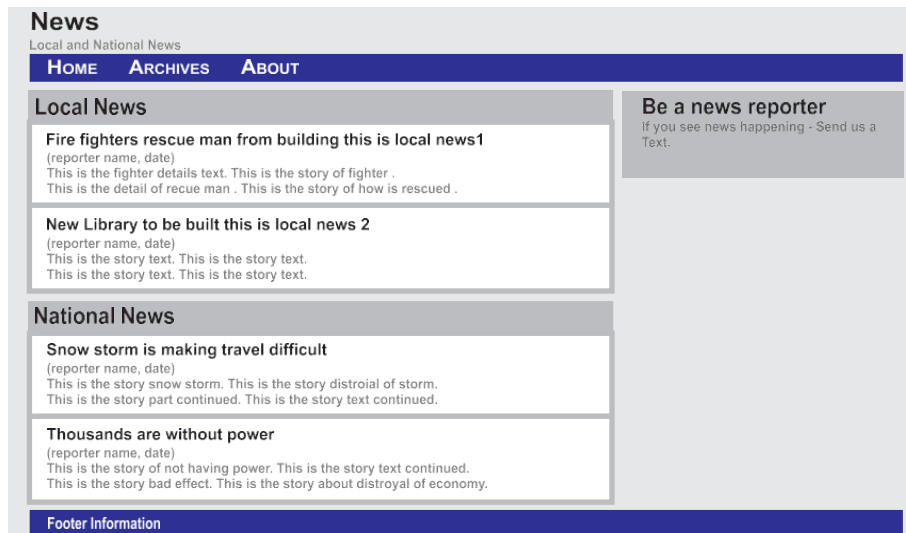
Month	Sr. No.	Ls. No.	Topic	Pg. No.	Date of Completion
June	1	1	Mathematical Logic Practical : 1	1-34	
	2		Activity 1: Write the convers, inverse, contrapositive	20	
July	3	2	Matrices Practical : 2	35-38	
	4		Activity 2: Write Types of Matrices	36	
	5	1	Commission, Brokerage and Discount Practical: 1	1-15	
Aug	6	2	Insurance and Annuity Practical : 2	16-33	
	7		Activity 3 : List of formula	28	
	8	3	Differentiation Practical : 3	89-102	
	Unit Test I				
Sept	9		Activity 4 : Explain Second order Derivative	97	
	10	3	Linear Regression Practical : 3	34-56	
Oct	11	4	Application of Derivatives Practical : 4	103-116	
	12		Activity 5: Describe Increasing and Decreasing Function:	105	
	13	4	Time Series Practical : 4	57-71	
Sem End Exam I					
(Note : Syllabus of UT I is also included for SE I)					
Nov	14	5	Index Numbers Practical : 5	72-94	
	15	5	Integration Practical : 5	116-140	
	16		Activity 6 : Explain Integration by Partial Fraction	133	
	17	6	Linear Programming Practical : 6	95-107	
	18	6	Definite Integration Practical : 6	141-151	
	19	7	Application of Definite Integration Practical : 7	152-160	
	20		Activity 7 : Write down standard forms of parabola & their Shapes	152	
	21	7	Assignment Problems and Sequencing Practical : 7	108-131	

Dec	22	8	Differential Equation and Application Practical : 8	160-174	
	23	8	Probability distribution Practical : 8	132-157	
	24		Activity 8 : Explain Probability Mass Function (p.m.f) and Cumulative Distribution Function (c.d.f.)	135	
Jan	Prelim Exam I				
	Prelim Exam II				

Month	Sr. No.	Ls. No.	Topic	Pg. No.	Date of Completion				
June	1	1	Advanced Web Designing	1-26					
	2		Activity-1: 1. Use multiple attribute in <input> 2. Use pattern attribute in <input>and see the Output.						
July	3		Practical-1: Creation of website using HTML5. Create a website using html5 and CSS using any 4 css properties. Write a code for 2 separate pages having different file name such first page as index.html, 2nd page as page2.html as form.html. Use any theme such as college profile or company profile etc. Every page must contain proper Meta information and design webpage as follows- 1. The index page must contain a heading which is highest among other text on pages and must be at center of the page. There must be a paragraph which introduces general information about the theme chosen must have at least 3 physical style tags and one image with alternate text. This page must be connected to other page with proper navigational links. 2. The 2nd page must contain the feedback or enrollment form related with theme chosen with feature of html5. The form must contain text element and email address of the company or person .Include the submit button. (IT Lab)						
	4		Practical-2: Create a webpage using HTML and CSS code to design a web page as the layout displayed below. The top section will display the heading, 'Tourist places' in header. The section on the left has list of cities. The right hand side display tourist places in any one of the city. Use Inline style sheet in the top section to display background colour for the text 'Tourist places'. Use internal stylesheet for the left and right section with background colours and font styles. <table border="1" data-bbox="418 1178 1263 1421"> <thead> <tr> <th colspan="2">Tourist places</th> </tr> </thead> <tbody> <tr> <td>City 1. Pune 2. Banglore 3. Hyderabad 4. Delhi</td> <td>Tourist places in Pune • Shaniwarwada • Kelkar Museum • Sinhgad fort</td> </tr> </tbody> </table> (IT Lab)	Tourist places		City 1. Pune 2. Banglore 3. Hyderabad 4. Delhi	Tourist places in Pune • Shaniwarwada • Kelkar Museum • Sinhgad fort		
	Tourist places								
City 1. Pune 2. Banglore 3. Hyderabad 4. Delhi	Tourist places in Pune • Shaniwarwada • Kelkar Museum • Sinhgad fort								
5		Practical-3: Create a webpage using HTML and CSS code to design a webpage. The first webpage will accept the name of the traveller, Date of travel, telephone number. It also has submitted button as an image. The second webpage has information about the name of transporter, time, seat no and destination displayed one below the other in the form of unordered list as Name of transporter – Air Asia Seat no – B39 Destination – Delhi Both pages should be interlinked. Create external stylesheet with relevant tags. (Homework)							

Practical-4: Creation of website using HTML 5 and CSS.

Create a webpage as given layout use <nav>, <header>, <footer>, <aside>, <article> with CSS.



(Homework)

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Practical 5: Use of Audio on web pages using html5.

Create a webpage named audio.html to set an audio file in web page with controls such that it uses html 5 elements. The audio file must play as soon as the webpage loads in browser and it will start over again, every time when it is completed.

Create another webpage named audio1.html which provides multiple source file formats for the same audio file that plays a sound with controls. The browser should display the message with appropriate attribute when audio tag is not supported by browser. The code must incorporate the list of sound files formats (like wav, MP3 or ogg etc). **(IT Lab)**

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Practical-6: Use of video on web pages using HTML5. Create a webpage named video.html to display a video file on web page and plays automatically. The dimension of video area should be 150* 150 pixels. Create another webpage which provide multiple source file formats for the same video file that plays a video with controls. The dimension of video area should be 300* 300 pixels. The browser should display the message with appropriate attribute when video tag is not supported by browser. The code must incorporate the list of video files formats (like webM, MP4 or ogg etc). **(IT lab)**

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Practical-7: Navigation on an image using Client side image Mapping in web page using html 5. Create a webpage named imagemap. html with an inserted image having jpeg, png or gif extension. Create 3 different shapes (like rectangle, circle and polygon) which do not overlap. Note down the co-ordinates making use of Ms-Paint/GIMP/IrfanView/Pinta. Each shape

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			should be mapped or navigate with a different URL that should navigate to a local webpage. (Homework)		
Aug	10	2	Digital Marketing	27-41	
	11		Activity-1: Make a list of Search Engines, Browsers you know.		
	12		Activity-2: Distinguish between Black Hat SEO and White Hat SEO.		
	13		Practical-8: With the help of SEO tool which is freely available optimize the website and write down the following findings. Ask the teacher/examiner to provide URL of the website to be optimized. 1) Name of the website you are optimizing. 2) Whether the site has Title Tag? 3) Whether the site has Header Tags? If yes, which tags are there? 4) Whether the Images used has Alt Attributes? 5) What is the comment about usability? (IT Lab)		
	14		Practical-9: Assume that you are appointed as a Digital Marketing Expert for a company name as XYZ Marketing Private Ltd. They have a website hosted on a web server. Suggest your client changes needed in the website to improve the speed of website and also make him aware about following 1) Total numbers of recommended improvements are? 2) Mention grades given for the following points i) SEO ii) Usability iii) Performance iv) Security 3) Check for broken links and images. 4) Whether the website has links with the social media? If yes, Give name of the social media. (Take the name of the website from your teacher/examiner and get a report for Search Engine Optimization with tool freely available.) (IT Lab)		
15		Practical-10: By using any Audit tool freely available on Internet optimize the website given by the teacher/examiner and write down the following findings. 1) What is the name of the Website 2) Whether all CSS and javascript files seem visible to Googlebot? 3) Whether the webpage seems to display well on mobile devices? 4) Check whether the webpage is secured with HTTPS? 5) Check whether the website has robot.txt file or not. (Homework)			
16		Practical-11: With the help of SEO tool which is freely available (e.g. https://www.seoptimer.com/) optimize that website and write down the following findings. (URL of the website is being provided by the examiner/teacher.) 1) Write the name of the website you are optimizing. 2) Check for broken links and images. 3) Check and review back links are present or not 4) Whether the website flagged as safe by popular malware scanners?			

			Name any two malware scanners. 5) Check the following list and say Yes or No Mobile Viewports used? iframes used? Legible Font Sizes used? Tap Target Sizing on a touchscreen? (Note : you can use any Search Engine Optimization Tool which is freely available over the internet, such as https://www.seoptimizer.com , https://www.woorank.com , https://seositecheckup.com etc.) (IT Lab)		
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Unit Test I

Sept	17	3	Computerized Accounting with GST	42-70																
	18		Activity-1: Make a table of the Ledger accounts alphabetically and write their respective groups and subgroups. Refer Std XI IT textbook.																	
	19		Activity-2: There are many other free accounting software available on Internet. Try to search,install and explore.																	
	20		Activity-3: Find the names of the countries where Goods and Services Tax is applicable.																	
	21		Activity-4: Find out the State code of GST for different states of India. Make a list of it.																	
	22		Activity-5: Find out the GST rates prescribed by government for different types of goods and services. Make a list of it. Refer GST Council decision for latestGST rates.																	
	23		Activity-6: Try to collect a bill having GST applied on cost, observe the GSTIN and rate of GST. Also observe which types of GST are applied on that bill.																	
	24		<p>Practical-12: Mr. Ravindrakumar started business by the name M/s Bitwise Trading Company in the year 2019</p> <p style="text-align: center;">COMPANY DETAILS</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td>Company Name:</td> <td>M/s Bitwise Trading Company</td> </tr> <tr> <td>Address:</td> <td>102 M.G. Road, <u>Bhavana Nagar</u>, <u>Latur</u> - 413512</td> </tr> <tr> <td>State:</td> <td>Maharashtra</td> </tr> <tr> <td>Website:</td> <td>www.bitwisetrading.com</td> </tr> <tr> <td>E-mail Id:</td> <td>info@bitwise.com</td> </tr> <tr> <td>Maintain:</td> <td>Account with Inventory</td> </tr> <tr> <td>Financial Year From:</td> <td>01-04-2019</td> </tr> <tr> <td>Books Begin From :</td> <td>01-04-2019</td> </tr> </table> <p>With the help of any open source or free education version accounting software pass the following transactions in appropriate vouchers to display and print various reports such as Trial Balance, Profit & Loss A/c, Balance Sheet and Day Book.</p>	Company Name:	M/s Bitwise Trading Company	Address:	102 M.G. Road, <u>Bhavana Nagar</u> , <u>Latur</u> - 413512	State:	Maharashtra	Website:	www.bitwisetrading.com	E-mail Id:	info@bitwise.com	Maintain:	Account with Inventory	Financial Year From:	01-04-2019	Books Begin From :	01-04-2019	
Company Name:	M/s Bitwise Trading Company																			
Address:	102 M.G. Road, <u>Bhavana Nagar</u> , <u>Latur</u> - 413512																			
State:	Maharashtra																			
Website:	www.bitwisetrading.com																			
E-mail Id:	info@bitwise.com																			
Maintain:	Account with Inventory																			
Financial Year From:	01-04-2019																			
Books Begin From :	01-04-2019																			

Date	Particulars	Amount (Rs)
1/04/2019	Mr. Ravindrakumar started business with cash	5,00,000
1/4/2019	Purchased goods from Sharada Steel works on credit	20,000
2/5/2019	Paid salary to staff	5,000
1/6/2019	Cash deposited into Bank of India	50,000
2/6/2019	Sold goods to Rakesh Enterprises on cash	25,500
2/7/2019	Purchased Machinery	10,000
2/12/2019	Received Interest on cash deposited in Bank of India	2,000

(IT Lab)

Practical-13: With the help of any open source or free education version accounting software create a company using following details:

Company Name :	M/s Bags and Baggage Traders
Company Address :	J. M. Ratna Road, Near Maruti Mandir, Ratnagiri, Maharashtra Pin Code 415612
Website :	www.bagsandbaggage traders.com
Email id :	contact_us@ bagsandbaggage traders.com
GSTIN :	27STUVW1234C2Z1
Books Beginning:	01/04/2019

Enter the following transactions in appropriate vouchers using by applying GST. Print GST computation Report and Tax Invoice

1) On 01/08/2019 purchased 150 pieces of Leather Handbags @ Rs.2500 per piece, with GST 28% from Genuine Leather Bags, Sai Baba Nagar, D.P.Road, Navi Mumbai, Maharashtra, Pin code 400039 with GSTIN 27LMNOP5678V2Z2.

2) On 02/09/2019 Sold 80 pieces of them @Rs.3500 per piece, GST 28%, to M/s Shoppers Stock, Pari Industrial Estate, Chiplun, Maharashtra, Pin code 415605 with GSTIN 27JKLMN4321C1Z2 Print GSTR-2 and Sales Tax Invoice **(IT Lab)**

Practical- 14: With the help of any open source or free education version accounting software enter the following transactions in appropriate vouchers by creating a company. Company details are as below.

Company Name :	M/s Swastik Garment Suppliers
Company Address :	M. G. Road, Industrial Estate, Aurangabad, Maharashtra Pin Code 431001
Website :	www.swastikgarments.com
Email id :	info@ swastikgarments.com
GSTIN :	27KLMNA4321V1Z2
Books Beginning :	01/04/2017

1) On 01/07/2017 Purchased 150 pieces of T-shirts @Rs. 450 per piece with GST 12% from M/s. Jalaram Textiles, 1/05 Sector B, Gandhi Nagar, Ahmadabad, Gujarat Pin code 382010.

(Homework)

Practical- 15: Happy World Tours and Travels Company from J.M. Road, Deccan Gymkhana, Pune, Maharashtra 411004 (GSTIN 27STUVW1212T1Z2) is a tourism company that provides travel and tourism related services to the general public. The company renders services like air ticket booking, railway ticket booking, group tour booking, vehicle on rent etc. Following transactions has taken place in the month of November 2019. With the help of any open source or free education version accounting software enter the following transactions in appropriate vouchers of Happy World Tours and Travels Company with GST calculations.

Sr	Date	Transaction
1	1/11/2019	Received Commission Rs50000 with 18% GST from M/s Success Business Agency, Pune Maharashtra on group tour booking by cheque Bank of India (Chq. No. 302010)
2	2/11/2019	A Motor Cab Rented to the regular client Mr. Ajay Singh Gupta, Aundh, Pune on a cost of Rs15000 with 5% GST by cash.
3	2/11/2019	Paid Rs. 20000 for Website Development charges to M/s Soft Corner India Limited, Karnataka with GST 18% GST by cheque Bank of India (Chq. No. 302255)

Print GST Reports GSTR-2 and GST Annual Computation.
(Homework)

Sem End Exam I

(Note : Syllabus of UT I is also included for SE I)

Nov	27	4	E-Commerce and E-Governance	71-81	
	28		Activity-1: Find out some more payment modes used in E-Commerce.		
	29		Activity-2: Visit Maharashtra Government website, view various Government Resolutions (GR) and observe the digital signature of various authorities.		
Dec	30	5	Database Concepts using Libre Office Base	82-98	
	31		Activity-1: Find the rules for naming field names in Libre office Base.		
	32		Activity-2: <ul style="list-style-type: none"> • Create a table - Product with fields- pid, pnm, pdesc, pmonth, pwt, prate etc. • Create a table- Event with appropriate fields. 		
	33		Activity-3: Create queries for following on product table. <ul style="list-style-type: none"> • To display product list which are manufactured in the month of December. • To display product list whose rate is greater than 100. 		
	34		Activity-4: Generate monthly manufactured product's report.		
	35		Activity-5: Find out databases with different relations and relationships.		

	36		Practical- 16: Create a table student with fieldnames- rollno, studname, class, div, city, dob etc. Insert minimum 8 records. Create a form based on student table. (IT Lab)		
	37		Practical- 17: Create a table employee with fields names- empid, empname, empdept, empqual, empjoindate, empsal etc. Insert minimum 8 records. Create queries to display records from the employee table. where employee qualification is “MBA” where employee department is “Accounts”. where employee salary >70000 where employee name is “Mr. Suhas Kale” (Homework)		
	38		Practical- 18: Create table Product with fieldnames prodid, prodname, qty, rate, modelyear with appropriate data type. Insert minimum 8 records. Generate report to display records in ascending order of prodname. Generate report to display records in descending order of product rate. Generate report to display modelyear wise product list Build a query to display amount (qty*rate). Generate a bill report with appropriate titles and calculate amount for each record. (IT Lab)		
	39	6	Enterprise Resource Planning (ERP)	99-109	
	40		Activity-1: List out few more ERP solutions providers / packages.		
Jan	Prelim Exams I				
	Prelim Exams II				

Month	Sr. No.	Ls.No.	Topic	Pg. No.	Date of Completion
June	1	1	Rotational Dynamics	1-25	
July	2	2	Mechanical properties of fluids	26-55	
Aug	3	3	kinetic theory of gasses and Roatation	56-74	
	4	1	Practical 1: 1) To determine the force constant of the given spring . 2) To determine the mass of the spring.	4	
	5	1	Activity 1: Derive an expression relating the torque with angular acceleration for a rigid body		
Unit Test I					
Sept	6	4	Thermodynamics	75-108	
	7	5	Oscillation	100-113	
	8	2	Practical 2: To determine the surface tension of the given liquid (water) by capillary rise method.	17	
	9	3	Practical 3: To study the relationship between the temperature of hot body and time by plotting a cooling curve.	23	
	10	2	Activity 2: Derive an expression for maximum efficiency of a heat engine and Carnot cycle		
	11	7	Superposition of waves	131-157	
	12	8	Wave optics	158-185	
	13	4	Practical 4: To study the relation between frequency and length of a given wire under constant tension using sonometer.	35	
	14	5	Practical 5: To study the relation between the length of a given wire and tension for constant frequency.	43	
Oct	15	6	Practical 6 : To determine the speed of sound in air at room temprature. 2) To find out the unknown frequency of a tuning fork using resonance tube.	50	
	16	3	Activity 3: Derive the conditions for bright and dark fringes produced due to differaction by a single slit.		
	17	8	Electrostatics	159-187	
	18	9	Current Electricity	214-229	
	19	7	Practical 7: To determine the current sensitivity of a moving coil galvanometer.	59	
	20	8	Practical 8: To verify the laws of combination (series & parallel) of resistance using a meter bridge.	66	
	21	9	Practical 9: To determine the resistance of a galvanometer by Kelvin's methods using Wheatstone's meter bridge.	71	
	22	6	Activity 4: With the help of a neat circuit diagram determine the internal resistance of a cell by using a potentiometer and derive the necessary formula.		
	Sem End Exam I				
(Note : Syllabus of UT I is also included for SE I)					
	23	10	Magnetic fields due to Electric Current	230-250	

	24	11	Magnetic material	251-264	
	25	12	Electromagnetic Induction	265-287	
Nov	26	10	Practical 10: To compare e.m.f of the given cells using a potentiometer.	76	
	27	11	Practical 11: To determine the internal resistance of a given cell using potentiometer	84	
	28		Activity 5: Derive an expression for Impedence.		
	29	13	AC current	288-305	
	30	14	Dual nature of radiation and matter	306-323	
	31	15	Structure of Atom And Nuclei	324-343	
	32	12	Practical 12: Comperison of magnetic dipole moment of a bar magnet by individual and by assist and oppose method.	88	
	33	8	Activity 6: Explain experimental set up for Photoelectric effect.		
	Dec	34	14	Semiconductor devices	344-364
35		13	Practical 13: To study the characterstics of zenor diode in reverse bias and determine its reverse breakdown voltage.	94	
36		14	Practical 14: To identify given IC's and to verify the truth table for each type of logic.	102	
37		15	Practical 15: To study input and output characteristics of a common emitter NPN transistor.	108	
38		7	Activity 7: Describe the principles of a nuclear reactor. What is the difference between a nuclear reactor and a nuclear bomb?		
Jan	Prelim Exam I				
	Prelim Exam II				

Month	Sr. No.	Ls. No.	Topic	Pg. No.	Date of completion
June	1	1	Solid State	1-27	
July	2		Practical 1: To determine the concentration in terms of molarity of KMnO_4 by titrating it against (0.1M) standard solution of oxalic acid.		
	3	6	Chemical Kinetics	120-137	
	4		Activity1: A complex reaction takes place in two steps: (i) $\text{NO}(\text{g}) + \text{O}_3(\text{g}) \rightarrow \text{NO}_3(\text{g}) + \text{O}(\text{g})$; (ii) $\text{NO}_3 + \text{O}(\text{g}) \rightarrow \text{NO}_2(\text{g}) + \text{O}_2(\text{g})$. The predicted rate law is $\text{rate} = k[\text{NO}][\text{O}_3]$. Identify the rate determining step. Write the overall reaction. Which is the reaction intermediate? Why		
	5		Practical 2: To determine the concentration in terms of molarity of KMnO_4 by titrating it against (0.1M) standard solution of ferrous ammonium sulphate.		
	6	3	Ionic Equilibria	47-62	
	7		Practical 15: Detection of two basic radical qualitatively from given inorganic salt mixture - 1.		
	8	4	Chemical Thermodynamics	63 - 89	
August	9		Practical 12: Test for functional group present in given organic compound.		
	10	9	Coordination Compounds	192-209	
	11		Activity2: (1) Draw structures of enantiomers of lactic acid using Fischer projection formulae. (2) Draw structures of enantiomers of 2-bromobutane using wedge formula.		
	12		Practical 7: To determine enthalpy of neutralisation of HCl and NaOH.		
	13		Practical 8: To determine enthalpy change of Cu from CuSO_4 by Zn.		
	14		Activity 3: Derive the relationship between osmotic pressure and concentration of solution.		
	15		Practical 8: To prepare pure sample of ferrous ammonium sulphate.		
Unit Test I					
Sept	16	5	Electrochemistry	90 - 119	
	17		Practical 9: To prepare pure sample of potash alum.		
	18	2	Solutions	28 - 46	
	19		Practical 10: To prepare 2-naphthol aniline dye.		
	20		Practical 11: To prepare p-nitro acetanilide from acetanilide.		
Oct	21	8	Transition and Inner Transition Elements	165 - 191	
	22		Practical 5: Study of variation of cell potential of cell $\text{Zn} \text{Zn}^{+2} \text{Cu}^{+2} \text{Cu}$ with change in concentration of electrolyte CuSO_4 and ZnSO_4 .		
	23		Practical 6: To determine enthalpy of dissolution of $\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$ in water at room temperature.		
	24	15	Introduction to Polymer Chemistry	322 - 339	
	25		Activity 4: From the cis-polyisoprene structure of natural rubber explain the low strength of van der Waals forces in it.		

	26		Practical 13: Characteristics test of carbohydrates proteins fats and oils.		
Sem End Exam I					
(Note : Syllabus of UT I is also included for SE I)					
Nov	27	10	Halogen Derivatives	210-233	
	28		Practical 14: Detection of two acidic radical qualitatively from given inorganic salt mixture - 1.		
	29	7	Elements of Group 16, 17 and 18	138-164	
	30		Practical 3: To study the effect of concentration on rate of reaction between $\text{Na}_2\text{S}_2\text{O}_3$ and HCl.		
	31		Practical 4: To study the effect of temperature on rate of reaction between $\text{Na}_2\text{S}_2\text{O}_3$ and HCl.		
	32	13	Amines	282-297	
	33	14	Biomolecules	298-321	
	34		Activity 5: Write the representation of : (i) Tricarbonatocobaltate (III) ion. (ii) Sodium hexacyano ferrate (III). (iii) Potassium hexa cyanoferrate (II). (iv) Diamminedichloroplatinum (II).		
	35		Practical 16: Detection of two acidic radical qualitatively from given inorganic salt mixture - 2.		
	36		Practical 17: Detection of two basic radical qualitatively from given inorganic salt mixture - 2.		
Dec	37	11	Alcohols, Phenol and Ethers	234-253	
	38		Activity 6: What are the electronic effects exerted by $-\text{OCH}_3$ and $-\text{Cl}$? Predict the acid strength of $\text{H}_3\text{C}-\text{O}-\text{Ar}-\text{OH}$ and $\text{Cl}-\text{Ar}-\text{OH}$ relative to parent phenol $\text{Ar}-\text{OH}$.		
	39		Practical 18: Preparation of phthalic anhydride from phthalic acid.		
	40		Practical 19: Preparation of methylsalicylate.		
	41	12	Aldehydes, Ketones and Carboxylic acids	254-281	
	42	16	Green Chemistry and Nanochemistry	340-352	
	43		Practical 20: Preparation of succinic anhydride from succinic acid.		
44		Practical 21: Preparation of 100ml 0.1M standard solution of ferrous ammonium sulphate. (Mohr's salt)			
Jan	Prelim Exam I				
	Prelim Exam II				

Month	Sr. No.	Ls. No.	Topic	Pg. No.	Date of Completion
July	1	1	Mathematical Logic Practical No. 1	1-35	
	2		Activity 1:- Write the converse, inverse, contrapositive	15	
Aug	3	1	Differentiation Practical No. 1	1-64	
	4		Activity 2:- Derivatives of composite function	2	
	5	3	Trigonometric Functions Practical No. 3	65-111	
Unit Test I					
Sept	6	8	Binomial Distribution Practical No. 8	245-255	
	7	2	Matrices No. 2	Practical 36-64	
	8	3	Indefinite Integration Practical No. 3	95-150	
	9		Activity 3:- Theorem: The combined equation of a pair of lines passing through the origin is a homogeneous equation of degree two in x and y.	114	
Oct	10	4	Pair of Straight Lines No. 4	Practical 112-132	
	11	4	Definite Integration Practical No. 4	151-177	
	Sem End Exam I (Note : Syllabus of UT I is also included for SE I)				
Nov	12	5	Vectors No. 5	Practical 133-193	
	13	5	Application of Definite Integration Practical No. 5	178-190	
		6	Line and Plane No. 6	Practical 194-226	
			Activity 4:- Find the vector equation of the line passing through A(1,2,3) and B(2,3,4). Verify the position vector of B satisfies the above equation.	198	
Dec	6		Differential Equations Practical No. 6	191-218	
			Activity 5:- Identify the order and degree of the differential equation	191	
	7		Linear Programming Practical No. 7	226-245	
	7		Probability Distributions Practical No. 7	219-244	
	2		Applications of Derivatives Practical No. 2	65-94	
Jan	Prelim Exam I				
	Prelim Exam II				

Month	Sr. No.	Ls. No.	Topic	Pg. No.	Date of completion
June	1	1	Reproduction in Lower and Higher Plants	1-17	
July	2		Practical 1: Study of plasmolysis in epidermal peels		
	3		Practical 2: Study of structure and distribution of stomata on upper and lower surfaces of leaf.		
	4		Practical 3: Study of osmosis by potato osmoscope		
	5		Activity 1: Draw and label maize seed	13	
	6	6	Plant Water Relation	119-133	
	7		Practical 4: Study of pollen germination of leaf.		
	8		Practical 5: Study of soil samples at least from two different localities/sites with respect to their texture and pH and correlate plants found there of.		
Aug	9		Practical 6: Study of suspended particular matter in air at the two widely different sites, in your area.		
	10	9	Control and Co-ordination	182-220	
	11		Practical 7: To study water samples collected from different water bodies for their pH, clarity and presence of living organisms (microscopic/ planktonic).		
	12		Practical 8: Study of population density and frequency of different plant population, by quadrat method.		
	13	5	Origin and Evolution of Life	94-118	
	14		Practical 19: Study the VS of anatropus ovule through a permanent slide / relevant chart.		
	15		Practical 20: Study of TS testis, TS ovary and VS of blastula, through permanent slide.		
16		Practical 21: Study of flowers adapted to pollination by different pollinating agencies (Wind and insects)			
17	10	Human Health and Disease	221-245		
Unit Test I					
Sept	18		Practical 10: Disect and display floral whorls. Dissect anther and take T.S. or V.S. of ovary to show pollen grains and locules of ovary,		
	19		Activity 2: Consider given m - RNA strand which has undergone mutation and lost nucleotides A, C and G sequentially. Resultant m RNA is represented by 1, 2 and 3. With the help of checker board of amino acids, explain the changes in amino acid sequence that will occur due to such mutation.	82	
	20	2	Reproduction in Lower and Higher Animals	18-48	
	21		Practical 11: To study wing shape and eye color in Drosophila.		
	22		Practical 12: To examine the presence or absence of Barr body in the given sample.		
	23	8	Respiration and Circulation	153-181	
	24		Practical 13: To study various syndromes and their karyotypes in human beings.		
	25		Practical 14: Detection of commonly used adulterants in milk.		
	26		Practical 15: To detect the presence of starch, added as an adulterant to the milk.		
27		Activity 3: Draw and label posterior and anterior view: External structure of human heart	169		

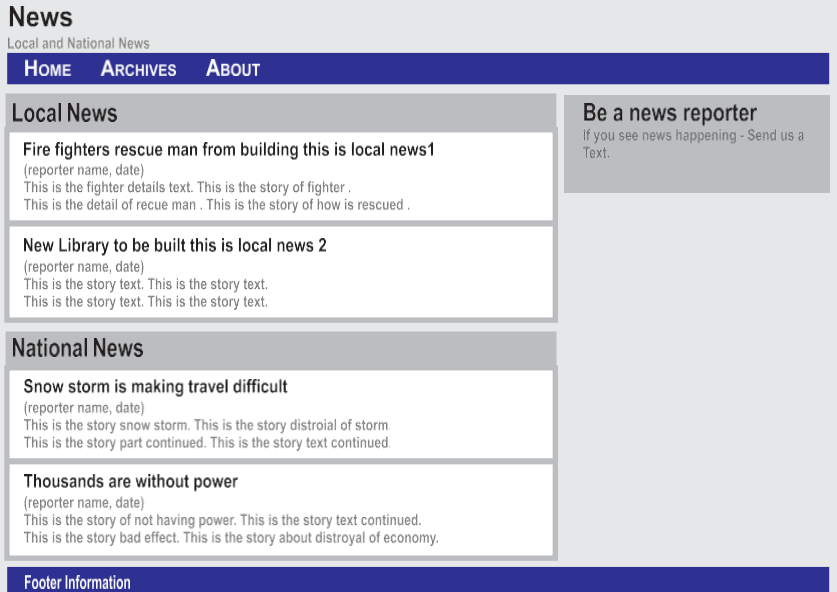
Oct	28	3	Inheritance and Variation	49-69	
	29		Activity 4: Draw and label life cycle of Entameoba histolytica and explain it.	230	
	30		Practical 16: Comparative study of rates of transpiration in the upper and lower surfaces of leaf, using four-leaf experiments.		
	31		Practicals 17: Separation of plant pigments by paper chromatography		
	32		Practical 18: Study of imbibition by using dried seed/ rasins.		
Sem End Exam I					
(Note : Syllabus of UT I is also included for SE I)					
Nov	33	4	Molecular Basis of Inheritance	70-93	
	34		Practical 9: Isolation of DNA from given sample.		
	35	7	Plant growth and Mineral Nutrition	134-152	
	36		Practical 22: Study of plants found in xerophytic and aquatic conditions, & comment on their adaptations.		
	37		Practical 23: Demonstration of hybridisation technique.		
	38		Practical 24: Study of meiosis in onion flower bud with the help of permanent slide.		
	39	12	Biotechnology	272-292	
	40		Practical 25: To study the prepared pedigree chart of genetic traits such as rolling of tongue, widow's peak, blood groups and color blindness.		
	41		Activity 5: Find out the biological source of following restriction enzymes and discuss their recognition sequences; Pst I, Sal I, Taq I, Xer III, Mbo II, Hpa I, BgII, Kpn I, Not I.	275	
	42		Practical 26: Study of morphological adaptations of animals, found in xeric and aquatic conditions.		
Dec	43	11	Enhancement of Food Production	246-271	
	44		Practical 27: To identify common diseases causing organisms like plasmodium, entameoba, ascaris and ring worm with the help of permanent slides or specimens. Comment on symptoms of diseases that they cause.		
	45		Activity 6: Draw and label Life cycle of lac insect and explain it.	258	
	46	13	Organisms and Populations	293-307	
	47	14	Ecosystem and Energy Flow	308-320	
	48		Practical 28: Study of structure or parts of human eye, ear and brain with the help of models or chart.		
	49		Practical 29: Observe the prepared slide of blood smear to identify different types of blood cell.		
	50	15	Biodiversity, Conservation and Environmental Issues	321-342	
51		Activity 7: Draw and label structure of human ear and explain its functioning.	205		
Jan	Prelim Exam I				
	Prelim Exam II				

Month	Sr. No.	Ls. No.	Topic	Pg. No.	Date of Completion
June	1	1	Operating System - Paper I	1-32	
	2	1	Practical 1: Write a program which will use binary search technique.		
	3	2	Practical 2: Write an assembly language program for addition.		
	4	1	Activity 1: Draw memory map of single user computer.		
July	5	2	Data structure - Paper I	33-50	
	6	2	Activity 2: Explain how algebraic expressions are represented by binary tree.		
Aug	7	5	Introduction to Microprocessors and Organisation of 8085-Paper II	183-198	
	8	3	Practical 3: Write an assembly language program for subtraction		
Unit Test I					
Sept	9	3	Activity 3: Draw and label block diagram of Generic Microprocessor.		
	10	6	Instruction set and Programming of 8085-Paper II	199-258	
	11	4	Activity 4: Describe the general format of Assembly language programs.		
Oct	12	7	Introduction to Intel X-86 family -Paper II	259-264	
	13	4	Practical 4: Write a program to implementing a circle class.		
	14	5	Activity 5: Draw a programming model for X-86 family of advanced Microprocessors.		
	Sem End Exam I (Note : Syllabus of UT I is also included for SE I)				
Nov	15	3	C++- Paper I	51-144	
	16	8	Introduction to microcontroller -Paper II	265-272	
	17	5	Practical 5: Write a program by using function of swapping in C++		
	18	6	Practical 6: Write a program in C++ for ratio and reciprocal.		
	19	7	Practical 7: Write a program in C++ that initializes a ratio class with no parameters.		
	20	6	Activity 6: Write an object oriented program to perform trigonometric operations on complex numbers.		
Dec	21	4	HTML- Paper I	147-180	
	22	8	Practical 8: Write an HTML code to show different types in simple website		
	23	9	Practical 9: Write a program in C++ with a complex constructor to add the given two complex numbers.		
	24	10	Practical 10: Write a program in C++ to implement the addition and division operator for ratio class		
	25	7	Activity 7: Write HTML code for a web page for displaying information of company.		
	26	9	Networking technology -Paper II	273-298	
	27	11	Practical 11: Write a program in C++ using virtual function.		
	28	12	Practical 12: Write a program in C++ to implement class hierarchy		
	29	8	Activity 8: Explain what is access method? Explain three type of media access methods.		
Jan	Prelim Exam I				
	Prelim Exam II				

Month	Sr. No.	Ls. No.	Topic	Pg. No.	Date of Completion
June	1	1	Instruments - Paper I	1-23	
July	2	2	Power supplies - Paper I	24-50	
	3	1	Number System, Codes and Binary Arithmetic - Paper II	165-183	
Aug	4	1	Practical 1: Use of CRO frequency and phase measurement to calculate the frequency of input signal , determine the phase using internal time base & determine the phase using Lissajous figure.		
	5		Activity1: Draw the Block diagram of CRO		
	6	2	Logic Gates -Paper II	184-209	
Unit Test I					
Sept	7	2	Practical 2: To study the Operation of inverting Operation Amplifier using IC741.		
	8	3	Practical 3: To study the Operation of non- inverting Operational Amplifier using IC741		
	9		Activity2: Make chart of all LOGIC gates with their table		
	10	3	Transducers - Paper I	51-67	
	11	4	Practical 4: To Study the Operation of adder using Operational Amplifier IC741		
	12	5	Practical 5: To study the operational of subtractor using Operational Amplifier IC741		
	13		Activity 3: Draw the block diagram of IC741 (Explain the function of each Pins)		
Oct	14	3	Logic Families and IC Specifications -Paper II	210-224	
	15	6	Practical 6 : To study the operation of buffer using Operational Amplifier IC741		
	16	7	Practical 7: To identify given IC's and to verify the truth table for each type of logic gate.		
	17		Activity 4: Write a characteristics of digital IC.		
	18	6	Study of Integrated Circuits - Paper I	148-161	
Sem End Exam I					
(Note : Syllabus of UT I is also included for SE I)					
Nov	19	4	Operational Amplifier - Paper I	67-97	
	20	4	Multiplexer - Demultiplexers, Encoders and Decoders -Paper II	225-240	
	21	5	Flip-Flops, Registers and Counters - Paper II	241-268	
	22	8	Practical 8: Verify De-morgans theorem (I&II) & construct the basic gates using NAND & NOR gates.		
	23	9	Practical 9: To draw logic diagram for given boolean equation, simplify given logic equation and draw the diagram, construct the logic circuit & test it.		
	24		Activity 5: Draw the block diagram of (Multiplexer - Demultiplexers, Encoders and Decoders)		
	25	5	Modern Electronic Communications- Paper I	98-147	
	26	6	Analog to Digital and Digital to Analog Converters - Paper II		
	27	10	Practical 10: To construct R-S flip-flop using NOR gates & verify its truth table & construct R-S flip- flop using NAND gates & verify its truth table .		

Dec	28	11	Practical 11: To construct half adder using logic gates and test the circuit.		
	29		Activity 6: Explain three types of modern communication system		
	30	7	Computer Fundamentals -Paper II	284-299	
	31	12	Practical12: To construct full- adder using logic gates and test the circuit.		
	32		Activity 7: Draw the block diagram of Magnetic Tape		
Jan	Prelim Exam I				
	Prelim Exam II				

Month	Sr. No.	Ls. No.	Topic	Pg. No.	Date of Completion				
June	1	1	Advanced Web Designing	1-26					
July	2		Activity-1: 1. Use multiple attribute in <input> 2. Use pattern attribute in <input> and see the Output.						
	3		Activity-2: Find syntax of do.....while () loop and difference between while () and do... while () loop.						
	4		Practical-2: Create a webpage using HTML and CSS code to design a web page as the layout displayed below. The top section will display the heading, 'Tourist places' in header. The section on the left has list of cities. The right hand side display tourist places in any one of the city. Use Inline style sheet in the top section to display background colour for the text 'Tourist places'. Use internal stylesheet for the left and right section with background colours and font styles. <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th colspan="2" style="background-color: #ADD8E6;">Tourist places</th> </tr> </thead> <tbody> <tr> <td style="background-color: #FFFF00;"> City 1. Pune 2. Banglore 3. Hyderabad 4. Delhi </td> <td style="background-color: #FFC0CB;"> Tourist places in Pune • Shaniwarwada • Kelkar Museum • Sinhgad fort </td> </tr> </tbody> </table> (IT Lab)	Tourist places		City 1. Pune 2. Banglore 3. Hyderabad 4. Delhi	Tourist places in Pune • Shaniwarwada • Kelkar Museum • Sinhgad fort		
	Tourist places								
	City 1. Pune 2. Banglore 3. Hyderabad 4. Delhi	Tourist places in Pune • Shaniwarwada • Kelkar Museum • Sinhgad fort							
	5		Practical-3: Create a webpage using HTML and CSS code to design a webpage as follows – The first webpage will accept the name of the traveller, Date of travel, telephone number. It also has submitted button as an image. The second webpage has information about the name of transporter, time, seat no and destination displayed one below the other in the form of unordered list as Name of transporter – Air Asia Seat no – B39 Destination – Delhi Both pages should be interlinked. Create external stylesheet with relevant tags. (Homework)						
6		Practical-4: Creation of website using HTML 5 and CSS. • Create a webpage as given layout use <nav>, <header>, <footer>, <aside>, <article> with CSS.							



(Homework)

7

Practical-5: Use of Audio on web pages using html5.

- Create a webpage named audio.html to set an audio file in web page with controls such that it uses html 5 elements. The audio file must play as soon as the webpage loads in browser and it will start over again, every time when it is completed
- Create another webpage named audio1.html which provides multiple sourcefile formats for the same audio file that plays a sound with controls. The browser should display the message with appropriate attribute when audio tag is not supported by browser. The code must incorporate the list of soundfiles formats (like wav, MP3 or ogg etc). **(IT Lab)**

8

Practical-6: Use of video on web pages using HTML5.

- Create a webpage named video.html to display a video file on web page and plays automatically. The dimension of video area should be 150* 150 pixels.
- Create another webpage which provide multiple source file formats for the same video file that plays a video with controls. The dimension of video area should be 300* 300 pixels. The browser should display the message with appropriate attribute when video tag is not supported by browser. The code must incorporate the list of video files formats (like webM, MP4 or ogg etc). **(IT lab)**

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Practical-7: Navigation on an image using Client side image Mapping in web page using html 5.

- Create a webpage named imagemap. html with an inserted image having jpeg, png or gif extension. Create 3 different shapes (like rectangle, circle and polygon) which do not

			overlap. Note down the co-ordinates making use of Ms-Paint/GIMP/IrfanView/Pinta. Each shape should be mapped or navigate with a different URL that should navigate to a local webpage. (Homework)		
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Aug	10	2	Introduction to SEO (Search Engine Optimization)	27-34	
	11		<p>Practical-8: Use of SEO methodology to improvise the website.</p> <ul style="list-style-type: none"> ➤ Select a website. ➤ Use an appropriate SEO software and list out the page optimization requirements. ➤ Write down at least 4 suggestions to optimize the web pages. ➤ Write importance of SEO. <div style="border: 1px solid black; padding: 10px; margin: 10px 0;"> <p style="text-align: center;">ON-PAGE SEO VS. OFF-PAGE SEO</p> </div>		

Unit Test I

Sept	12	3	Advanced JavaScript	35-52	
	13		<p>Activity-1:</p> <ol style="list-style-type: none"> 1. Write JavaScript program to display status "Hi this is status property" in status bar of window. 2. Write JavaScript program to set three different background color to webpage on Click, on Mouse move and on Mouse over events of buttonobject. 		
	14		<p>Activity-2: Write event driven JavaScript program to take number as user input and find its square root and cube root.</p>		

15		<p>Activity-3:</p> <ol style="list-style-type: none"> 1. Find more Math object methods useful for trigonometric functions. 2. Write JavaScript Program to create simple calculator using JavaScript Mathobject. 		
16		<p>Practical -9: Create a web page in HTML having a white background and one Button Object. Write code using JavaScript such that when the mouse is placed over the first button object without clicking, the color of the background of the page should change after every seconds. There should at least be 7 different and visibly distinct background colors excluding the default color.</p> <p>Create another web page using JavaScript where the background colorchanges automatically after every second. This event must be triggeredautomatically after the page gets loaded in the browser. There should at least be 7 different and visibly distinct background colors.</p>		
17		<p>Practical-10: Create JavaScript program for the following form validations. Makeuse of HTML5 properties to do the following validations:</p> <ol style="list-style-type: none"> 1) Name, address, contact number and email are required fields of theform. 2) Address field should show the hint value which will disappear whenfield gets focus or key press event. 3) Telephone number should be maximum 10 digit number only. 4) Email field should contain valid email address, @ should appear only once and not at the beginning or at end. It must contain at least one dot(.). 5) Make use of pattern attribute for email to accept lowercase, uppercase alphabets, digits and specified symbols. <div data-bbox="534 1371 1066 1675" data-label="Form"> <pre> Information Form Your Name: <input type="text"/> Address: <input type="text" value="permenant address"/> Contact: <input type="text"/> E-mail: <input type="text"/> <input type="submit" value="Submit"/> </pre> </div>		
18		<p>Practical-11: Create event driven JavaScript program for the following. Make use of appropriate variables, JavaScript inbuilt string functions and control structures.</p> <p>➤ To accept string from user and count number of vowels in the given string.</p>		

	19		<p>Practical-12: Create event driven JavaScript program for the following. Make use of appropriate variables, JavaScript inbuilt string functions and control structures.</p> <p>➤ To accept string from user and reverse the given string and check whether it is palindrome or not.</p>														
	20		<p>Practical-13: Create event driven JavaScript program to convert temperature to andfrom Celsius, Fahrenheit.</p> <p>Formula: $c/5 = (f-32)/9$</p> <p>[where c=Temperature in Celsius and f=Temperature in Fahrenheit.]Output format : 40 Celsius=104 Fahrenheit 45 Fahrenheit = 7.22222222 Celsius</p>														
	21		<p>Practical-14: Create JavaScript program which compute the average marks of students. Accept six subject marks of student from user. Calculateaverage marks of student which is used to determine the correspondinggrades.</p> <table style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th style="text-align: center;">Range</th> <th style="text-align: center;">Grade</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">35 to 60</td> <td style="text-align: center;">F</td> </tr> <tr> <td style="text-align: center;">61 to 70</td> <td style="text-align: center;">D</td> </tr> <tr> <td style="text-align: center;">71 to 80</td> <td style="text-align: center;">C</td> </tr> <tr> <td style="text-align: center;">81 to 90</td> <td style="text-align: center;">B</td> </tr> <tr> <td style="text-align: center;">91 to 100</td> <td style="text-align: center;">A</td> </tr> </tbody> </table>	Range	Grade	35 to 60	F	61 to 70	D	71 to 80	C	81 to 90	B	91 to 100	A		
Range	Grade																
35 to 60	F																
61 to 70	D																
71 to 80	C																
81 to 90	B																
91 to 100	A																
	22		<p>Practical-15: Write a JavaScript function to get difference between two dates in days. Create a page in HTML that contains input box to accept date from user. The input boxes should be used by users to enter their date of birthin the format dd-mm-yyyy. Do not make use of any dropdown boxes.</p> <p>Example :</p> <pre>date_diff_indays ('04/02/2019', '11/04/2019'); date_diff_indays ('01/01/2020', '31/01/2019');</pre>														
Oct	23	4	Emerging Technologies (IOT, Cloud computing, AI, 5G)	53-58													
	24		Activity-1: Find example of Paas														
	25		Activity-2: Find out various technologies used in smart cities														
<p>Sem End Exam I (Note : Syllabus of UT I is also included for SE I)</p>																	

Nov	26	5	Server-Side Scripting (PHP)	59-78	
	27		Practical-16: Write a PHP program to check if a person is eligible to vote or not. The program should include the following- <ul style="list-style-type: none"> ➤ Minimum age required for vote is 18. ➤ Use PHP functions. ➤ Use Decision making statement. 		
	28		Practical-17: Write a PHP function to count the total number of vowels (a,e,i,o,u) from the string. Accept a string by using HTML form.		
	29		Practical-18: Write a PHP program to perform the following operations on anassociative array. <ul style="list-style-type: none"> ➤ Display elements of an array along with their keys. ➤ Display the size of an array. ➤ Delete an element from an array from the given index 		
	30		Practical-19: Write a PHP program to save marks of English, Hindi, Marathi, Maths and Information Technology in an array. Display marks of individual subject along with total marks and percentage.	71-81	
	31		Practical-20: Write a PHP program to save marks of English, Hindi, Marathi, Maths and information technology in an array for 5 students and display totalsmarks and percentage of each students using ‘for each’.		
	32		Practical-21: Write a program using PHP to calculate Electricity bill by accepting thelimits. <ul style="list-style-type: none"> ➤ For first 100 units - Rs. 4 ➤ For next 100 units - Rs. 5 ➤ For next all units - Rs. 6 	82-98	
	33		Practical-22: Write a PHP Program to insert a roll number and student name in a database (use PostgreSQL data to create database). Accept roll number and name from the user.		
	Dec	34	6	E-Commerce and E-Governance	79-90
35			Activity-1: Visit Maharashtra Government website, view various Government Resolutions (GR)and observe the digital signature of various authorities.		
Jan	Prelim Exams I				
	Prelim Exams II				

Grade : 12

Subject: Environment Education and Water Security

Month	Sr. No.	Ls. No.	Topic	Pg. No.	Date of completion
July	1	1	Humans And Environment	1 - 13	
	2		Project 1: Write down the any three eco friendly practices that you can follow in your day-to-day life.		
August	3	2	Environment Pollution	14 - 32	
	4		Project 2: Write down plastic recycling rules and E-waste recycling rules.		
<i>Unit Test I</i>					
Oct	5	3	Sustainable Development	33-42	
	6		Project 3: Write success story of Ralegaon Siddhi with respect to sustainable development Goals.		
	7	4	Practices for Environmental protection	43 - 54	
	8		Project 4: Write report on Green audit of Maharashtra.		
Sem End Exam I					
(Note : Syllabus of UT I is also included for SE I)					
Nov	9	5	Water Security	55 - 66	
	10		Project 5: Write a report on water contamination and explain any three sources that cause water pollution.		
Dec	11		Project 6: Noise and radiation pollution – Sources and consequence.		
	12		Project Submission		
Jan	Prelim Exam I				
	Prelim Exam II				

Month	Sr. No.	Ls. No.	Topic	Pg. No.	Date of completion
July	1	1	Physical Fitness	1-6	
	2		Project 1: Write report on importance of fitness for healthy life.		
August	3	2	Exercise- Scientific view	7-12	
	4		Project 2: Write the benefits of regular exercise.		
Sept	5	3	Study of Yoga	13-21	
	6		Project 3: Write information about one standing and one sitting asana mentioned in the text book.		
	Unit Test I				
	7	4	Diet	22-28	
Oct	8		Project 4: Prepare chart of Food Pyramid		
	9	5	Active Lifestyle	29 - 35	
	10		Project 5: Explain the qualities which are important to inculcate active lifestyle.		
	Sem End Exam I (Note : Syllabus of UT I is also included for SE I)				
Nov	11	6	Motivational Stories	36 - 42	
	12		Project 6: Write a report on Cricket career of Master Blaster Sachin Tendulkar		
Dec	13	7	Sports Award	43 -51	
	14		Project 7: Make a chart on various awards given in sports at National Level.		
	15		Practical exam		
Jan	Prelim Exam I				
	Prelim Exam II				

Month	Sr. No.	Ls. No.	Topic	Pg. No.	Date of Completion
Section I					
June	1	1	Introduction of Indian society	1 - 22	
	2		Activity 1 - Find out about the Eight-Fold Path of Buddhism. Write a report on it in 100 - 150 words.		
	3		Activity 2 - Find out more about the impact of Muslim rule on the following : Painting, Architecture, Music. Write a report on it in 100 - 120 words.		
July	4	2	Segments of Indian Society	23 - 42	
	5		Activity 3 - Find out about any tribal scheme started by the government or an NGO. Write a report on it in 150 - 200 words.		
	6		Activity 4 - Discussion on ' The impact of caste on Indian society has reduced today'. Write a report on it in 150 - 200 words.		
Aug	7	3	Diversity and Unity in Indian Society	43 - 58	
	8		Activity 5 - There have been protests regarding The Transgender Persons (Protection of Rights) Act, 2019. Find out more about this and hold a class discussion. Write a report on it in 150 - 200 words.		
	9		Activity 6 - Group discussion on : 'Measures to promote National Unity.' Write a report on it in 150 - 200 words.		
Unit Test I					
Sep	10	4	Processes of Social Changes in India	59 - 67	
	11		Activity 7 - Identify any four cities and study data about their industrial growth. Present your findings to your class and follow it with a discussion and Write a report on it in 150 - 200 words.		
	12		Activity 8 - Conduct a 2-minute extempore speech competition in class on the topic: 'Modernisation may be perceived as a challenge in a traditional society.' Write a report on it in 150 - 200 words.		
Oct	13	5	Social Movements in India	68 - 81	
	14		Activity 9 -Collect newspaper and journal report on farmer suicides in the past year. Display this information on your class bulletin board. Write a report on it in 100 - 120 words.		
	15		Activity 10 - (A) Have you heard of Greta Thunberg? Discuss the effect of her activism. (B) View the film 'Lakir ke is Taraf' by Shilpa Ballal. Then have a class discussion. Write a report on it in 150 - 200 words.		
Sem End Exam I (Note : Syllabus of UT I is also included for SE I)					
Nov	16	6	Social Problems in India	82 - 103	
	17		Activity 11 - Find out information about the 'Bel Bajao Andolan'. Then, enact a small skit in your class. Write a report on it in 100 - 120 words.		
	18		Activity 12 - Class Discussion on 'The Impact of Internet Addiction and Mobile Addiction on human Life. Write a report on it in 100 - 120 words.		
Section II					
Dec	19		Passages	104-107	
	20		Revision		
Jan	Prelim Exam I				
	Prelim Exam II				