



ACADEMIC PLAN

FOR SENIORSECONDARY STAGE

(CLASS XI & XII)



SESSION 2021-22

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KENDRIYA VIDYALAYA SANGATHAN, RAIPUR REGION

ACADEMIC PLAN OUR PATRONS



Ms. Chandana Mandal, Deputy Commissioner, KVS RO, Raipur



Mrs. Biraja Mishra, Assistant Commissioner , KVS RO, Raipur



Mr. A. K. Mishra, Assistant Commissioner, KVS RO, Raipur

CO-ORDINATION TEAM



Mr. Bhoop Singh, Principal, KV Kanker

CONTENT TEAM

1.	English	Ms.K.Parameswari PGT (English) KV Kanker
2.	Hindi	Shri.D.C.Kaushik PGT (Hindi) KV Kanker
3	Physics	Smt. Sunita Kirbat PGT (Physics) KV BMY Bhilai
4	Chemistry	Shri. Wasim Khan PGT (Chemistry) KV Dongargarh
5	Biology	Smt.Geetu PGT (Biology) KV CISF Bhilai
6	Mathematics	Shri.U.K.Kurrey PGT (Maths) KV No.1 Raipur
7	Computer Science	Shri. NandkishorVasnik PGT (CS) KV Kanker
8	Informatics Practice	Shri.RajuDixit PGT (CS) KV Manendragarh
9	Business Studies	Shri. Arvind Kumar Maurya PGT Commerce KV NO. 2 NTPC KORBA
10	Accountancy	Shri.G.SrivastavPGT (Commerce) KV No.1 Raipur
11	Economics	Shri.Pradeep Kumar PGT (Economics)
12	History	Compiled
13	Geography	Shri. Abhay Kumar Vishwakarma PGT (Geography)

EDITING &COMPILATION TEAM

Mr. Rahul Dev, Principal Gr- II, KV Saraipali

Message



It's a matter of great pride that Kendriya Vidyalaya Sangathan, Raipur Region is entrusted with an opportunity to prepare an Academic Plan for the four phases of NEP 2020 which needs to be adopted from this academic year 2021-22.

With the pandemic still hovering and the recent reports suggesting that the young population is more vulnerable group in the third wave, physical presence of students in the Vidyalaya during the ensuing session 2021-22 seems a distant possibility. Hence, in order to ensure seamless academic transaction during the current session 2021-22, this action-plan will definitely help to focus on overall well-being of the students, Pedagogical requirements as per NEP, specially FLN, Outcome Based Learning, Self - Regulated Learning, Varied forms of Learner Engagement and assessment, Multi - Disciplinary Learning etc.


I extent my best wishes to all the stakeholders who would be involved in this awe-inspiring task of preparation of Annual Plan & ensuring it reaches to the grass root level, creating adequate awareness, motivation & competencies, & thereby based on our strengths and experience of online teaching will ensure new ways of teaching-learning and assessment in tune with the guiding pillars of NEP i.e. Access, Equity, Quality, Affordability & Accountability.

**Ms. Chandana Mandal,
Deputy Commissioner,
KVS Regional Office, Raipur**

TABLE OF CONTENTS

S. No.	Class XI		CLASS XII	
	Subject (Click the subject name to directly reach the Academic plan of concerned subject.)	Page Number	Subject (Click the subject name to directly reach the Academic plan of concerned subject.)	Page Number
1	ENGLISH	07-22	ENGLISH	171-194
2	HINDI	23-37	HINDI	195-211
3	PHYSICS	38-50	PHYSICS	212-225
4	CHEMISTRY	51-62	CHEMISTRY	226-238
5	BIOLOGY	63-79	BIOLOGY	239-256
6	MATHS	80-91	MATHS	257-265
7	IP	92-105	IP	266-282
8	COMPUTER SCI.	106-122	COMPUTER SCI.	283-301
9	BUSINESS STUDIES	123-132	BUSINESS STUDIES	302-314
10	ACCOUNTANCY	133-144	ACCOUNTANCY	315-327
11	ECONOMICS	145-155	ECONOMICS	328-334
12	HISTORY	156	HISTORY	335-337
13	GEOGRAPHY	157-169	GEOGRAPHY	338-352

CLASS - XI

 KENDRIYA VIDYALAYA SANGATHAN RAIPUR REGION SENIOR SECONDARY ACADEMIC PLANNING- 2021-2022 CLASS XI Split up of Syllabus SUBJECT :English Core						
Month / No of Working Days	pr	Name of the Unit / Chapter/Topic	Learning Outcomes	Suggested Activities/ Projects under Internal Assessment	Assignment	Assessment (Assessment as learning)/ Important links https://kparama.blogspot.com/
July 2021 No of Working Days -22	4	LI. The Portrait of a Lady	To understand old people, imbibe qualities which are admirable. To know the importance of people in their old age and realise to take care.	Discuss on grandparents, old age homes. Write the qualities that you admire in your grandparents or any old person whom you know. Debate on “Are old age homes necessary?”(Debate Writing)	1. MCQ questions based on the text. 2. Five Short answer questions (30-40 words) 3. Two long answer questions.(100-120 words) Google forms for objective type questions .	To assess the understanding of the text.
	2	P1. A Photograph	To read and appreciate the poem. To admire the qualities of one’s parents.	Write a brief report on the memories of the poet on her mother. DO you have any such instances ? Recollect and write .(Narrative description.		
	4	L2. We’re Not Afraid to Die...	To analyse the difficulties the sailor and his family members face . To understand that unity and togetherness is strength.	Discuss on the confidence of the writer and his family members & the crew in their surviving skills at the time of distress. Write a report as witnessed by you of the writer in surviving the Wave hit.(Report Writing)		
	2	P2. The Laburnum Top	To read and enjoy the poem. To understand and analyse how the little bird is giving energy for the tree.	Write a poem within the same lines on any of the natural bird watching incident.(or any animal).(Creative writing) Discuss on the tree & bird .Why has the poet admired the actions of the Gold finch?		

	2	L1. The Summer of the Beautiful White Horse	To read and enjoy the story . To know that honesty and truth always triumphs. To be patriotic in essential.	Discuss on the boys adventure with the horse. The belief on the Garagolian tribe. The pains of Uncle Khusrove and their tribe of losing their own land. (Speaking Skill)		
	2	R1. Reading Comprehension(How to solve any RC)	To read and comprehend the unseen passage and identify the answers in MCQ.	Reading comprehension based on any moral story .	Reading Skills	MCQ – 10 question based on the passage .
	2	L2. The Address	To develop humanitarian feelings in all situations	Discuss on the narrator’s view of forgetting the address. Write a letter informing your close friend on the actions of Mrs.S .(Letter Writing)	1.MCQ questions based on the text. 2.Five Short answer questions (30-40 words) 3. Two long answer questions.(100-120 words)	To assess the understanding of the text.
	3	R2. Note- Making & Summarising)	To read and make notes of the unseen passage. To make summary based on the notes written.	Make notes on the passage given and write a summary in 80 words.	Reading Skills	To understand the passage and jot down the points& Prepare the summary.(5 +3)8 Marks
ASL practice to be incorporated in all the classes. Writing Skill practice to be an extended activity of every lesson.						
August 2021 No of Working Days -22	4	L3. DiscoveringTut: The Saga Continues	Analyse the fact of history , archaeology and medical science in the field of Archaeology science. To find out the early death of King Tut.	Discuss on the intervention of Medical sciences in finding out the mystery of King Tut’s death.	1.MCQ questions based on the text. 2.Five Short answer questions (30-40 words) 3. Two long answer questions.(To assess the understanding of the text.

2	P3. The Voice of Rain	Read and appreciate nature .	Write the poetic verses in the water Cycle chart.	100-120 words)	
4	WS 3. Advertisement (social/general/commercial)	To draft and advertisement in case of lost or found properties or sale or purchase of any items.	Draft Advertisements for Sale of House, Missing of articles, Found articles, Sale of Vehicle	Writing Skill	To assess the writing Skill of the Student. Short Composition
2	L4. Landscape of the Soul	Appreciates and enhance the skills of art.	Draw any scenery and describe the scenes as you had walked through.	1.MCQ questions based on the text. 2.Five Short answer questions (30-40 words) 3. Two long answer questions.(100-120 words)	To assess the understanding of the text.
3	L3. Ranga's Marriage	Analyses the reality of life. Appreciates one's own village or home town specialities.	Discuss on the specialities of their own village, on astrologer's prediction, reality of life.		
3	WS 4.Letter writing Business letter - placing order& registering complaints	To express the requirement of books in a letter placing order. To express the complaint regarding default in new television purchased	Write a letter to the Manager of Arya Book Depot to deliver the list of books you require for the school library. Write a letter of complaint to the Manager asking him for immediate repair/replacement of newly purchased television	Writing Skill	To assess the writing Skill of the Student. Long Composition
2	G2.Tense	To write sentences correctly. (Use of verbs)	Fill in the blanks with the appropriate words given.	Grammar Exercise	To assess the grammatical skill.

	1	G 3 Modals	To write sentences using modal or auxiliary verbs.	Fill in the blanks with the appropriate modals given in the option.(MCQ)	Grammar Exercise	To assess the grammatical skill.
	1	Periodic Test -1	To assess the understanding of the above lesson and writing skills taught.	50 marks (Reading 10, Writing 10, Literature 30) Part A 2-5 Marks and Part B- 25 Marks		
September 2021 No of Working Days - 22	3	L5. The Ailing Planet	To analyse the problems faced by people due to over population. On the four biological principals that is getting affected.	Discuss on the substantiate development that is required for keeping the earth safe for future.	1.MCQ questions based on the text. 2.Five Short answer questions (30-40 words) 3. Two long answer questions.(100-120 words)	To assess the understanding of the text.
	3	P4.Childhood	To read and appreciate the poem. To understand childhood & adulthood.	Write a poem on your realisation of losing your childhood.		
	3	L4. Albert Einstein at School	To analyse Education for people .	Discuss on the life and Education of Albert Einstein.		
	2	WS 4.Letter writing Business letter – making enquiries, asking or giving information & sending replies	To express the enquiry about the course course. To express the views and able to reply for the asked query.	You wish to do Spanish learning course from the institute 'Learn a Language'. Write a letter to enquire about course details. Your cousin Priyanka is just completing X standard and has sought your advice to opt for science or commerce group. Write a letter giving guidance to select the group in XI.	Writing Skill	To assess the writing Skill of the Student. Long Composition

	5	L5. Mother's Day	To understand one's mother's sacrifice.	Discuss on each member's duty and work load at home. How has Mrs.Pearson made everyone understand mother's role in a family.	1.MCQ questions based on the text. 2.Five Short answer questions (30-40 words) 3. Two long answer questions.(100-120 words)	To assess the understanding of the text.
	2	Designing or drafting posters	To express any issue through pictures, slogans in a simple and far reachable manner.	Draft a poster to create an awareness among the people to wear mask properly, vaccination is for one's own protection.	Writing Skill	To assess the writing Skill of the Student. Short Composition
	2	(a)Application for job	To express one's own requirement and write the resume for a job requirement.	Write a job application with the resume for the post of an accountant.	Writing Skill	To assess the writing Skill of the Student. Long Composition
	2	(b) Letter- School authorities	T express the requirement through a letter representation.	Write an application requesting three days leave.(give valid reason)	Writing Skill	To assess the writing Skill of the Student. Long Composition
	1	Article& Report (150-200 words)-	To write an article representing the facts in a judicious manner. To write and recording the important events that occur in our day-to-day life	Write an article highlighting the importance of vaccination. Recently your school held a Seminar on Conservation of Water as a part of World Water Day celebrations. As the School Pupil Leader write a report	Writing Skill	To assess the writing Skill of the Student. Long Composition
October 2021	4	L6. The Browning Version	To understand their teachers better.	Discuss on the characteristics of both the teachers.	1.MCQ questions based on the text. 2.Five Short answer questions (30-40 words) 3. Two long answer questions.(100-120 words)	To assess the understanding of the text.
No of working days- 16	4	L6. The Ghat of the Only World	To understand the emotional feelings of the narrator .	Discuss how such ailing patients can be treated emotionally.		

	1	Advertisement ,poster, notice- Practice	To revise the short composition .	One question each is given for practice.	Writing Skill	To assess the writing Skill of the Student. Short Composition
	2	Letter writing : Letter to Editor :-	To express a national concern at large through the Letter to the Editor.	Discuss and write a letter to the Editor on the issue of people not ready to vaccinate .	Writing Skill	To assess the writing Skill of the Student. Long Composition
	2	Writing:- Speech	To express the topic to the listening audience in a most appropriate manner.	Discuss and write a speech on Yoga and exercise should be the part of everyone’s life.	Writing Skill	To assess the writing Skill of the Student. Long Composition
	2	Debate writing	To express the ideas of supporting motion in a strong manner.	Discuss and write the debate on the topic that “space stations are harmful for us”.	Writing Skill	To assess the writing Skill of the Student. Long Composition
	1	G4: Change of voice	To write the sentences properly by using changing the voice.	Fill in the blanks by choosing the appropriate answer.(MCQ)	Grammar Exercise	To assess the grammatical skill.
November 2021 Half Yearly Exam 11	4	L7. The Adventure	To understand how mental imbalance can affect a person.	Discuss why and how Mr.Rajendra prasad or Gangadhar is facing issues. What is catastrophic theory?	1.MCQ questions based on the text. 2.Five Short answer questions (30-40 words) 3. Two long answer questions.(100-120 words)	To assess the understanding of the text.
	3	L7. Birth	To understand that a Doctor always is a human saver.	Discuss how theory and practical values help the Doctor in saving the child.		
	1	G 5 Clauses	To use clauses, relative clauses in sentences.	Fill in the blanks by choosing the right answer.(MCQ)	Grammar Exercise	To assess the grammatical skill.
	1	G :-Editing practice	To edit the passage without grammatical error.	Fill in the blanks by choosing the right answer.(MCQ)	Grammar Exercise	To assess the grammatical skill.
	1	Note making and summary writing	To revise and practice to write note making	Exercise given	Reading Skills	To understand the passage and jot down the points& Prepare the summary.(5 +3)8 Marks
	1	Reading comprehension –	To read and comprehend the unseen passage	Exercise given	Reading Skills	MCQ – 10 question based on the passage .

Decemb er 2021	4	L8.Silk Road	To read and enjoy the journey in the silk road. To be able to write a narrative description of one's own journey.	Discuss the journey of the narrator. Write a narrative description of any journey you had undertaken.	1.MCQ questions based on the text. 2.Five Short answer questions (30-40 words) 3. Two long answer questions.(100-120 words)	To assess the understanding of the text.
	2	P5. Father to Son	To read and understand one's parents' wishes and dreams and expectation.	Discuss parent's and child's outlook in a house. Try to recollect your experience and express your acceptance or regret on your action.		
	2	L8.The Tale of a Melon City	To rad and enjoy the satirical poem.	Discuss the importance of a leader- his efficiency important or not.		
	2	ASL			Tested in pairs	To assess Speaking and listening skill.
January 2022	16	Revision	To revise the concepts taught / learnt	Practice all the questions s per exam paper pattern.		
20 days		Periodic Test – 2	To assess learning	A per KVS & CBSE Syllabus .		
Februar y 2022	16	Revision	To revise the concepts taught / learnt	Practice all the questions s per exam paper pattern.		
		Practice exam	To assess learning	A per KVS & CBSE Syllabus .		

1. (a) Conduct of online classes

Sl no	Problem/challenges faced during the previous academic session (Subject Specific).	Action Plan to overcome those challenges during the current academic session.
1	Some children had issues with the mobile screen being small and clarity of the content other than ppt was difficult. Using jam board or note pad was not beneficial. Even ppt took few seconds to open and appear depending on the connectivity. Audio and video when shared was not to the expected outcome. So, in English support audio and videos couldn't be shared. This brought down the standard pronunciation familiarity in many cases.	All the lessons had been prepared with ppt with 24 size font. Pictures with clarity. The ppt is uploaded prior to the beginning of the class. Jam boards are used only during discussion classes. Audio and video links are provided in the classroom app itself so that children can listen and watch as per child's convenience.

2	Children had not upgraded the internet package or the connection they had was not sufficient to attend all the classes.	Children have been suggested to upgrade the plan and check with network which is feasible with proper connectivity.
3	Submission of classwork and home work took a heart throbbing task for the slow learners. So, the remedial work took a different shape in not getting the students as they used to become not reachable.	Students have been constantly guided to use certain application. Parents and students are called and personally guided and trained to use the scan application and uploading format. Not reachable students are reached through parents or friends and guided with patience
4	Correction of the submitted subjective work was time consuming depending on the file quality of children and of course the internet connectivity.	E correction is time taking. Teachers internet package has been upgraded with high speed so that work is done at ease within the allotted duration. Children have been advised to upload a single pdf file for a single assignment.
5	Assignments on google forms submission were not authentic as it was not known if the child had really done or someone else had dictated.	Assignment through interactive worksheets are given for them to learn at their own pace. The same assignments are to be written in their classwork , scan and upload to ensure the child's work and understanding.

**KENDRIYA VIDYALAYA, KANKER
e-lesson plan format : 2021-2022**

NAME OF VIDYALAYA	KV KANKER
DATE OF ONLINE CLASS	
TIME OF ONLINE CLASS	11.00 a.m to 11.40 a.m

NAME OF TEACHER	K.Parameswari
DESIGNATION	PGT(English)
CLASS & SECTION	XI
STUDENTS ON ROLL	47
SUBJECT	English
TOPIC	The Portrait of a Lady
SUB TOPIC	Character sketch of grandmother
ONLINE EDUCATIONAL PLATFORM	GOOGLE MEET
LINK	https://meet.google.com/lookup/bwpaglk5u5
Teaching Methodology/AIDS:PPT/VIDEO/WORD/PDF/AUDIO/ANY OTHER	PPT (link of the ppt) https://online.....
Assignment questions	1. Give a brief account of grandmother – life in the village , city and after the author’s return from abroad.
No of Students attended the Onlineclassroom	Absentees Names
Remarkable performance of any student_	
Problems faced by the teacher.	

DATE: _____ NAME OF THE TEACHER _____ SIGNATURE OF THE TEACHER _____

(ii) Statement of Philosophy (STP) (English XI & XII)

1. Teachers plan their teaching of the lessons by dividing the lessons as per the concept.
2. Interaction of teachers with students is limited. A routine chart of the students to be interacted to be maintained for each lesson. In case any student gets skipped they have to be given chances in priority in the next lesson interaction.

3. Students should be tied up with interesting assignments with a varied pattern and not a routine pattern for all the chapters.
 4. Concepts taught must be of good values related to their real life situations. Short narration assignments can be assigned as a part of home assignments or projects to make sure that the teaching learning process is effective.
 5. A variety of assignments can be planned and given as children should be tested based on their competency.
 6. Speaking topics for all the lessons to be given to the students so that they are able to select and prepared= and get familiar with a variety of topics.
 7. Listening audio with exercise could be given to all the students for them to listen imitate speaking skills.
 8. Written exercise with moral values inbuilt to be assigned with the contemporary issues.
 9. A check point of assessment could be kept in all the work assigned.
 10. Assessment as learning is to be practiced teaching – learning concepts to be planned and executed while classroom activity.
-

SWOT (Strength, Weakness, Opportunity & Threat)

In English most of the students have the inhibition to speak? Especially when they are given role play or debate or speech session many students don't come forward. They are able to write. So assessment can be based on their writing skills.

For students who are able to speak well they are given more exercise in speaking and assessed based on their performance.

In online class most of the students become mute as they don't want to project or out of laziness. There are some children who are using smart phone for getting readymade answers. So, the screen time has to be reduced by giving creative work. The questions framed by the teachers have to be done in such a manner that they have to think and write and they are not able to get ready made answers.

Micro Lesson Plan

Name of the Teacher :

Designation : PGT (Eng)

Class : XI

Duration:20 Min.

Subject : English

Poem : The Voice Of The Rain .. by Walt Whitman.

Instructional Objectives :

1. To appreciate the beauty that Walt Whitman.
2. To enjoy and experience the happiness of falling rain .
3. to identify the central/main-theme/ idea of the poem.

Learning Outcome : (At the end the child will be able to):

- a. To read and comprehend the poem
- b. To understand the aesthetic sense of The voice of the Rain that the poet describes.
- c. To identify the poetic devices used to express the ideas.

Teaching methodologies/strategies followed:

- Interaction on listing out The voice of the Rain that students think
- Presentation of photos and videos that are considered to be The voice of the Rain
- Sharing experience of vice of the rain and looking at falling rain
- About the poet – Walt Whitman
- Poem Recitation – Audio played

- Interaction Session – reading lines and discussion
- Poetic devices noted
- Central idea of the poem arrived at

Teaching & Learning materials / aids used:

- ✓ Audio file of recorded poem downloaded from YouTube
- ✓ Power point presentation of photos and videos pertaining to voice of the Rain
- ✓ Hand-outs/work sheets

Micro - Lesson Plan

	Content / Gist of the section of the topic	Teacher's Activities	Student's Activities	Assessment	Learning Out comes	Time
Introduction	Interaction on listing out The voice of the Rain that students think	Teacher asks the students and lists out as they say	Students list out – one beautiful scene that they feel	Relevant thought with Loudness & clarity	Students utter words – beautiful scenes and things.	1
	Presentation of photos and videos pertaining to voice of the Rain .	Presents photos on the screen & Videos- elicit answers	Watches and express their ideas	Comprehended the thought of beauty	Students appreciate voice of the rain.	2
Development of the concept through various activities/ experienc	About the poet - Walt Whitman (1819-1892) was an American poet, essayist and journalist. He was one of the influential poets of American literature and was considered as father of free verse.	Tr asks of poets of nature Tr briefs on the biography of the poet	Students reply- Wordsworth, Robert Frost, Students listen and respond carefully	Name few poets of nature Wordsworth, Robert Frost, John Keats	Students recollect the poets of the poems of Nature, they have read	3

es						
Development of the concept through various activities/ experiences	<p>Poem Recitation</p>	<p>Tr plays the Audio</p>	<p>Listen to the poem – Write the words that talk about In “Voice of the Rain.</p>	<p>Testing of Listening Comprehension</p>	<p>Students listen and comprehend the poem</p>	<p>3</p>
	<p><i>Ad who art thou?Iam the Poem of the Earth.</i></p> <p>The poet asks the rain to give its introduction and identity</p>	<p>Tr asks to pick out prominent words</p>	<p>Shower and strange – Association of these words</p>	<p>Enhancing the Vocabulary</p>	<p>Understood the meaning of the two words</p>	<p>2</p>
	<p><i>Eternal I rise yet the same,</i> <i>The rain rises from the surface of the Earth and Ocean perceived by the onlookers because of its vaporious nature</i></p>	<p>Tr asks – contradicting phrases i)Upward--- descend ii)changed--- form'd</p>	<p>Loveliness increases-- -- pass into nothingness Upward -descend Changed <>form'd</p>	<p>Testing of contradicting expression</p>	<p>Understands the meaning of two phrases given in the stanza.</p>	<p>2</p>

	Idescend tomy own origin. The rain falls to bring life to the unborn seeds hidden in the earth, it's own birth-place.	Name the things that receives the blessings of the rain	Atomies, dust-layers get washed.	Interpretation of voice of the rain Analyzing the associated idea	Appreciates the key words of beauty. Recognizes the poetic device- Personification	2
Evaluation	Answer the questions briefly: 1).Who is the poem of the Earth? 2).The word' impalpable' implies for: 3.)the rain takes shape : 4)."Altogether changed" here means:					3
Extended Activity	Draw the flow chart of " cycle of the rain " that Walt Whitman has mentioned in the poem.Identify the poetic deceives with examples	Tr briefs on the question given	Students work on the question at home	To understand if the student had understood the idea that the poet is conveying	The Student had understood the central idea and poetic devices	2

Subject teacher :

Principal

Macro Lesson Plan

Name of the Teacher : Mrs.K.Parameswari Designation : PGT (Eng) Date : ----- Period : _____ Subject : English Topic : We are not afraid to die ---if Class & Sec : XI

Learning Outcomes	Teacher's Work(Step by Step plan)	Student's Work (Activities to be done by the students)	Teaching Aids Used	Assessment (Formative)
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<p>Introduction to adventurous experience.</p> <p>Creates an awareness on the idea - adventurous experience.</p> <p>Is aware of well planning is required for any work.</p> <p>Understands and analyse the collective effort would bring success.</p> <p>Understand that will power would make man survive.</p> <p>Writes narrative form.(writing once experience)</p>	<p>Warm up – on adventurous experience (individual)</p> <p>Adventurous sports : training and its impact</p> <p>Plan well before any work . 'Wavewalker'- professionally built boat, tested for roughest weather.</p> <p>Proper training , togetherness in all struggles, hard working by the crew.</p> <p>Sue did not tell about the injuries.</p> <p>Reference to the lesson for style and language</p>	<p>Student's narrate their experience- eg: - first time Cycling, parasailing, mountain climbing,(scouts & guides adventure trip, excursion)</p> <p>Students experience : with training/ without training.</p> <p>Difference between planned work and unplanned work.</p> <p>Determination to survive even in hard times.</p> <p>Conversation sue and her father</p> <p>Narration – creative writing</p>	<p>Teacher – student interaction</p> <p>(movie –Titanic)</p> <p>PPt on We are not afraid to die.. (different types of boats, about the writer,)</p>	<p>Answer briefly :</p> <p>1. Write a paragraph on any one of your adventurous experience which was thrilling to you at that time?</p> <p>2.What planning had the write and his family members had taken for their journey?</p> <p>3.What were the indications of the impending disaster?</p> <p>(Summative) Extrapulatory Questions</p> <p>1.Imagine you had travelled with the writer and write your experience in the <i>Wavewalker's</i> wreck?</p>
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Voice of the Rain

Worksheet -1

A) On the basis of your listening skill choose the correct options

1).Who is the poem of the Earth?

- a).the rain ,
- b). the land ,
- c.) the sea,
- d). the wind,

2).The word ' impalpable' implies for:

- a.)strong,
- b).weak
- c.)untouched and unseen.
- d.)bottomless

3.)the rain takes shape :

- a). on the land,
- b).in the sky,
- c).in the forest ,
- d).in the sea

4)."Altogether changed" here means:

- a.)the atmosphere completely changed
- b. the nature completely changed
- c).the form completely changed
- d).to give water to animals

WORKSHEET NO- 2

B) Fill in the blanks with appropriate words.

- 1) Eternal i rise _____ out of the land and the _____ - .
- 2) I descended to lave the _____ ,_____ - dust layers of globe.
- 3) And all that in them without me were seeds only ,_____ unborn.
- 4) And forever by day and night, I give back life to my _____.
- 5) And make _____, and _____it.

राज्यीय पाठ्यक्रम, संस्कृत भाषा

संस्कृत भाषा 2021-22

कक्षा - संस्कृत भाषा (302)

संस्कृत भाषा: 2021-22

कक्षा - संस्कृत भाषा कक्षा - संस्कृत भाषा (302-कक्षा)

संस्कृत-भाषा -संस्कृत -संस्कृत-, संस्कृत भाषा -, संस्कृत भाषा -, संस्कृत भाषा -

क्र. सं.	कक्षा	संख्या	विषय	विषय	विषय	विषय	विषय	संसाधन	
1	संस्कृत	8	संस्कृत-1: संस्कृत	संस्कृत भाषा - संस्कृत भाषा	संस्कृत भाषा	संस्कृत भाषा	संस्कृत भाषा	संस्कृत भाषा	https://www.learnbse.in
			संस्कृत-1: संस्कृत	संस्कृत भाषा - संस्कृत भाषा	संस्कृत भाषा	संस्कृत भाषा	संस्कृत भाषा	संस्कृत भाषा	https://www.ncert-solutions.com
			संस्कृत	संस्कृत भाषा	संस्कृत भाषा	संस्कृत भाषा	संस्कृत भाषा	संस्कृत भाषा	https://youtu.be/HcyXtP1CC0o
2	संस्कृत	24	संस्कृत 1: संस्कृत	संस्कृत भाषा - संस्कृत भाषा	संस्कृत भाषा	संस्कृत भाषा	संस्कृत भाषा	संस्कृत भाषा	https://www.ncert-solutions.com
			संस्कृत-1: संस्कृत	संस्कृत भाषा - संस्कृत भाषा	संस्कृत भाषा	संस्कृत भाषा	संस्कृत भाषा	संस्कृत भाषा	https://www.learnbse.in
			संस्कृत 1: संस्कृत	संस्कृत भाषा - संस्कृत भाषा	संस्कृत भाषा	संस्कृत भाषा	संस्कृत भाषा	संस्कृत भाषा	https://youtu.be/vDWQumZdx88

			<p>संयोजक</p> <p>संयोजक (संयोजक)</p>				<p>संयोजक</p> <p>संयोजक</p>	<p>https://youtu.be/HNYBncuiQwY</p>
			<p>संयोजक</p> <p>संयोजक</p>	<p>संयोजक -संयोजक संयोजक</p> <p>संयोजक</p> <p>संयोजक (संयोजक/संयोजक/संयोजक/संयोजक/संयोजक)</p> <p>संयोजक) संयोजक/संयोजक संयोजक </p> <p>संयोजक संयोजक संयोजक संयोजक संयोजक</p> <p>संयोजक संयोजक</p>	<p>संयोजक संयोजक-</p> <p>संयोजक संयोजक</p> <p>(5 संयोजक)</p>	<p>संयोजक संयोजक,</p> <p>संयोजक संयोजक</p> <p>संयोजक</p>	<p>संयोजक संयोजक</p> <p>संयोजक संयोजक संयोजक</p> <p>संयोजक संयोजक संयोजक</p>	<p>https://youtu.be/smb4uxqQw5M</p>
4	संयोजक	15	<p>संयोजक-1:संयोजक</p>	<p>संयोजक संयोजक -संयोजक</p>	<p>संयोजक</p>	<p>संयोजक</p>	<p>संयोजक संयोजक संयोजक</p> <p>संयोजक संयोजक</p>	<p>https://youtu.be/vDWQumZdx88</p>
			<p>संयोजक-1:संयोजक</p>	<p>संयोजक संयोजक-संयोजक संयोजक,</p> <p>संयोजक संयोजक-संयोजक संयोजक संयोजक</p> <p>संयोजक-संयोजक संयोजक</p>		<p>संयोजक संयोजक</p> <p>संयोजक</p>	<p>संयोजक संयोजक</p> <p>संयोजक संयोजक संयोजक</p> <p>संयोजक-संयोजक संयोजक संयोजक</p> <p>संयोजक संयोजक</p> <p>संयोजक ?</p>	<p>https://www.ncert-solutions.com</p>
			<p>संयोजक</p>	<p>संयोजक संयोजक - संयोजक संयोजक संयोजक संयोजक</p> <p>संयोजक संयोजक संयोजक</p>	<p>संयोजक संयोजक</p>	<p>संयोजक संयोजक</p>	<p>संयोजक संयोजक संयोजक</p> <p>संयोजक संयोजक संयोजक</p> <p>संयोजक संयोजक</p>	<p>https://youtu.be/L3ZJ9tkj6e4</p>
			<p>संयोजक</p> <p>संयोजक</p>	<p>संयोजक संयोजक संयोजक संयोजक संयोजक</p> <p>संयोजक संयोजक/संयोजक/संयोजक संयोजक</p> <p>संयोजक संयोजक संयोजक संयोजक संयोजक</p> <p>संयोजक संयोजक</p>	<p>संयोजक संयोजक-संयोजक</p> <p>संयोजक (5 संयोजक)</p>	<p>संयोजक संयोजक,</p> <p>संयोजक संयोजक</p>	<p>संयोजक संयोजक</p> <p>संयोजक संयोजक संयोजक</p> <p>संयोजक संयोजक संयोजक</p> <p>संयोजक संयोजक संयोजक</p>	<p>https://youtu.be/smb4uxqQw5M</p>
5	संयोजक	20	<p>संयोजक-1:संयोजक</p>	<p>संयोजक - संयोजक संयोजक</p>	<p>संयोजक संयोजक</p>	<p>संयोजक संयोजक</p>	<p>संयोजक संयोजक संयोजक</p>	<p>https://youtu.be/vDWQumZdx88</p>

			<p>उत्तर1: उत्तर</p> <p>उत्तर उत्तर-उत्तर उत्तर, उत्तर उत्तर उत्तर (उत्तर उत्तर उत्तर)</p>		<p>उत्तर, उत्तर, उत्तर उत्तर उत्तर उत्तर</p>	<p>उत्तर उत्तर उत्तर उत्तर उत्तर उत्तर ?</p>	<p>https://www.ncert-solutions.com</p>
			<p>उत्तर</p> <p>उत्तर उत्तर-उत्तर/उत्तर, उत्तर उत्तर उत्तर, उत्तर उत्तर उत्तर</p>	<p>उत्तर उत्तर</p>	<p>उत्तर उत्तर</p>	<p>उत्तर उत्तर, उत्तर उत्तर उत्तर उत्तर</p>	<p>https://youtu.be/HcyXtP1CC0o</p>
			<p>उत्तर उत्तर उत्तर</p> <p>1. उत्तर उत्तर उत्तर उत्तर उत्तर उत्तर उत्तर/उत्तर/उत्तर/उत्तर उत्तर उत्तर उत्तर उत्तर उत्तर</p>	<p>उत्तर उत्तर-उत्तर (5 उत्तर)</p>	<p>उत्तर, उत्तर उत्तर, उत्तर उत्तर</p>	<p>उत्तर उत्तर उत्तर उत्तर उत्तर उत्तर उत्तर</p>	<p>https://youtu.be/smb4uxqQw5M</p>
			<p>2. उत्तर उत्तर उत्तर उत्तर उत्तर उत्तर उत्तर उत्तर</p>	<p>उत्तर उत्तर-उत्तर (5 उत्तर)</p>	<p>उत्तर उत्तर</p>	<p>उत्तर उत्तर उत्तर उत्तर उत्तर उत्तर</p>	<p>https://youtu.be/smb4uxqQw5M</p>
8	उत्तर	24	<p>उत्तर1: उत्तर</p> <p>उत्तर, उत्तर उत्तर- उत्तर उत्तर</p>		<p>उत्तर, उत्तर</p>	<p>उत्तर उत्तर उत्तर उत्तर</p>	
			<p>उत्तर</p> <p>उत्तर, उत्तर उत्तर उत्तर. उत्तर उत्तर उत्तर उत्तर</p>	<p>उत्तर उत्तर</p>	<p>उत्तर उत्तर</p>	<p>उत्तर उत्तर उत्तर उत्तर</p>	<p>https://youtu.be/TZLn1QeKh1U</p>
			<p>उत्तर</p> <p>उत्तर उत्तर-उत्तर/उत्तर, उत्तर उत्तर उत्तर उत्तर, उत्तर उत्तर उत्तर (उत्तर उत्तर उत्तर उत्तर)</p>		<p>उत्तर उत्तर, उत्तर, उत्तर</p>	<p>उत्तर उत्तर, उत्तर उत्तर उत्तर उत्तर</p>	<p>https://youtu.be/HcyXtP1CC0o</p>
			<p>उत्तर उत्तर उत्तर</p> <p>उत्तर उत्तर-उत्तर उत्तर उत्तर उत्तर उत्तर उत्तर (उत्तर/उत्तर/उत्तर/उत्तर/उत्तर उत्तर) उत्तर/उत्तर उत्तर उत्तर उत्तर उत्तर उत्तर उत्तर उत्तर</p>	<p>उत्तर उत्तर-उत्तर (5 उत्तर)</p>	<p>उत्तर, उत्तर, उत्तर, उत्तर उत्तर, उत्तर उत्तर</p>	<p>उत्तर उत्तर उत्तर उत्तर उत्तर उत्तर उत्तर</p>	<p>https://youtu.be/smb4uxqQw5M</p>

<https://vedantu.com>

<https://youtu.be/Orvastwp02o>

www.youtube.com+91 99930 42324

SWOT ANALYSIS

विषय - हिंदी कक्षा स्तर - XI ,XII

STRENGTHS(S)	WEAKNESS(MW)
<ul style="list-style-type: none"> • विद्यार्थियों में साहित्यिक रुचि का अभाव • साहित्यिक गतिविधियों में रुचि के प्रति अलगाव की भावना • निरंतर लेखन क्षमता की कमी • क्षेत्रियता का भाषा प्रयोग में प्रभाव • साहित्यिक गतिविधियों में रुचि के प्रति अलगाव की भावना • अध्ययन में निरंतरता का अभाव 	<ul style="list-style-type: none"> • व्याकरणिक अशुद्धियाँ • वर्तनी सम्बंधी कमियाँ • निरंतर लेखन क्षमता की कमी • क्षेत्रियता का भाषा प्रयोग में प्रभाव • साहित्यिक गतिविधियों में रुचि के प्रति अलगाव की भावना • अध्ययन में निरंतरता का अभाव
OPPORTUNITIES(O)	THREATS(T)
<ul style="list-style-type: none"> • साहित्यिक रचनाएँ ऑनलाइन उपलब्ध • साहित्यिक गतिविधियों एवं पाठ्य सामग्री विद्यालय ई-पुस्तकालय , दीक्षा पोर्टल, सी बी एस ई वेबसाइट पर उपलब्ध • विद्यालय में आयोजित होने वाली गतिविधियाँ • अध्यापकों द्वारा निरंतर मार्गदर्शन एवं उत्साह वर्धन • समसामयिक रचनाओं साहित्यकारों से सम्बंधित पत्र पत्रिकाओं की उपलब्धता 	<ul style="list-style-type: none"> • सामाजिक जागरूकता की कमी • विभिन्न कुरीतियाँ • विविध व्यसन • अरुचि की भावना • आधुनिक दिखावा फैशन • विषय विशेष के प्रति हीन भावना • रोजगार प्राप्त करना मुख्य ध्येय

CONCLUSION:हिंदी विषय के प्रति रुचि जाग्रत कर बच्चों के मन में जिज्ञासा उत्पन्न किया जाना चाहिए जिससे अत्यधिक जिम्मेदारी के साथ अध्ययन कर सकें । किसी भी विषय के प्रति लगन एवं उत्साह का होना आवश्यक है। वर्तमान संचार साधनों से परिपूर्ण समय में शिक्षक की भूमिका अति महत्वपूर्ण है। शिक्षक स्वयं अध्ययनशील रहकर बच्चों के जिज्ञासु मन को सार्थक समाधान दे सकता है ।

3. निम्नलिखित में से सही विकल्प चुनिए-
- (A) निम्नलिखित में से सही विकल्प चुनिए
 - (B) निम्नलिखित में से सही विकल्प चुनिए
 - (C) निम्नलिखित में से सही विकल्प चुनिए
 - (D) निम्नलिखित में से सही विकल्प चुनिए*

निम्नलिखित में से सही विकल्प चुनिए-

1. निम्नलिखित में से सही विकल्प चुनिए?
 2. निम्नलिखित में से सही विकल्प चुनिए?
 3. निम्नलिखित में से सही विकल्प चुनिए?
 4. निम्नलिखित में से सही विकल्प चुनिए -
'निम्नलिखित में से सही विकल्प चुनिए'
5. निम्नलिखित में से सही विकल्प चुनिए?
 6. निम्नलिखित में से सही विकल्प चुनिए?

निम्नलिखित में से सही विकल्प चुनिए

- निम्नलिखित में से सही विकल्प चुनिए
- निम्नलिखित में से सही विकल्प चुनिए
- निम्नलिखित में से सही विकल्प चुनिए
- निम्नलिखित में से सही विकल्प चुनिए
- निम्नलिखित में से सही विकल्प चुनिए

KENDRIYA VIDYALAYA SANGATHAN (RAIPUR REGION)
SPLIT OF SYLLABUS 2021-22

SUBJECT-PHYSICS

CLASS – XI

Month	Number of working days	Number of periods	Name of the Unit / chapter/Topic	Learning outcomes to be covered as per (TRALO)	Suggested Projects/ Practicals/ Activities under internal Assessment	Important Link for further reference	Assignment
July	5	5	Unit I: Physical World and Measurement Chapter–1: Physical World Chapter–2: Units and Measurements	The learner – explains that the disciplinary approach of Physics is a transition from general sciences. - explains the fundamental forces in nature – – explains the nature of fundamental laws such as conservation laws, etc. -explains the need of accuracy, precision, errors and uncertainties in measurement; and classify errors.	Experiments 1. To measure diameter of a small spherical/cylindrical body and to measure internal diameter and depth of a given beaker/calorimeter using Vernier Callipers and hence find its volume. 2. To measure diameter of a given wire and thickness of a given sheet using screw gauge. 3. To determine volume of an irregular lamina using screw gauge. <i>Activities</i> 1. To make a paper scale of given least count, e.g., 0.2cm, 0.5 cm. 2. To determine mass of a given body using a metre scale by principle of moments.	https://www.youtube.com/watch?v=SmYLPpIJU50 https://www.youtube.com/watch?v=FKtYZpC-kpk	https://drive.google.com/file/d/0B8hXbvn1ab-BZ2c3cGVvd3IPMWM/view?resourcekey=0-z2S_R5p0nddciz7Kzv7RSg https://drive.google.com/file/d/0B8hXbvn1ab-BRIM1NkxaMW1WWkE/view?resourcekey=0-IS7exjpAm-KYbUWr_KO3IA https://drive.google.com/file/d/0B8hXbvn1ab-BcE9fWlpsMjhWMUU/view?resourcekey=0-tk20DPfn71B36bpZIEKywA
August	25	5	Chapter–2: Units and Measurements-Continue	– differentiates between distance and displacement; speed and velocity; rectilinear and curvilinear motions; kinematics and dynamics; inertial and non	Experiments 1. To measure diameter of a small spherical/cylindrical body and to measure internal diameter and depth of a given beaker/calorimeter using Vernier Callipers and hence find its volume. 2. To measure diameter of a given wire and	https://www.youtube.com/watch?v=dyDR4Zkx06s	

		10	Unit II: Kinematics 24 Periods Chapter–3: Motion in a Straight Line	Learning Outcomes cut across different themes The learner can understand -inertial frames of references; average, relative, and instantaneous velocity and speed etc. – derives (graphically) kinematic equations for --uniformly accelerated motion – communicates the findings and conclusions effectively. – applies concepts of physics in daily life while making decisions and solving problems.	thickness of a given sheet using screw gauge. 3. To determine volume of an irregular lamina using screw gauge. 4. To determine radius of curvature of a given spherical surface by a spherometer.	https://drive.google.com/file/d/0B8hXbvn1ab-BWdNoeHZmaDJQUkk/view?resourcekey=0-dSsJN3fhesjb3qzIIIWLkQ	https://drive.google.com/file/d/0B8hXbvn1ab-BaUNRY0haX29xV00/view?resourcekey=0-ToUGuYPRFWjbdz_vF6y0aQ
		10	Chapter–4: Motion in a Plane	– communicates the findings and conclusions effectively. – applies concepts of physics in daily life while making decisions and solving problems. -Can understand operations (addition subtraction and multiplication of vectors -Can find range max. height and time of flight of projectile. -Dissection and application of circular motions.		https://drive.google.com/file/d/0B8hXbvn1ab-Bakdnb1FGMEJqNDA/view?resourcekey=0-MxIP9eOLgeaOTMOXWmBVgQ	https://drive.google.com/file/d/0B8hXbvn1ab-BaDVybi1JeFQ4OHM/view?resourcekey=0-8Mb2z9R5_tGjpXigE7jmQw
						https://drive.google.com/file/d/0B8hXbvn1ab-BOTcyamQzckJUdkk/view?resourcekey=0-Dwi6iIq37r13zfJHkd7uqw	https://drive.google.com/file/d/0B8hXbvn1ab-BckZsa3F0bFhyaUE/view?resourcekey=0-5QaGd29i850knfHljNFv_w
						https://www.youtube.com/watch?v=GufSt3gLE2U	

September	23	12	Unit III: Chapter–5: Laws of Motion (14 Periods)	The learner can - explains applications of Newton’s three laws of motion, -explains problems with circular motion -Roll of friction in motions	Experiments: 5. To determine the mass of two different objects using a beam balance. 6. To find the weight of a given body using parallelogram law of vectors. 7. Using a simple pendulum, plot its L-T ² graph and use it to find the effective length of second's pendulum. 8. To study variation of time period of a simple pendulum of a given length by taking bobs of same size but different masses and interpret the result.	https://drive.google.com/file/d/0B8hXbvn1ab-BT3EwQkxaVnp2WIU/view?resourcekey=0-Of50bqNxy8GUxa0eKcjD9w	https://drive.google.com/file/d/0B8hXbvn1ab-BcWJ3WUxyc2dubUU/view?resourcekey=0-SBonJ6RB-J2TulDIcBJzLg
		5	Unit IV: chapter -6 Work, Energy and Power (12 Periods)	Concept of work and mathematical notations in simple mechanics - derive work done by constant and variable force, -Understand the concept of Energy, conservation of energy with mathematical applications.	<i>Activities</i> 1. To make a paper scale of given least count, e.g., 0.2cm, 0.5 cm. 2. To determine mass of a given body using a metre scale by principle of moments.	https://www.youtube.com/watch?v=825LxfhRJrI	https://drive.google.com/file/d/0B8hXbvn1ab-BMUZGck1QYnRvb00/view?resourcekey=0-OocKQ_vHPrR6sZZESyLL1g
		6				PERIODIC TEST-1	https://www.youtube.com/watch?v=xwWek8F4jxE
						https://www.youtube.com/watch?v=4mT7qdghw_4	https://drive.google.com/file/d/0B8hXbvn1ab-BX0NESExPTVUxeVk/view?resourcekey=0-h1KvKXD0k1j35iD3ucV9mA
						https://drive.google.com/file/d/0B8hXbvn1ab-BUMY1c2IcUgzaUU/view?resourcekey=0-qtFheNDFxz_JFpMl4-n_1A	

October	20	6 14	Chapter -6 Work, Energy and Power -Continue Unit V: Chapter-7: System of Particles and Rotational Motion	- understand concept of elastic and inelastic collision. Understand the concept of centre of mass, application centre mass of any system our daily life. Learner can explains -angular momentum , torque, moment of couple and moment of inertia - can understand applications of law of conservation of angular momentum -Understand Moment of Inertia of regular bodies and their need our daily life	Experiments: 9. To study the relationship between force of limiting friction and normal reaction and to find the co- efficient of friction between a block and a horizontal surface. 10. To find the downward force, along an inclined plane, acting on a roller due to gravitational pull of the earth and study its relationship with the angle of inclination θ by plotting graph between force and $\sin\theta$.	https://drive.google.com/file/d/0B8hXbvn1ab-BdUsyUDdQbFAzc3c/view?resourcekey=0-UtCn_D4pvSvQtUfV6XjGcg https://drive.google.com/file/d/0B8hXbvn1ab-Ba3hHZGlrQnJkRm8/view?resourcekey=0-7WGx6u4MmPpd5Syo45e-tw https://www.youtube.com/watch?v=6X_FiOIhgPU	https://drive.google.com/file/d/0B8hXbvn1ab-BUDgwYi1IOUV2RmM/view?resourcekey=0-21MbZRbn1W_pAkQ-SKQnyQ https://drive.google.com/file/d/0B8hXbvn1ab-BbmdQeGdvUIJ4SkE/view?resourcekey=0-7t5Eer7spXNxNtfRbE_aw
November	15	7	Unit VI: Chapter-8: Gravitation	Learner can - state Kepler's law -can derive the expression for variation in acceleration due to gravity due to height and depth. - can derive expression for gravitational potential energy, escape velocity and orbital velocity	Experiment: (Section B) 1. To determine Young's modulus of elasticity of the material of a given wire. 2. To find the force constant of a helical spring by plotting a graph between load and extension. Activity 3. To plot a graph for a given set of data, with proper choice of scales and error bars. 4. To measure the force of limiting friction for rolling of a roller on a horizontal plane. 5. To study the variation in range of a projectile with angle of projection.	https://drive.google.com/file/d/0B8hXbvn1ab-BX2gweE9ZRWYwY28/view?resourcekey=0-oWfOLBhuM0Jxoe60giCm3A https://drive.google.com/file/d/0B8hXbvn1ab-BeTRBdUxKclJqU00/view?resourcekey=0-LLsI4dUB3cNLldFwbOPTTA https://www.youtube.com/watch?v=RbOZkOUGljY	https://drive.google.com/file/d/0B8hXbvn1ab-BUIN2dDBGRIFrSW8/view?resourcekey=0-JpGymvigilxaunGCNt-o7Q https://drive.google.com/file/d/0B8hXbvn1ab-BOUJkZ2RMZnRNT0E/view?resourcekey=0-dWXMqW64znYbD3zvcjQdXw

		8			HALF YEARLY EXAMINATION		
	8	8	Unit VII: Properties of Bulk Matter Chapter–9: Mechanical Properties of Solids	Learner can - Handles tools and laboratory apparatus like searl apparatus -Can Understand the concept of elasticity and apply in general life.	Experiment 3. To study the variation in volume with pressure for a sample of air at constant temperature by plotting graphs between P and V, and between P and 1/V. 4. To determine the surface tension of water by capillary rise method.	https://drive.google.com/file/d/0B8hXbvn1ab-BYmxQSWpWZ3ZwS1E/view?resourcekey=0-PtH9RLd-fxWrww4F6eNTYQ https://drive.google.com/file/d/0B8hXbvn1ab-BeWhLTTEtbXBFTU0/view?resourcekey=0-qjA4p3uF_2wqwUqMK1oYYA https://www.youtube.com/watch?v=LytaVRxD5tU	https://drive.google.com/file/d/0B8hXbvn1ab-BVGtOYVNQaUwxLTg/view?resourcekey=0-JT9HCWEwOGA7St56jcWZmA https://drive.google.com/file/d/0B8hXbvn1ab-Bazh5aTVKQThtYmM/view?resourcekey=0-dulvvCs7UIKU4xjVxi8ZlQ https://drive.google.com/file/d/0B8hXbvn1ab-BcVhZMENTekl2ZVU/view?resourcekey=0-03cFbB8eUaaj2JIVFWZDgw
December	18	10	Chapter–10: Mechanical Properties of Fluids	Learner can -applies concepts of viscosity and surface tension in daily life while making decisions and solving problems. - Handles tools and laboratory apparatus Capillary tube properly; - can measures physical quantities like surface tension using appropriate apparatus, instruments, and devices.	Experiment: 5. To determine the coefficient of viscosity of a given viscous liquid by measuring terminal velocity of a given spherical body.	https://drive.google.com/file/d/0B8hXbvn1ab-BXzFQUG4za044ZEU/view?resourcekey=0-E_bFaaA-2CI0x31Cko96jg https://www.youtube.com/watch?v=agLmPcPtTFc https://www.youtube.com/watch?v=fjorB6dIXIE	https://drive.google.com/file/d/0B8hXbvn1ab-BMWNWNlZ2aDjnbEE/view?resourcekey=0-zVlnxTLd8or3KN2lCR1mKA https://drive.google.com/file/d/0B8hXbvn1ab-BcVhZMENTekl2ZVU/view?resourcekey=0-03cFbB8eUaaj2JIVFWZDgw
		8	Chapter–11: Thermal	Learner can relate different coefficient of thermal	6. To study the relationship between the temperature of a hot body and time by	https://drive.google.com/file/d/0B8hXbvn1ab-	https://drive.google.com/file/d/0B8hXbvn1ab-

Record of at least 12 Experiments [with 6 from each section], to be performed by the students.
Record of at least 6 Activities [with 3 each from section A and section B], to be performed by the students.

CONDUCT OF ONLINECLASSES

PROBLEM/CHALLENGES FACED DURING THE PREVIOUS ACADEMIC SESSION.

- Attendance of students
- Network issue and data exhaustion
- Students miss deadline of any assignment for a wide range of reasons.
- The challenge of students remained passive.

ACTION PLAN TO OVERCOME THOSE CHALLENGES DURING THE CURRENT ACADEMIC SESSION

- Frequent PTM and share daily attendance with parents
- Parents to be counselled for sufficient data and better network or different network options. Topic taught is shared in classroom also
- Setup assignment reminders as announcement and make assignment monitor who remind other students.
- Video lessons of own teaching, you tube links of good classes will make students active. Students may advice to attend the classes using laptops if available

STATEMENT OF TEACHING PHILOSOPHY

Teaching Physics has been a very rewarding experience for me. It has provided me with the opportunity to help students develop confidence in their ability to solve their day to day life problems. As a Physics teacher educator, I aim to develop students' understanding of scientific inquiry, helping them visualize Physics as a process of asking questions about phenomena, conducting investigations to fulfil curiosity, and building explanations based on evidence. I also aim to develop their enthusiasm for learning Physics and to help my students achieve these learning goals, I use a variety of pedagogical methods grounded in my beliefs about teaching and learning. First, before introducing any new topic, I elicit my students' pre-existing

knowledge and beliefs. Students do not come into our classrooms as blank slates; rather, they have a range of ideas that shape how they make sense of new information and construct new knowledge. Therefore, I uncover my students’ prior knowledge in order to refine their learning process. I always believe in prior lesson plan to execute my teaching as per the individual needs of the students.

I administer the assessments not only formally but also informally so that I can assess students as per their abilities or strengths not their disabilities or weaknesses. The assessment I do, is for enabling me to see how my students’ ideas and abilities have evolved during the course. To help my students expand their initial ideas and abilities, I provide them with a variety of learning activities and experiences.

For me teacher needs to play multiple role in class to deliver quality education, I serve as a guide and facilitator, encouraging students to acquire desirable learning outcomes of education.

SWOT ANALYSIS

<p style="text-align: center;">STRENGTHS(S)</p> <ol style="list-style-type: none"> 1. Activity based approach and use of ICT 2. Well-equipped Physics lab 3. Create enthusiasm for learning and engage all students in the classroom 4. More opportunities for overall development of students 5. Support of teachers and learning environment 	<p style="text-align: center;">WEAKNESS (W)</p> <ol style="list-style-type: none"> 1. Physics needs Mathematical tools. Students with weak Mathematics background loose interest in Physics 2. There is a steep gradient between secondary and higher secondary stages 3. Lack of motivation to perform well 4. Students spend more time on tuitions and coaching than that on self-study.
<p style="text-align: center;">OPPORTUNITIES (O)</p> <ol style="list-style-type: none"> 1. Participation of students in science activities like NCSC, Inspire, Science exhibitions, Science Olympiads etc. helps to develop scientific aptitude in the learners that promotes learning. 2. Remediation for improvement in performance. 	<p style="text-align: center;">THREATS (T)</p> <ol style="list-style-type: none"> 1. Peer pressure 2. Pressure from parents 3. More dependency on online resources leads to reduced creative and critical thinking. 4. Emotional disorders

CONCLUSION:

By addressing the weaknesses and threats, the strengths can be used to plan the strategies and mentor students to achieve the learning outcome.

LESSON PLAN

Topic/Lesson	Motion in a Straight Line					
Period Required	11					
Date of Commencement	01.07.21					
Date of Completion	15.07.21					
Gist of Lesson Focused skills/Competencies	Targeted learning outcomes (TLO)	Teaching learning activities planned for achieving the TLO using suitable resources and classroom management strategies	Assessment Strategies Planned	Co-relation with other subjects	Related link	Assignment
Frame of reference, Motion in a straight line: Position-time graph, speed and velocity. Elementary concepts of differentiation and integration for describing motion, uniform and non- uniform motion, average speed and instantaneous velocity, uniformly accelerated motion, velocity - time and position-time graphs. Relations for uniformly accelerated motion (graphical treatment).	Learner can – differentiates between distance and displacement; speed and velocity; rectilinear and curvilinear motions; kinematics and dynamics; inertial and non -inertial frames of references; average, relative, and instantaneous velocity and speed etc. – derives (graphically) kinematic equations for uniformly accelerated motion	Explanation of concept of frame of reference with proper example. To draw position time graph, speed time graph and velocity time graph with data the provided. Explanation of Concept of differentiation and integration. To write the formulas of differentiation and integration and to solve the questions of displacement speed , velocity. To derive the relation in position , displacement and acceleration with graphical treatment. Resources: NCERT/State Physics Textbook for Class XI; Part - I http://ncert.nic.in/textbook/textbook.htm?kph1=0-8 Physics - PheT Simulations https://phet.colorado.edu/en/simulations/category/physics	MCQ test based on data, graph and numerical. Questions from solved example and exercise of NCERT text book.	Topic is related with differentiation and integration in mathematics	https://ncert.nic.in/textbook.php?kph1=3-8 https://drive.google.com/file/d/0B8h8hXbvn1ab-BWDNoeHZmaDJQUkk/view?resourcekey=0-dSsJN3fhesjb3qzIIWLkQ https://youtu.be/dvDR4Zkx06s https://youtu.be/9fVUH6kPnu0	https://drive.google.com/file/d/0B8hXbvn1ab-BaUNRY0haX29xV00/view?resourcekey=0-ToUGuYPRFWjbdz_vF6y0aQ https://drive.google.com/file/d/0B8hXbvn1ab-BYkZSUS1RbndJQVkv/view?resourcekey=0-TBYqrNY2KE1vWa2GTxftaQ

MICRO LESSON PLAN

Topic/Lesson	Motion in a Straight Line /VECTOR					
Period Required	40 MIN					
Date of Commencement	01.07.21					
Date of Completion	01.07.21					
Gist of Lesson Focused skills/Competencies	Targeted learning outcomes (TLO)	Teaching learning activities planned for achieving the TLO using suitable resources and classroom management strategies	Assessment Strategies Planned	Co-relation with other subjects	Related link	Assignment
Physical quantity Scalar quantity Example of scalar quantities vector quantities; Example of vector quantities position vector displacement vectors, general vectors and their notations; equality of vectors, multiplication of vectors by a real number; addition of vectors statements of triangle law of vector addition , Parallelogram law of vector addition and polygons law of vector addition	Learner can – differentiates between scalar quantities and vector quantities -- can represent a vector with proper notations – can find out position vector of a point w.r.t. origin - - can find out displacement vector between two points --can add and subtract two vectors	Definition and explanation of - Physical quantity, scalar quantity, vector quantity, with proper example unit vectors along x axis, y axis and z axis (orthogonal vector) Explanations of how to write a vector Explanation of method to find position vector of a point. To write and explanation of triangle law of vector addition parallelogram law of vector addition and polygons law of vector addition	1. Write three examples of vector quantity and scalar quantity. 2. co-ordinates of a point P is (3,4,5) find its position vector w.r.t. to origin. 3. Add vector A = 2i + 3j + 4k with another vector B = 3i + 4j + 5k 4. Write Statement of (i) Triangle law of vector addition (ii) parallelogram law of vector addition and (iii)Polygons law of vector addition	Topic is related with vector in mathematics	https://youtu.be/W00EMh34fdk https://youtu.be/fzIErAunGs https://youtu.be/wAs1TiiF7A0 https://youtu.be/KBSCMTYaH1s	https://www.ncertbooks.guru/neet-mcq-on-fundamentals-of-vectors/ https://byjus.com/neet/neet-physics-mcq-on-fundamentals-vectors/ https://byjus.com/neet/neet-physics-mcq-on-addition-subtraction-of-vectors/

KENDRIYA VIDYALAYA SANGATHAN, REGIONAL OFFICE, RAIPUR
SPLIT UP SYLLABUS 2021-22

SUBJECT- CHEMISTRY

CLASS XI

For practical -

- (a) At least 02 Acid-base titrations, to be demonstrated by the teacher.
 (b) At least 04 salt analysis, to be demonstrated by the teacher.
 (c) At least 02 content-based experiments, to be demonstrated by the teacher.
 (d) Micro chemical methods are available for many of the practical experiments, wherever possible such techniques should be used.

MONTH	Number of		NAME OF THE UNIT/CHAPTER/TOPI C	Learning outcomes to be covered	SUGGESTED ACTIVITIES /PROJECT/PRACTICAL S UNDER INTERNAL ASSESSMENT.	ASSIGNMENT FOR STUDENTS	IMP LINKS OF DIKSHA/NCERT/YOU TUBE, ETC.
	Working Days	Teaching periods					
JULY & AUG 2021	29	27	UNIT–I, II, III Chapter–1: Some basic concepts of chemistry Chapter–2: Structure of atom Chapter-3: Class. Of elements & periodicity on properties	*Differentiates technical terms. Such as, molality, molarity etc. *Classify elements in various ways. Such as metals, non-metals, s block, p block, d block & f block elements. *Explain scientific terms, laws etc. Such as various models of atom, laws related to electronic configurations etc. *Derives equations & calculates using the values given. *Appreciates the contribution of ancient chemistry of India and its role.	<u>VOLUMETRIC ANALYSIS</u> 1. Acid base titrations using phenolphthalein and methyl orange indicators. (minimum 2 to 3 titrations using online labs) 2. Basic laboratory techniques.	1. Practice of MCQs through Google form. 2. Practice of Assertion/Reason type questions. 3. Practice of PBQs. 4. Practice of numericals of various types. 5. Practice of periodicity in properties based questions. 6. Practice of various structure of atom.	MOLE CONCEPT https://drive.google.com/file/d/0ByRkvg8lBuWYdXFBNVZyOHdSVVE/view?usp=drivesdk ATOMIC STRUCTURE https://drive.google.com/file/d/0ByRkvg8lBuWYeGZ1YllyQkkwM00/view?usp=drivesdk PERIODIC TABLE https://drive.google.com/file/d/0ByRkvg8lBuWYV1fR0ZmSW1IYjg/view?usp=drivesdk
SEP 2021	24	22	UNIT–IV, V Chapter–4: Chemical bonding & molecular structure Chapter- 5: States of matter	*Understand the various concepts of bonding (VBT & MOT) *Apply the knowledge of bonding in understanding the properties of substances. *Explain scientific terms, laws etc. Such as gas laws. *Draws graphs to understand the gas	<u>SALT ANALYSIS</u> 1. At least 5 salt analysis to be demonstrated using online labs. I PERIODIC TEST	1. Practice of MCQs through Google form. 2. Practice of Assertion/Reason type questions. 3. Practice of PBQs. 4. Practice of numericals of various types. 5. Practice of plotting graphs. 6. Practice of drawing structures of molecules, find hybridization & bond order.	CHEMICAL BONDING https://drive.google.com/file/d/0ByRkvg8lBuWYWkZ4TVg3cG9XREU/view?usp=drivesdk GASEOUS STATE https://drive.google.com/file/d/

				laws. *Derives equations & calculates using the values given.			0ByRkvg8lBuWYYTNkYVJGS0pibVU/view?usp=drivesdk
OCT 2021	16	14	UNIT- VI Chapter-6: Thermodynamics	*Derives equations & calculates using the values given. *Explain scientific terms, laws etc. *Applies scientific concepts in daily life & solving problems. *Realizes and appreciates the interface of chemistry with Physics and Mathematics.	SALT ANALYSIS At least 5 salt analysis to be demonstrated using online labs.	1. Practice of plotting graphs. 2. Practice of writing laws & derive equations. 3. Practice of Numericals based of relations. 4. Practice of MCQs, PBQs & Assertion/Reason type questions.	THERMODYNAMICS https://drive.google.com/file/d/1CA0cVu3-ALYuAm0lzC8YXbK7-7f33Ceg/view
NOV 2021	20	20	UNIT-VII, VIII, IX Chapter:7 Equilibrium Chapter-8: Redox reactions Chapter-9: Hydrogen	*Derives equations & calculates using the values given. *Explain scientific terms, laws etc. *Applies scientific concepts in daily life & solving problems. *Uses scientific conventions, chemical formulae, chemical equations as per international standards. *Understands the hydrogen economy.	SALT ANALYSIS At least 5 salt analysis to be demonstrated using online labs. HALF YEARLY	1. Practice of MCQs through Google form. 2. Practice of Assertion/Reason type questions. 3. Practice of PBQs. 4. Practice of numericals of various types. 5. Practice of establishing relationship between various physical quantities. 6. Practice of assigning oxidation numbers and balancing redox reactions.	CHEMICAL EQUILIBRIUM https://drive.google.com/file/d/0ByRkvg8lBuWYMHhZbFJLdDZISXM/view?usp=drivesdk IONIC EQUILIBRIUM https://drive.google.com/file/d/0ByRkvg8lBuWYQlI0cEMwMW05cWM/view?usp=drivesdk REDOX REACTIONS https://drive.google.com/file/d/0BzwmxV4HqIbE50NGRIeFBRcUitCYWhnOUR2Z1JyQQ/view?usp=sharing&resourcekey=0tdPVTgzeQB0YjXPUw2DncQ
DEC 2021	16	16	UNIT- X, XI Chapter-10: The s-block elements Chapter-11: The p-block elements	*Understands the properties and periodicities of s & p block elements. *Classify materials based on characteristics and understands the uses of s & p block elements and their compounds.	SALT ANALYSIS At least 5 salt analysis to be demonstrated using online labs.	1. Practice of MCQs through Google form. 2. Practice of Assertion/Reason type questions. 3. Practice of PBQs. 4. Practice of periodicity in properties and comparative	S BLOCK ELEMENTS https://drive.google.com/file/d/10B08Ledqk2jt4ZZgyz8wlEiwEDmAur1S/view?usp=drivesdk P BLOCK ELEMENTS https://drive.google.com/file/d/

						study of s & p block elements. 6. Practice of chemical properties of these elements and their compounds.	1nwlXm9-yo-k8iDFGaAf8nwTZ9Yq-yS9/view?usp=drivesdk
JAN 2022	22	20	UNIT-XII, XIII Chapter-12: Organic chemistry- Some basic principles & techniques Chapter-13: Hydrocarbons	*Classify organic compounds on the basis of structures & properties. *Understand the properties of organic compounds and accepts their uses accordingly. *Analyses the organic compounds qualitatively & quantitatively. *Understands the various chemical reactions involves various laws. *Applies knowledge of organic chemistry in daily life.	<u>CONTENT BASED EXPERIMENTS</u> <u>II PERIODIC TEST</u>	1. Practice of MCQs through Google form. 2. Practice of Assertion/Reason type questions. 3. Practice of PBQs. 4. Practice of IUPAC nomenclature of organic compounds. 5. Practice of various name reactions and mechanisms. 6. Practice of qualitative and quantitative estimation of organic compounds.	IUPAC NOMENCLATURE https://drive.google.com/file/d/1blnv1UmodVF4N8SwEx3qs-MnMpSGu2pH/view?usp=drivesdk ISOMERISM https://drive.google.com/file/d/1f8H5WPHgezwnjX4OYMsXlybnM2EXInx/view?usp=drivesdk HYDROCARBONS https://drive.google.com/file/d/1tqRuNsBcojhzZvyLc5qcQF-iM2C6mqbs/view?usp=drivesdk
FEB 2022	13	12	UNIT-XIV: Chapter-14: Environmental chemistry	*Plans & conducts investigatory projects related with the various issues of environment. *Takes appropriate precautionary measures (do's & don'ts) while facing problems due to environmental issues. *Exhibits creativity in designing models using eco-friendly resources and out of box thinking in solving problems. *Makes efforts to conserve Environment.	<u>CONDUCT SESSION ENDING PRACTICAL EXAMINATION.</u> <u>REVISION OF ENTIRE SYLLABUS EFFECTIVELY.</u>		ENVIRONMENTAL CHEMISTRY https://www.slideshare.net/zeelpatel35/environmental-chemistry-30492960
MAR 2022	-	-	CONDUCT OF SESSION ENDING	-	-	-	-

EXAM

*** SUBJECT TEACHERS ARE REQUESTED TO COMPLETE THE SYLLABUS UPTO 15 OF FEBRUARY 2022.

*** INVESTIGATORY PROJECTS MAY BE ALLOTTED AS PER THE SUITABILITY AND CONVENIENCE OF THE STUDENTS.

*** THIS YEAR WE HAVE LESS NO OF WORKING DAYS FOR CLASS 11, SO WE HAVE TO TAKE EXTRA CLASSES TO COMPLETE THE SYLLABUS IN TIME.

ASSESSMENT PLAN
CHEMISTRY
2021-22

MONT H	XI	XII	SYLL. COVERED	M.M.	REMARK
APRIL 21	-	M.T. I	UNIT I, II, III	25	ATLEAST 10 MARKS MCQs & 15 MARKS DESCRIPTIVE
JULY 21	-	M.T. II	UNIT IV. V, VI	25	ATLEAST 10 MARKS MCQs & 15 MARKS DESCRIPTIVE
AUG 21	-	M.T. III	UNIT VII, VIII, IX	25	ATLEAST 10 MARKS MCQs & 15 MARKS DESCRIPTIVE
SEPT 21	PT I	-	UNIT I, II, III	50	ATLEAST 20 MARKS MCQs & 30 MARKS DESCRIPTIVE
SEPT 21	-	M.T. IV	UNIT X, XI, XII	25	ATLEAST 10 MARKS MCQs & 15 MARKS DESCRIPTIVE
OCT 21	-	H.Y.	UPTO UNIT XIV	70	AS PER THE CBSE LATEST AVAILABLE GUIDELINE FOR 2022.
NOV 21	H.Y.	-	UPTO UNIT VIII	70	AS PER THE CBSE LATEST AVAILABLE GUIDELINE FOR 2022.
DEC 21	-	I P,B.	WHOLE SYLLABUS	70	AS PER THE CBSE LATEST AVAILABLE GUIDELINE FOR 2022.
JAN 22	PT II	-	UNIT IX, X, XI, XII	50	ATLEAST 20 MARKS MCQs & 30 MARKS DESCRIPTIVE
JAN 22	-	II P.B.	WHOLE SYLLABUS	70	AS PER THE CBSE LATEST AVAILABLE GUIDELINE FOR 2022.
FEB 22	SEE PRAC	SEE PRAC	-	30	AS PER THE CBSE CURRICULUM AVAILABLE.
MARCH 22	SEE	SEE	WHOLE SYLLABUS	70	AS PER THE CBSE LATEST AVAILABLE GUIDELINE FOR 2022.

*** **Question paper will be prepared at vidyalaya level or R.O. level, as per the latest pattern which will be provided by CBSE.**

This plan is made for online exam. You can modify with the approval of Principal according to the circumstance of your vidyalaya.

CONDUCT OF ONLINE CLASSES

PROBLEM/CHALLENGES FACED DURING THE PREVIOUS ACADEMIC SESSION (CHEMISTRY)	ACTION PLAN TO OVERCOME THOSE CHALLENGES DURING THE CURRENT ACADEMIC SESSION
1. Communicating chemistry without the help of body language, results in misunderstanding and student alienation.	- Making of small videos of own teaching & upload, so that the student can visualise.
2. Students used to miss deadline of any assignment for a wide range of reasons.	- Setup assignment reminders as announcement and make assignment monitor who remind other students.
3. Didn't respond frequently about assignment submission.	- Preplanning and organising workloads into 'chunks' of similar tasks and focussing on one chunk at a time, rather than putting the whole together.
4. The challenge of students remained passive.	- Video lessons of own teaching, you tube links of good classes will make students active. - Students may advice to attend the classes using laptops if available.
5. Instructional strategy did not reach.	- Make instructions and targets well in advance and communicate.
6. The challenge of staying connected with the students.	- One way traffic can be avoided and more interactive methods may be enhanced.
7. Some students 'more likely to be falling behind.	- May use various means of evaluation techniques during the interaction of the lesson.
8. Learner's expectations.	- Make strategy and plan as per the need of learner's expectations.

9. Learners felt isolation.	- Teach, evaluate and reteach is to be followed. - Compensation classes may be arranged as per the demand.
10. Lack of interaction & motivation by the teacher.	- 2 to 3 minutes of every class should be allotted for interaction with the students.
11. Risk of out-dated content of various websites.	- Links and websites should be verified by the teacher first and then given to the students for further reference.
12. Students didn't perform experiments effectively.	- Ensure the use of online labs and help them to understand the objectives of experiment. - Recording of demonstration by the teacher may be provided.
13. Attendance of Students.	- Sharing attendance of students with their parents.

*****We know that teaching chemistry online is too difficult but if we think something out of the box then definitely we can overcome/minimise the issues faced last year.**

MY STATEMENT OF TEACHING PHILOSOPHY

- Education is one of the basic human rights for all the students.
- Each and every student should get equal opportunities to get benefitted from our education system.
- Because of the individual differences we should adopt different strategies for different student.
- There are three pillars of education – teacher, student & society. So our role as a teacher means a lot.
- Through education an individual can survive with comfort and fulfill his/her needs. After fulfillment his/her needs they can think about better society.
- An educated person can handle the adverse situation of life with confidence.
- During teaching learning process, I prefer to take examples from real life and force them to think out of the box.
- During this lockdown period I used various multimedia/electronic equipment's to show the concepts in a better way.
- Chemistry is the subject in which visualization is essential to understand the reactions.
- I feel that affection towards the children plays an important role in teaching learning process.

- As a chemistry teacher I would like to say that your confidence over the subject and affection towards the students will help you to minimize the absenteeism in your online class.
- At 5 minutes you have to talk with the children on any topic other than the subject content.
- I always welcome those students who ask questions frequently and motivate others for asking questions.
- Various techniques for assessment of the learning and to know the learning gaps are done.
- Regular oral questioning, reading practice, short tests, MCQs and CCT questions are asked to initiate young minds into critical thinking and evaluation. Various projects, quizzes, discussions, self-assessment, peer assessment are also done for assessment.
- My goal of teaching has been to make my students successful individuals, self-confident, responsible for family, society and country. Students should think independently, they should be able to work collaboratively at the same time and they must be faithful towards mankind & the nation.

SWOT ANALYSIS FOR CHEMISTRY **TO BE DONE BY THE STUDENTS, TEACHERS & PARENTS**

<p style="text-align: center;"><u>STRENGTHS</u></p> <ol style="list-style-type: none">1. List out the contents of syllabus in which you feel comfortable.2. Identified the contents that help you when you are in problem.3. Think the way in which you can stand yourself out from the others.4. Mark your previous year's performances.	<p style="text-align: center;"><u>WEAKNESSES</u></p> <ol style="list-style-type: none">1. List out the areas in which you feel discomfort.2. Prioritize the area in which you want to improve yourself and make it as your strength.3. Areas of various part of chemistry in which you want to improve this year.4. List out the mistakes you have done in previous years examination.
<p style="text-align: center;"><u>OPPORTUNITIES</u></p> <ol style="list-style-type: none">1. Now after knowing your strengths and weaknesses, you are capable to make the list of areas in which you can excel.2. Mention all the areas of chemistry in which you can excel.3. Shortlist the activities / areas as per your interest, strengths and weaknesses. List as many activities as you can achieve.4. Identify opportunities around you that you can act out in your favour.	<p style="text-align: center;"><u>THREATS</u></p> <ol style="list-style-type: none">1. List the things that would go wrong while you are trying to achieve your target.2. Identify your fears or identify what scares you?3. What are the factors which demotivate you? List out.4. Plan or can take advice from seniors, teachers or parents that how can you handle the threats which comes in achieving the targets.5. Prioritize the threats and handle one by one.

USES OF SWOT ANALYSIS 1.Understanding yourself better 2. Building on strengths 3. Eradicating weaknesses 4. Leveraging opportunities 5. Counteracting threats 6.Time management 7. Jumping from one completed goal to another

CONCLUSION – Now we have done the SWOT analysis. You know your strengths, weaknesses. Just you prioritize the things, make a flow and achieve your goals. You can take help from your seniors, neighbours, teachers or parents. This analysis is not only for the subjects but with this you can analyse yourself in any area of your life and make the path easier to achieve the goals.

LESSON PLAN (MACRO) CLASS – XI

LESSON PLAN (MACRO) CLASS – XI					
Topic/Lesson	SOME BASIC CONCEPTS OF CHEMISTRY				
Period Required	12				
Date of Commencement	25/07/2021 Date of Completion 05/08/2021				
Gist of Lesson Focused skills/Competencies	Targeted learning outcomes (TLO)	Teaching learning activities planned for achieving the TLO using suitable resources and classroom management strategies	Assessment Strategies Planned	Co-relation with other subjects	ASSIGNMENT
1. Importance of Chemistry. 2. Nature of Matter. 3. Properties of Matter & their Measurement. 4. Uncertainty in Measurement. 5. Laws of Chemical Combinations. 6. Dalton's Atomic Theory 7. Atomic and Molecular mass. 8. Mole concept and Molar mass 9. Percentage Composition. 10. Stoichiometry and Stoichiometric Calculations.	After completion of the chapter, students will be able to – 1. Appreciate the contribution of India in the development of chemistry understand and the role of chemistry in different spheres of life. 2. Explain the properties of three natural states of matter. 3. Classify the substances as elements, compounds and mixtures. 4. Use scientific notations and determine significant figures. 5. Understand precision/accuracy. 6. Define SI units and converts physical quantities from one unit into another. 7. Explain various laws of chemical combinations. 8. Appreciate significance of atomic mass, molecular mass, mole concept and molar mass. 9. Calculate the concentrations of solutions. 10. Determine empirical and molecular formula and perform stoichiometric calculations.	1. Explain all the contents thoroughly using daily life examples. 2. Start the class by asking basic questions based on previous knowledge. 3. Motivate the students with love and affection so that they attend the class regularly. 4. Assign one or two questions daily as a regular assignment. 5. Interact each and every students during virtual classes. 6. Mode of virtual classes changes frequently (showing ppt, sharing YouTube link etc). 7. Provides hand written notes after every class so that they can write and read daily. 8. Evaluates by taking small test including variety of questions. 9. Practicecbse previous years questions. 10. Communicate parents frequently about progress of their wards.	1. Takes mcqs test through Google form. 2. Takes a small written test after completion of the chapter. 3. Takes oral question-answer session at the last 5 minutes during each class. 4. Evaluates home assignments frequently.	Knowledge of mathematics is required to calculate numericals and knowledge of physics is also required to understand the Basic units.	1. Students are given the Home assignment to solve all the in text question solved and unsolved exercises of NCERT. 2. Exemplar problems for students preparing for competitive examinations. 1. Write atleast 5 important areas where you think the importance of chemistry. 2. Make a list of Indian scientists contributed in development of chemistry. 3. What do you understand by the term (i) scientific notations and significant figures. 4. Taking the example of nitrogen oxides, explain the law of multiple proportions. 5. Calculate- (a) 9 g of methane into no of moles and also find the number of atoms of C & H in it. (b) Find the molarity of pure water. 6. Welding gas has 92.3% C & rest H. Find its molecular formula. (molar mass= 26g/mol)

MICRO LESSON PLAN CLASS XI			
SUBJECT	CHEMISTRY	DATE –31-07-2021	
TOPIC	SOME BASIC CONCEPTS OF CHEMISTRY	PERIOD – I	
SUB TOPIC	REACTIONS IN SOLUTIONS	DURATION – 40 MINUTES	
CONTENTS	1. Concentration of solutions. 2. Mass %, Mole fraction, Molarity & Molality.		
GENERAL AIMS	1. To develop the basics of Chemistry. 2. To develop interest of students in Chemistry. 3. To develop skill among the students to make calculations and interpret scientifically.		
INSTRUCTIONAL OBJECTIVES	1. To understand the term concentration of solutions. 2 To make them confident in defining various concentration terms with proper units. 3. To calculate the concentration of solutions in various terms.		
APPLICATION	1. Analysing the concept of concentration of solutions. 2. Applying the knowledge of terms of concentrations in daily life. 3. Applying the knowledge of concentration terms to develop calculation skill which helps them in future.		
TEACHING AIDS USED	1. Laptop 2. Electronic writing pad 3. Internet connectivity 4. Power point presentation.		
PREVIOUS KNOWLEDGE	1. What are solutions? 2. What are solute and solvent in a solution? 3. Are the concentration of every solution same? Justify.		
INTRODUCTION OF THE TOPIC	After taking the responses of the students, I will introduce the topic Reactions in solutions.		
PRESENTATION	I will explain the whole content using power point presentation and writing pad.		
KEY POINTS	TARGETED LEARNING OUTCOMES (TLO) BY THE TEACHER	TEACHING LEARNING ACTIVITIES PLANNED FOR ACHIEVING THE TLO USING SUITABLE RESOURCES AND CLASSROOM MANAGEMENT STRATEGIES (BY STUDENTS)	ASSESSMENT AS LEARNING
1. Reactions in solutions. 2. Ways of representing concentration of solutions. 3. Numericals based on every concentration	After completion of the chapter, students will be able to - 1. Define basic terms mass %, mole fraction, molarity & molality. 2. Compare molality and molarity. 3. Calculate	1. Students will try to give answers based on previous knowledge. 2. Explain all the contents thoroughly using daily life examples & students will listen carefully. 3. Motivate the students with love and affection. 4. Assign	1. What are solute and solvent? 2. Which concentration term does not affected with the

terms. 4. Effect of temperature on concentration terms.	concentration of a solution in any terms using the data provided.	one or two questions as an assignment. 5. Interact each and every students during virtual classes. 6. Provides hand written notes after the class so that they can write and read daily.	change in temperature? 3. What is the sum of mole fractions in a solution?
RECAPITULATION	I will recapitulate the concepts by asking few basic questions like MCQs.		
HOME ASSIGNMENT	1. Define the concentration terms like mass %, mole fraction, molality & molarity. 2. Molality of a solution does not change with temperature whereas molarity does. Give reason. 3. Calculate molarity and molality of a solution in which 175.5 g of NaCl is added in 1 litre of solution. Density of the solution is 1.25g/ml.		

ASSIGNMENT FOR THE STUDENTS

CLASS - XI

LESSON WISE MATERIAL WITH QUESTIONS (RELATED TO THE LEARNING OUTCOMES)

CHEMISTRY CLASS XI CHAPTERWISE E CONTENT

<https://drive.google.com/file/d/1gRtv5S8DLjJDc0MHK27AuBuhGtDc5F5i/view?usp=sharing>

HARD COPY OF THE MATERIAL FOR THE STUDENTS NOT HAVING PROPER DEVICES AND CONNECTIVITY

CHEMISTRY STUDENT SUPPORT MATERIAL CLASS - XI

http://www.edudel.nic.in/welcome_folder/SupportMaterial2020_21/XI/english/11_chemistry_english_2020_21.pdf

LESSON WISE LINK FROM THE DIKSHA PORTAL

CHEMISTRY CLASS -XI DIKSHA PORTAL VOL-I

https://diksha.gov.in/play/collection/do_3131034752809205761934?referrer=utm_source%3Dmobile%26utm_campaign%3Dshare_content

CHEMISTRY CLASS -XI DIKSHA PORTAL VOL-II

https://diksha.gov.in/play/collection/do_31310347528283750411430?referrer=utm_source%3Dmobile%26utm_campaign%3Dshare_content

LESSON WISE LINK FOR FURTHER REFERENCE

MOLE CONCEPT: <https://drive.google.com/file/d/0ByRkvg8lBuWYdXFBNVZyOHdSVVE/view?usp=drivesdk>

ATOMIC STRUCTURE :<https://drive.google.com/file/d/0ByRkvg8lBuWYeGZ1YllyQkkwM00/view?usp=drivesdk>

PERIODIC TABLE: <https://drive.google.com/file/d/0ByRkvg8lBuWYVm1fR0ZmSW1IYjg/view?usp=drivesdk>

CHEMICAL BONDING: <https://drive.google.com/file/d/0ByRkvg8lBuWYWkZ4TVg3cG9XREU/view?usp=drivesdk>

GASEOUS STATE: <https://drive.google.com/file/d/0ByRkvg8lBuWYYTNkYVJGS0pibVU/view?usp=drivesdk>

THERMODYNAMICS :<https://drive.google.com/file/d/1CA0cVu3-ALYuAm0IzC8YXbk7-7f33Ceg/view>

CHEMICAL EQUILIBRIUM: <https://drive.google.com/file/d/0ByRkvg8lBuWYMHhZbFJLdDZISXM/view?usp=drivesdk>

IONIC EQUILIBRIUM: <https://drive.google.com/file/d/0ByRkvg8lBuWYQlI0cEMwMW05cWM/view?usp=drivesdk>

S BLOCK ELEMENTS: <https://drive.google.com/file/d/10B08Ledqk2jt4ZZgyz8wlEiwEDm Aur1S/view?usp=drivesdk>

P BLOCK ELEMENTS: <https://drive.google.com/file/d/1nwlLXm9-yo-k8iDFGaAf8nwTZ9Yq-yS9/view?usp=drivesdk>

IUPAC NOMENCLATURE: <https://drive.google.com/file/d/1blnv1UmodVF4N8SwEx3qs-MnMpSGu2pH/view?usp=drivesdk>

ISOMERISM: <https://drive.google.com/file/d/1f8H5WPHgeznwjX4OYMsXlylbnM2EXInx/view?usp=drivesdk>

GENERAL ORGANIC CHEMISTRY I :https://drive.google.com/file/d/1AndzXpLLzX73vU9KW7cEaRIQwmq_YoG-/view?usp=drivesdk

GENERAL ORGANIC CHEMISTRY II:<https://drive.google.com/file/d/1howrxMF6sEvPWBR-Pldeeyer-C4-Rjik/view?usp=drivesdk>

HYDROCARBONS:<https://drive.google.com/file/d/1tqRuNsBcojhzZvyLc5qcQF-iM2C6mqbs/view?usp=drivesdk>

ACADEMIC PLAN 2021-22

SUBJECT-BIOLOGY					CLASS -XI			
Month	Number of working days	Number of periods	Name of the Unit / Chapter/Topic	Learning outcomes to be covered	Suggested Practicals under internal assessment	ACTIVITIES/ INVESTIGATORY PROJECT IDEAS	Assignments	Links for further reference
JULY	7	3	UNIT-1 • CH-1 The Living World	1. Differentiates organisms, phenomena and processes based on certain characteristics and salient features	1. Study of the parts of a compound microscope.	AIL- 1. OBSERVING BIRDS IN THE SURROUNDINGS, CLICLCKING PICTURES AND IDENTIFICATION WITH COMMON AND SCIENTIFIC NAMES. 2. PREPARING DIGITAL HERBARIUM OF MEDICINAL PLANTS IN SCHOOL CAMPUS	1.QUESTION-ANSWERS FROM BACK EXERCISE OF NCERT BOOK AND NCERT EXEMPLAR QUESTIONS	https://diksha.gov.in/play/collection/do_31310347527677542411483?contentId=do_313001021422624768155 https://www.bankofbiology.com/2018/08/the-living-world-powerpoint.html
		5	• CH-2 Biological Classification	2. Classifies organisms, phenomena and processes, based on certain characteristics / salient features systematically in more scientific and organized manner	2. Study of the specimens/slides/models and identification with reasons - Bacteria, Oscillatoria, Spirogyra, Rhizopus, Mushroom, Yeast, Liverwort, Moss, Fern, Pine, one monocotyledonous plant, one dicotyledonous plant	AIL- PREPARING POSTERS ON IMPACT OF COVID-19 ON VARIOUS ASPECTS LIKE EDUCATION, ENVIRONMENT, ECONOMY, ETC.	1.QUESTION-ANSWERS FROM BACK EXERCISE OF NCERT BOOK AND NCERT EXEMPLAR QUESTIONS	https://diksha.gov.in/play/collection/do_31310347527677542411483?contentId=do_31306734862710374419684 , https://diksha.gov.in/play/collection/do_31310347527677542411483?contentId=do_3130010317715128321

					and one lichen.			252 https://www.bankofbiology.com/2018/08/biological-classification-powerpoint.html
		7	• CH-3 Plant Kingdom	3. Relates processes and phenomena with causes and effects	3. Study of virtual specimens/slides/models and identification with reasons - Amoeba, Hydra, Liverfluke, Ascaris, Leech, Earthworm, Prawn, Silkworm,Honeybee, Snail, Starfish, Shark, Rohu, Frog, Lizard, Pigeon and Rabbit	, PLANTING 5 POLLUTION CONTROLLING INDOOR PLANTS AND PREPARING A PPT ON THEM INCLUDING CLASSIFICATION With the help of internet, write their levels of organisation of classification and prepare a poster under the topic “Plants Products in Daily Life”. Discuss and share it with peers.	1. QUESTION-ANSWERS FROM BACK EXERCISE OF NCERT BOOK AND NCERT EXEMPLAR QUESTIONS	https://diksha.gov.in/play/collecion/do_31310347527677542411483?contentId=do_3130010318076887041284 https://www.bankofbiology.com/2018/06/plant-kingdom-powerpoint-presentation.html
AUGUST	25	8	• CH-4 Animal Kingdom	4. Applies scientific terminology for organisms, processes, and phenomena based on internationally accepted conventions. 5. Draws labeled diagrams, flow charts.	4. Study and description of three locally available common flowering plants, one from each of the families Solanaceae, Fabaceae and Liliaceae Poaceae Asteraceae or Brassicaceae can be substituted in case of	EACH PHYLA OF ANIMAL KINGDOM CAN BE ASSIGNED TO A STUDENT TO PREPARE POWERPOINT PRESENTATION AND EXPLAIN IN CLASS.	1.QUESTION-ANSWERS FROM BACK EXERCISE OF NCERT BOOK AND NCERT EXEMPLAR QUESTIONS. 2. LEARN COMMON AND	

					particular geographical location) including dissection and display of floral whorls, anther and ovary to show number of chambers (floral formulae and floral diagrams). Types of root (Tap and adventitious); stem (herbaceous and woody); leaf (arrangement, shape, venation, simple and compound).		SCIENTIFIC NAMES OF TWO EXAMPLES OF ORGANISMS BELONGING TO EACH PHYLA/ CLASS.	
		8	UNIT-2 • CH-5 Morphology of Flowering Plants	1.Writes floral formulae in technical language based on floral diagrams of different flowers such as flowers of pea, makoi and onion,etc	5. Preparation and study of T.S. of dicot and monocot roots and stems (primary)		1.QUESTION-ANSWERS FROM BACK EXERCISE OF NCERT BOOK AND NCERT EXEMPLAR QUESTIONS 2. DRAW AND DEFINE ALL TERMS DEALT IN THE CHAPTER	https://diksha.gov.in/play/collection/do_31310347527677542411483?contentId=do_31307121095047577611178 https://www.bankofbiology.com/2020/06/morphology-in-flowering-plants-ppt-pdf.html

		7	<p>• CH-6 Anatomy of Flowering Plants</p>	2. Prepares slides for study the structural intricacies of life forms and structural organizations	6. Study of distribution of stomata in the upper and lower surface of leaves.		<p>1.QUESTION-ANSWERS FROM BACK EXERCISE OF NCERT BOOK AND NCERT EXEMPLAR QUESTIONS. 2. DIAGRAMS PRACTICE</p>	<p>https://diksha.gov.in/play/collecion/do_31310347527677542411483?contentId=do_3130010319152250881256 https://www.bankofbiology.com/2020/06/anatomy-in-flowering-plants-ppt-pdf.html</p>
		8	<p>• CH-7 Structural Organization in Animals</p>	3. Makes efforts to conserve environment realizing the inter-dependency and inter-relationship in the biotic and abiotic factors of environment 4. Draws labeled diagrams, flow charts, concept maps, graphs and floral diagrams	7. Study of tissues and diversity in shapes and sizes of plants and 8. animals through permanent slides. 9. Study of external morphology of cockroach through virtual images/models.		1.QUESTION-ANSWERS FROM BACK EXERCISE OF NCERT BOOK AND NCERT EXEMPLAR QUESTIONS	https://www.bankofbiology.com/2018/08/structural-organisation-in-animals.html
SEPTEMBER	25	12	<p>UNIT-3• CH-8 Cell-The Unit of Life</p>	1. Describes contribution of scientists/researchers all over the world in systematic evolution of concepts, scientific discoveries and inventions in the field of biology based on historical scientific events/ timelines etc	10. Test for the presence of sugar, starch, proteins , fats in given plant and animal material	SETTING UP OF HOME LABORATORY	1.QUESTION-ANSWERS FROM BACK EXERCISE OF NCERT BOOK AND NCERT EXEMPLAR QUESTIONS 2. DIAGRAMMATICALLY DIFFERENTIATE BETWEEN EUKARYOTIC	https://www.bankofbiology.com/2018/08/cell-unit-of-life-powerpoint.html

							AND PROKARYOTIC CELL, PLANT AND ANIMAL CELL	
11	• CH-9 Biomolecules	2.Draws labeled diagrams, flow charts, concept maps, graphs and floral diagrams	11. Test for presence of urea in urine. 12. sugar in urine. 13. albumin in urine. 14. bile salts in urine.	CURD FORMATION EXPERIMENT- EFFECT OF VARIOUS FACTORS ON CURD FORMATION LIKE INCUBATION TEMPERATURE, TEMPERATURE OF MILK, INNOCULUM, VESSEL USED.	1.QUESTION-ANSWERS FROM BACK EXERCISE OF NCERT BOOK AND NCERT EXEMPLAR QUESTIONS 2. DRAW AND PRACTICE THE STRUCTURES OF VARIOUS BIOMOLECULES	https://www.bankofbiology.com/2018/08/biomolecule-s-powerpoint-presentation.html		
11	• CH-10 Cell Cycle and Cell Division	3. Makes efforts to conserve environment realizing the inter-dependency and inter-relationship in the biotic and abiotic factors of environment 4. Relates processes and phenomena with causes and effects. 5. Differentiates phenomena and processes based on certain characteristics	15. Study of mitosis in onion root tip cells and animals cells (grasshopper) through permanent slides		1.QUESTION-ANSWERS FROM BACK EXERCISE OF NCERT BOOK AND NCERT EXEMPLAR QUESTIONS 2. DIAGRAMS PRACTICE	https://diksha.gov.in/play/collection/do_31310347527677542411483?contentId=do_3130010321069096961259 https://www.bankofbiology.com/2017/04/cell-cycle-and-cell-division-ppt.html		

				and salient features				
			PERIODIC TEST-1 (MM-50)		8. Study of imbibition in seeds/raisins.	PERIODIC TEST-1		
OCTOBER	14	6	UNIT-4 • CH-11 Transport in Plants	1.Explains efficiently systems, relationships, processes and phenomena such as; organ systems	16. Study of osmosis by potato osmometer.		1.QUESTION-ANSWERS FROM BACK EXERCISE OF NCERT BOOK AND NCERT EXEMPLAR QUESTIONS 2. DEFINE ALL TERMS GIVEN IN THE CHAPTER	https://diksha.gov.in/play/collecion/do_31310347527677542411483?contentId=do_3130010321517117441295 https://www.bankofbiology.com/2020/06/transport-in-plants-ppt-pdf.html
		6	• CH-12 Mineral Nutrition	2.Draws labelled diagrams, flow charts, concept maps, graphs .	17. Study of plasmolysis in epidermal peels (e.g.- <i>Rhoeo</i> leaves)		1.QUESTION-ANSWERS FROM BACK EXERCISE OF NCERT BOOK AND NCERT EXEMPLAR QUESTIONS 2. TABULATE THE MINERAL ELEMENT, FORM OF ABSORPTION, ROLE IN PLANT AND HUMAN BODY	https://diksha.gov.in/play/collecion/do_31310347527677542411483?contentId=do_3130010321929256961275 https://www.bankofbiology.com/2017/05/mineral-nutrition-powerpoint.html

NOVEMBER	24	12	<ul style="list-style-type: none"> CH-13 Photosynthesis in Higher Plants. 	3. Prepares slides for study the structural intricacies of life forms and structural organizations	18. Comparative study of the rates of transpiration in upper and lower surface of leaves	LEAF DISC EXPERIMENTS TO SEE THE EFFECT OF VARIOUS FACTORS ON RATE OF PHOTOSYNTHESIS LIKE SIZE OF LEAF DISC, TYPES OF LEAVES USED, COLOUR OF LEAVES USED, AMOUNT OF SODIUM BI CARBONATE USED.	1.QUESTION-ANSWERS FROM BACK EXERCISE OF NCERT BOOK AND NCERT EXEMPLAR QUESTIONS 2.PREPARATION OF FLOW CHARTS AND CYCLES.	https://diksha.gov.in/play/collecion/do_31310347527677542411483?contentId=do_3130010322417664001248 https://www.bankofbiology.com/2020/06/photosynthesis-ppt-pdf-class-11-plus-1.html
		10	<ul style="list-style-type: none"> CH-14 Respiration in Plants 	4.Handles laboratory tools, and apparatuses, instruments and devices properly for performing activities/ experiments/ investigations such as; uses foldscope/microscope	19. Separation of plant pigments through paper chromatography.	<u>GAMIFICATION IN LEARNING-</u> https://create.kahoot.it/share/chapter-14-respiration-in-plants/3420400d-0438-4712-92f6-23c4aca6a8f6	1.QUESTION-ANSWERS FROM BACK EXERCISE OF NCERT BOOK AND NCERT EXEMPLAR QUESTIONS 2.PREPARATION OF FLOW CHARTS AND CYCLES	https://www.bankofbiology.com/2017/04/respiration-in-plants-ppt.html
		6	<ul style="list-style-type: none"> CH-15 Plant - Growth and Development 	5.Plans and conducts investigations and experiments to arrive at and verify the facts, principles, phenomena, or to seek answers to queries on their own,	20. Study of the rate of respiration in flower buds/leaf tissue and germinating seeds.	COLLECTION OF GRAPHS AND THEIR STUDY AND INTERPRETATION RELATED QUESTIONS	1.QUESTION-ANSWERS FROM BACK EXERCISE OF NCERT BOOK AND NCERT EXEMPLAR QUESTIONS	https://diksha.gov.in/play/collecion/do_31310347527677542411483?contentId=do_3130010323551109121297 https://www.bankofbiology.com/2018/08/plant-growth-and-development-

								powerpoint.html
			HALF YEARLY EXAMINATION(MM-70)	6. Analyses and interprets graphs and figures	HALF YEARLY EXAMINATION	HALF YEARLY EXAMINATION		
DECEMBER	14	6	UNIT-5 • CH-16 Digestion and Absorption	1.Explains efficiently systems, relationships, processes and phenomena such as; organ systems	21. Observation and comments on the experimental set up for showing:		1.QUESTION-ANSWERS FROM BACK EXERCISE OF NCERT BOOK AND NCERT EXEMPLAR QUESTIONS 2. DIAGRAMS PRACTICE	https://diksha.gov.in/play/collection/do_31310347527677542411483?contentId=do_3130010324131676161252 https://www.bankofbiology.com/2018/08/digestion-and-absorption-powerpoint.html
		6	CH-17 Breathing and Exchange of Gases	2.Uses scientific conventions, symbols, and equations to represent various quantities,units.	a) Anaerobic respiration b) Phototropism c) Effect of apical bud removal	AIL-FRACTAL GOEMTRY IN LUNGS , https://drive.google.com/file/d/1dtrnLi3zF9IK8o-V71BZNYoPN4Fnzl43/view?usp=sharing WORD SEARCH PUZZLE	1. QUESTION-ANSWERS FROM BACK EXERCISE OF NCERT BOOK AND NCERT EXEMPLAR QUESTIONS 2. DIAGRAMS PRACTICE	https://diksha.gov.in/play/collection/do_31310347527677542411483?contentId=do_313001032598249472154 https://www.bankofbiology.com/2018/08/breathing-and-exchange-of-gases.html

		6	<ul style="list-style-type: none"> CH-18 Body Fluids and Circulation 	3.Communicates the findings and conclusions effectively, such as, those derived from experiments, activities, and projects both in oral and written form using appropriate figures, tables, graphs, and digital forms, takes part in the discussions, argumentations etc.	22. Study of human skeleton and different types of joints with the help of virtual images/models only.	COUNTING THE PULSE IN ONE MINUTE	1.QUESTION-ANSWERS FROM BACK EXERCISE OF NCERT BOOK AND NCERT EXEMPLAR QUESTIONS 2. DIAGRAMS PRACTICE	https://diksha.gov.in/play/collecion/do_31310347527677542411483?contentId=do_313001032654692352155 https://www.bankofbiology.com/2018/08/body-fluids-and-circulation-powerpoint.html
Jan-22	25	6	<ul style="list-style-type: none"> CH-19 Excretory Products and Their Elimination 	4. Applies scientific concepts of Biology in daily life and solving problems		PREPARE A TOY OF HUMAN SKELETON USING STRAWS AND STICKS	1. QUESTION-ANSWERS FROM BACK EXERCISE OF NCERT BOOK AND NCERT EXEMPLAR QUESTIONS 2.DIAGRAMS PRACTICE	https://diksha.gov.in/play/collecion/do_31310347527677542411483?contentId=do_313001032688672768157 https://www.bankofbiology.com/2018/08/excretory-products-and-their.html
		5	<ul style="list-style-type: none"> CH-20 Locomotion and Movement 			https://drive.google.com/file/d/1MtM_lacPSiK91IU7sesMoAQJloYQ3EIK/view?usp=sharing WORD SEARCH PUZZLE	1.QUESTION-ANSWERS FROM BACK EXERCISE OF NCERT BOOK AND NCERT EXEMPLAR QUESTIONS 2.DIAGRAMS PRACTICE	https://diksha.gov.in/play/collecion/do_31310347527677542411483?contentId=do_313001032751030272159 https://www.bankofbiology.com/2018/08/locomotion-and-movement-powerpoint.html

			PERIODIC TEST-II (MM-50)			SPORTS INTEGRATED PROJECT- Impact of regular exercise on working of various systems PERIODIC TEST -II		
Feb-22	12	6	<ul style="list-style-type: none"> CH-21 Neural Control and Coordination 	<p>5.Exhibits ethics and values of honesty, objectivity, rational thinking and freedom from myth and superstitious beliefs while taking decisions.</p> <p>6. Draws labeled diagrams, flow charts, tables, etc.</p>		<p>AIL-FRACTAL GEOMETRY IN BRAIN</p>	<p>1.QUESTION-ANSWERS FROM BACK EXERCISE OF NCERT BOOK AND NCERT EXEMPLAR QUESTIONS</p> <p>2.DIAGRAMS PRACTICE</p>	<p>https://diksha.gov.in/play/collecion/do_31310347527677542411483?contentId=do_31307124705936998411077 ,</p> <p>https://diksha.gov.in/play/collecion/do_31310347527677542411483?contentId=do_313001032823275520157</p> <p>https://www.bankofbiology.com/2017/02/neural-control-n-coordination.html</p>
		5	<ul style="list-style-type: none"> CH-22 Chemical Coordination and Integration 	<p>7. Differentiates phenomena and processes based on certain characteristics and salient features.</p>			<p>1.QUESTION-ANSWERS FROM BACK EXERCISE OF NCERT BOOK AND NCERT EXEMPLAR QUESTIONS</p> <p>2.PREPARE A</p>	<p>https://diksha.gov.in/play/collecion/do_31310347527677542411483?contentId=do_313001032844804096160</p> <p>https://www.bankofbiology.com/2018/08/chemical-</p>

							TABLE OF ENDOCRINE GLANDS, HORMONES , FUNCTIONS AND DISEASES	coordination-and-integration.html
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FEBRUARY 22 SYLLABUS COMPLETION BY FEBRUARY 15TH
REVISION
PRACTICAL EXAM FOR SEE.

Mar-22 SESSION ENDING EXAMINATION-2022

THEORY			
Unit	Title	No. of Periods	Marks
I	Diversity of Living Organisms	23	10
II	Structural Organization in Plants and Animals	23	12
III	Cell: Structure and Function	34	14
IV	Plant Physiology	40	17
V	Human Physiology	40	17
Total		160	70

OTHER LINKS-

1. E-resource available on NROER National Repository of Open Educational Resources (NROER)
<https://nroer.gov.in/home/e-library/>
2. NCERT Official – YouTube
<https://www.youtube.com/channel/UCT0s92hGjqLX6p7qY9BBrSA>
3. YOU TUBE VIDEO LINKS FOR ALL CHAPTERS
<https://docs.google.com/document/d/1jsIJFwTtHuTRD6piP9RKliNxxwihyz14e8FlukEhZ6VD0/edit?usp=sharing>
4. MCQS LINK FOR ALL CHAPTERS

<https://drive.google.com/file/d/1ObQhsD0hQuz7r5UNrnc8TqDu8MPU6bYV/view?usp=sharing>

5. ASSERTION REASONING QUESTIONS LINK FOR ALL CHAPTERS

https://drive.google.com/file/d/1hFYnORPINvZL54wJHfr9suITjLI5_L0a/view?usp=sharing

6. INTERACTIVE WORKSHEETS ON H5P

<https://biologyrevision2020.blogspot.com/p/links-to-h5pinteractive-worksheets.html>

7. PRACTICALS-SECTION-B SPECIMEN

<https://drive.google.com/file/d/1gPG2Peicy442pFXqGF6LY-zSNWcCYehZ/view?usp=sharing>

8. NOTES OF ALL CHAPTERS LINK

https://drive.google.com/file/d/1oGev8-hlpj3UI7ZSqnlr7v_d04Ze0v4h/view?usp=sharing

CONDUCT OF ONLINE CLASSES

SL.NO	CHALLENGES FACED DURING ONLINE CLASSES IN PREVIOUS SESSION	ACTION PLAN TO OVERCOME IN THIS SESSION
1	LESS THAN 100PERCENT ATTENDANCE	Calling the parents and students and motivating towards learning
2	STUDENTS DONOT SWITCH ON THE CAMERA OR MIKE	counselling intermittently during the class and personal call
3	STUDENTS WHEN TOLD TO SPEAK LEAVE THE CLASS OR REPORT OF LAGGING VOICE	counselling intermittently during the class and personal call
4	STUDENTS JOIN THE CLASS AND ARE NOT ACTUALLY PRESENT	counselling intermittently during the class and personal call
5	STUDENTS DONOT SUBMIT THE NOTES, PROJECTS, ASSIGNMENTS ON TIME	counselling intermittently during the class and personal call
6	STUDENTS LEAVE THE STATION WITHOUT INTIMATION	Counselling of parents by personal call and in PTM
7	DATA EXHAUSTION AND NETWORK ISSUES	Parents to be counselled for sufficient data and better network or different network options. Topic taught is shared in classroom also
8	INABILITY OF PARENTS TO MONITOR THEIR WARDS	Counselling of parents by personal call and in PTM
9	LACK OF COMPUTER KNOWLEDGE/INABILITY OF STUDENTS TO MAKE PDF	Peer learning and asking students to pay attention when the process is explained in class and do self practice.
10	TIME MANAGEMENT	In counselling sessions students are guided to make daily time table and stick to it until there is an emergency

MY STATEMENT OF TEACHING PHILOSOPHY

I believe the education is the basic human right and all children must get opportunities to gain education. At the same time I also believe that there are individual differences among students and they cannot learn at the same pace and cannot think and express in similar ways. Teaching is a process of learning from students, colleagues and parents. This is a lifelong process where continuous up gradation is must.

For me,education should aim at making my students capable of earning well and leading a decent life so that they donot have to struggle for fulfilling their basic needs. This would give them time to think for the betterment of society, take care of their children , their education.They should be able to apply their knowledge to real life situations and overcome the problems in a judicious manner. To be able to do this I link knowledge to real life , previous knowledge and other subjects. I ask a number of applicative questions while discussing the topics. I also ask questions which would make them think and ponder and go beyond the text book to search for the answers.

I during this lockdown period have also developed interest in doing small simple experiments in home laboratory to make the students also do the same to learn how the scientific enquiry is made in a step wise manner. This is also intended to develop in them the problem solving approach in a step wise fashion taking one variable at a time. Videos, power point presentations, kahoot,white board, digital board and various multimedia platforms are being used to make teaching learning impressive while we are restricted to online mode Being a Biology teacher, I also try to make students aware of various social evils, myths and superstitions so that they do not fall victims to such thoughts and propagate them further.

I provide congenial environment and encourage students to express themselves freely. I believe in accepting changes and setting an example before them. I also learn from my students. I use various techniques to discipline them , to make them timely complete the tasks like positive and negative motivation. This also is necessary for behavior modification and for value education.

Various techniques for assessment of the learning and to know the learning gaps are done. Regular oral questioning, reading practice, short tests, MCQs and CCT questions are asked to initiate young minds into critical thinking and evaluation. Various projects, quizzes, discussions, self assessment, peer assessment are also done for assessment.

My goal of teaching has been to make my students successful individuals, worthy for self, family, society and country. They should be able to work collaboratively, at the same time they should be able to think independently, take decisions and be a leader.

Geetu

PGT BiologyKV CISF Bhilai

SWOT ANALYSIS (TO BE DONE BY STUDENT, PARENT AND TEACHER)

Swot Analysis-The full form of SWOT is Strengths, Weaknesses, Opportunities, and Threats. The importance of SWOT analysis for a student is that it helps achieve a clear picture of where he/she stands. SWOT analysis also helps a student identify their improvement areas and in setting goals. Doing a SWOT analysis for oneself/ for student requires time and thought. Please be patient and fill in all the columns.

NAME OF STUDENT-

CLASS AND SECTION-

WHAT IS YOUR GOAL IN LIFE? _____

1. STRENGTHS-

- A. List the things you are good at-
- B. Identify things that help you when you have a problem-
- C. Mention the ways in which you stand out from the crowd-
- D. Mention your academic performance in the past three years-

2. WEAKNESSES-

- A. Note the areas where there is scope for improvement in your personality and life-
- B. Which area will you take up now for improvement and make it your strength-
- C. Which area of academics will you focus to improve your academic performance this year?

3. OPPORTUNITIES-

- A. After knowing your weaknesses and strengths now you mention the fields where you can excel. Mention all the areas where you have opportunities to excel-
- B. Shortlist the activities / areas as per your interest, strengths and weaknesses. List as many activities as you can achieve.
- C. Search if these opportunities are in the neighborhood and then get started-

4. THREATS-

- A. List the things that would go wrong while you are trying to achieve your goals –
- B. What are your fears / what scares you-
- C. What are the demotivating factors for you-
- D. How do you think you can overcome your fears-

CONCLUSION- Now we have done the SWOT analysis. You know your goal and where you stand currently. So decide what to prioritize. Write down your road map to achieve your goal. You can seek help of your elders in this process.

Biology LESSON PLAN CLASS XI

Topic/Lesson	1. THE LIVING WORLD , 2. BIOLOGICAL CLASSIFICATION, 3. PLANT KINGDOM			
Period Required	3+5+7			
Date of Commencement	20-07-21			
Date of Completion	31-07-21			
Gist of Lesson Focused skills/Competencies	Targeted learning outcomes (TLO)	Teaching learning activities planned for achieving the TLO using suitable resources and classroom management strategies	Assessment Strategies Planned	Co-relation with other subjects
Lesson-1 : The living world Being alive, characteristics of living organisms, respiration, metabolism, consciousness, response to stimuli, growth, reproduction, Diversity, nomenclature, Binomial nomenclature, species, genus, family, order, class , phylum, kingdom, Hierarchy of classification, taxonomy, Taxonomic aids, zoological park, botanical garden, herbarium, museum, taxonomic key Lesson : Biological classification Two kingdom classification, five kingdom classification, Advantages of five kingdom Classification ,Basis of classification, Characteristics of the following	1. differentiates organisms, phenomena and processes based on certain characteristics and salient features. 2.Applies scientific terminology for organisms, processes, and phenomena based on internationally accepted conventions like Binomial nomenclature, systematics , taxonomy, etc.3. explains efficiently systems, relationships, processes and phenomena like reproduction in different groups of plants, bacteria, etc. 4. plans and conducts investigations and experiments to arrive at and verify the facts, principles, phenomena, or to seek answers to queries on their own.5.	1. Preparation of digital herbarium . 2. writing binomial nomenclature for common organisms. 3. Observation of various available e-content - videos and ppts on these topics. 4. Observation of various relevant specimens.	1.MCQs in Google form after every chapter	CHEMISTRY- Presence of chemicals in plants help in plant classification . GEOGRAPHY- Land forms, climate decide the animals and plants and microorganisms found in that area. ECONOMICS- Study of

<p>kingdom and their examples, Kingdom Monera, Kingdom Bacteria, Kingdom Archaeobacteria,, classification of bacteria on the basis of their shape and cell structure,, role of bacteria, chemosynthetic bacteria , Kingdom Protista, Chrysophytes, Dinoflagellates, Euglenoids, Slime Moulds, Protozoans, , Kingdom Fungi- Phycomycetes, Ascomycetes, Basidiomycetes, Dueteromycetes Kingdom Plantae, Kingdom Animalia, Alternation of Generation, Viruses Viroids and lichens, Mycoplasma</p> <p>UNIT : DIVERSITY IN THE LIVING WORLD</p> <p>Lesson : Plant kingdom</p> <p>Artificial system of classification, natural classification system, phylogenetic classification system, numerical taxonomy, chemotaxonomy and its advantages,</p> <p>Algae, types of algae, green algae, brown algae and red algae, their characteristics and uses,</p> <p>Bryophytes - protonema stage, leafy stage, Pteidophytes ,</p> <p>Gymnosperm characteristics of gymnosperms, Alternation of generation</p> <p>Angiosperm, characteristics of angiosperms, classification .</p>	<p>applies scientific concepts in daily life and solving problems, such as use of microbes , plants as food, for treatment of diseases.6.appreciates technological applications and processes in Biology towards the improvement in the quality of life and sustainable development</p>			<p>properties of plants , animals and microbes help us to know how these are econimically beneficial to us and how we can extract the products economically from them</p>
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Biology LESSON PLAN CLASS XI

Topic/Lesson	1. THE LIVING WORLD(TAXONOMIC AIDS)			
Period Required	1(40 MINUTES)			
Date of Commencement	22-07-2021			
Date of Completion	22-07-2021			
General Aims	<ol style="list-style-type: none"> 1. To impart knowledge about various taxonomic aids. 2. To understand the need and importance of various taxonomic aids. 			
Instructional objectives	<ol style="list-style-type: none"> i. Students will know about different taxonomic aids. ii. Students will know differentiate between taxa of classification. iii. Students will know the characteristic features of a taxon. iv. Students will be able to differentiate and identify organisms on the basis of similarities and differences. 			
Teaching Aids Used During Online classes	White / green/ smart board, marker pens/chalk/stylus, power point presentation			
Previous Knowledge	<ol style="list-style-type: none"> 1.Students know hierarchy of classification. 2. Students can identify the characteristic features of living organisms. 			
Gist of Lesson Focused skills/Competencies	Targeted learning outcomes (TLO)	Teaching learning activities planned for achieving the TLO using suitable resources and classroom management strategies	Assessment Strategies Planned	Co-relation with other subjects
Taxonomic aids, zoological park, botanical garden, herbarium, museum, taxonomic key and other aids like monograph, flora, catalogue discussed with examples, advantages , disadvantages and comparative study	1. Explains efficiently systems, relationships, processes and phenomena between various taxonomic aids. 2. plans and conducts investigations and experiments to arrive at and verify the facts, principles, phenomena, or to seek answers to queries on their own.	<ol style="list-style-type: none"> 1. Powerpoint presentation 2. Preparation of digital herbarium 	Assessment as learning- orally questions asked -1.Differentiate between museum and zoo as a taxonomic aid. 2. What are the disadvantages of herbarium as a taxonomic aid ? 3. How is key analytical in nature?	CHEMISTRY- Antifungal powder is applied on properly dried plant specimens before making herbarium.

Recapitulation- Oral questioning **Homework-** 1.To read the topic from the NCERT Book.To answer to questions related to the topic from NCERT exemplar questions.

ACADEMIC PLAN OF MATHEMATICS :2021-22 CLASS-XI SPLIT -UP SYLLABUS(By U K Kurrey, PGT Mathematics, K V No1 Raipur, Shift-1)

Month	Number of working days	Number of periods	Name of the Unit / Chapter/Topic	Learning outcomes to be covered	Suggested Projects/ Labactivities under internal Assessment	Assignment for Students	Assessment plan	Important link Diksha/ NCERT/ YouTube video link and Ppt
JULY	7	10	Sets: Sets and their representations, Empty set, Finite and Infinite sets, Equal sets, Subsets, Subsets of a set of real numbers especially intervals (with notations). Power set. Universal set. Venn diagrams. Union and Intersection of sets. Difference of sets. Complement of a set. Properties of Complement.	Develops the idea of Set from the earlier learnt concepts in number system, geometry etc.	Activity 1: To find the number of subsets of a given set and verify that if a set has n number of elements, then the total number of subsets is 2^n	1. Multiple Choice Questions. 2. Give the Case study question related to topic. 3. Exercise which are given in textbook. 4. Question from Exemplar NCERT.		https://diksha.gov.in/play/collection/do_3130736100499_2102412790?contentId=do_31308876_54025461761610
AUGUST	24	16	Relations & Functions: Ordered pairs. Cartesian product of sets. Number of elements in the Cartesian product of two finite sets. Cartesian product of the set of reals with itself (up to $R \times R \times R$). Definition of relation, pictorial diagrams, domain, co-domain and range of a relation. Function as a special type of relation. Pictorial representation of a function, domain, co-domain and range of a function. Real valued functions, domain and range of these functions, constant, identity, polynomial, rational, modulus, signum, exponential, logarithmic and greatest integer functions,	Identifies relations between different sets.	Activity2: To verify that for two sets A and B, $n(A \times B) = pq$ and the total number of relations from A to B is 2^{pq} , where $n(A) = p$ and $n(B) = q$	1. Multiple Choice Questions. 2. Give the Case study question related to topic. 3. Exercise which are given in textbook. 4. Question from Exemplar NCERT		https://diksha.gov.in/play/collection/do_3130736100499_2102412790?contentId=do_31308876_55061995521919

			with their graphs. Sum, difference, product and quotients of functions.					
AUGUST		20	<p>Trigonometric Functions: Positive and negative angles. Measuring angles in radians and in degrees and conversion from one measure to another. Definition of trigonometric functions with the help of unit circle. Truth of the identity $\sin 2x + \cos 2x = 1$, for all x. Signs of trigonometric functions. Domain and range of trigonometric functions and their graphs. Expressing $\sin(x \pm y)$ and $\cos(x \pm y)$ in terms of $\sin x$, $\sin y$, $\cos x$ & $\cos y$ and their simple applications. Deducing identities like the following: $\tan(x \pm y) = \frac{\tan x \pm \tan y}{1 \mp \tan x \tan y}$, $\cot(x \pm y) = \frac{\cot x \cot y \mp 1}{\cot y \pm \cot x}$, $\sin \alpha \pm \sin \beta = 2 \sin \frac{1}{2}(\alpha \pm \beta) \cos \frac{1}{2}(\alpha \mp \beta)$ $\cos \alpha + \cos \beta = 2 \cos \frac{1}{2}(\alpha + \beta) \cos \frac{1}{2}(\alpha - \beta)$ $\cos \alpha - \cos \beta = -2 \sin \frac{1}{2}(\alpha + \beta) \sin \frac{1}{2}(\alpha - \beta)$</p> <p>Identities related to $\sin 2x$, $\cos 2x$, $\tan 2x$, $\sin 3x$, $\cos 3x$ and $\tan 3x$. General solution of trigonometric equations of the type $\sin y = \sin a$, $\cos y = \cos a$ and $\tan y = \tan a$.</p>	Relates earlier learnt concept of trigonometric ratios to functions and evolves the idea of trigonometric functions.	<p>Activity 3: To verify the relation between the degree measure and the radian measure of an angle.</p> <p>Activity 4: To find the values of sine and cosine functions in second, third and fourth quadrants using their given values in first quadrant.</p>	1. Multiple Choice Questions. 2. Give the Case study question related to topic. 3. Exercise which are given in textbook. 4. Question from Exemplar NCERT		https://diksha.gov.in/play/collection/do_3130736100499_2102412790?contentId=do_31309369760932659211291
SEPTEMBER	24	20	<p>Principle of Mathematical Induction: Process of the proof by induction, motivating the application of the method by looking at natural numbers as the least inductive subset of real numbers. The principle of mathematical induction and simple applications.</p> <p>Complex Numbers and Quadratic</p>	Demonstrates deductive thinking by using technique of mathematical induction for establishing generalized mathematical	<p>Activity 4: To interpret geometrically the meaning of $i = \sqrt{-1}$ and its integral powers</p>	1. Multiple Choice Questions. 2. Give the Case study question related to topic. 3. Exercise which are given in textbook.	First Periodic test	https://diksha.gov.in/play/collection/do_3130736100499_2102412790?contentId=do_313068393197518848115354

			<p>Equations: Need for complex numbers, especially $i = \sqrt{-1}$, to be motivated by inability to solve some of the quadratic equations. Algebraic properties of complex numbers. Argand plane and polar representation of complex numbers. Statement of Fundamental Theorem of Algebra, solution of quadratic equations (with real coefficients) in the complex number system. Square root of a complex number.</p>	statements. Extends the idea of real numbers to a larger system of complex numbers.		4.Question from Exemplar NCERT		https://diksha.gov.in/play/collection/do_31307361004992102412790?contentId=do_313113591104602112131
		16	<p>Linear Inequalities: Linear inequalities. Algebraic solutions of linear inequalities in one variable and their representation on the number line. Graphical solution of linear inequalities in two variables. Graphical method of finding a solution of system of linear inequalities in two variables</p>	Demonstrates strategies for solving systems of linear inequalities.				https://diksha.gov.in/play/collection/do_31307361004992102412790?contentId=do_3131148917468037121109
OCTOBER	16	10+15	<p>Permutations and Combinations: Fundamental principle of counting. Factorial n. (n!) Permutations and combinations, derivation of Formulae for ${}^n P_r$ and ${}^n C_r$ and their connections, simple applications. Binomial Theorem: Historical perspective, statement and proof of the binomial theorem for positive integral indices. Pascal's triangle, General and middle term in binomial expansion, simple applications.</p>	Applies the ideas of permutations and combinations to daily life situations of arranging and grouping the objects. Develops the idea of Binomial theorem for a	Activity 5: To construct a Pascal's Triangle and to write binomial expansion for a given positive integral exponent.	1. Multiple Choice Questions. 2. Give the Case study question related to topic. 3. Exercise which are given in textbook. 4. Question from Exemplar NCERT		https://diksha.gov.in/play/collection/do_31307361004992102412790?contentId=do_31310774761694822413036 https://diksha.gov.in/play/collection/do_31307361004992102412790?contentId=do_31310774804708556813579
NOVEMBE	21	15	Sequence and Series:	Extends the ideas	Activity 6: To	1. Multiple Choice	Half yearly	https://diksha.gov.in

R			Sequence and Series. Arithmetic Progression (A. P.). Arithmetic Mean (A.M.) Geometric Progression (G.P.), general term of a G.P., sum of n terms of a G.P., infinite G.P. and its sum, geometric mean (G.M.), relation between A.M. and G.M. Formulae for the following special sums.	related to Arithmetic progressions learnt earlier to new types of sequences and their series.	obtain formula for the sum of squares of first n-natural numbers. Activity 7: To demonstrate that the Arithmetic mean of two different positive numbers is always greater than the Geometric mean	Questions. 2.Give the Case study question related to topic. 3.Exercise which are given in textbook. 4.Question from Exemplar NCERT	Exam.	n/play/collection/d o_3130736100499 2102412790?cont ntId=do_31311350 8816404480132
		15	Straight Lines: Brief recall of two-dimensional geometry from earlier classes. Shifting of origin. Slope of a line and angle between two lines. Various forms of equations of a line: parallel to axis, point -slope form, slope-intercept form, two-point form, intercept form and normal form. General equation of a line. Equation of family of lines passing through the point of intersection of two lines. Distance of a point from a line.	Constructs different forms of a straight line using the earlier learnt concepts of coordinate geometry.		11. Multiple Choice Questions. 2.Give the Case study question related to topic. 3.Exercise which are given in textbook. 4.Question from Exemplar NCERT		https://diksha.gov.i n/play/collection/d o_3130736100499 2102412790?cont ntId=do_31309424 988952166411911
DECEMBER	19	15	Conic Sections: Sections of a cone: circles, ellipse, parabola, hyperbola, a point, a straight line and a pair of intersecting lines as a degenerated case of a conic section. Standard equations and simple properties of parabola, ellipse and hyperbola. Standard equation of a circle.	Analyses different curves like circles, ellipses, parabolas and hyperbolas based on the ideas developed for straight lines using coordinates.	Activity 8:To construct an ellipse using a rectangle.	1. Multiple Choice Questions. 2.Give the Case study question related to topic. 3.Exercise which are given in textbook. 4.Question from Exemplar NCERT		https://diksha.gov.i n/play/collection/d o_3130736100499 2102412790?cont ntId=do_31310774 832458956813582

		12	Introduction to Three-dimensional Geometry: Coordinate axes and coordinate planes in three dimensions. Coordinates of a point. Distance between two points and section formula.	Develops strategies of locating a point in three dimensions based on the concepts of two dimensional coordinate geometry.	Activity 9:To explain the concept of octants by three mutually perpendicular planes in space	1. Multiple Choice Questions. 2.Give the Case study question related to topic. 3.Exercise which are given in textbook. 4.Question from Exemplar NCERT		https://diksha.gov.in/play/collection/do_3130736100499_2102412790?contentId=do_31310774_874161152014395
JANUARY	24	12	Limits and Derivatives: Derivative introduced as rate of change both as that of distance function and geometrically. Intuitive idea of limit. Limits of polynomials and rational functions trigonometric, exponential and logarithmic functions. Definition of derivative relateit to slope of tangent of the curve, derivative of sum, difference, product and quotient of functions. Derivatives of polynomial and trigonometric functions..	Evolves the concepts of limit and derivative of a function by analyzing the behavior of functions when the corresponding variable approaches a certain value		1. Multiple Choice Questions. 2.Give the Case study question related to topic. 3.Exercise which are given in textbook. 4.Question from Exemplar NCERT	Second Periodic test	https://diksha.gov.in/play/collection/do_3130736100499_2102412790?contentId=do_31311423_82149877761276
		8	Mathematical Reasoning: Mathematically acceptable statements. Connecting words/ phrases - consolidating the understanding of "if and only if (necessary and sufficient) condition", "implies", "and/or", "implied by", "and", "or", "there exists" and their use through variety of examples related to real life and Mathematics. Validating the statements involving the connecting words, difference among contradiction, converse and contrapositive.	Relates deductive reasoning to the mathematical statements studied so far.		1. Multiple Choice Questions. 2.Give the Case study question related to topic. 3.Exercise which are given in textbook. 4.Question from Exemplar NCERT		https://diksha.gov.in/play/collection/do_3130736100499_2102412790?contentId=do_31311297_814724608012217
		16	Statistics:	Applies Measures of		1. Multiple Choice		https://diksha.gov.i

			Measures of Dispersion: Range, mean deviation, variance and standard deviation of ungrouped/grouped data. Analysis of frequency distributions with equal means but different variances.	dispersion to get a better interpretation of data of different daily life situations		Questions. 2.Give the Case study question related to topic. 3.Exercise which are given in textbook. 4.Question from Exemplar NCERT		n/play/collection/do_31307361004992102412790?contentId=do_3131142385011261441169
FEBRUARY	15	15	Probability: Random experiments; outcomes, sample spaces (set representation). Events; occurrence of events, 'not', 'and' and 'or' events, exhaustive events, mutually exclusive events, Axiomatic (set theoretic) probability, connections with other theories of earlier classes. Probability of an event, probability of 'not', 'and' and 'or' events.	Builds up the axiomatic approach to Probability through the terms, random experiment, Sample space, events etc.	Activity 10:To write the sample space, when a coin is tossed once, two times, three times, four times.	1. Multiple Choice Questions. 2.Give the Case study question related to topic. 3.Exercise which are given in textbook. 4.Question from Exemplar NCERT	Internal Assessment Examination (lab activity)	https://diksha.gov.in/play/collection/do_31307361004992102412790?contentId=do_31311334091370496011758
MARCH			Revision work for SEE				SEE	

ACADEMIC PLAN OF MATHEMATICS :2021-22 CLASS-XI -MICRO LESSON PLAN

DATE	25/07/2021	UNIT	1	DATE OF COMMENCEMENT	25/07/2021
CLASS	XI	TOPIC	Sets	DATE OF COMPLETION	25/7/2021
SUBJECT	Mathematics	NO OF PERIODS REQUIRED	1	DURATION	40 min
Contents	1.Definition of Sets 2. Representation of sets in Roster form and Set builder form	General Aims	1.To understanding the concept of sets 2. To understanding the concept of representation of sets		
Instructional	Students will be able to understand	Application	Students should apply the knowledge of sets in school		

Objectives	the representation of various form of sets.		activity and real life		
Teaching aids used in online class	The following teaching aids will be used: 1. PPT 2. WhatsApp and You tube 3.laptop, smart board, internet connection	Previous knowledge	1 What do you mean by well-defined objects and not well-defined objects 2. Number system- real numbers		
Announcement of topic	Today we are study about Sets and their representation	Presentation	By power point presentation of sets		
Points	Targeted learning outcomes (TLO) (BY Teacher)	Activity	Teaching learning activities planned for achieving the TLO using suitable resources and classroom management strategies (by students)	Assessment as learning	Home Work
(i)Introduction of sets (ii) Representation of sets in Roster form and Set builder form	1.In this lesson, students can learn about collection of well-defined objects and non-well -defined objects. 2.Develop the concept of roster and Set builder form of sets	1 Write the well -defined collections of your city	let us know first what is a set. A set is a well-defined collection of objects, whose elements are fixed and cannot vary. It means set doesn't change from person-to-person if we speak about the set of rivers in India, if we say the set of best players in a football team, then the name of footballers could vary every time weak about the best players.	Develop the idea to convert Roster form to Set builder form	1.Write sets in the roaster from (i) $A = \{x : x \in \mathbf{R}, 2x + 11 = 15\}$ (ii) $B = \{x x^2 = x, x \in \mathbf{R}\}$

ACADEMIC PLAN OF MATHEMATICS :2021-22 CLASS-XI MACRO LESSON PLAN

CLASS	XI	NO OF PERIODS REQUIRED	15
SUBJECT	Mathematics	DATE OF COMMENCEMENT	1/09/2021
TOPIC	Permutation and combination	DATE OF COMPLETION	15/09/2021
Gist of Lesson Focused skills/Competencies	Targeted learning outcomes (TLO)	Teaching learning activities planned for achieving the TLO using suitable resources and classroom management	Assessment Strategies Planned Home Assignment Co-relation with other subject

		strategies			
<p>Permutation and combination:</p> <p>(a) Fundamental principle of counting.</p> <p>(b) Factorial n. (n!)</p> <p>(c) Permutations</p> <p>(d) Derivation of Formulae for ${}^n P_r$ their connections, simple applications</p> <p>(e) Combinations</p>	<p>1 Develop the Counting Techniques Students develop an understanding of combinatorial reasoning, using various types of diagrams and the fundamental counting principle to find numbers of outcomes and related probabilities. They also use simulations to solve counting</p> <p>2 Use the fundamental counting principle to find the number of outcomes in a problem situation.</p>	<p>Theorem 1 The number of permutations of n different objects taken r at a time, where $0 < r \leq n$ and the objects do not repeat is $n(n-1)(n-2) \dots (n-r+1)$, which is denoted by ${}^n P_r$</p> <p>Theorem 2 The number of permutations of n different objects taken r at a time, where repetition is allowed, is n^r</p> <p>Theorem 3 The number of permutations of n objects, where p objects are of the same kind and rest are all different = $n! / r!$</p> <p>Theorem 4 The number of permutations of n objects, where p_1 objects are of one kind, p_2 are of second kind, ..., p_k are of kth kind and the rest, if any, are of different kind is $n! / p_1! \cdot p_2! \dots p_k!$</p> <p>Explain the concept of combination and solve real life problems.</p>	<p>1. Online MCQ test through google form. .</p> <p>2. Give case study to the students related to the topic</p> <p>3. Conduct of class test .</p>	<p>1 The following work was assigned:</p> <p>1. Exercise which are given in the book</p> <p>2. Some question from other books</p>	<p>This chapter is co related with other subject also</p> <p>Permutation and combinations is used in field of engineering economics etc.</p>

Academic planning of Mathematics (2021-22)

(3) Statement of teaching philosophy (STP) of mathematics of class XI and XII

Mathematics is a way to find common patterns in seemingly disconnected events. My mathematical approach in general, and my methods of teaching in particular, are driven by this core realization of general application in day-to-day use of mathematics. My teaching as a mathematics teacher believes that all the children are unique and have something special that can bring their own education. When I teach mathematics, I am primarily motivated to help my students appreciate this role of mathematics as they learn.

I teach that parts of mathematics which consists of its concepts and problem-solving technique. In order to apply mathematical methods to other disciplines and assignments, my students must study mathematical concepts with the goal of learning outcomes. For example, relation and function, matrices, determinants are important in pure mathematics. Understanding it in light of derivative and the fundamental theorem of calculus. However, sometimes it is difficult to encourage students to understand the following mathematical concepts and the situation gets even more complicated in online classes where these students come from a wide variety of backgrounds and majors. To tackle this diversity of background, In my very first class I give student some pre knowledge problems, and ask them their familiarity with basic mathematical knowledge and terminologies. From there, when I start a new concept, I work to motivate students' interest in the topic. Finally, I introduce the concept with the formality appropriate to the level of the course, and move on with examples and problem solving. **Objectives achieved in my approach of teaching: -**

1. Mathematics teaching must leave students ready to solve problems and apply the concepts and skills they have learned.
2. Even if they fail to solve the problems, they come out with a better understanding of the tests. In order to encourage discussion and offer my students some agency in their own learning, I also occasionally set them up in groups to solve a set of problems and also discuss the performance of student with their parents.
3. Encourages them to ask questions until they clear their doubts which is a very useful strategy for developing mathematical understanding.
4. Various Assessment like Quizzes, puzzles, projects and lab activity of various topics can also be very useful.
5. I encourage my students to learn to use software such autograph, Geogebra etc that I use during my teaching

I will always aim to convey the very spirit that I appreciate about mathematics of class XI and XII.

U K Kurrey, PGT Mathematics (K V No 1 Raipur)

Academic planning of Mathematics (2021-22)

(4) Problems/ Challenges during Online classes and Plan of Action to overcome these problems.

Problems	Plan of Action
1. Unable to use Blackboard/ whiteboards for solving the problem.	Using the PPTs to solve the mathematical problem virtually through screen sharing.
2. There is no real face- to face interaction of teacher and students.	Using chat boxes and virtual interactions.
3. Continuous teaching for long time can cause problem like headache, dry eye syndrome, burning sensation of eye, ear problems etc.	1.Preparing the video lessons provided by reference sites like diksha portal, video lesson. 2. By keeping the classes short by one hours.
4.Learning outcomes cannot be assist.	We can assist student growth using Quizzes, puzzles and assignments
5 Teaching chapters like application of derivative – maxima or minima and LPP problems are very time consuming and requires physical example and interpretation.	Use of power point presentation, autograph software.
6. Financial condition of student’s family is weak i.e. there is only one smartphone/ desktop or no smartphone/ desktop in a student’s family .	1.Proper guiding of student to attend online classes in a peer group (student living nearby). 2. School gives smartphone to needed one.

U K Kurrey, PGT Mathematics (K V No 1 Raipur)

(5) SWOT (strength, weakness, opportunities and threats) in class XI and XII mathematics learning.

Strength: -

1. Teachers are passionate about the subject mathematics.
2. Teachers often becomes personally invested in their student and can have good relationship outside.
3. Students appreciate the fact teachers willing to helps in mathematical tools like ppts, video lessons, puzzle, quizzes etc and that they will put extra effort in helping them succeed.

4. Students participating in various lab activities will give them work experience in field of mathematics.
5. Student will appreciate the fact that mathematics teachers care about them and happy to engage student.

Weakness: -

1. These actions trace back to the students not seeing the value in the learning of mathematical concept and formulas or in the work that is assigned to them.
2. Many students do not understand mathematical word problem and they do not see the point of taking them.
3. Students come to high school with lower reading levels each year.
4. The communication breakdown from teacher to teacher causes confusion on the part of the students.
5. Students saw the weaknesses in the students as well as the teachers. The students felt that themselves and their classmates lack motivation and at times do not put forth effort in their studies.

Opportunities: -

1. The students' opportunities for improvement also broke down into three groups, opportunities for teachers, the school environment, and the students themselves.
2. Students feel that the teachers can work together on their teaching practices in topics like integrals, vector algebra, probability etc. to provide consistency for their students so they spend more time learning material instead of learning how to understand their teachers.
3. Students want teachers to use ICT Technology better in the classroom to create a more dynamic teaching style.
4. Students wanted tutoring help at night or even online to solves difficult mathematical problems.

Threats: -

1. Students talked about the peer pressure that they experience, pressures from relationships that they're in to do things that perhaps they're not ready for.
2. Students talked about their own emotions as a threat to success in school, whether it's the idea that some students have anger issues, and some do not know how to keep their emotions in check.
3. Teachers who compare students to other students or siblings when an individual only wants to make their own way through life.

4. Students see their homes as threats to their success in school too, students whose parents do not get them to class on time, and do not provide that support to be successful in school.

(6) ASSESSMENT TOOLS OF MATHEMATICS CLASS XI AND XII 2021-22

Month	XI	XII	Syllabus covered	M.M	VSA (1m)	SA (2m)	SA (3m)	LA (5m)	Total no of questions
APRIL	-	Monthly test	1.Relation and function 2.I-t functions	25	3	3	2	2	10
JUNE	-	-	-	-	-	-	-	-	-
JULY		Monthly test	Matrix & determinant	25	3	3	2	2	10
AUG		Monthly test	Continuity & Differentiability Application of derivatives	25	3	3	2	2	10
AUG	PT-I		Up to trigonometry	50	4+4 MCQ*	6	5	3	19
SEPT		Monthly test	Integrals & D.E.	25	3	3	2	2	10
OCT		Half yearly	Up to D.E.	80	16+4 MCQ*+4MCQ*	10	7	3	38
NOV	Half yearly		Up to Sequence and Series	80	16+4MCQ*+4 MCQ*	10	7	3	38
NOV		MOCK TEST	Whole syllabus	80	16+4MCQ*+4 MCQ*	10	7	3	38
DEC		I- PRE-BOARD	Whole syllabus	80	16+4MCQ*+4 MCQ*	10	7	3	38
JAN		II PRE-BOARD	Whole syllabus	80	16+4MCQ*+4 MCQ*	10	7	3	38
JAN	PT-II	-	Straight line, conic sections, 3-D	50	4+4MCQ*	6	5	3	19
FEB	LAB ACTIVITY TEST	LAB ACTIVITY TEST	All 10 Activities	20	(i) Lab activity (ii) Project (iii) Viva	12 5 3			
MAR	SEE	.	Whole syllabus	80	16+4MCQ*+4 MCQ*	10	7	3	38

Note: Question paper will be prepared according to CBSE norms at school level or RO level.

*Case Study questions

U K Kurrey, PGT Mathematics (K V No 1 Raipur)

ACADEMIC PLANNER 2021-22
SPLIT-UP SYLLABUS
SUB: INFORMATICS PRACTICES (065)
CLASS - XI (NEW SYLLABUS) (Session 2021 - 22 onward)
DISTRIBUTION OF MARKS AND PERIODS

Unit No.	Unit Name	Marks	Periods Theory	Periods Practical	Total Period
1	Introduction to Computer System	5	10	-	10
2	Introduction to Python	25	35	35	70
3	Data Handling using NumPy	15	28	15	43
4	Database concepts and the Structured Query Language	20	25	25	50
5	Introduction to Emerging Trends	5	7	-	7
	Practical	30	-	-	-
	Total	100	105	75	180

MONTH- WISE DISTRIBUTION(INFORMATICS PRACTICES (065))

Month	Number of		NAME OF THE UNIT / CHAPTER / TOPIC	Learning outcomes to be covered as per (TRALO)	SUGGESTED ACTIVITIES /PROJECT/PRACTICALS UNDER INTERNAL ASSESSMENT.	Assignments	Link for further reference
	Working Days	Periods					
JULY	07	07	<p>Unit 1: Introduction to Computer System</p> <p>Introduction to computers and computing: evolution of computing devices, components of a computer system and their interconnections, Input/Output devices.</p> <p>Computer Memory: Units of memory, types of memory – primary and secondary, data deletion, its recovery and related security concerns.</p> <p>Software: purpose and types – system and application software, generic and specific purpose software.</p>	<ul style="list-style-type: none"> Identify the components of computer system. 	<p>Worksheets after each sub topic</p> <p>MCQ based questions with total 10 marks and 10 MCQ questions</p>	<p>Draw Block Diagram of Computer</p> <p>Define the Input and Output/ input Devices</p>	<p>https://drive.google.com/drive/folders/1640RMympt-k4cTSb040snYN3XwohX36U?usp=sharing</p>
AUGUST	10	10	<p>Unit 2: Introduction to Python</p> <p>Basics of Python programming, Python interpreter - interactive and script mode, the structure of a program, indentation, identifiers, keywords, constants, variables, types of operators, precedence of operators,</p>	<ul style="list-style-type: none"> Create Python programs using different data types, lists and dictionaries. Use the different operators in Python 	<p>Worksheets after each sub topic</p> <p>MCQ based questions with total 10 marks and 10 MCQ questions</p>	<p>Install the python IDLE or Jupiter</p> <p>Create a program to get name and surname of the user and then print the</p>	

				and see the results on how the operations are done for different datatypes		complete name Write a code to get two numbers and add the numbers	
AUGUST	15	15	Unit 2: Introduction to Python Data types ,Mutable and Immutable Data Types, statements, Expressions, evaluation of expressions, comments, input and output statements, data type conversion, debugging, control statements: if-else, for loop	<ul style="list-style-type: none"> • Use of data in python • What data to use for which program 	Worksheets after each sub topic MCQ based questions with total 10 marks and 10 MCQ questions	Create a string and number data and show the mutation property	
SEPTEMBER	24	24	Unit 2: Introduction to Python Lists: list operations – creating, initializing, traversing and manipulating lists, list methods and built-in functions.: len(), list(), append(), extend(), insert(), count(), find(), remove(), pop(), reverse(), sort(), sorted(), min(), max(), sum() Dictionary: concept of key-value pair, creating, initializing, traversing, updating and deleting elements, dictionary methods and built-in functions: len(), dict(), keys(), values(), items(), get(), update(), clear(), del()	<ul style="list-style-type: none"> • They will understand the mutable and immutable datatypes • What is the list datatype • Why is list used • What is the advantage of list • When the Functions are used in list 	Worksheets after each sub topic MCQ based questions with total 10 marks and 10 MCQ questions	Use list to create students name and then sort them Use list to create number list and sort them .also find the average of numbers Use dictionary to create a list of students with roll no as keys and then operate on the dictionary like delete and modify the data	

OCTOBER	17	17	<p>Unit 3: Data Handling using NumPy</p> <p>Data and its purpose, importance of data, structured and unstructured data, data processing cycle, basic</p> <p>statistical methods for understanding data – mean, median, mode, standard deviation and variance.</p> <p>Introduction to NumPy library, NumPy arrays and their advantage, NumPy attributes, creation of NumPy arrays. From lists using np.array(), np.zeros(), np.ones(),np.arange() , indexing, slicing, and iteration.</p>	<ul style="list-style-type: none"> • Understand database concepts and Relational Database Management Systems. • Retrieve and manipulate data in RDBMS using Structured Query Language 	<p>Worksheets after each sub topic</p> <p>MCQ based questions with total 10 marks and 10 MCQ questions</p>	<p>Coding to create numpy and use of functions</p>	
NOVEMBER	15	15	<p>Unit 3: Data Handling using NumPy</p> <p>creation of NumPy arrays. From lists using np.array(), np.zeros(), np.ones(),np.arange() , indexing, slicing, and iteration. Concatenating and splitting array;</p> <p>Arithmetic operations on one dimensional and two dimensional arrays.</p> <p>Calculating max, min, count, sum, mean, median, mode, standard deviation, variance on NumPy arrays</p>	<ul style="list-style-type: none"> • Creation of numpy • Why we use a numpy 	<p>Worksheets after each sub topic</p> <p>MCQ based questions with total 10 marks and 10 MCQ questions</p>	<p>Coding to create numpy and use of functions</p>	
DECEMBER	20	20	<p>Unit 4: Database concepts and the Structured Query Language:</p> <p>Database Concepts: Introduction to database concepts and its need, Database Management System.</p>	<ul style="list-style-type: none"> • Database and its use • How database works • Design SQL queries using aggregate 	<p>Worksheets after each sub topic</p> <p>MCQ based questions with total 10 marks and 10 MCQ questions</p>	<p>Install MySQL in the system</p> <p>Create an database</p> <p>Define the different database management</p>	

				functions.		systems	
JANUARY	23	23	<p>Unit 4: Database concepts and the Structured Query Language:</p> <p>Relational data model: concept of attribute, domain, tuple, relation, candidate key, primary key, alternate key, foreign key. Structured Query Language: Data Definition Language, Data Query Language and Data Manipulation Language, Introduction to MySQL: Creating a database, using database, showing tables using MySQL, Data Types : char, varchar, int, float, date</p> <p>Data Definition Commands: CREATE, DROP, ALTER (Add and Remove primary key, attribute).</p> <p>Data Query Commands: SELECT-FROM-WHERE, LIKE, BETWEEN, IN, ORDER BY, using arithmetic,</p> <p>logical, relational operators and NULL values in queries, Distinct clause</p>	<p>• how the database is manages</p> <ul style="list-style-type: none"> • Database and its use • How database works • Design SQL queries using aggregate functions. • Different functions in Database to extract filtered data from the huge database <p>Use of Set and Relational Concept of Maths to get complex data in simple form</p>	<p>Worksheets after each sub topic</p> <p>MCQ based questions with total 10 marks and 10 MCQ questions</p>	<p>Create the table using the data given</p>	

<p>FEBRUAR Y</p>	<p>20</p>	<p>20</p>	<p>Unit 4: Database concepts and the Structured Query Language Data Manipulation Commands: INSERT, UPDATE, DELETE. Unit 5: Introduction to the Emerging Trends Artificial Intelligence, Machine Learning, Natural Language Processing, Immersive experience (AR, VR), Robotics, Big data and its characteristics, Internet of Things (IoT), Sensors, Smart cities, Cloud Computing and Cloud Services (SaaS, IaaS, PaaS); Grid Computing, Block chain technology. Revision Practical Examination , Session Ending</p>	<p>Identify the Emerging trends in the fields of Information Technology.</p>	<p>Worksheets after each sub topic MCQ based questions with total 10 marks and 10 MCQ questions In-house project work for the students to better understand the concepts</p>	<p>Using an table add update and delete the data in the table</p>	
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**ASSESSMENT SCHEDULE:
FOR CLASS XI**

S.NO.	TEST	PROSPECTIVE DATES	MARKS / TYPE OF QUESTIONS
1	PERIODIC TEST I	AUGUST 2021	50 MARKS (40 MARKS WRITTEN & 10 MARKS MCQ)
2	HALF YEARLY	OCTOBER 2021	70 MARKS (50 MARKS WRITTEN & 20 MARKS MCQ)
3	PERIODIC TEST II	JANUARY 2022	50 MARKS (40 MARKS WRITTEN & 10 MARKS MCQ)
4	S E EXAM	MARCH 2022	70 MARKS (50 MARKS WRITTEN & 20 MARKS MCQ)

ASSIGNMENT FOR THE STUDENTS

i. LESSON WISE LINK FOR FURTHER REFERENCE

S.NO.	TOPIC	STUDY MATERIAL/VIDEO
1	REVISION(LIST, DICTIONARY, etc.)	https://www.youtube.com/playlist?list=PLEpRPHYH815qLzX9u-eTrqYqyz7sknrCo
2	PYTHON PANDAS SERIES	https://www.youtube.com/watch?v=7XXDCxkMQfs
3	HOW TO RUN PYTHON PANDAS IN MOBILE VS LAPTOP	https://youtu.be/boad8P8QLMw
4	ACCESSING ELEMENTS IN SERIES	https://youtu.be/8-wc7lvHITM
5	NCERT BOOK PANDAS SERIES	https://youtu.be/iS55b6lly4E
6	MATHEMATICAL OPERATION IN SERIES	https://youtu.be/RPIMULtQ4Ng
7	SLICING, SELECTION, ACCESSING IN SERIES	https://youtu.be/dq40m2BUQkQ
8	HEAD, TAIL, COUNT FUNCTION	https://youtu.be/UK1S6AypN7E
9	SERIES ATTRIBUTES	https://youtu.be/ZFI5zBR9Wco
10	PANDAS SERIES IMPORTANT QUESTION	https://youtu.be/vbFW8-6Dwoc
11	CBSE QUESTION BANK PANDAS SERIES	https://youtu.be/4YTF9PRNoG0
12	PANDAS IMPORTANT BOARD QUESTIONS	https://youtu.be/vrkKLCezw3w
13	DATAFRAME PART 1	https://youtu.be/0c-IS70nCA0
14	DATAFRAME TO CSV	https://youtu.be/CDSmAkvlZBg
15	CSV TO DATAFRAME	https://youtu.be/ffEn5zN1go8
16	DATAFRAME IMPORTANT BOARD QUESTIONS	https://youtu.be/XXI1jW_9yGk
17	Mathematical operations	https://www.youtube.com/watch?v=IPSxKd6HfQo
18	Data Visualization(Matplotlib)	MATPLOTLIB TUTORIALS DATA VISUALIZATION USING PYLOT CLASS 12 INFORMATICS PRACTICES - YouTube

19	MYSQL IMPORTANT QUESTIONS	https://youtu.be/ft2IUHODmGI
20	NETWORKING BOARD QUESTIONS	https://youtu.be/9zXFapVrftU
21	12 IP PRACTICAL FILE	https://youtu.be/QHgK1Tt3eK4
22	12 IP PROJECT E-GOV	https://www.youtube.com/watch?v=TqxcsSokSa4
23	12 IP PRACTICAL BOARD QP	https://youtu.be/F5r-lk4FRV4
24	CBSE SQP COMPLETE SOLUTION	https://youtu.be/lwVCqYFUjms

ii. Lesson wise Link from the DIKSHA portal (N/A)

iii. Lesson wise few Questions (related to the Learning Outcome)

CBSE SQP SOLVED COMPLETE SOLUTION PLAYLIST	https://www.youtube.com/playlist?list=PLEpRPHYH815r1sG1swY_2RwwwTAv9QOaB
CBSE SQP SOLVED COMPLETE SOLUTION-1	https://www.youtube.com/watch?v=lwVCqYFUjms
CBSE SQP SOLVED COMPLETE SOLUTION-2	https://www.youtube.com/watch?v=GXFA-mjK6JY&list=PLEpRPHYH815r1sG1swY_2RwwwTAv9QOaB
CBSE SQP SOLVED COMPLETE SOLUTION-3	https://www.youtube.com/watch?v=XXI1jW_9yGk&list=PLEpRPHYH815r1sG1swY_2RwwwTAv9QOaB&index=3
CBSE SQP SOLVED COMPLETE SOLUTION-4	https://www.youtube.com/watch?v=ft2IUHODmGI&list=PLEpRPHYH815r1sG1swY_2RwwwTAv9QOaB&index=7
CBSE SQP SOLVED COMPLETE SOLUTION-5	https://www.youtube.com/watch?v=vrkKLCEzw3w

iv. Hard copy of the material for the students not having proper devices and connectivity (Share link for the material).

https://drive.google.com/file/d/1ptCDdLZ_OWfnTi29Bdsa9oiYFoxYhapl/view?usp=sharing

CONDUCT OF ONLINE CLASSES

i. Problem/challenges faced during the previous academic session (Subject Specific).

a. Technical Problems

i. Slow internet Connection

ii. The Software Platform Used is not made for teaching purpose specifically for.

b. Class related :-

i. Teachers Issue's

1. Because of Physical Distance unable to interact in real time. There is a delay in responses and moreover is not able to feel the student's mood on the topic.

2. The Teaching done in the class is more tend to become monotonous as the topic is shown to the students using computer screen and they try to note them first and they are not able to discuss freely in the e-classroom.

ii. Students Issue's

1. Since the students are in their home so the physical diversion are high in their classes like no separate place to take class. During class the background sound and noise from student home are regular issue.
 2. Many students' parents do not afford separate device for e-classes. This gets a problem as they are not regular to the classes.
 3. Spending more time on mobile phones may harm their health.
- c. Problems Related to Proper Assessments of the Students-
- i. Unavailability or paid services of proper platform to do fair assessment.
 - ii. Project Development is not feasible on mobile phones that are part of curriculum.
- ii. Action Plan to overcome those challenges during the current academic session.
- a. For Technical issues
 - i. More recorded videos and audios for the students so that they can go through the matter in their own time wise.
 - ii. Recording of videos lectures may be given in CD/Pen-drives to students.
 - iii. More channel for the communications like Podcast or Blogger can be used more effectively
 - b. For Teaching Process Related issues
 - i. Use of platform like jamboard or whiteboard app for live interaction with the students so that we can allow them to write the answer or concept in real time. This will help the teacher to clear the doubt then and there
e.g. In Python the student can be asked to write the statement to declare a variable for integer. He can write the syntax in jamboard and the all other can give their input. The teacher can then correct the statement if any correction in needed.

SORT ANALYSIS

<p>STRENGTHS</p> <ul style="list-style-type: none"> • Learning from the Safety of Home • Learning by their own comfort • Make the student lean at their own speed 	<p>OPPORTUNITIES</p> <ul style="list-style-type: none"> • Make the student lean at their own speed • Better use of the Platform • New ways to make the student understand like by videos and Animation
<p>WEAKNESS</p> <ul style="list-style-type: none"> • Hardware and Software compatibility Matrix • Network Issue • Missing eye contact with the children and group interaction 	<p>THREATS</p> <ul style="list-style-type: none"> • Class Readiness • Writing Abilities • Physically sitting and posture of the students

Lesson plan for class XI IP

Class/Section: XI A

Subject: I.P.

Chapter: Unit 1: Into to Database concepts and SQL

No. of periods:20

Date of Commencement: 01/12/2021

Expected date of Completion: 20/12/2021

Actual date of Completion: 20/12/2021

Gist of Lesson Focused skills/Competencies	Targeted learning outcomes (TLO)	Teaching learning activities planned for achieving the TLO using suitable resources and classroom management strategies	Assessment Strategies Planned	Co-relation with other subjects
Unit 4: Database concepts and the Structured Query Language Introduction <ul style="list-style-type: none"> •Aggregate function •Types of SQL function •Grouping Result ♣Nested Groups ♣Placing conditions on groups ♣Non group expression •Joins ♣Using Table Aliases ♣Additional Search Conditions ♣Joining More Than Two Table ♣Equi-Join ♣Non – Equi-Join ♣Natural Join ♣Joining Tables using JOIN Clause of SQL SELECT 	<ul style="list-style-type: none"> • To know about the do's and don't During database transaction • To know about the concurrent transaction • To provide the tips for executing multiple transaction 	<ul style="list-style-type: none"> • Power point presentation. • Detailed discussion • Practical aspects • Questionnaire • Demonstration of tables • Assignment 	Individual Task Group Task Quiz Questionnaire Demonstration Method Monthly test	Mathematics Relations Algebra Set Theory

Date: 01/12/2021

Name and Signature of the Teacher

Principal

LESSON PLAN(MICRO -TEACHING)

NAME OF THE TEACHER :

DESIGNATION : PGT (INFORMATICS PRACTICES) CLASS : XI

DATE : _____

DURATION:40 MINUTES

SUBJECT : INFORMATICS PRACTICES

LESSON :COMPUTER FUNDAMENTALS (MEMORY)

INSTRUCTIONAL OBJECTIVES :

GENERAL OBJECTIVES

1. TO UNDERSTAND THE CONCEPT OF STORAGE OF DATA IN MEMOPRY CHIPS

SPECIFIC OBJECTIVES

1. THE ADVANTAGE AND DISADVANTAGES OF DIFFERENT MEMORY STORAGE TECHNOLOGIES.

(**LEARNING OUTCOMES**) AT THE END THE CHILD WILL BE ABLE TO :

1. TO ACQUIRE TECHNICAL SKILLS – WHERE AND HOW TO DATA IS SAVED IN THE MEMEORY CARDS AND HOW MANY TYPES OF POPULAR DATA TECHNOLIGES ARE THEIR.

TEACHING METHODOLOGIES/STRATEGIES FOLLOWED:

- | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ol style="list-style-type: none">1.INTERACTION – EVERYONE OR PRIVATE CHAT IN GOOGLE MEET2. LECTURE AND PRATICAL SITUATION DISCUSSION WITH THE STUDENTS.3.WORKSHEETS – INCLUDING MCQS |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

TEACHING AIDS & LEARNING ACTIVITIES

Teaching & Learning Materials/Aids used:

Video	https://www.youtube.com/watch?v=7XXDCxkMQfs
Aids	Google Meet , Laptop and Internet Connectivity

MICRO LESSON PLAN FORMAT-

	Content / Gist of the section of the topic	Teacher's Activities	Student's Activities	Assessment (Formative)	Learning Out comes	Time
Introduction	Interaction – Storage Units and their types	Eliciting Answers from students.	Responding to the questions.	1. Why the card memories are used ? 2. How many types of memories are their and which one is best to use?	Recollect the Storage units and their types	10 M
Development of the concept through various activities/ experiences	Use of memory cells to create memory using SDRAM / DRAM	Student are asked about the different type of cards used as memory in different types of devices like camera / mobile phone	Based on the device use and the character of memory the students had to write the features of SD Cards or flash cards	1. Which memory is fast 2. Which memory is slow 3. Why we need slow memory	Understand about the electronic memory When and why they are used	20M
Evaluation / Assessment for learning	I. Define electronic memory II. How many types of electronic memories are their and give any two features of each emeory?					10 M

Name of the teacher :

TEACHING PHILOSOPHY STATEMENTS

INFOMATICES PRACTICES

1. INTRODUCTION

My teaching philosophy statements are the culmination of many years of teaching experience in the field of information and Computer technology. As experience is the best teacher, I have come to the conclusion that, generally, the current teaching methods and styles are needed to be modified to produce not only more effective learners, but also to make the learning process more enjoyable and meaningful. Constructing my philosophy statements has helped me identify individual styles, priorities as well as objectives in guiding my students. I believe that my teaching philosophy statements will set a strong foundation for my teaching goals. By using the following guidelines, I hope all of us will be able to formulate their own teaching philosophy statements and take pride in your profession. As i found that Teaching is an art and different individuals have various artistic styles of teaching and learning. Each teacher has his or her own creative and artistic way of teaching.

2. BELIEFS ABOUT KNOWLEDGE AND UNDERSTANDING OF THE LEARNER (CONCEPTUALIZATION OF LEARNING)

My own education philosophy statements are embodied within the Constructivism framework. Constructivism is a paradigm of learning that describes the process of knowledge formation. In constructivist learning, students learn actively rather than wait passively for the teacher to spoon-feed them with information. **Constructivists** believe that one has to adapt to the environment to acquire knowledge. In the process, one reshapes the acquired knowledge and creates new knowledge. Constructivist learners acquire knowledge by blending their present and the past experiences to make new discoveries. To learn the constructivist's way, the learner should make sense of things instead of accepting information at its face value. Indeed, learners are encouraged to internalize and reshape information, transforming it through active observation (Liaw, 2004). The information transformation must be meaningful. By activating his cognitive processing system, the learner will be able to organize his thoughts into logical representation by bridging the newly learnt knowledge with that already acquired or prior knowledge. According to constructivists, learning is a mental construction which takes place collectively. In the constructivist classroom, learning is facilitated by students themselves.

3. STRATEGIES (WHAT DO YOU DO?) METHODOLOGY

It is all about interaction to find solutions to a given problem. Students are regularly called by phone or chat box . They are also encouraged to speak about their indigenes ideas. This helps in constructing the concept or Knowledge about the subject or Topic. Students also are found to enjoy learning much more compared to their counterparts in traditional classrooms.

Hence, prior to constructing my philosophy of teaching, I posed the following questions to myself:

1. How does the i link the topic to real world situation?
2. How do people link the same problem with their own world?
3. How should i teach?
4. How do i motivate the unmotivated learner?
5. What is my role as a teacher?
6. What is the role of my students?
7. What are my prime objectives as the leader in the class?
8. What are the viable concepts and styles of my teaching?
9. What learning outcomes can i anticipate?
10. How do i measure the success of my students?

4. BIBLIOGRAPHY

1. Guidance from the Whatapp Group create by Our Head guide or mentor Shri Bhoop Singh Sir
2. Guidance from corrdinator Madam Sunita Khirbat and Other fellow team members.
3. Guidance from my Principal Sir, Shri N K Sinha Sir for his workshop on STP

KENDRIYA VIDYALAYA SANGATHAN
RAIPUR REGION
SPLIT-UP SYLLABUS
SESSION 2021-22

CLASS: XI

SUBJECT: COMPUTER SCIENCE (083)

MONTH	Number of		NAME OF THE UNIT/CHAPTER/TOPIC	Learning outcomes to be covered	SUGGESTED ACTIVITIES /PROJECT/PRACTICALS UNDER INTERNAL ASSESSMENT.	Assessment for Students	Important Links
	Working days	Periods					
July	10	07	Unit 1: Computer Systems and Organization (CSO) <ul style="list-style-type: none"> • Basic computer organization: Introduction to computer system, hardware, software, input device, output device, CPU, memory (primary, cache and secondary), units of memory (Bit, Byte, KB, MB, GB, TB, PB) • Types of software: system software (operating systems, system utilities, device drivers), programming tools and language translators (assembler, compiler & interpreter), application software • Operating system (OS): functions of operating system, 	KNOWLEDGE- Students will know and understand <ol style="list-style-type: none"> 1. Evolution of Computers 2. Different parts and its functions 3. Input /Output and processing devices SKILLS- Students would be able to <ol style="list-style-type: none"> 1. Understand and differentiate hardware and software 2. Different types of software 	Link for Online Quiz 1 https://forms.gle/6Sg73N2gCXJyk4yJA Link for Online Quiz 2 https://forms.gle/orRusoyiJHkv98my6 Link for Online Quiz 3 https://forms.gle/pSm611rJNAdCkVMp6 Link for Online Quiz 4 https://forms.gle/BkBeRXGJ72DmhN5K8 Link for Online Quiz 1 https://forms.gle/wYn1rjEzeP48PJEx8	<ul style="list-style-type: none"> • Gave one word questions from • Gave explanation based questions 	INTRODUCTION TO COMPUTER SYSTEM: https://www.youtube.com/watch?v=p8RD1Z9AJNE&list=PLEpRPHYH815qYr ejAGeYiDck2gZyPJUaj&index=3 INPUT & OUTPUT DEVICES: https://www.youtube.com/watch?v=BbGkWtaYOoQ&list=PLEpRPHYH815qYr ejAGeYiDck2gZyPJUaj&index=6

			OS user interface		Note: Teacher should make online quizzes using different platform during online classes.		
August	23	15	<p>Unit 1: Computer Systems and Organization (CSO) contd.</p> <ul style="list-style-type: none"> • Boolean logic: NOT, AND, OR, NAND, NOR, XOR, truth table, De Morgan's laws and logic circuits • Basic computer organization: Introduction to computer system, hardware, software, input device, output device, CPU, memory (primary, cache and secondary), units of memory (Bit, Byte, KB, MB, GB, TB, PB) • Number system: Binary, Octal, Decimal and Hexadecimal number system; conversion between number systems. • Encoding schemes: ASCII, ISCII and UNICODE (UTF8, UTF32) • Emerging trends: Cloud computing, cloud services (SaaS, IaaS, PaaS), blockchains, 	<p>KNOWLEDGE- Students will know and understand</p> <ul style="list-style-type: none"> • Learn the Concept of Boolean • Recall the various logical operators • Recall various logic gates and their truth tables. • Learn the basic postulates'/theorem/rules of Boolean algebra • Learn to draw the logical circuit based on Boolean Expression. • Students will be able to understand the concept of number system in base 2, 8, 16. <p>* Understand digital number systems(Decimal, Binary, Octal and Hexadecimal)</p> <p>* Understand Number conversions</p> <p>* Understand Binary addition in</p>	<p>Link for Online Quiz 1 https://forms.gle/TTBa2UGnW9iH7eku6</p> <p>Link for Online Quiz 2 https://forms.gle/Y9iHtqXawPYUvKFg9</p> <p>Link for Online Quiz 3 https://forms.gle/eJz4Be6NLWonEgqG6</p> <p>Link for Online Quiz 4 https://forms.gle/s9KTJ97z6SQDPnpr6</p> <p>Note: Teacher should make online quizzes using different</p>	<ul style="list-style-type: none"> • Gave Truth table based question • Gave questions for circuit diagram design • Gave number conversion based fill in the blank questions 	<p>BOOLEAN ALGEBRA(NOT, AND, OR GATES: https://www.youtube.com/watch?v=OYoHbiPWAug&list=PLEpRPHYH815qYrejAGeYiDck2gZyPjUaj&index=10</p> <p>ENCODING SCHEMES & NUMBER: https://www.youtube.com/watch?v=JdA-c6uKs40&list=PLEpRPHYH815qYrejAGeYiDck2gZyPjUaj&index=9</p>

			Artificial Intelligence (AI), Machine Learning (ML), Internet of Things (IoT) • PERIODIC TEST – I	number system * Different Encoding Schemes.	platform during online classes.		
Sept	21	18	<p>Unit 2 : Programming and Computational Thinking (PCT-1) contd.</p> <ul style="list-style-type: none"> • Introduction to problem solving: Steps for problem solving (analysing the problem, developing an algorithm, coding, testing and debugging). representation of algorithms using flow chart and pseudo code, decomposition • Familiarization with the basics of Python programming: Introduction to Python, features of Python, executing a simple "hello world" program, execution modes: interactive mode and script mode, Python character set, Python tokens (keyword, identifier, literal, operator, punctuator), variables, concept of l-value and r-value, use of comments • Knowledge of data types: number (integer, floating point, 	<p>Student will be able to understand the Concept of Problem Solving and concept of Algorithm</p> <p>Student able to understand Python and able to download Python installer from Internet.</p> <p>Student will be able to learn data types available in python and their importance.</p> <p>He / She will be able to use the different data types in their programming</p> <p>Student will come to know about mutable and immutable</p> <p>Student will also be able to apply these data types very effectively as per need.</p>	<p>Link for Online Quiz 1 https://forms.gle/nLyAXcxtnrSVyezb8</p> <p>Link for Online Quiz 2 https://forms.gle/FSZXAEwm1xjdEyYQ6</p> <p>Link for Online Quiz 3 https://forms.gle/cPuabhgpHSsN9dHM6</p> <p>Link for Online Quiz 4 https://forms.gle/hc9gbP4VeBb8xL1e9</p> <p>Link for Online Quiz 5 https://forms.gle/SAUR2mZDXU7u5qpT8</p> <p>Note: Teacher should make online quizzes using different</p>	<ul style="list-style-type: none"> • Gave simple python program • Output based questions from functions. • Gave python program based on python operator 	<p>PYTHON FOR BEGINNERS: https://www.youtube.com/watch?v=vQwO8y8kA8l&list=PLEpRPHYH815qYr ejAGeYiDck2gZyPJU aj&index=11</p> <p>OPERATORS: https://www.youtube.com/watch?v=0DcQNoTVTDY&list=PLEpRPHYH815qYr ejAGeYiDck2gZyPJU aj&index=12</p> <p>ASSIGNMENT/LOGICAL OPERATORS: https://www.youtube.com/watch?v=zLo3bGNtB4o&list=PLEpRPHYH815qYr ejAGeYiDck2gZyPJU aj&index=13</p> <p>Data type:</p>

			<p>complex), boolean, sequence (string, list, tuple), none, mapping (dictionary), mutable and immutable data types</p> <ul style="list-style-type: none"> • Operators: arithmetic operators, relational operators, logical operators, assignment operator, augmented assignment operators, identity operators (is, is not), membership operators (in, not in) • Expressions, statement, type conversion & input/output: precedence of operators, expression, evaluation of expression, python statement, type conversion (explicit & implicit conversion), accepting data as input from the console and displaying output 	<p>platform during online classes.</p> <p>Suggested Practical Question</p> <ol style="list-style-type: none"> 1. Write a program to accepts two integers and print their sum. 2. Write a program that accepts radius of a circle and prints its area. 3. Write a program that accepts base and height and calculate the area of triangle. 4. Write a program that inputs a student's marks in three subjects (out of 100) and prints the percentage marks. 5. Write a program to calculate simple interest. 6. Write a program to read two numbers and prints their quotient and reminder. 7. Write a program that accepts length and breadth of rectangle and calculate its area. 		<p>https://diksha.gov.in/play/content/do313004439811506176176</p>	
October	13	8	<p>Unit 2 : Programming and Computational Thinking (PCT-1) contd.</p>	<p>Student will be able to understand the following Concept</p>	<p>Suggested Practical Question</p> <ol style="list-style-type: none"> 1. Write a program to find whether 	<ul style="list-style-type: none"> • Gave simple python program 	<p>IF STATEMENT/ KBC GAME SHOW PROGRAM:</p>

			<ul style="list-style-type: none"> • Errors: syntax errors, logical errors, runtime errors • Flow of control: introduction, use of indentation, sequential flow, conditional and iterative flow control • Conditional statements: if, if-else, if-elif-else, flowcharts, simple programs: e.g.: absolute value, sort 3 numbers and divisibility of a number • Iterative statements: for loop, range function, while loop, flowcharts, break and continue statements, nested loops, suggested programs: generating pattern, summation of series, finding the factorial of a positive number etc • HALF YEARLY EXAM 	<ul style="list-style-type: none"> ➤ Selection Statements ➤ Simple IF ➤ IF..ELSE <p>Student will be able to understand the following Concept of iteration:</p> <ul style="list-style-type: none"> ➤ For loop ➤ While loop ➤ Nested loop 	<p>a given number is even or odd.</p> <p>2. Write a program to find largest among three integers.</p> <p>3. Write a program to find lowest among three integers.</p> <p>Suggested Practical Question</p> <p>1. Write a program that reads the number n and print the value of n², n³ and n⁴.</p> <p>2. Write a program to find sum of series :</p> $s=1+x+x^2+x^3+x^4\dots+x^n$ <p>3. Write a python script to calculate the sum of the following series:</p> $S=(1)+(1+2)+(1+2+3)+\dots+(1+2+3+\dots+n)$ <p>Note: Teacher should make online quizzes using different platform during online classes.</p>	<p>based on if , if else and nested if</p> <ul style="list-style-type: none"> • Gave simple python program based on while and for loop • Output based questions 	<p>https://www.youtube.com/watch?v=vnYLwSYDNWk&list=PLEpRPHYH815qYrejAGeYiDck2gZyPJUaj&index=15</p> <p>FOR LOOP / NUMBER GAMES: https://www.youtube.com/watch?v=GoQuOz7AZUU&list=PLEpRPHYH815qYrejAGeYiDck2gZyPJUaj&index=16</p> <p>WHILE STATEMENT: https://www.youtube.com/watch?v=jwtTWU7BBCA&list=PLEpRPHYH815qYrejAGeYiDck2gZyPJUaj&index=17</p>
November	21	15	Unit 2 : Programming and Computational Thinking (PCT-1) contd.	Understands the basic concepts of python programming involving Strings & manipulation of Strings	Link for Quiz 1:- https://docs.google.com/forms/d/e/1FAIpQLSe6iwNYeoAryYEGgKfV	<ul style="list-style-type: none"> • Gave simple python program 	STRING: https://www.youtube.com/watch?v=R

			<ul style="list-style-type: none"> • Strings: introduction, indexing, string operations (concatenation, repetition, membership & slicing), traversing a string using loops, built-in functions: len(), capitalize(), title(), lower(), upper(), count(), find(), index(), endswith(), startswith(), isalnum(), isalpha(), isdigit(), islower(), isupper(), isspace(), lstrip(),rstrip(), strip(), replace(), join(), partition(), split() • Lists: introduction, indexing, list operations (concatenation, repetition, membership & slicing), traversing a list using loops, built-in functions: len(), list(), append(), extend(), insert(), count(), index(), remove(), pop(), reverse(), sort(), sorted(), min(), max(), sum(); nested lists, suggested programs: finding the maximum, minimum, mean of numeric values stored in a list; linear search on list of numbers and counting the frequency of elements in a list 	<p>in Python.</p> <p>Acquainted with various String functions & their use.</p> <p>Student will be able to review the Concept and Operations on Lists:</p> <ul style="list-style-type: none"> ➤ Creation ➤ Traversal ➤ Concatenation ➤ Repetition ➤ Searching ➤ Sorting ➤ Maximum ➤ Minimum ➤ Reverse ➤ Slicing 	<p>YDRRF8-x5gr3Pb3h-5fA_v39bEou2g/viewform?usp=sf-link</p> <p>Link for Assignment :- https://drive.google.com/file/d/15FvjdTIHv18XrGSOFj6QiDHGhAv8qw79/view?usp=sharing</p> <p>Link for Assignment Solution :- https://drive.google.com/file/d/1b-QDdUbErbm46CIReMZOXifVHAL1PQtq/view?usp=sharing</p> <p>Suggested Practical Question</p> <p>1.WAP to count the number of vowels in the string 'I love Computer Science'</p> <p>2.WAP to count the number of digits in the string 'amazing44 67'</p> <p>WAP to count the number of spaces in the string 'I love Computer Science'</p> <p>3.WAP to toggle the string 'I love Computer Science'. i.e Uppercase letter should be made to Lower case</p>	<p>based function of String and List.</p> <ul style="list-style-type: none"> • Output based questions 	<p>gmIOPMPmLE&t=606s</p> <p>LIST: https://www.youtube.com/watch?v=hJuGaaDKnCk&list=PLEpRPHYH815qYrejAGeYiDck2gZyPJUaj&index=19</p> <p>LIST FUNCTIONS: https://www.youtube.com/watch?v=ZprRghwoRPk&list=PLEpRPHYH815qYrejAGeYiDck2gZyPJUaj&index=37</p> <p>LIST IMPORTANT BOARD QUESTIONS: https://www.youtube.com/watch?v=LPMEEUj1v8M&list=PLEpRPHYH815qYrejAGeYiDck2gZyPJUaj&index=38</p> <p>List and Tuple: https://diksha.gov.in/play/content/d</p>
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					and vice versa		o 31276264554876928012369
					Note: Teacher should make online quizzes using different platform during online classes.		
Dec	16	8	<p>Unit 2 : Programming and Computational Thinking (PCT-1) contd.</p> <ul style="list-style-type: none"> Tuples: introduction, indexing, tuple operations (concatenation, repetition, membership & slicing), built-in functions: len(), tuple(), count(), index(), sorted(), min(), max(), sum(); tuple assignment, nested tuple, suggested programs: finding the minimum, maximum, mean of values stored in a tuple; linear search on a tuple of numbers, counting the frequency of elements in a tuple Dictionary: Introduction, accessing items in a dictionary using keys, mutability of dictionary (adding a new item, modifying an existing item), traversing a dictionary, built-in functions: len(), dict(), keys(), values(), items(), get(), update(), 	<p>Student will be able to understand the Concept of Tuples Understand:</p> <ul style="list-style-type: none"> ➤ Concatination ➤ Replication ➤ Membership operations ➤ Various Built_In functions ➤ Sorting ➤ Index values etc. ➤ Slicing(subset) ➤ Few Programs <p>Student will be able to understand the Concept of Dictionary</p> <ul style="list-style-type: none"> ➤ Traversal, functions/methods – len(), dict(), keys(), values(), items(), get(), update(), del(), del, clear(), fromkeys(), copy(), pop(), popitem(), setdefault(), max(), min(), count(), 	<p>Link for Online Quiz 1</p> <p>https://docs.google.com/forms/d/e/1FAIpQLScTibsgHshc-y8IR6FgMA2zrGE9aa2FpYcrtnP1xJKvnc2wgg/viewform?usp=sf_link</p> <p>Link for Online Quiz 2</p> <p>https://docs.google.com/forms/d/e/1FAIpQLSdQVU0Vc6cbcssh0eW0O8ZC3Tat2NyhiJmCR9tdK2T8JQ78Cw/viewform?usp=sf_link</p> <p>Link for Practical</p> <p>Suggested programs : count the number of times a character appears in a given string using a dictionary, create a dictionary with name of employees, their salary and access</p>	<ul style="list-style-type: none"> Gave simple python program based function of Tuple and Dictionary. Output based questions 	<p>TUPLE: https://www.youtube.com/watch?v=xo31276264554876928012369</p> <p>DICTIONARY: https://www.youtube.com/watch?v=eXUHuZjCXlc&list=PLEpRPHYH815qYreIAGeYiDck2gZyPJUaj&index=22</p>

			del(), clear(), fromkeys(), copy(), pop(), popitem(), setdefault(), max(), min(), count(), sorted(), copy();	sorted() copy();	them		
Jan	22	16	<p>Unit 2 : Programming and Computational Thinking (PCT-1) contd.</p> <ul style="list-style-type: none"> • Sorting techniques: Bubble and Insertion sort • Introduction to Python modules: Importing module using 'import <module>' and using from statement, Importing math module (pi, e, sqrt, ceil, floor, pow, fabs, sin, cos, tan); random module (random, randint, randrange), statistics module (mean, median, mode) <p>Unit 3 :Society, Law and Ethics</p> <ul style="list-style-type: none"> • Digital Footprints • Digital society and Netizen: net etiquettes, communication etiquettes, social media etiquettes • Data protection: Intellectual 	<p>Student will be able to understand the new world digital society.:</p> <ul style="list-style-type: none"> • Netizen • Data Protection • Data Protection • Cyber- Crime • Cyber Safety • Safely accessing web Sites • E-Waste management 	<p>Suggested programs :</p> <p>Write a Python program to generator(Random Number) that generates random numbers between 1 and 6 (simulates a dice) using user defined function.</p> <p>Together you can draft e-mails and send them to the other class. You may also wish to pair up individuals between the classes so they can exchange e-mails and chat with someone they know is safe. Review online safety rules and remind students of proper etiquette when e-mailing and chatting.</p> <p>Note: Teacher should make online quizzes using different</p>	<ul style="list-style-type: none"> • Output based questions on random module • Gave study based question • Gave one world questions • Gave explanation based questions 	<p>IMPORT MODULE/FROM MODULE IMPORT FUNCTION: https://www.youtube.com/watch?v=6RwHb5UhkY</p> <p>Cyber Ethics: https://diksha.gov.in/play/content/do31321956441364889612577</p>

			<p>Property Right (copyright, patent, trademark), violation of IPR (plagiarism, copyright infringement, trademark infringement), open source softwares and licensing (Creative Commons, GPL and Apache)</p> <ul style="list-style-type: none"> • Cyber-crime: definition, hacking, eavesdropping, phishing and fraud emails, ransomware, preventing cyber crime • PERIODIC TEST – II 		platform during online classes.		
Feb	21	8	<p>Unit 3 :Society, Law and Ethics</p> <ul style="list-style-type: none"> • Cyber safety: safely browsing the web, identity protection, confidentiality, cyber trolls and bullying. • Safely accessing web sites: malware, viruses, trojans, adware • E-waste management: proper disposal of used electronic gadgets • Indian Information Technology Act (IT Act) • Technology & Society: Gender and disability issues while 	<p>Student will be able to understand the Concept of Network Security:</p> <ul style="list-style-type: none"> ➤ Threats and prevention from Viruses, Worms, Trojan horse, Spams ➤ Use of Cookies, Protection using Firewall, https; ➤ India IT Act, Cyber Law, Cyber Crimes, IPR issues, hacking 	<p>Link for Online Quiz 1</p> <p>https://docs.google.com/forms/d/e/1FAIpQLSfzHG5TKvFfo4qP-067OnIEyZzEdmqYquiy2DcQ8T0Y7ygVjw/viewform?vc=0&c=0&w=1</p> <p>Link for Online Quiz 2</p> <p>https://docs.google.com/forms/d/e/1FAIpQLSeEGUkkOwGjOp_2w-f535bZox3UrUOD1wJEhnxP12Gib</p>	<ul style="list-style-type: none"> • Gave study based question • Gave one world questions • Gave explanation based questions 	<p>SOCIETY, LAW AND ETHICS:</p> <p>https://www.youtube.com/watch?v=SB9qsAVBzXE&list=PLEpRPHYH815r6X3eyOc4YmfMQ_HkaWnZt&index=29</p>

			teaching and using computers		BqEKQ/viewform?vc=0&c=0&w=1		
			❖ Revision of Whole Syllabus		Note: Teacher should make online quizzes using different platform during online classes.		
March	SESSION ENDING EXAMINATION						SAMPLE QUESTION PAPER:
	➤ Conduct Session Ending Practical Examination						https://www.youtube.com/watch?v=eHu7bOE24sQ
	Remedial classes & Revision work						
	1. Teaching - Test & Re-Teaching - Re-Test on the areas in which students done mistakes frequently.						
	2. Discussion on the Past years sample question papers and making of model answer of the same question in the class room.						

NandkishorVasnik, PGT(CS)

Assignment/Study Material for the students

Computer Science

Note: Please copy below link and paste in web browser for worksheet

Work Sheet for Class XI:

<https://drive.google.com/drive/folders/1YjE0dhvhn7tsHtx4bfbXBsn5r5XvoX8p?usp=sharing>

CLASS 11 COMPUTER SCIENCE(083)

S.N O.	TOPICS	VIDEO LINK
1	All topics	https://www.youtube.com/channel/UCOK0llsbqY_x0kubDCOYUkA
2	11 CS PLAYLIST	https://www.youtube.com/playlist?list=PLEpRPHYH815qYrejAGeYiDck2gZyPJUaj
3	SAMPLE QUESTION PAPER	https://www.youtube.com/watch?v=eHu7bOE24sQ
4	SAMPLE QUESTION PAPER-2	https://www.youtube.com/watch?v=qgBM8avAbfc
5	SAMPLE QUESTION PAPER-3	https://www.youtube.com/watch?v=dLyNvEiZ-EU
6	SAMPLE QUESTION PAPER-4	https://www.youtube.com/watch?v=HbEixu8BOLc
7	PYTHON PROGRAMS	https://www.youtube.com/watch?v=6NdWXi-PycE
8	FLOWCHART, ALGORITHM	https://www.youtube.com/watch?v=ftzZQ99vTlq
9	CASE STUDY	https://www.youtube.com/watch?v=M93EBrFTy7I
10	FUTURE OF COMPUTER SCIENCE & IP	https://www.youtube.com/watch?v=ao65enNmAr4&list=PLEpRPHYH815qYrejAGeYiDck2gZyPJUaj&index=1&t=2s
11	WHAT IS COMPUTER	https://www.youtube.com/watch?v=i2ZEFaAnXEA&list=PLEpRPHYH815qYrejAGeYiDck2gZyPJUaj&index=2
12	UNIT 1 INTRODUCTION TO COMPUTER SYSTEM	https://www.youtube.com/watch?v=p8RD1Z9AJNE&list=PLEpRPHYH815qYrejAGeYiDck2gZyPJUaj&index=3
13	EVOLUTION OF COMPUTERS	https://www.youtube.com/watch?v=7HzC7sp9PXU&list=PLEpRPHYH815qYrejAGeYiDck2gZyPJUaj&index=4
14	CENTRAL PROCESSING UNIT	https://www.youtube.com/watch?v=8fP5ZUYepel&list=PLEpRPHYH815qYrejAGeYiDck2gZyPJUaj&index=5
15	INPUT & OUTPUT DEVICES	https://www.youtube.com/watch?v=BbGkWtaYOoQ&list=PLEpRPHYH815qYrejAGeYiDck2gZyPJUaj&index=6
16	COMPUTER MEMORY	https://www.youtube.com/watch?v=KYcJBvHvhGk&list=PLEpRPHYH815qYrejAGeYiDck2gZyPJUaj&index=7
17	CONVERSION TO DECIMAL	https://www.youtube.com/watch?v=qdUDTNUbkSE&list=PLEpRPHYH815qYrejAGeYiDck2gZyPJUaj&index=8
18	ENCODING SCHEMES & NUMBER	https://www.youtube.com/watch?v=JdA-c6uKs40&list=PLEpRPHYH815qYrejAGeYiDck2gZyPJUaj&index=9
19	BOOLEAN ALGEBRA(NOT, AND, OR GATES)	https://www.youtube.com/watch?v=OYoHbiPWAug&list=PLEpRPHYH815qYrejAGeYiDck2gZyPJUaj&index=10
20	PYTHON FOR BEGINNERS	https://www.youtube.com/watch?v=vQwO8y8kA8I&list=PLEpRPHYH815qYrejAGeYiDck2gZyPJUaj&index=11
21	OPERATORS	https://www.youtube.com/watch?v=ODcQNoTVTDY&list=PLEpRPHYH815qYrejAGeYiDck2gZyPJUaj&index=12
22	ASSIGNMENT/LOGICAL OPERATORS	https://www.youtube.com/watch?v=zLo3bGNtB4o&list=PLEpRPHYH815qYrejAGeYiDck2gZyPJUaj&index=13
23	PROGRAMS IN SCRIPT MODE	https://www.youtube.com/watch?v=Tx_4crfhN2A&list=PLEpRPHYH815qYrejAGeYiDck2gZyPJUaj&index=14
24	IF STATEMENT/ KBC GAME SHOW PROGRAM	https://www.youtube.com/watch?v=vnYLwSYDNWk&list=PLEpRPHYH815qYrejAGeYiDck2gZyPJUaj&index=15
25	FOR LOOP / NUMBER GAMES	https://www.youtube.com/watch?v=GoQuOz7AZUU&list=PLEpRPHYH815qYrejAGeYiDck2gZyPJUaj&index=16
26	WHILE STATEMENT	https://www.youtube.com/watch?v=jwtTWU7BBCA&list=PLEpRPHYH815qYrejAGeYiDck2gZyPJUaj&index=17
27	NESTED LOOPS / PATTERNS	https://www.youtube.com/watch?v=ouCkuqIzIRg&list=PLEpRPHYH815q

		YrejAGeYiDck2gZyPjUaj&index=18
28	STRING	https://www.youtube.com/watch?v=RgmIOPMPmLE&t=606s
29	STRING METHODS	
30	LIST	https://www.youtube.com/watch?v=hJuGaaDKnck&list=PLEpRPHYH815qYrejAGeYiDck2gZyPjUaj&index=19
31	LIST FUNCTIONS	https://www.youtube.com/watch?v=ZprRghwoRpk&list=PLEpRPHYH815qYrejAGeYiDck2gZyPjUaj&index=37
32	LIST IMPORTANT BOARD QUESTIONS	https://www.youtube.com/watch?v=LPMEEUj1v8M&list=PLEpRPHYH815qYrejAGeYiDck2gZyPjUaj&index=38
33	TUPLE	https://www.youtube.com/watch?v=xoCLHweWeG8&list=PLEpRPHYH815qYrejAGeYiDck2gZyPjUaj&index=20
34	DICTIONARY	https://www.youtube.com/watch?v=eXUHuZjCXlc&list=PLEpRPHYH815qYrejAGeYiDck2gZyPjUaj&index=22
35	PALLINDROME SERIES / STRINGS	https://www.youtube.com/watch?v=Agbp5loEUuk&list=PLEpRPHYH815qYrejAGeYiDck2gZyPjUaj&index=21
36	FUNCTIONS	https://www.youtube.com/watch?v=sBAxhgcd6qo&list=PLEpRPHYH815qYrejAGeYiDck2gZyPjUaj&index=23
37	FUNCTIONS WITH DIFFERENT ARGUMENTS/PARAMETERS	https://www.youtube.com/watch?v=Mo4D1NNswfw&list=PLEpRPHYH815qYrejAGeYiDck2gZyPjUaj&index=35
38	11 CS/IP PROJECTS	https://www.youtube.com/watch?v=5nj0dcCSso&list=PLEpRPHYH815qYrejAGeYiDck2gZyPjUaj&index=33
39	11 CS/IP PRACTICAL FILE	https://www.youtube.com/watch?v=ad2O3gPOQGE&list=PLEpRPHYH815qYrejAGeYiDck2gZyPjUaj&index=25
40	HOW TO SHARE COPIES WITH TEACHERS	https://www.youtube.com/watch?v=ieXGwbAlnwo&list=PLEpRPHYH815qYrejAGeYiDck2gZyPjUaj&index=28
41	HOW TO PRESENT YOUR PROJECT	https://www.youtube.com/watch?v=O4SfWk9Vbns&t=9s
42	ADD AUDIO IN PROJECTS	https://www.youtube.com/watch?v=YZkvB5Yx-bM
43	ONLINE PRACTICAL EXAM	https://www.youtube.com/watch?v=aDZxrUb9XBs
44	PYTHON PROGRAMS IN MOBILE PYDROID3	https://www.youtube.com/watch?v=D2PC60FcaOc&t=8s
45	Revision tour(python)	https://www.youtube.com/watch?v=n22RPzlkWes
46	SOCIETY, LAW AND ETHICS	https://www.youtube.com/watch?v=SB9qsAVBzXE&list=PLEpRPHYH815r6X3eyOc4YmfMQ_HkaWnZt&index=29
47	MYSQL	https://www.youtube.com/watch?v=nwZfQDfd9KY&list=PLEpRPHYH815r6X3eyOc4YmfMQ_HkaWnZt&index=5&t=85s
48	MYSQL BOARD QUESTIONS 2020	https://www.youtube.com/watch?v=lnbHxeVKEvM&list=PLEpRPHYH815r6X3eyOc4YmfMQ_HkaWnZt&index=24
49	EMERGING TRENDS	https://www.youtube.com/watch?v=FIPOZDtfGA
50	ARTIFICIAL INTELLIGENCE	https://www.youtube.com/watch?v=uugHGmsr_X0
51	PYTHON OUTPUT QUESTIONS	https://www.youtube.com/watch?v=MHlrFH-aTDY
52	PYTHON OUTPUT IMPORTANT QUESTIONS	https://www.youtube.com/watch?v=uaAzye9KDOqo
53	USER DEFINED FUNCTION	https://www.youtube.com/watch?v=d6wFCzTzNoM&t=24s
54	IMPORT MODULE(FROM METHOD)	https://www.youtube.com/watch?v=6RwHb5UhkdY&t=135s
55	ROTATE SWAP ELEMENTS IN A LIST	https://www.youtube.com/watch?v=43SKGvGrNA&t=80s
56	FUNCTION AND LIST TEST QP	https://www.youtube.com/watch?v=of93TtxnYCE&t=1116s
57	SCOPE OF VARIABLE(GLOBAL VS LOCAL)	https://www.youtube.com/watch?v=TB3AUjsFiv4&t=90s
58	LIST IMPORTANT QUESTION	https://www.youtube.com/watch?v=LPMEEUj1v8M
59	LIST FUNCTIONS	https://www.youtube.com/watch?v=ZprRghwoRpk
60	OPERATOR PRECEDENCE	https://www.youtube.com/watch?v=7kiYMU1tmGk
61	FUNCTION	https://www.youtube.com/watch?v=AnMrdFbu21g
62	FUNCTION OUTPUT	https://www.youtube.com/watch?v=EbbUycoWNcs
63	DEFAULT PARAMETERS	https://www.youtube.com/watch?v=8ZbbID9SomU
64	RETURN IN FUNCTION	https://www.youtube.com/watch?v=6OVpulfIMSS
65	GLOBAL VS LOCAL SCOPE	https://www.youtube.com/watch?v=TB3AUjsFiv4
66	USER DEFINED FUNCTION	https://www.youtube.com/watch?v=d6wFCzTzNoM
67	UDF ROTATE SWAP IN LIST	https://www.youtube.com/watch?v=43SKGvGrNA
68	IMPORT MODULE/FROM MODULE IMPORT FUNCTION	https://www.youtube.com/watch?v=6RwHb5UhkdY
69	FUNCTION & LIST	https://www.youtube.com/watch?v=of93TtxnYCE

Problem/challenges faced during the previous academic session

S.N.	Problem/challenges faced during the previous academic session	Action Plan to overcome those challenges during the current academic session
1	Students encounter technical difficulties	<ul style="list-style-type: none"> • Took separate class for device handling and demonstrate online platform (Google classroom & Google meet) feature to students. • Also gave personal attention to students.
2	Connectivity Issue of Digital Device with Internet	<ul style="list-style-type: none"> • Students can change their service provider and acquire high-speed Internet. • Student can take dedicated Broadband connection.
3	Lack of Structure & Self-Discipline	<ul style="list-style-type: none"> • Student should follow a Routine and Create a School Space at home.
4	Online classes are boring	<ul style="list-style-type: none"> • Try to make an online course that is dynamic, fun and interactive. • Interact with students during class. • Also share PPT before taking class for class would be structure
5	Lack of motivation during pandemic	<ul style="list-style-type: none"> • Students can engage themselves in positive talks. It'll help them cleanse their psyche and to maintain their focus affirmably. • Arrange competition between them and gave them e-certificate.
6	Found difficulties in performing programming practical who don't have computer system	<ul style="list-style-type: none"> • Demonstrate student how to download and work in Pydroid 3 - IDE android app who don't have computer system. • Also demonstrate website for online python programming (https://colab.research.google.com/)
7	Low Attendance Rate in Online classes	<ul style="list-style-type: none"> • Track absences of students in real-time and Connect with students via personal calling. • Gave personal attention to students and Implement rewards for positive behavior • Increase parent involvement

Statement of Philosophy

My philosophy of education is that all children are unique and must have a stimulating educational environment where they can grow physically, mentally, emotionally, and socially. It is my desire to create this type of atmosphere where students can meet their full potential. I will provide a safe environment where students are invited to share their ideas and take risks.

I believe that there are five essential elements that are conducive to learning.

- (1) The teacher's role is to act as a guide.
- (2) Students must have access to hands-on activities.
- (3) Students should be able to have choices and let their curiosity direct their learning.
- (4) Students need the opportunity to practice skills in a safe environment.
- (5) Technology must be incorporated into the school day.

I want my students to understand the significance and relevance of ICT in their everyday lives. To achieve this objective, I discuss the latest advancements in computer sciences so that my students are able to apply state of the art technology in solving problems and sharing their knowledge with their friends. I also aim to encourage input and feedback from

my students regarding my course contents. In this way, I can make the necessary changes so that my teaching becomes relevant and meaningful to my students.

Process Analysis: This is to find out how students complete their assignment. Since learning is a process, I always ask my students to think about how they do their work or assignments. In this way, I can find out whether my students understand how a problem is solved and the process that is involved.

SWOT ANALYSIS

INTRODUCTION:The importance of SWOT analysis for students/teachers is that it helps to know a clear picture of where they stand . Swot analysis also helps the students/teachers to identify their improvement areas and in setting goals.

STRENGTHS(S)

- Highly skilled teachers
- Focus on parents contact
- Cultural diversity
- Minimal issues of bullying and/or fighting among students
- Regular Assessments through online mode
- Students can attend online classes from anywhere
- Development of new online resources
- Upskilling in new technologies and resources

WEAKNESS(MW)

- High percentage of rural families.
- Network issue in most of the area
- Many teachers are not properly trained in delivery online Classes
- Time constraints
- Lack of practical sessions
- Issues with assessment

OPPORTUNITIES(O)

- Teachers provide opportunities to get help before and after school
- Online classes gave opportunities for creative teaching
- Academic collaboration
- Working remotely
- Incorporation of blended learning in future curriculum development
- Development of alternative examination methods

THREATS(T)

- Reduced students engagement
- Diminished teacher students relationship
- E-books and e-readers eliminate need for physical books
- Screen time increase
- Online adiction

CONCLUSION:

Online Education has brought a positive impact in the lives of students and working professionals. It has given an opportunity to take up additional courses along with their studies or job as per their convenience. Online education has also helped the faculty in the institutions to ask students to study some part of syllabus online which do not require much of classroom instructions. So the online study helps the faculty to save time in which they can interact with the students more.

online education is not appropriate for younger students (i.e. elementary or secondary school age) and other students who are dependent learners and have difficulty assuming responsibilities required by the online paradigm.

MICRO LESSON PLAN CLASS XI

MICRO LESSON PLAN CLASS XI			
SUBJECT	COMPUTER SCIENCE		
TOPIC	Python Data Types PERIOD : IST PERIOD		
Date	02.07.2021 DURATION: 40 MINUTES		
CONTENTS	1. Introduction of Python Data Types		
	2. Type of Python Data Types..		
General Aims	1. To develop the basic knowledge regarding Python.		
	2.To develop interest of students in python Programming.		
Instructional Objectives	1. Making to student to understand Python Data Types		
	2. Inculcate ability to do python Programming using data type.		
	3.Enable students to use different data types		
Application	1.Analysing the importance of Data Type in python programming		
	2.Applying the knowledge of python Data type to make small program.		
Teaching aids used in online class	Laptop, internet connection, well prepared PowerPoint presentation on the topic, Mind map chart of organising, Google meet (online class platform)		
Previous	<table border="1" style="width: 100%;"> <tr> <td style="width: 50%;">1. What is variable?</td> <td>Ans: A variable is like a name tag that is put on a value.</td> </tr> </table>	1. What is variable?	Ans: A variable is like a name tag that is put on a value.
1. What is variable?	Ans: A variable is like a name tag that is put on a value.		

knowledge	2. What type of data do you know?	Ans: Number and string.			
	3. Could you tell different data type of python?	Ans: No Answer (Critical Question)			
Announcement of topic	Dear Students, Today we will study python data type.				
Presentation	By using PowerPoint presentation on the topic Python Function.				
Gist of Lesson	Expected Learning Outcomes/ELO	Teaching Learning activities planned	Suggested material / Resources	Assessment strategies planned/Assignments	Co-relation with other subjects
Knowledge of Data Types Value based: Integer Data type ■ integer ■ Float ■ Complex ■ Boolean Sequence Data Type ■ String ■ Lists ■ Tuple ■ Sets None Data Type Mapping Data Type ■ Dictionary	<ul style="list-style-type: none"> • Student will be able to learn data types available in python and their importance. • He / She will be able to use the different data types in their programming • Student will come to know about mutable and immutable • Student will also be able to apply these data types very effectively as per need. 	Introduction of data type : It is type of data we use Integer Data type Int, float, Complex, Bool, Sequence Data Type String, Lists, Tuple, Sets None Data Type Mutable - whose values can be changed after they are created List and dictionary . Immutable - Variables whose values cannot be changed eg Int, float, Boolean, complex, Tuple, Set, String For demonstration please follow link: https://youtu.be/nguuQ4JjNsg	Students can refer following link also : https://www.youtube.com/watch?v=gCCVsvgR2KU	Let's check how much we have learned. Link for Online Quiz https://forms.gle/cPuabhgphSsN9dHM6 This will help you to grasp the topic more deeply.	Python is used to create software.

Date:

Name and Signature of the Teacher:

Principal:

Lesson Plan (Macro)

Class/Section : XI

Subject : Computer Science

Chapter/Topic : Python Data Types, Operators and Flow of Control

No. of periods : 12

Date of Commencement :

Expected date of completion :

Actual date of Completion :

Session	Gist of Lesson	Expected Learning Outcomes/ELO	Teaching Learning activities planned	Suggested material / Resources	Assessment strategies planned/Assignments	Co-relation with other subjects
01	<p>Knowledge of Data Types</p> <p>Value based:</p> <p>Integer Data type</p> <ul style="list-style-type: none"> ■ Integer, Float, Complex ■ Boolean <p>Sequence Data Type</p> <ul style="list-style-type: none"> ■ String, Lists ,Tuple ■ Sets <p>None Data Type</p> <p>Mapping Data Type</p> <ul style="list-style-type: none"> ■ Dictionary <p>Memory based:</p> <ul style="list-style-type: none"> • Mutable data types • Immutable Data Types 	<ul style="list-style-type: none"> • Student will be able to learn data types available in python and their importance. • He / She will be able to use the different data types in their programming • Student will come to know about mutable and immutable • Student will also be able to apply these data types very effectively as per need. 	<p>Introduction of data type : It is type of data we use</p> <p>Integer Data type :Int, float, Complex, Bool,</p> <p>Sequence Data Type :String, Lists, Tuple, Sets</p> <p>None Data Type</p> <p>Mutable - whose values can be changed after they are created List and dictionary .</p> <p>Immutable - Variables whose values cannot be changed eg Int, float, For demonstration please follow link: https://youtu.be/nguuQ4JjNsg</p>	<p>Students can refer following link also : https://www.youtube.com/watch?v=gCCVsvgR2KU</p>	<p>Let's check how much we have learned.</p> <p>Link for Online Quiz https://forms.gle/cPuabhgpHSSN9dHM6</p> <p>This will help you to grasp the topic more deeply.</p>	<p>Python is used to create software.</p>
02	<p>Operators & types:</p> <ul style="list-style-type: none"> • Binary operators • Arithmetic operators • Relational Operators • Logical Operators • Identity operator • Membership Operators • Expressions & Statements • Operators and their precedence. 	<ul style="list-style-type: none"> ▪ Student after this session will be able to apply operators in their programs to get the desired results. ▪ This session will help them to solve calculative part of their problem. ▪ This session will help them to learn precedence of operators, & expressions. 	<p>An operator is used to perform specific mathematical or logical operation on values like + , / , * , <</p> <p>Arithmetic ,Relational Operators</p> <p>Logical Operators, Membership Operators – in, not in</p> <p>Expressions and Statement Operators and their precedence.</p> <p>Teaching link: https://youtu.be/V9WwZUMNeBA</p>	<p>Students can also refer following link : https://youtu.be/v5MR5JnKcZI</p>	<p>Let's check how much we have learned.</p> <p>Link for Online Quiz 1 https://forms.gle/hc9gbP4VeBb8xL1e9</p> <p>Link for Online Quiz 2 https://forms.gle/SAUR2mZDXU7u5qpT8</p>	<p>Python is used to create software.</p>

Date:

Name and Signature of the Teacher:

Principal

ACADEMIC CALENDAR 2021-22 CLASS XI BUSINESS STUDIES

KENDRIYA VIDYALAYA SANGATHAN RO RAIPUR

SPLIT UP SYLLABUS BUSINESS STUDIES (054) FOR CLASS XI SESSION 2021-22

S. N.	MONTH	Expected No. OF WORKING Days	TOTAL NO. OF TEACHING PERIODS	NAME OF UNIT/CHAPTER	Targeted learning outcomes	Marks	Suggested Projects/ Practicals/ Activities under internal sssessment	ASSINGMENT FOR STUDENTS	MPORTANT LINK OF DIKSHA/NCERT/UTUBE /OWN VIDEO,PPT
Foundations of Business									
1	JULY/AUGUST	12	18	Nature and Purpose of Business (Evolution and fundamentals of business)	History of Trade and Commerce in India: Business – meaning and characteristics, Business, profession and employment Concept ,Objectives of business,Classification of business activities - Industry and Commerce ,Business risk-Concept	16	*Draft a report on indigeneous banking system using different types of Hundies. *Draft a report on the leadding trade centres in ancient India. * prepare a project on "Make In India"	*Discuss the characteristics of business. *Differentiate between business, profession and employment *Describe the various types of industries. *Discuss the meaning of different types of trade and auxiliaries to trade.	https://drive.google.com/file/d/1lozrAQOV9Cx906VQh56qn5ADbTpPM66H/view?usp=sharing
2	AUGUST	15	24	Forms of Business Organisations	Sole Proprietorship-Concept, merits and limitations,Partnership ,Hindu Undivided Family Business: Concept,Cooperative Societies-Concept, merits, and limitations. Company - Concept, merits and limitations; Types: Private, Public and One Person Company – Concept ,Formation of company , Choice of form of business organization		*Prepare a presentation for Incorporation of a Public company. *Prepare a report on the cooperative societies run by a women self help group in your locality.	*dentify and explain the concept, merits and limitations of Sole Proprietorship. *Discuss types of partners –active, sleeping, secret, nominal and partner by estoppel. *Understand the	https://drive.google.com/file/d/17kRqX1uzYnI3s8tGuxBC3oM360tgffN5/view?usp=sharing

									meaning of one person company. *Distinguish between a private company and a public company.	
PERIODIC TEST I 1ST WEEK OF SEPT 2021 (50 marks)										
3	SEPT	12	18	Public, Private and Global Enterprises (Multinational company)	Public sector and private sector enterprises – Concept , Forms of public sector enterprises: Departmental Undertakings, Statutory Corporations and Government Company, Global Enterprises – Feature. Joint ventures, Public private partnership – concept	14	* Draft a report on Delhi metro as an example of PPP concept. * Find a public corporation located in your city and prepare a report on that keeping in view the features of the statutory corporation	Identify and explain the features, merits and limitations of different forms of public sector enterprises	https://drive.google.com/file/d/1Ng17ZvIk9c21OuMc8i9ZoqUv3oGmRhiG/view?usp=sharing	
4	SEPT	12	18	Business Services	Business services – meaning and types. Banking: Types of bank accounts – savings, current, recurring, fixed deposit and multiple option deposit account , Insurance – Principles. Types – life, health, fire and marine insurance – concept , Postal Service – Mail, Registered Post, Parcel, Speed Post, Courier – meaning		*Prepare a presentation on mechanism of banks in India and its services provided to public . *Prepare a report on E- banking and different mechanism of digital payment.	*Discuss the meaning and types of Business service *Describe Utmost Good Faith, Insurable Interest, Indemnity, Contribution, Doctrine of Subrogation and Causa Proxima as principles of insurance	https://drive.google.com/file/d/1HW3ymSm7UFlkanON8IInEXY-QBnjBVm/view?usp=sharing	
5	OCT	7	10	Emerging Modes of Business	E – business: concept, scope and benefits ,Business Process Outsourcing (BPO): Concept, need and scope	10	*Prepare a presentation on KPO in context of IT services ,Financial services and Research and development services	*Distinguish e-business from traditional business. *Discuss the concept of outsourcing. Examine the scope of outsourcing, • appreciate the need of outsourcing.	https://drive.google.com/file/d/1FRQGNrYb0C_9CcoFoj8NDbT9aq3Z-qOC/view?usp=sharing	
6	OCT	10	12	Social	Concept of social responsibility ,Case for social		* Prepare a project on	*Examine the case for	https://drive.google.co	

				Responsibility of Business and Business Ethics	responsibility ,Responsibility towards owners, investors, consumers, employees, government and community,Role of business in environment protection ,Business Ethics – Concept and Elements		social responsibility of business towardsdifferent interested group of society.	social responsibility. *State the concept of business ethics. *Describe the elements of business ethics.	m/file/d/1LMw3l17eMrigh_KhHGwnhDrWqQVIVy8v/view?usp=sharing
TOTAL		100				40			
HALF YEARLY EXAM NOV.2021 (80 marks)									
Finance and Trade									
7	NOV.	20	30	Sources of Business Finance	Concept of business finance ,Owners’ funds – equity shares, preferences share, retained earnings, Global Depository receipt (GDR), American Depository Receipt (ADR) and International Depository Receipt (IDR) – concept , Borrowed funds: debentures and bonds, loan from financial institution and commercial banks, public deposits, trade credit, Inter Corporate Deposits (ICD).	20	* Differentiate between Equity shares and Preference shares . * Self financing (ploughing back of profit) is a cushion of security , prepare a presentation of the role of the retained earning in business. * Make a comparative chart of ADR , GDR and IDR	State the meaning, nature and importance of business finance. *Classify the various sources of funds into owners’ funds.	https://drive.google.com/file/d/1yosdve29pwwKQslwdNrjcefwNNowtHkv/view?usp=sharing
8	NOV./DEC	10	16	Small Business	Entrepreneurship Development (ED): Start-up India Scheme, Intellectual Property Rights and Entrepreneurship , Small scale enterprise as defined by MSMED Act 2006 (Micro, Small and Medium Enterprise Development Act) ,Role of small business in India with special reference to rural areas , Government schemes and agencies for small scale industries: National Small Industries Corporation (NSIC) and District Industrial Centre (DIC) with special reference to rural, backward areas		* Prepare a project on “Startup INDIA SCHEME” As a campaign of Government of India , showing the various ways and schemes to fund the startup India scheme *Role of small scale business in rural India .	*Understand the concept of Entrepreneurship Development (ED), Intellectual Property Rights *Understand the concept of Entrepreneurship Development (ED), Intellectual Property Rights	https://drive.google.com/file/d/1vCyIPvlwnUEq7iVpmHCOhS4vemXr0_D_/view?usp=sharing
PERIODIC TEST II JAN. 2022 (50 marks)									

9	DEC/JAN.	20	30	Internal Trade	Internal trade – meaning and types services rendered by a wholesaler and a retailer , Types of retail-trade-Itinerant and small scale fixed shops retailers , Large scale retailers-Departmental stores, chain stores – concept , GST (Goods and Services Tax): Concept and key-features	20	* Describe the role(services) of Retailers to customers in this epidemic period in India. *Find the chain stores located in your city and prepare a report on the identified chain stores specifying the features of the chain stores.	*Explain the different types of retail trade. *discuss the concept of GST.	https://drive.google.com/file/d/1uF-CfUe70iEQQt3Eg44EDl00HICow17j/view?usp=sharing
10	JAN	9	14	International Business	International trade: concept and benefits ,Export trade – Meaning and procedure ,Import Trade – Meaning and procedure, Documents involved in International Trade; indent, letter of credit, shipping order, shipping bills, mate’s receipt (DA/DP) ,World Trade Organization (WTO) meaning and objectives.		*Prepare a project on procedure of Export trade . *Prepare a project on WTO ,Describing the role of WTO in international business in present situation.	*State the meaning and objectives of export trade. *Explain the important steps • involved in executing export trade.	https://drive.google.com/drive/folders/1M54flbEwxhXnRILyQ0GrOX8pbi0INtc6
			90	Total		40			
12	JAN./FEB	20	30	Project Work		20			
			220	Total MARKS		100			
13	FEB	15		REVISION					
SESSION ENDING EXAMINATION MARCH 2022 (80 marks)									
LINKS. BUSINESS STUDIES : https://drive.google.com/drive/folders/1M54flbEwxhXnRILyQ0GrOX8pbi0INtc6									

STATEMENT OF TEACHING PHILOSOPHY

BY ARVIND KUMAR MAURYA PGT COMMERCE KV NO. 2 NTPC KORBA

"My philosophy of education is that all children are unique and must have a stimulating educational environment where they can grow physically, mentally, emotionally, and socially. It is my desire to create this type of atmosphere where students can meet their full potential. I will provide a safe environment where students are invited to share their ideas and take risks.

"I believe that there are some essential elements of learning.

- (1) The teacher's role is to act as a facilitator.
- (2) Students must be able to have choices and curiosity of their learning.
- (3) Students need the opportunity to practice skills in a safe environment.
- (4) Now a days Technology play an important role and must be incorporated into the school day.

"I believe that a teacher is morally obligated to enter the classroom with only the highest of expectations for each and every one of her students. I aim to bring an open mind, a positive attitude, and high expectations to the classroom each day. I believe that I have to give it to my students, as well as the community, to bring consistency, diligence to my job in the hope that I can ultimately inspire and encourage such traits in the children ."

"Every classroom has its own unique community; my role as the teacher will be to assist each child in developing their own potential and learning styles. I will present a curriculum that will incorporate each different learning style, as well as make the content relevant to the students' lives."

SWOT ANALYSIS OF STUDENTS IN BUSINESS STUDIES

IMPORTANCE OF SWOT ANALYSIS: The importance of SWOT analysis for students is that it helps to know a clear picture of where they stand . Swot analysis also helps the students to identify their improvement areas and in setting goals.

STRENGTHS

- Having good critical and analytical skill
- Strong language/writing skill
- Linking of ideas within assignments
- Communication skill
- Confidence to give /receive peer views
- Ability to effectively manage time
- Students creativity
- Inter-personal skill
- work/study/social balance
- Bright and committed faculty
- Students advising initiative

WEAKNESSES

- Relating theory directly to literature
- Self criticism
- Poor at dealing with conflict
- Reserve , almost shy
- Diminished competitive spirit among students
- Uncomfortable speaking in front of groups

OPPORTUNITIES

- Develop learnt techniques of inquiry/reflection application to practice.
- Ability to turn strength into opportunity
- New technology
- Increase online learning ability

THREATS

- Being to complacent
- Loosing drive
- Being disheartened if marks are below what is expected
- Change in technology

MACRO LESSON PLAN CLASS XI

Topic/Lesson	Nature and Purpose of Business (Evolution and fundamentals of business)			
Period Required	18			
Date of Commencement	01.08.2021			
Date of Completion	14.08.2021			
Gist of Lesson Focused skills/Competencies	Targeted learning outcomes (TLO)	Teaching learning activities planned for achieving the TLO using suitable resources and classroom management strategies	Assessment Strategies Planned	Co-relation with other subjects

<p>History of Trade and Commerce in India: Indigenous Banking System, Rise of Intermediaries, Transport, Trading Communities: Merchant Corporations, Major Trade Centres, Major Imports and Exports, Position of Indian Sub-Continent in the World Economy .Concept and characteristics of business. Business, profession and employment Meaning and their distinctive features. Objectives of business-Economic and social, role of profit in business. Classification of business activities: Industry and Commerce. Industry-types: primary, secondary, tertiary-Meaning and sub types.Commerce-trade: types (internal, external, wholesale and retail; and auxiliaries to trade: banking, insurance, transportation, warehousing, communication, and advertising.Business risks-Meaning, nature and causes</p>	<p>Describe the meaning and main features of business.State the distinctive features of business as a profession and employment. Gain an insight about the goals of a business emphasizing the importance of profit as a goal and orientations of the student towards social objective of a business.Explain the meaning of commerce and trade, different types of trading activities and services which assist trade. Explain different types of businessactivities and their classification between industrial and commercial activities. Explain different types of business activities and their classification between industrial and commercial activities.Distinguish between primary,secondary and tertiaryindustrial activities. Develop awareness about the types of risks that a business is exposed to and to understand their nature and causes</p>	<p>*Draft a report on indigeneous banking system using different types of Hundies. *Draft a report on the leading trade centres in ancient India. * prepare a project on "Make In India" SCHEME</p>	<p>*Online MCQ test through google form . *Conduct of online quiz competition on the topic nature and purpose of business</p>	<p>Some topics of this unit like types of Industries ,Economic activity , Transportation ect. you have already discussed in class IX and X in Economics . Recall them</p>
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MICRO LESSON PLAN CLASS XI

SUBJECT	BUSINESS STUDIES		
TOPIC	PRINCIPLE OF INSURANCE	PERIOD	: IST PERIOD

Date	08.08.2021	DURATION: 40 MINUTES	
CONTENTS	1.Meaning and definition of Insurance		
	2.General Principles of Insurance		
General Aims	1. To develop the knowledge regarding business studies		
	2.To develop interest of students in bus studies.		
	3.To develop understanding level of students		
Instructional Objectives	1. Making students able to understand the concept of Insurance.		
	2. Inculcating ability to interpret the meaning of Insurance.		
	3.Students will be able to understand the General Principles of Insurance		
Application	1.Analysing the importance of Insurance in Business and in their life		
	2.Applying the knowledge in their day to day life		
Teaching aids used in online class	Lap top, internet connection , smart board, well prepared powerpoint presentation on the topic , digital chart showing principles of insurance		
Previous knowledge	1. What do you mean by risk?		Ans. Possibility of losses
	2. What are the causes of risk?		Ans Uncertain and unforeseen events
	2. How can this risk be covered?		Ans ?
Anouncement of topic	Well students , today we will study about "Insurance"		
Presentation	By using powerpoint presentation on the topic Insurance and General Principles of Insurance.		
POINT	Targeted learning outcomes (TLO) by teachr	Teaching learning activities planned for achieving the TLO using suitable resources and classroom management strategies (by students)	Assessment as learning

Meaning and features of Insurance	Explaining meaning and features of Insurance with the help of power point presentation .Fire Insurance, Marine Insurance and Life Insurance	* Listening by students carefully having a proper interaction. *Involve the students to write the meaning and points of the features of Insurance.	Asking points of the features of Insurance and asking name of Insurance companies.
Parties of Insurance	Explain Two parties Insured and Insurer	Motivate the students to write the meaning of Insured and Insurer, Insurance is an agreement between Insurer and Insured,	Who promise to cover the future losses due to uncertainty?
General principles of Insurance	Explain 1. Principle of Utmost good faith 2 . Insurable Interest 3.Indemnity	Students have to listen and write the main contents/features of the principle of Insurance and its applicability in different Insurance (Fire Insurance, Marine Insurance and Life Insurance)	In which Insurance Indemnity Principle is not applicable? Presentation of MCQ /filling the blank and conducting Quiz on the topic discussed today.
Recapitulation	Presenting objective type questions/ MCQ /filling the blank and conducting Quiz on the topic discussed above for Recapitulation and to judge the learning outcomes		
Home Work	Revise the topic discussed today and Give Answer of the following Questions and upload on google classroom 1. Define Insurance . Describe the features of Insurance? 2. Who are the parties of Insurance? Explain the principles of utmost good faith, and Indemnity Principle of Insurance.		

KENDRIYA VIDYALAYA SANGATHAN, RAIPUR REGION
SPLIT UP SYLLABUS 2021-22
CLASS: XI SUBJECT: ACCOUNTANCY

w.e.f. 25/07/2021

Month	No. of days	No. of periods	Name of Chapter/ Unit	Learning outcomes to be covered	Suggested Projects / Practical/ Activities under Internal Assessment	Assignments	Important Link for Diksha / NCERT / U-tube / ppt etc.
July	06	09	Introduction to Accounting	(1) Describes relationship between accounting, accountancy and book keeping. (2) Define various terms used in accounting. (3) Role of accounting as a language of business enterprise. (4) Differentiates between accounting data & accounting information. (5) Identifies users of accounting information for communication & dissemination. (6) Lists the qualitative characteristics of accounting information.	(A) Accounting cycle (B) Users of accounting information and their needs (C) Qualitative aspects of accounting information. Class test to be taken at the chapter/unit in the mode of:	https://drive.google.com/file/d/1C3NRN2gaWBCh4_VYDwEq2ML0koFomBQA/view?usp=drive_web&authuser=1 https://drive.google.com/file/d/1ZmTi5FyiVHY9gYob3kjK2O1mP7PpOyWm/view?usp=sharing https://docs.google.com/forms/d/1or_npiGHxakjECYpOFkYt1SAjxFyKiSbNITqrTsmXdU/edit?usp=sharing	https://diksha.gov.in/play/content/do_313068393720635392111045 https://diksha.gov.in/play/content/do_31306838977641676818791 https://diksha.gov.in/play/content/do_313068391844290560115353 https://ncert.nic.in/textbook.php?keac1=1-8
August	24	16	Theory Base of Accounting	(1) State the meaning & purpose of the basic accounting concepts (2) Lists the Indian accounting standards issued by ICAI (3) Classifies accounting data into assets, liabilities, capital, revenue & expenses (4) Identifies monetary & non-monetary events for recording in the books of accounts	(A) Concepts, Principles of accounting (B) Enlist the Indian accounting Standards issued by ICAI (C) Enlist the source documents for recording of business transactions (D) Draw the Debit & Credit Vouchers of a business firm with imaginary amount of money.	https://forms.gle/UUu6XyAA_SanPXyxr9 State the meaning of accounting concepts and its significance in accounting treatments. State the accounting standards and its objectives.	https://drive.google.com/file/d/16qs8KGomU9qhc2DDk8UfnoB0hP1WaO3p/view?usp=drive_web&authuser=1 https://diksha.gov.in/play/content/do_313068761902120960110118 https://ncert.nic.in/textbook.php?keac1=2-8
		18	Recording of Transactions	(1) Differentiates between source documents and support documents (2) Categories types of source documents (3) Apply accounting equation to process business transactions for recording in books of accounts	(A) Categories types of source documents (B) Draw an Accounting Equation with any six business transactions (C) Make a chart to show Rules for debit and credit	https://drive.google.com/file/d/1F74jS0SLK2UHxayQfeBVTliBTlB0y0LU/view?usp=drive_web&authuser=1 https://drive.google.com/file/d/	https://diksha.gov.in/play/content/do_313068768498860032111125 https://diksha.gov.in/play/content/do_313068818174844928110148

				(4) Applies the rules of debit and credit in Journalizing and posting in the ledger	(D) Draw Journal entries with any 10 business transactions	1np_PgSsZlmbS1SwVC4U01DuphRstBai/view?usp=drive_web&authuser=1	https://ncert.nic.in/textbook.php?keac1=3-8
Sept	24	23	Recording of Transactions	(1) State the meaning & purpose of Special purposes books (2) Preparation of Cash Book & other special books (3) Preparation of Ledger for every account head	(A) Draw a double column Cash Book for a business firm with imaginary items and money. (B) Draw Sales book, Purchase book with imaginary items and money (C) Draw a Ledger for Debtors with any six relevant transactions	1. Draw double column Cash Book with 10 imaginary transactions and amount. 2. Draw a Ledger of a Debtors with six relevant transactions with imaginary amount. 3. Enlist any 10 causes of differences between the balance of cash book and passbook.	https://ncert.nic.in/textbook.php?keac1=3-8 https://diksha.gov.in/play/content/do_313068818174844928110148 https://www.youtube.com/watch?v=fYILOMMTYN4 https://youtu.be/FIldzsBGI6M
		09	Bank Reconciliation Statement	State the meaning and objective of Bank Reconciliation Statement	Draw a Statement with any six different causes of difference between cash book & pass book.	First Periodic Test (50) (1) Google Form (CBQ & Objectives: 20 marks) (2) Work-Sheet (Subjective: 30 marks)	https://ncert.nic.in/textbook.php?keac1=5-8
Oct	20	07	Bank Reconciliation Statement	Preparation of Bank Reconciliation Statement	Draw a Bank Reconciliation Statement with any six different causes of difference with imaginary figures.	https://drive.google.com/file/d/1kz_xWAJWc6hP8joik-tnS6-1k7dVVHTa/view?usp=drive_web&authuser=1	https://diksha.gov.in/play/content/do_31268896855637196817019 https://diksha.gov.in/play/content/do_313068819536666624115448
		16	Depreciation, Provisions & Reserves	(1) State the meaning, concept of Depreciation and Provisions & Reserves (2) State the meaning & Purpose of methods of depreciation and types of provisions & reserves (3) Preparation of Depreciation, Provision for Depreciation, Asset and Asset Deposal Accounts	(A) Draw Asset A/c, Provision for Depreciation A/c with necessary posting and imaginary figures (B) Draw a table to show differences between methods of depreciation (C) State the types of Provisions and Reserve with its purpose to make it.	https://drive.google.com/file/d/14L27rHkGIC3RWmA94Im6W8Dq7XbhN-nw/view?usp=drive_web&authuser=1 Draw a table to differentiates between Provisions and Reserves	https://ncert.nic.in/textbook.php?keac1=7-8 https://mycbseguide.com/downloads/cbse-class-11-accountancy-depreciation/1416/cbse-revision-notes/7/
		08	Bills of Exchange	(1) Acquire the knowledge of using bills of exchange and promissory notes for financing business transactions (2) Understand the meaning and	(A) Make a chart to differentiates between Bills of Exchange and Promissory Notes (B) Draw a specimen of Bills of	Draw a specimen of Promissory Note and Bills of Exchange State the different types of terms used in Bills of	https://ncert.nic.in/textbook.php?keac1=8-8 https://diksha.gov.in/play/content/do_313068831278694400116307

				distinctive features of these instruments and develop the skills of its preparation	Exchange	Exchange	
Nov	23	08	Bills of Exchange	(1) State the meaning of different terms used in bills of exchange and their implication in accounting (2) Understanding on the entries for recording of bill transactions under various cases.	(A) State the different terms used in bills of exchange and its accounting treatment (B) Accounting entries on – acceptance, honor, dishonor, endorsement, discounting, retirement of bills of exchange.	https://drive.google.com/file/d/1x84cUsl6t3yA4dsSIJMOTA6NfB1w6LKD/view?usp=drive_web&authuser=1	https://ncert.nic.in/textbook.php?keac1=8-8 https://diksha.gov.in/play/content/do_313068831278694400116307
		16	Rectification of Errors	(1) State the need & objectives of preparing trial balance and develop the skill to draw trial balance for summarizing accounting data. (2) Understand the meaning of different types of errors and their effect on trial balance. (3) Locates errors and rectifies them in case of disagreement of trial balance.	(A) Draw a Trial Balance with all necessary heads of accounts and imaginary figures (B) Enlist the types of errors and state. (C) Locate errors and rectifies them in different types of errors (D) Enlist the errors which do not affect to trial balance	https://drive.google.com/uc?export=download&id=1Wdn6R7jr8TXBtWxN86Ssxxb98AvKnmtJ https://drive.google.com/uc?export=download&id=1TdbnVMzG_zL317fLSSH9HuWfX1w6p0kL	https://drive.google.com/file/d/1Z7FnTGIsfyD2dw-pyXghPLDJwVzegMas/view?usp=sharing https://ncert.nic.in/textbook.php?keac1=6-8 https://diksha.gov.in/play/content/do_313068820634624000111049
		12	Financial Statements of a sole proprietorship firm	(1) Categories items of revenue & capital (2) Calculates gross profit, operating profit and net profit of a business entity. (3) Differentiates between Income Statement and Position Statement	(A) Enumerate the meaning and objectives of financial statements (B) State the meaning of gross profit, operating profit and net profit. Also state that how to calculate each one	Half-Yearly Exam (80) (1) Google Form (CBQ & Objectives: 32 marks) (2) Work-Sheet (Subjective: 48 marks)	https://ncert.nic.in/textbook.php?keac2=1-5
Dec	20	31	Financial Statements of a sole proprietorship firm	(1) Skills for preparing Trading Account, Profit & Loss Account and Balance Sheet. (2) Make adjustments for closing stock, prepaid expenses, outstanding expenses, accrued income, income received in advance, bad debts, depreciation etc.	(A) Draw the financial statements with the help of trial balance without adjustments. (B) Draw the financial statements with the help of trial balance with adjustments	https://drive.google.com/file/d/1Ri0H0FU05FTAwbCuAMGBgmSV0KfsUEm4/view?usp=drive_web&authuser=1	https://ncert.nic.in/textbook.php?keac2=2-5
		12	Financial Statements from Incomplete records	(1) Distinguishes between Double entry and Single entry (2) Enumerates causes and limitations of incomplete records. (3) Ascertain profit/loss from incomplete records.	(A) Enlist the limitations of Incomplete records (B) Ascertain the profit/loss from the incomplete records by Statement of Affairs method	https://drive.google.com/uc?export=download&id=1blyrT17a3pjA5N9K_54v5jFxFxG5gI7ML Differentiates between manual accounting and	https://ncert.nic.in/textbook.php?keac2=3-5

Jan	24	15	Computers in Accounting	(1) State the meaning of accounting information system. (2) Appreciate the need for use of computers in accounting for preparing accounting reports. (3) Develop the understanding of comparing the manual and computerized accounting process and appreciate the advantages and limitations of automation.	A) State the significance of accounting information in Management Information System (B) Draw a table to differentiate between manual and computerized accounting system	computerized accounting State the significance of computerized accounting. https://drive.google.com/uc?export=download&id=1A5pCk84LxY2aLjO_NHAgh9qUaCAqUxWD Second Periodic Test (50) (1) Google Form (CBQ & Objectives: 20 marks) (2) Work-Sheet (Subjective: 30 marks)	https://ncert.nic.in/textbook.php?keac2=4-5
		05	Project-Work				
Feb		15	Project-Work	Compilation of Project – Work			
REVISION WORK (Teaching – Test – Re-Teaching – Re-Test)							
March	SESSION ENDING EXAM						

Conduct of On-Line classes

- Problem / Challenges faced during the previous academic session (subject specific).
- Action Plan to overcome those challenges during the current academic session.

Problem / Challenges faced during the previous academic session in Accountancy subject

1. Students of class XI have pre-assumption for the Accountancy subject as the subject of Mathematics. It creates unnecessary fear in the mind of students.
2. Many of the students were trying to cram the theory, concept and principles of accountancy and hence they failed to apply these in the given practical problem in Accountancy subject.
3. There was poor network connectivity problem faced by few students. Resulting, students forced to left / discontinued the on-line class.
4. Face-to-face interaction is a major advantage of on-line classes but despite of instruction given to the students, they switch offed the video in the class due to poor net connectivity and less data balance in their device. Face to face interaction provide the scope to identify individual level of understanding of student to student in a particular subject topic.
5. Off-line mode of instruction provides ample opportunities to the students and teacher to interact each other even after the class session to clarify the individual difficulty either related to subject areas or other issues. It was lacking in the on-line classes.
6. In the off-line mode, teacher may assign the practical question and could observe every student note-book by moving around the whole class. It helps to that student who find difficulty to solve the accountancy problem and failed to ask due to hesitation. Whereas, it could not be possible to do so in on-line mode.

7. Group Discussion in on-line classes is very difficult as the few students are not freely expressed their view on the given topic.
8. It was observed that, Assessment through on-line mode is not a good tool to judge the level of understanding in the Accountancy subject. Many of the students are free to get the help of internet, text materials to find the solution of question paper. It creates difficulty to find that who has lacking in adequate learning, who's performance reflecting real as shown in the answers etc.
9. It was observed that digital form of resource materials in Accountancy subject provided to the students were not used by them.
10. At the last, many of the teacher are not competent to use the advance tech-know to make more effective on-line classes.

Action Plan to overcome those challenges during the current academic session

1. Counseling of students for newly admitted students in class XI by the Accountancy subject teacher to clarify their individual doubts, differentiates as well as explain the similarity between Accountancy subject and others.
2. It is the responsibility of Accountancy teacher to explain the concept, theory and principles of accounting in a real situation of business and relate the same its practical application in the field of accounting. It helps a lot to the students to develop the understanding on these aspects with its applicability rather than to cram the same.
3. To resolve the problem of poor connectivity or non-availability of proper electronic device for online class on the hand of students, Parent-Teacher Meeting is the best platform. In the PTM, Accountancy teacher has to discuss and encourage them to provide this facility to their ward for better education of child. Home-time table for self-study of individual learner also to be discussed in the PTM by expecting from parent's to regularly observe / monitor and supervise during the self-study of their ward at home. It helps to ensure for proper use of electronic gadgets provided by parent to their child as well as pace of study of individual learner.
4. Individual learner who could not perform up to the expected level, may regularly make contact with the students of that parent and creates a familiar pool between the problem faced by individual learner and expected outcomes of learning. It is advice to the Accountancy teacher to make a separate group of these level of learner to put regularly their problems, doubts in Accountancy as they are hesitating to express in a common group of students.
5. There is need to improvise the Assessments tool in such way that the correct answer can be given by only those students who learn, grasp, understand and have practical application ability in accounting problems.
6. Vidyalaya and teacher must ensure for the availability of printed resource materials on the hand of every student.

7. Despite of switching of from off-line to on-line mode of instruction promptly by the accountancy teacher, still is required to upkeep the practical knowledge in various electronic tools / method to make the accountancy teachers more effective in on-line teaching learning process. Therefore, in new scenario, to become more effective accountancy teacher, teachers have to develop habits to find the way from their own source to improvise his / her teaching skills for on-line classes as well as Vidyalaya also find the challenges/problems of individual teachers and provide facility for imparting adequate skills required in on-line classes.

(G Shrivastava)

PGT Commerce

KV No. 01 Raipur (Shift:01)

Statement of Teaching Philosophy in Accounting

(G Shrivastava, PGT Commerce, KV No. 01 Raipur)

My teaching philosophy has a singular aim: cultivating student **self-efficacy** (Bandura, 1977) through orchestrating a learning process and space (Kolb & Kolb, 2005) that allows each student the opportunity to not only acquire course relevant knowledge and skills, but emerge confident in his/her capability to use that knowledge to achieve success.

Students transform experience and thereby learn in a variety of ways based on their individual stage of development in critical reasoning, as well as cognitive preferences and learning styles. Individual situations, prior learning, cultural experiences, as well as generational differences also affect how students learn. The needs of working adults are different from those of traditional full-time students. Students differ in a myriad of ways — from each other as well as from the instructor. I believe that tailoring both the learning environment and materials in ways that maximize the opportunity for individual students to relate to them is key to fostering student **self-efficacy**.

I have found that students learn best when they are exposed to different teaching methods to ensure that the material is reinforced and firmly grasped. This variety ensures that no student is ignored and that each student has the opportunity to learn and to perform to his or her full potential.

Additionally, I try to make the topic as relevant as possible while keep the learning principle intact. Rather than have the students memorize formulas and textbook problems, I prefer to challenge them with real-life exercises that will empower them and prepare them for their future careers. For example, when I teach accounting entry for a business transaction, emphasizes to relate with accounting equation that after making each and one accounting entry there will be all assets become equal to all the liabilities of a business firm. Therefore, this mechanism will help to develop proper understanding in the mind of students that learning of accounting is easier than the other subjects.

At the first day of my Accountancy class, I always told to the students that the subject of Accountancy is not a same as the subject of Mathematics. In the mathematics, many equations are required to memorize for finding the solution where as in accounting, only one equation i.e. balance sheet equation and one rules for debit and credit. It helps a lot to leave the fear among the students with the subject of Accountancy.

I try to make the topic as relevant as possible while keep the learning principle intact. Rather than have the students memorize formulas and textbook problems, I prefer to challenge them with real-life exercises that will empower them and prepare them for their future careers.

I always use to ask with students to develop understanding for any accounting treatment – “**Why?** and **How?**”. The answer of how is depends on the answer of why. An example for the transaction of ‘Commencement of business with ₹ 5,00,000 of cash’. There two concepts of accounting, rules of debit & credit and term of asset being applied to record this transaction in the books of account:

1. Business Entity concept: Business firm and its proprietor has separate entity to each other from accounting point of view therefore, cash contributed by proprietor will be treated with aspect of account named - ‘Capital’
2. Asset: Any kind of money being used in the business exceed to 12 months and which has some monetary value will be treated with aspect of account named – ‘Asset’. In the given transaction, cash will be treated an asset.
3. Dual Aspect concept: Every business transaction has two aspects of which one should be debited and another to be credited.
4. Rules of Debit and Credit: There is asset being increased in the form of cash and liabilities on the business being increased in the form of capital (claim of proprietor on business)

As per the rule for debit and credit for Asset and Capital

- Whenever asset being increased – has to debit
- Whenever liabilities being increased – has to credit

Therefore, the Journal entry of the transaction will be:

Cash A/c	Dr.	5,00,000	
	To Capital A/c		5,00,000

Before I walk into class, the questions must feel alive for me. I prepare by re-reading the work, discussing, recollecting and reviewing past notes, preparing new ones related to the particular accounting topic to be taught. All of this preparation assists me in asking the right questions, in the right order, at the right time – an anticipation of rhythm of the class.

When I arrive, I try to look at each student’s face, greet the class as a whole with a smile, and, in some form, ask, “How are you?” It’s helpful to know “where the students are at”: Are they excited? Weary? Distracted? Struggling? Puzzled? Since the learning in each class is collaborative and interpersonal, it is crucial that I attend to the students with whom I will be teaching – and largely by asking questions and integrating points – and from whom I will be learning. We begin class with a prayer or a minute of silence, and then begin our conversation.

In the process of teaching – learning in the class-room, I believed to give freedom of speech to the students to ask the question on the topic delivering by me, if they find difficulty to understand the same. Its helps to classify three level of learners – firstly ‘who are continuously have approach to learn, grasp and understand the topic and able to express the same to find the solution in a given situation, secondly – ‘who are continuously have approach to learn, grasp and may not be understand that’s why hesitated to raise any question on the topic and finally – others, who are alone in the class to whom keen observation is to be needed in the remedial teaching. The third level of learner is required inclusion approach in the pace of learning. They may have several issues which has to identify and resolve in time to re-connect them towards learning process with zeal and enthusiasm. Therefore, the environment of class-room and teaching-learning process should be the student oriented.

“I cannot teach anybody anything. I can only make them think.”

Therefore, my teaching philosophy centers upon teaching students to learn to think and communicate rather than to memorize!

Parameters to analysis the Strength and Weaknessof an Individual learnerin the particular subject

Following is the tool may be used to identify and analysis the strength and weakness of a student learner in a particular subject:

Competency Level		Types of Skill to express her/himself a learner	
		Verbal Skill	Writing Skill
01	Knowledge	YES / NO	YES / NO
02	Understandability	YES / NO	YES / NO
03	Application ability	YES / NO	YES / NO

04	Critical Thinking	YES / NO	YES / NO
05	Problem Solving ability	YES / NO	YES / NO

1. **Verbal Skill:** Whether student able to know, understand the theory, concept and other factual information of a subject areas as well as could express by utter then he/she has verbal competency skill in that subject at the average level.

If the student able to apply, think critically and also having problem solving ability by expressing in verbal form then he/she has full of competency in verbal skill.

2. **Writing Skill:** Whether student able to know understand the theory, concept and other factual information of a subject areas as well as could express by writing then he/she has writing competency skill in that subject at the average level.

If the student able to apply, think critically and also having problem solving ability by expressing in written form then he/she has full of competency in written skill.

The student who has ‘Verbal Skill’ as well as ‘Written Skill’ in all five (05) level of competency, he / she is **OUTSTANDING** in the respective subject areas.

STRENGTHS	WEAKNESSES
<ul style="list-style-type: none"> • Having good critical and analytical skill, Strong language/writing skill • Linking of ideas within assignments, Communication skill • Confidence to give /receive peer views, Ability to effectively manage time • Student’s creativity, Inter-personal skill • work/study/social balance, Bright and committed faculty • Students advising initiative 	<ul style="list-style-type: none"> • Relating theory directly to literature • Self criticism • Poor at dealing with conflict • Reserve, almost shy • Diminished competitive spirit among students • Uncomfortable speaking in front of groups

MACRO – LESSON PLAN

CLASS: XI SUBJECT: ACCOUNTANCY

Topic: Theory Base of Accounting (This topic is divided in 16 lessons of 40 minutes each)

Period Required	16 Periods					
Date of Commencement	01/08/2021					
Date of completion	15/08/2021					
Gist of Lesson Focused skills/Competencies	Targeted learning outcomes (TLO)	Teaching learning activities planned for achieving the TLO using suitable resources and classroom management strategies	Assessment Strategies Planned	Co-relation with other subjects	Assignments	Link for the Chapter/Unit
<p>* GAAP: Concept Business entity, Money Measurement, Going concern, Accounting period, Cost, Dual aspect, Revenue recognition, Matching, Full disclosure, Consistency, Conservatism, Materiality and Objectivity - Meaning and its significance in accounting.</p> <p>* System of Accounting: Cash basis and Accrual base of accounting.</p> <p>* Accounting Standards: Applicability in IndAS, Need of IFRS</p> <p>* Goods and Service Tax (GST) meaning, features, objectives and its application in accounting</p>	<p>After the lesson, students will be able to understand: Meaning & purpose of the basic accounting concept of GAAP, Business Entity and Money Measurement, Going concern, accounting period, Cost, Dual aspect, Revenue recognition, Matching, Full disclosure, Consistency, Conservatism, Materiality and Objectivity in the process of accounting. Cash and Accrual base of accounting. Accounting Standards and GST</p>	<p>(A) Draw a table to show the accounting concepts, principles and its applicability in the accounting process (B) State the way to ascertain the profit/loss under the cash basis and Accrual basis of accounting. (C) Enlist the types of GST and its present slab for identified categories (D) State any five concepts/principles of accounting to be useful for the preparation of financial statements</p>	<p>Some area of this lesson is relating with our daily life such as - Money measurement, Matching concept, accounting period etc and GST. All the users of accounting information must know the concept/principles applied by the business to maintain their books of accounts and financial statements.</p>	<p>Principles of accounting derived by experimental and observation therefore, its related to all the field of subjects. Mathematics</p>	<p>https://forms.gle/BU9FKMotk82jShLd9</p> <p>A) Draw a table to show the accounting concepts, principles and its applicability in the accounting process (B) State the way to ascertain the profit/loss under the cash basis and Accrual basis of accounting. (C) Enlist the types of GST and its present slab for identified categories (D) State any five concepts/principles of accounting to be useful for the preparation of financial statements</p>	<p>https://diksha.gov.in/play/content/do_313068393720635392111045</p> <p>https://diksha.gov.in/play/content/do_31306838977641676818791</p> <p>https://diksha.gov.in/play/content/do_313068391844290560115353</p> <p>https://ncert.nic.in/textbook.php?keac1=1-8</p> <p>https://ncert.nic.in/textbook.php?keac1=2-8</p>

MICRO – LESSON PLAN

CLASS: XI SUBJECT: ACCOUNTANCY

SUBJECT	ACCOUNTANCY		PERIOD	SECOND
TOPIC	Theory Base of Accounting (GAAP, Concept of Accounting)			
DATE	01/08/2021		TIMING	40 MINUTES
Contents	(1) Meaning & Significance of GAAP (2) Concept of Accounting – meaning and its significance in accounting			
General Aims	To develop knowledge regarding meaning & significance of GAAP and concepts of accounting			
	To Develop understanding on GAAP and concept of accounting			
Instructional Objectives	Making students able to understand the concept of GAAP and Concept of accounting			
	Developing ability and skills to apply the concepts in accounting			
	Enable the students to understand the different transactions in which concepts of accounting applicable			
Application	Analysing the role of GAAP and concepts of accounting			
	Applying the knowledge in various business transactions, the learned concepts of accounting			
Teaching Aids	Lap top, Internet connection, Smart Board, PPT, Mind Map chart ...			
Previous Knowledge	What is Accounting?			
	What are the objectives of accounting?			
Announcement of topic	Well students, today we will discuss about GAAP and concepts of accounting			
Presentation	Power Point Presentation on the topic – Concept of GAAP and concepts of accounting			
Gist of Lesson Focused skills/Competencies	Targeted learning outcomes (TLO)	Teaching learning activities planned for achieving the TLO using suitable resources and classroom management strategies	Assessment Strategies Planned	Assessment as Learning
* GAAP: Concept Business entity, Money Measurement, - Meaning and its significance in accounting.	After the lesson, students will be able to understand: Meaning & purpose of the basic accounting concept of GAAP, Business Entity and Money Measurement in the process of accounting.	Explain the concepts with real life situation, i.e. we can buy a goods from a business firm at the particular price after measuring in terms of money.	Competency and Objective based questions will be asked in the google form about – Meaning and significance of GAAP, Business Entity, Money Measurement concepts	https://forms.gle/BU9FKMoTk82jShLd9

Class XI Accountancy: Links for MCQs

1. [Introduction to Accounting Class 11 MCQ](#)
2. [Theory Base of Accounting Class 11 MCQ](#)
3. [Recording of Transactions 1 Class 11 MCQ](#)
4. [Recording of Transactions 2 Class 11 MCQ](#)
5. [Bank Reconciliation Statement Class 11 MCQ](#)
6. [Trial Balance and Rectification of Errors Class 11 MCQ](#)
7. [Depreciation, Provisions and Reserves Class 11 MCQ](#)
8. [Bills of Exchange Class 11 MCQ](#)
9. [Financial Statements 1 Class 11 MCQ](#)
10. [Financial Statements 2 Class 11 MCQ](#)
11. [Accounts from Incomplete Records Class 11 MCQ](#)
12. [Applications of Computers in Accounting Class 11 MCQ](#)
13. [Computerized Accounting System Class 11 MCQ](#)
14. [Structuring Database for Accounting Class 11 MCQ](#)
15. [Accounting System Using Database Management System Class 11 MCQ](#)

Class	Hard copy of the Accountancy material for the students not having proper devices and connectivity
XI	https://drive.google.com/file/d/1NXk-n3hk3cXwrgTky-GG78Lnv1h7aBwl/view?usp=sharing

(G SHRIVASTAVA)
PGT COMMERCE
KV NO. 01 RAIPUR

KENDRIYA VIDYALAYA SANGATHAN, RAIPUR REGION

SPLIT UP SYLLABUS (2021-22)

SUBJECT- ECONOMICS (030)

CLASS- XI

Months	Number of Working Days	Number of Periods	Name of the Unit / Chapter/ Topic	Learning Outcomes to be Covered	Suggested Projects/ Practical/ Activities Under Internal Assessment	Important Link of DIKSHA/ CBSE/PPTs
JULY AND AUGUST	25	50	*MICRO ECO- INTRODUCTION *CONSUMER EQUILIBRIUM- UTILITY *INDIFFERENCE CURVE *DEMAND *STATISTICS- INTRODUCTION	In this course the students are introduced with the basic principles of Micro Economics. This course covers the concept of utility, central problem of an economy, demand analysis, elasticity of demand and introduction of statistics.	Given the chance to students to make diagrams and tables related to these concepts.	https://youtu.be/8eykEG7DOfM https://diksha.gov.in/play/collecti on/do_31310347542798336011098?referrer=utm_source%3Dmobile%26utm_campaign%3Dshare_content&contentId=do_31308793234080563213149
SEPTEMBER	22	44	*COLLECTION OF DATA *ORGANISATION OF DATA *PRESENTATION OF DATA	The students will be able to learn about the methods of data collection, way how to organize data and different method to present data.	Graphical practice of different methods of presentation of data. (PT- I)	https://diksha.gov.in/play/collecti on/do_31310347532020121611421?referrer=utm_source%3Dmobile%26utm_campaign%3Dshare_content&contentId=do_3131105566324899841727
OCTOBER (PROJECT WORK- AUTUMN BREAK)	15	30	*PRODUCTION FUNCTION. *CONCEPT OF COST. *CONCEPT OF REVENUE	The learners are expected to get some basic idea about production, cost and revenue.	Worksheet of LA, SA, VSA questions.	https://diksha.gov.in/play/collecti on/do_31310347542798336011098?referrer=utm_source%3Dmobile%26utm_campaign%3Dshare_content&contentId=do_3129862334359552001118
			*MESURES OF CENTRAL TENDENCY	The students will be able to calculate- mean, median, mode. They will be understood	Worksheets on each	https://diksha.gov.in/play/collecti on/do_31310347532020121611421?referrer=utm_source%3Dmobile

NOVEMBER	22	44	*PRODUCER EQUILIBRIUM *CONCEPT OF SUPPLY	about the concept of supply, supply curve, elasticity of supply.	concept and numerical (HYL)	e%26utm_campaign%3Dshare_co ntent&contentId=do_3131050163 1761612812655
DECEMBER	13	26	*FORMS OF MARKET *PRICE DETERMINATION UNDER PERFECT COMPETITION.	The learners are expected to get some basic idea about the different types of market, price determination, application of demand and supply.	Exercise of Case Study Based Questions.	https://diksha.gov.in/play/collecti on/do_3131034754279833601109 8?referrer=utm_source%3Dmobil e%26utm_campaign%3Dshare_co ntent&contentId=do_3131354571 3980211212316
JANUARY	10	20	*MEASURE OF DISPERSION *CORRELATION	The students will be able to calculate the dispersion and correlation by different methods.	Worksheet related to these concepts and numerical (PT-II)	https://diksha.gov.in/play/collecti on/do_3131034753202012161142 1?referrer=utm_source%3Dmobil e%26utm_campaign%3Dshare_co ntent&contentId=do_3131311501 665566721267
FEBRUARY (FIRSTWEEK)	08	16	*INDEX NUMBER.	After going through this unit, the learner will be able to know about the types and uses of index numbers.	Exercise of Case Study Based Questions	https://diksha.gov.in/play/collecti on/do_3131034753202012161142 1?referrer=utm_source%3Dmobil e%26utm_campaign%3Dshare_co ntent&contentId=do_3131155176 939274241313
MARCH	SEE					

Note: -

- Syllabus for PT-1, will be chapters covered up to August.
- Syllabus for Half Yearly Exam, will be chapters covered up to October.
- Syllabus for PT-II, will be chapters covered up to December.

Guidelines for Project Work in Economics (XI)

The **objectives** of the project work are to enable learners to:

- probe deeper into theoretical concepts learnt in classes XI
 - analyse and evaluate real world economic scenarios using theoretical constructs and arguments
 - demonstrate the learning of economic theory
 - follow up aspects of economics in which learners have interest
 - develop the communication skills to argue logically
- The **expectations** of the project work are that:
- learners will complete only **ONE** project in each academic session
 - project should be of 3,500-4,000 words (excluding diagrams & graphs), preferably hand-written
 - it will be an independent, self-directed piece of study

Role of the teacher:

The teacher plays a critical role in developing thinking skills of the learners. A teacher should:

- help each learner select the topic based on recently published extracts from the news media, government policies, RBI bulletin, NITI Aayog reports, IMF/World Bank reports etc., after detailed discussions and deliberations of the topic
- play the role of a facilitator and supervisor to monitor the project work of the learner through periodic discussions
- guide the research work in terms of sources for the relevant data
- educate learner about plagiarism and the importance of quoting the source of the information to ensure authenticity of research work
- prepare the learner for the presentation of the project work
- arrange a presentation of the project file

Expected Checklist:

- Introduction of topic/title

- Identifying the causes, consequences and/or remedies
- Various stakeholders and effect on each of them
- Advantages and disadvantages of situations or issues identified
- Short-term and long-term implications of economic strategies suggested in the course of research
- Validity, reliability, appropriateness and relevance of data used for research work and for presentation in the project file
- Presentation and writing that is succinct and coherent in project file
- *Citation of the materials referred to, in the file in footnotes, resources section, bibliography etc.*

Mode of presentation/submission of the Project:

At the end of the stipulated term, each learner will present the research work in the Project File to the External and Internal examiner. **The questions should be asked from the Research Work/ Project File of the learner. The Internal Examiner should ensure that the study submitted by the learner is his/her own original work.** In case of any doubt, authenticity should be checked and verified.

Marking Scheme:

Marks are suggested to be given as –

S. No.	Heading	Marks Allotted
1.	Relevance of the topic	3
2.	Knowledge Content/Research Work	6
3.	Presentation Technique	3
4.	Viva-voce	8
	Total	20 Marks

SUGGESTIVE LIST OF PROJECTS: -

Class XI	
<input type="checkbox"/> Effect on PPC due to various government policies	<input type="checkbox"/> Invisible Hand (Adam Smith)

<input type="checkbox"/> Opportunity Cost as an Economic Tool (taking real life situations)	<input type="checkbox"/> Effect of Price Change on a Substitute Good (taking prices from real life visiting local market)
<input type="checkbox"/> Effect on equilibrium Prices in Local Market (taking real life situation or recent news)	<input type="checkbox"/> Effect of Price Change on a Complementary Good (taking prices from real life visiting local market)
<input type="checkbox"/> Solar Energy, a Cost Effective Comparison with Conventional Energy Sources	<input type="checkbox"/> Bumper Production- Boon or Bane for the Farmer
<input type="checkbox"/> Any other newspaper article and its evaluation on basis of economic principles	<input type="checkbox"/> Any other topic

CONDUCT OF ONLINECLASSES

PROBLEM/CHALLENGES FACED DURING THE PREVIOUS ACADEMIC SESSION.	ACTION PLAN TO OVERCOME THOSE CHALLENGES DURING THE CURRENT ACADEMIC SESSION
Less Attendance of students During the Online Teaching	Monthly PTMs will be organised and daily attendance record will be shared with parents. Telephonically contact will be made with students and motivation will be given to attend the online class regularly.
Network issue and data exhaustion	Parents to be counselled for sufficient data and better network or different network options.
Financial problems of students- Some families are not financially sound to have smartphone/ desktop especially when siblings have to use the device	Staggered schedule of classes for primary, secondary and senior secondary classes. Topic taught is shared in classroom and in WhatsApp group

Difficult to understand- It is difficult to concentrate on lengthy topics especially statistics and numerical on small screen of mobile phone.	Self-prepared Videos, you tube Links, PPTs, notes on the topic will be provided to students to understand.
Students often do not respond in the online classes	Plan more activities in teaching learning process for the active involvement of the students.
Incomplete given assignment (Homework)	Assignments will be planned so that students are not overburdened and arrange class as per the convenience of students to get the work done without any stress..

LESSON PLAN

Subject: - Economics

Class: - XI

Topic: - Demand Analysis

Period

Required: -

Date of Commencement: -

Date of Completion: -

GIST OF LESSON	TLO	ACTIVITES TO ACHIEVE TLO	ASSESSMENT STRATEGIES	CORRELATION WITH OTHER SUBJECTS
Concept of Demand	The students will be able to know about the concept of demand.	The concept will be discussed with the help of PPTs and the difference among wish, need, demand will be clarified with the help of relevant examples.	Group Discussion/ Quiz	Social- Science
Difference among wish, need, demand	They will understand the role of demand as the market force.		Case Study Based Questions	Statistics
Market Demand	The learners will come to the difference among wish, need, demand		Multiple Choice Questions	Mathematics
Demand Schedule	They will be also able to make difference between individual demand and market demand.	There will be shown a difference between individual and market demand with the help of a table and diagram.	True/ False	
Demand Curve and its Slope	The students will be able to make demand schedule with the help of given price and quantity demanded.		Matching	
Determinants of demand		Demand curve will be drawn on chalkboard and the reasons will be discussed why its slope is negative.	Long Answer Type Questions	Business Studies
Movement along and shift in the demand curve	The students will be able to draw demand curve with the help of demand schedule & understand the reason why its slope is negative.		Short Answer Type Questions	
Price elasticity of demand				
Measurement of price elasticity of demand	The students will be able to understand the	Active participation of the students in teaching learning	Assignment Work	Accounts

	meaning of price elasticity of demand, degree of it, measurement of the price elasticity of demand.	process.		
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LESSON PLAN

Subject: - Economics

Class: - XI

Topic: - Demand Analysis

Period Required: -

Date of Commencement: -

Date of Completion: -

GIST OF LESSON	TLO	ACTIVITES TO ACHIEVE TLO	ASSESSMENT STRATEGIES	CORRELATION WITH OTHER SUBJECTS
Concept of Demand	The students will be able to know about the concept of demand.	The concept will be discussed with the help of PPTs and the difference among wish, need, demand will be clarified with the help of relevant examples.	Write about the concept of demand.	Statistics
Difference among wish, need, demand	They will understand the role of demand as the market force.		Discuss demand as an important force of market.	Mathematics
Market Demand	The learners will come to the difference among wish, need, demand	There will be shown a difference between individual and market demand with the help of a table and diagram.	How is wish, need a part of demand?	
Demand Schedule	They will be also able to make difference between individual demand and market demand.		Show the relationship and difference of individual and market demand with the help of a diagram.	
Demand Curve and its Slope	The students will be able to make demand schedule with the help of given price and quantity demanded.	Demand curve will be drawn on chalkboard and the reasons will be discussed why its slope is negative.		
	The students will be able to draw demand			

	curve with the help of demand schedule & understand the reason why its slope is negative.			
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HOMEWORK:

- (1) Why the demand curve slopes downward from left to right? Give suitable reasons to defend this statement.
- (2) What are the various factors which affecting demand?

Statement of Teaching Philosophy (STP)

ECONOMICS XI & XII

- Economics is synthesis, empirical and technical subject. Keeping this in the mind, we have to teach this subject in such a way that every concept should be clear to the students and we have to make the students such capable that they can applicable the knowledge of Economics in daily life situations.
- Economy of the country has main role, but economic variables are changeable according to time and different situations. We have to make the students up to date about the latest economic situations.
- We have to teach Economics for the betterment to the students so that he/she may be give contribution towards the economic growth and development of the nation and whole world.

SWOT Analysis During Online Classes

ECONOMICS XI & XII

Strength –

- Every student has device such as computer, laptop or mobile phone for online classes.
- They have internet connectivity also.
- They are interested to attend online classes.
- The students are motivated by the teachers and the parents to attend the online classes.

Weakness-

- Some students are not active during the online classes.
- Network issue in rural area.
- Partial device facility.

Opportunities-

- The students get a chance to become more techniques friendly.
- Online teaching- learning process is a good alternate of real classroom teaching in such a pandemic period of Covid-19.
- This is better for the development of IT sector in India.

Threats –

- The students can become the addict of screen.
- The students can become passive audience.
- Sometimes, it is found that students are not listening, not submitting assignments timely or taking active role during online class.
- It has been observed that due to exposure of eyes on electronic devices, visibility is being deteriorating.
- We have to focus more on mental and physical health of the learners.

RAIPUR REGION				
SENIOR SECONDARY ACADEMIC PLANNING- 2021-2022				
CLASS XI		Split up of Syllabus		SUBJECT :History
Month / No of Working Days	pr	Name of the Unit / Chapter/Topic	Name Chapter	Learning Outcomes
July 2021	8	Introduction to World History		To introduce the history of the world.
	7	Section A: Early Societies	Introduction	
	8		From the beginning of time	Early human species, Evidences Chronological developments, Food habits, Differences, Tool, Making-art and Craft
	15		Early Cities	Early city, Planning, Writing style, Evidences, Clay tablets, Texts, Early
August 2021	7	Section B: Empires	Introduction	
	15		An Empire across three continents	Roman empire, Polity, Economy, Rules and Rulers, Social life and slaves, Architecture
	15		Central Islamic Lands	Extension of empire, Polity, Islam and its principles, Art and architecture, Islamic literature
	13		Nomadic Empires	Extension of Nomadic Empire, Rulers, Contribution, Yasa, Ghensin Khan
September 2021	7	Section C: Changing Traditions	Introduction	
	14		Three Orders	Feudal system, Manor, Society in France and England, Life of peasants
	15		Changing Cultural Traditions	Revival of Italian cities, Humanism, Artists and realism, Universities and new subjects, Renaissance, Martin Luther protestant Movement
	14		Confrontation of Cultures	Maya, Inca and Aztecs, Civilizations, Colonization of America by Spain
October 2021	7	Section D: Paths to Modernization	Introduction	
	15		Industrial Revolution	Industrial Revolution, New machine and technology, Transport and communication, -Factory system
November 2021	15		Displacing Indigenous People	Natives and settlers. Gold Rush, American Natives and Europeans, Growth of Industry, Australia
December 2021	15		Paths to modernisation	Japan, Political system, Meiji Restoration and Reforms, China, Republic, communist party, cultural revolution, Taiwan
January 2021	10	Map Work (Units 1-11)		To practice map work questions
February 2021	10	Project Work		

SPLIT UP SYLLABUS 2021-22							
SUBJECT- Geography					CLASS-XI		
Month	Number of work in days	Number of periods (Bookwise)	Name of the Unit / Number and Name of the Chapter	Learning outcomes to be covered	Suggested Projects/ Practicals / Activities under internal assessment	Assignment for the Students	Important links
July	7	6+4=10	Book-1, Unit-1, Ch-1, Geography as a Discipline	Explain the nature of Geography and identifies it various branches	Map Work, Oral Questions	Write the three sets of questions, concerned with Geography. What is Geography? Define it. Prove that Geography is an Integrating Discipline. Describe the relationship between Physical Geography and Natural Science.	https://diksha.gov.in/play/content/do_31308516544492339211920?referrer=utm_source%3Dmobile%26utm_campaign%3Dshare_content
			Book-2, Unit-1, Ch-1, India- Location	Locate places, union territories on the map of India. Describes important terms in Geography such as Standard Meridian, Prime Meridian, Tropic of Cancer etc.		What are the implications of India having a long coastline? While the sun rises earlier in the east, say Nagaland and also sets earlier, how do the watches at Kohima and New Delhi show the same time? Does India need to have more than one standard time? If yes, why do you think so?	https://diksha.gov.in/play/collection/do_31310347530730700811485?contentId=do_3116939647496192011184

August	24	11+1 4+11 =36	Book-1, Unit-2, Ch- 2, The Origin and Evolution of the Earth	Identify the theories related to origin of the earth and the universe. Relates origin of life on the earth with Geological time scale	Practical (Unit-1) Ch-1, Introduction to Maps Ch-2, Map Scale	What is meant by the process of differentiation? What was the nature of the earth surface initially? Write an explanatory note on the 'Big Bang Theory' What were the gases which initially formed the earth's atmosphere?	https://diksha.gov.in/play/content/do_31310506298498252813237?referrer=utm_source%3Dmobile%26utm_campaign%3Dshare_content
			Ch-3, Interior of the Earth	Identify direct and indirect sources of information of the interior of the earth. Identify and describes characteristics of earthquake waves.		Explain the indirect sources of information about the interior of the earth. Briefly explain about the earthquake waves. Describe about the shadow zone of 'P' wave. How it is different by the shadow zone of 'S' wave. Which are two important scale through which earthquake is measured? Explain them.	https://diksha.gov.in/play/collection/do_31310347530205593611312?contentId=do_31310628316195225612871
			Ch-4, Distribution of Oceans and Continents	Explain the distribution of ocean and continent. Make us understand about Wegner, Hess theories and Plate tectonic theory.		What are the evidences in support of the Continental drift theory? According to Alfred Wegner, which forces are responsible for Continental drift theory? Mention the bases for Hess's Sea Floor Spreading hypothesis? How are the convectional currents in the mantle initiated and maintained?	https://diksha.gov.in/play/collection/do_31310347530205593611312?contentId=do_31310628310435430413315

			Book-2, Unit-2, Ch- 2, Structure and Physiography	Identify various types of relief forms of India. Explain about the importance of every types of landforms because every relief feature has its own unique characteristics. Such as plateaus have minerals, plains are very important for agricultural and many other economic activities. etc.		Why is the western coastal plain is devoid of any delta? Make a comparison of the island groups of the Arabian Sea and the Bay of Bengal. If you move from Badrinath to Sunderbans delta along the course of the river Ganga, what major geomorphological features will you come across? What are the important geomorphological features found in the river valley plains?	https://diksha.gov.in/play/collection/do31310347530730700811485?contentId=do3130907610318766081236
Sept embe r	25	20+1 4=34	Book-1, Unit-3, Ch- 5, Mineral and Rock	Describe about the types of rocks and rock cycle.	Quiz	Define the minerals and explain its type. Name the major classes of minerals with their physical characteristics. Explain how igneous rocks are formed? What is meant by sedimentary rock? Describe the mode of formation of sedimentary rock.	https://diksha.gov.in/play/collection/do31310347530205593611312?contentId=do3130956899337338881888

			Ch-6, Geomorphic Process	Explain about the endogenic and exogenic process, types of weathering. Explain about the soil formation.	1st Unit Test	What do you know about Geomorphic Process? Distinguish between Endogenic and Exogenic processes. Distinguish between Chemical and Physical Weathering. Describe about Biological weathering. Explain about the Mass Movement and its types.	https://diksha.gov.in/play/collection/do31310347530205593611312?contentId=do3131006515056230401507
			Ch-7, Landforms and their Evolution	Describe about various reosional and depositional forms of exogenic forces Such as wind, water, glacier and sea waves etc on the surface of the earth.		Glacial valleys show up many linear depositional forms. Give their locations and names How does wind perform its task in desert areas? Is it the only agent responsible for the erosional features in the deserts? Running water is by far the most dominating geomorphic agent in shaping the earth's surface in humid as well as in arid climates. Explain Underground flow of water is more common than surface run-off in limestone areas. Why?	https://diksha.gov.in/play/collection/do31310347530205593611312?contentId=do31310774284147916813571

			Book-2, Unit-2, Ch-3, Drainage System	Explain about various drainage patterns, tributaries and distributaries etc.		What is difference between Drainage and Drainage Basin? Distinguish the river on the basis of discharge of water (orientation to sea). Distinguish between Himalayan river system with Peninsular river system. Explain the originating places of smaller river of which meet in Arabian Sea.	https://diksha.gov.in/play/collection/do31310347530730700811485?contentId=do3131028953649971201780
October	15	9+9+5=23	Book-1, Unit-4, Ch-8, Composition and Structure of Atmosphere	Explain about the structure and composition of Atmosphere. Describe the layerwise form of atmosphere and its significances.	Practical (Unit-1) Ch-3, Latitude, Longitude and Time	With the help of suitable diagram, describe the Structure of Atmosphere. How troposphere is important for us? Explain the composition of Atmosphere. What are various elements of Weather and Climate? How dust particles play very important role in the atmosphere?	https://diksha.gov.in/play/collection/do31310347530205593611312?contentId=do31313542621950771212068
			Ch-9, Solar Radiation, Heat Balance and Temperature	Explain about the heat budget of the earth and the factors which affect the temperature of a place. Learners also distinguish between Incoming solar radiation and Terrestrial radiation.	Map work and Oral Test	Discuss the processes through which the earth-atmosphere system maintains heat balance. Do you find any differences between Insolation and Terrestrial Radiation? Explain How does the unequal distribution of heat over the planet earth in space and time cause variations in weather and climate? What are the factors that control temperature distribution on the surface of the earth?	https://diksha.gov.in/play/collection/do31310347530205593611312?contentId=do31321816141506150412784

			Book-2, Unit-3, Ch-4, Climate	Explain various factors which affect the climate of India. Learners can very efficiently describe about the mechanism of Monsoon of India with all seasons. They also explain the significance of monsoon.		What is the Inter-Tropical Convergence Zone? What is meant by 'bursting of monsoon'? Name the place of India which gets the highest rainfall Define 'climatic region'? What are the bases of Koeppen's classification? Which type(s) of cyclones cause rainfall in north-western India during winter? Where do they originate? Notwithstanding the broad climatic unity, the climate of India has many regional variations. Elaborate this statement giving suitable examples.	https://diksha.gov.in/play/collection/do31310347530730700811485?contentId=do3131029003626004481601
November	21	10+5 =15	Book-1, Unit-4, Ch-10, Atmospheric Circulation and Weather Systems	Explain about the pressure and Global pressure belt. Learners distinguish between tropical and temperate cyclones	Practical (Unit-1) Ch-4, Map Projection Half Yearly Examination	While the pressure gradient force is from north to south, i.e. from the subtropical high pressure to the equator in the northern hemisphere, why are the winds north easterlies in the tropics. What are the geostrophic winds? Discuss the factors affecting the speed and direction of wind. Why does tropical cyclone originate over the seas? In which part of the tropical cyclone do torrential rains and high velocity winds blow and why?	https://diksha.gov.in/play/collection/do31310347530205593611312?contentId=do3132097368562728961318

			Ch-11, Water in the Atmosphere	Distinguish between evaporation and condensation with their forms. Explain about three types of rainfall	Viva	Distinguish between Absolute and Relative Humidity. Distinguish between 'Saturation' and 'Dew Point'. Explain the factors which influence the Condensation process. Explain the forms of Condensation. Briefly explain about the types of Clouds. Distinguish between Condensation and Precipitation.	https://diksha.gov.in/play/collection/do31310347530205593611312?contentId=do31318838499619635214288
December	18	11+1 0+6= 27	Book-1, Unit-4, Ch-12, World Climate and Climate Change	Explain about the climatic classification of Koeppen. Describe the causes and effect of Global warming.	Practical (Unit-2) Ch-5, Topographical Maps	Which types of climates have very low range of temperature? What type of climatic conditions would prevail if the sun spots increase? Make a comparison of the climatic conditions between the "A" and "B" types of climate. What type of vegetation would you find in the "C" and "A" type(s) of climate?	https://diksha.gov.in/play/collection/do31310347530205593611312?contentId=do31310563447364812812498
			Unit-5, Ch-13, Water (Oceans)	Explain the relief feautre of ocean floor, hydrological cycle and salinity and density of ocean water.		What is a continental margin? What is a thermocline? What is salinity of sea water? How are various elements of the hydrological cycle interrelated? Examine the factors that influence the temperature distribution of the oceans.	https://diksha.gov.in/play/collection/do31310347530205593611312?contentId=do31310514741084979212412

			Ch-14, Movements of Ocean water	Explain horizontal and vertical circulation of ocean water such as waves, tides and currents with the characteristics and importance.		How are tides caused? How do currents affect the temperature? How does it affect the temperature of coastal areas in the N. W. Europe? What are the causes of currents? Where do waves in the ocean get their energy from?	https://diksha.gov.in/play/collection/do31310347530205593611312?contentId=do3132113356284067841156
			Book-2, Unit-3, Ch- 5, Natural Vegetation	Explain the types of natural vegetation of India with importance and conservation.		What do you know about Social forestry? Differentiate between forest area and forest cover. What are the steps taken up for conservation of forests? What are the three objectives of Biosphere reserve? In which type of forest different vegetations are found at different altitude? Explain it in any five- six points?	https://diksha.gov.in/play/collection/do31310347530730700811485?contentId=do31310506373545164812312
Janu ary	24	10+1 0+12 =32	Book-1, Unit-6, Ch- 15, Life on the Earth	Identify ecosystem, explain about biogeochemical cycles. Describe about biomes and ecological balance	Practical (Unit-2) Ch-6, Introducti on to Aerial Photograph Ch-7, Introducti on to Remote Sensing	What is a food-chain? Give one example of a grazing food-chain identifying the various levels. What do you understand by the term 'food web'? Give examples. What is an ecological system? Identify the major types of ecosystems in the world. What are bio-geochemical cycles? Explain how nitrogen is fixed in the atmosphere.	https://diksha.gov.in/play/collection/do31310347530205593611312?contentId=do31310506366389452812618

			Ch-16, Biodiversity and Conservation	Explain the types and importance of biodiversity. Make other understand about importance of conservation.	Map work and Oral Test	What are the different levels of biodiversity? What do you understand by 'exotic species'? What are the roles played by biodiversity in the shaping of nature? What are the major factors that are responsible for the loss of biodiversity? What steps are needed to prevent them?	https://diksha.gov.in/play/collection/do_31310347530205593611312?contentId=do_31310506352741580812959
			Book-2, Unit-3, Ch- 6, Soil	Explain various types of soil found in India with Soil erosion and conservation.	2 nd Unit Test	Mention the classification of ICAR of soil of India. Explain the soil of India on the basis of genesis, colour, composition and location. Which soil is found maximum in India? Explain about it. Which soil is called Regur soil also? Explain about it. What is soil erosion? Explain about its type.	https://diksha.gov.in/play/collection/do_31310347530730700811485?contentId=do_31310514775001497612365

February	22	14+1 2+6+ 1=33	Book-2, Unit-4, Ch- 7, Natural Hazards and Disasters	Distinguish between hazards and disaster. Learners explain about Earthquake, tsunami, cyclones, floods and draughts etc and their intensity, cause and effect.	Practical (Unit-2) Ch-8, Weather Instruments, Maps and Charts Annual Practical Examination	Why are there more earthquakes in the Himalayas and in the north-eastern region of India? What are the basic requirements for the formation of a cyclone? Why are there more droughts in Central and Western India? Identify the Landslide-prone regions of India and suggest some measures to mitigate the disasters caused by these. What is vulnerability? Divide India into natural disaster vulnerability zones based on droughts and suggest some mitigation measures.	https://diksha.gov.in/play/collection/document/31310347530730700811485?contentId=document/31310560791473356813362
			Maps of both India and World	Mark the information mentioned in the CBSE syllabus of 2021-22 of Geography	Slip Test		
March	Annual Examination						

Problems/ Challenges during online classes

Obviously there are some problems which are observed during online classes. Some of them are as given below -

Network issue- This is really a genuine problem. Not only the students are facing it but also the teachers.

Negligence of the students- It has been found that some students are not so much dedicated to the studies so they only connect the classes but don't listen or serious for their study.

Home assignment- Some students do not submit their home assignment on time despite teacher remind.

Imitation/ unfair means- Many times it has been found that some students do not solve question paper by themselves but they imitate from their notes or elsewhere.

Above are some problems or challenges during online classes.

Plan of action to overcome the problems during online class

- Motivate the parents to have better connectivity for the network services.
- Parents teachers meeting must be done frequently so that they can be informed about the progress, position of their wards.
- Home assignment must be submitted. Parents must be proactive for their wards future and performance. They should be informed their responsibility in this regard.
- Without any doubt, in online classes the role of parents have increased. It is because, the parents are there at home not the teacher. It is being found during tests or examinations, the students are using unfair means to get better marks. They imitate from their notes or elsewhere. The parents must be accountable for these.

Above are some problems and solution during online class.

Statement of Teaching Philosophy
(STP in Geography for classes 11th and 12th)

- As we know that Geography is synthesis, empirical and practical subject. Keeping this in the mind, we have to teach this subject in such a way that it could feel/ touch the spirit of the subject. For us the environment is laboratory. We can experiment, understand and impart it among the student.
- Change is the universal law of the nature, which is happening since evolution of the universe. We have to instill among the student about this change. Changes are being observed in the Mountains, rivers, plain and forests. Changes are also taking place among the demographic attributes.
- We have to teach Geography for the betterment to the students so that he/she may be human capital for the development of the nation and their families.

SWOT Analysis during online classes

Strength -

- Every student has device such as computer, laptop or mobile for online classes.
- They have internet connectivity also.

Weakness-

- Some students are less responsive for their part. They are not as active as required.
- Proper internet connectivity is major drawbacks.

Opportunities-

- There is good environment for teaching learning process. Slow learners have to be encouraged to be active.
- Overall behaviour of both parents and students are good. They have to be motivated for better outcomes.

Threats -

- Sometimes, it is found that students are not listening, not submitting assignments timely or taking active role during online class.
- It has been observed that due to exposure of eyes on electronic devices, visibility is being deteriorating.
- We have to focus more on mental and physical health of the learners.


Prepared by Shri.Abhay Kumar Vishwakarma PGT (Geography) KV Kanker

CLASS - XII

KENDRIYA VIDYALAYA SANGATHAN RAIPUR REGION SENIOR SECONDARY ACADEMIC PLANNING- 2021-2022 CLASS XII Split up of Syllabus SUBJECT :English Core						
Month / No of Working Days	Number of Periods	Name of the Unit / Chapter/Topic	Learning Outcomes	Suggested Activities/ Projects under Internal Assessment	Assignment	Assessment (Assessment as learning)/ Important links https://kparama.blogspot.com/
April 2021 18	4	The Last Lesson	To know the importance of language learning . Love for their mother tongue and language learning for communication.	Watch the video on ‘War and peace’ Discussion on The importance of the French Language in the provinces of Alsace and Lorraine.	1. Write an article on Three language formula is necessary in India. 2. Write a speech on the importance of learning Mother tongue.	1. MCQ questions based on the text. 2. Five Short answer questions (30-40 words) 3. Two long answer questions.(100-120 words)
		Resources link	https://diksha.gov.in/resources/play/content/do_3131183098653491201563			
	1	Notice Writing	To write notices – to incorporate the essential information of date , time venue , purpose .	Write a notice informing about the farewell Programme arranged for the teacher on transfer or teacher on retirement.	Collect information on what topics Notices that you had observed and noticed in the past few months. Write them in your copy.	1. Write a notice to inform the residents of your colony that Vaccination campaign to be organised.
	1	Debate Writing	To write on the motion for or against. Strong Valid points to support his/her view.	Learning Language (Province/ National language) is to be made compulsory in the Schools. “For or against.	Draft the debate with the points discussed in the class and write the debate.	1. Write a debate on the topic, ‘Province/ National language) is to be made compulsory in the Schools. “For or against.’
	4	Lost Spring	To understand the issues that deserted children are facing. Domestic issues parents economical and social background that forces them to work and earn their living. Govt initiatives for such children .	Watch the video on Child Labour . Discuss on the necessity of abolishing Child Labour and suggest alternative measures to compensate the domestic issues faced by those children.	1. Collect information on child labour in India. Industries where children are employed. 2. Govt initiative to control child labour.	1. MCQ questions based on the text. 2. Five Short answer questions (30-40 words) 3. Two long answer questions.(100-120 words)

	Resource Link	https://diksha.gov.in/resources/play/content/do_313068048878641152114884				
1	Article Writing	To create an awareness of dignity of labour. To enhance their skill, enrich their knowledge .	Discuss on Vocational Education to be made essential for all children.	Draft the points as discussed in the class for the article, Vocational Education to be made essential for all children.	Write an article on Vocational Education to be made essential for all children. Suggest the benefits eg Self – reliant, no unemployment issues etc	
3	The Third Level	To understand how mismanagement of time and work leads to stress. Escapism is an issue in the modern world.	Discuss on Stress relief. Methods to cope up with work load and manage time. (With reference to Charley)	Write an essay on why Charley is behaving in an alarming manner. Find out the reasons and suggests solutions.	1.MCQ questions based on the text. 2.Five Short answer questions (30-40 words) 3. Two long answer questions.(100-120 words)	
1	Letter Writing : Letter of Enquiry asking or giving information & sending replies	write formal emails to college/ university / departments seeking information. To express the views and able to reply for the asked query.	Write a letter of Enquiry to the Post office if Sam, Galesburg is really existing or not. Your cousin Priyanka is just completing X standard and has sought your advice to opt for science or commerce group. Write a letter giving guidance to select the group in XI.	Refer to the lesson and make a time line chart of Charley’s description on his journey.	Write the reply to letter of Enquiry to the Post office if Sam, Galesburg is really existing or not.	

	2	My Mother at Sixty Six	appreciate poems for blank verse, brevity & realism etc.	Discuss on the emotions of the old people at home- their loneliness and expectations.	Refer to the poems written by Kamala Das . If you liked, Write why you liked on any one of the poems.	1.MCQ questions based on the text. 2.Five Short answer questions (30-40 words) 3. Two long answer questions.(100-120 words)
	1	Monthly Test	To assess the understanding of the above lesson and writing skills taught.	50 marks (Reading 10, Writing 10, Literature 30) Part A 2-5 Marks and Part B- 25 Marks		

 KENDRIYA VIDYALAYA SANGATHAN RAIPUR REGION SENIOR SECONDARY ACADEMIC PLANNING- 2021-2022							
CLASS XII				SUBJECT : English Core			
Month	No of Working Days	Number of Periods	Name of the Unit / Chapter/Topic	Learning Outcomes	Suggested Activities/ Projects under Internal Assessment	Assignment	Assessment/ Important links https://kparama.blogspot.com/
June 2021	8	4	The Tiger King	To create an awareness on challenges made should not be for selfish grounds rather challenges made should benefit the people at large.	Discuss on the astrologer's faith in his profession and the Tiger King's belief in the Astrologer's words. How had that affected the Tiger population?	Comment on the Tiger King's actions.	1.MCQ questions based on the text. 2.Five Short answer questions (30-40 words) 3. Two long answer questions.(100-120 words)

		1	Poster Making	know about wild life and develop sensitivity towards birds, animals, insects etc.	Draw a poster to create awareness on the Environment Protection : animals and plants – a balance of forest life.	Draw a poster on any one of the topics of your interest.	Creative and informative poster .
		2	An Elementary School Classroom in a slum	To understand the importance of school and discipline of students and teachers. To realise the importance of the role of the School Inspectors.	Discuss the environmental condition of the elementary school classroom in a slum and your classroom facilities .	Commenting on the Elementary school classroom , write on the suggestive improvements that can be done.	1.MCQ questions based on the text. 2.Five Short answer questions (30-40 words) 3. Two long answer questions.(100-120 words)
		1	Reading Comprehension Practice	Practice of Reading the unseen passage and understanding by attempting the MCQ questions	Two reading Passages given at the length of 700-750 words put together.	Reading Skills	MCQ – 10 question based on the passage .

Month	No of Working Days	Number of Periods	Name of the Unit / Chapter/Topic	Learning Outcomes	Suggested Activities/ Projects under Internal Assessment	Assignment	Assessment/ Important links https://kparama.blogspot.com/
July 2021	22	3	Deep water	To analyse the fact that any one can achieve the target through proper training .	Discuss on the level of confidence of the author in making himself a great swimmer.	1.MCQ questions based on the text. 2.Five Short answer questions (30-40 words) 3. Two long answer questions.(100-120 words)	To assess the understanding of the text.

		1	Report Writing	To describe the swimmer's initiatives and method of training to be a great swimmer.	Write a brief report on the training undergone by the Swimmer.	Report Writing – Narrative description.	To assess the writing Skill of the Student.
		3	The Rattrap	To analyse the difficulties the vagabond faces and describe how love and compassion transforms an individual to a righteous person.	Discuss on the Love and compassion of Edla Williamson shown the vagabond which changed his outlook of life.	1.MCQ questions based on the text. 2.Five Short answer questions (30-40 words) 3. Two long answer questions.(100-120 words)	To assess the understanding of the text.
		3	Journey to the End of the Earth	To realize the impact that human intervention could have on nature.	'The world's geological history is trapped in Antarctica.' Discuss how the study of this region useful to us.	1.MCQ questions based on the text. 2.Five Short answer questions (30-40 words) 3. Two long answer questions.(100-120 words)	To assess the understanding of the text.
		1	Advertisement	To draft and advertisement in case of lost or found properties or sale or purchase of any items.	Draft Advertisements for Sale of House, Missing of articles, Found articles, Sale of Vehicle	Advertisement Sale of House, Missing of articles, Found articles, Sale of Vehicle	To assess the writing Skill of the Student. Short Composition.
		2	Keeping Quiet	To analyse on the actions of an individual and its effects on society.	Discuss on the strangeness of no traffic , War and silence , Destruction of ourselves in war against nature.	1.MCQ questions based on the text. 2.Five Short answer questions (30-40 words) 3. Two long answer questions.(100-120 words)	To assess the understanding of the text.

	1	Article Writing	To express the analytical views on peaceful life on earth and strengthen the Brotherhood relationships.	Write an Article on 1. the importance of understanding oneself is essential to lead a stress free life..	2. Stop War – bio war, green war, nuclear war.3.Self- Introspection of one’s activity eradicates enmity and brings in peace	To assess the writing Skill of the Student. Long Composition
	3	The Enemy	To develop humanitarian feelings in all situations	Discuss on the Doctors’ actions on the enemy soldier. Humanity versus patriotism.	1.MCQ questions based on the text. 2.Five Short answer questions (30-40 words) 3. Two long answer questions.(100-120 words)	To assess the understanding of the text.
	1	Invitation	To draft an invitation for a gathering	Draft an invitation to invite your friends for the celebration of your success in the Science exhibition award.	Informal Invitation Reply – Acceptance or refusal	To assess the writing Skill of the Student. Short Composition.
	2	Should Wizard Hit mommy ?	To analyse the psychology of children and parents	Discuss on the child’s psychology of understating and questioning her father as an initiative to bring justice for the skunk. Discuss on the parenting of the child Jo as a conventional pattern and parents to understand and accept the suggestions that children speak for.	1.MCQ questions based on the text. 2.Five Short answer questions (30-40 words) 3. Two long answer questions.(100-120 words)	To assess the understanding of the text.
	1	Monthly Test To assess the understanding of the above lesson and writing skills taught.	50 marks (Reading 10, Writing 10, Literature 30) Part A 2-5 Marks and Part B- 25 Marks			

Month	No of Working Days	Number of Periods	Name of the Unit / Chapter/Topic	Learning Outcomes	Suggested Activities/ Projects under Internal Assessment	Assignment	Assessment/ Important links https://kparama.blogspot.com/
August 2021	22	4	Indigo	To analyse the fact that any one can achieve the target through proper training .	Discuss on the lawyers support and Gandhiji's intervention in the Champaran case. Make a brief time line of the incidents of the Champaran episode.	1.MCQ questions based on the text. 2.Five Short answer questions (30-40 words) 3. Two long answer questions.(100-120 words)	To assess the understanding of the text.
		1	Speech Writing	To narrate the qualities of a leader .	Write a speech on “The qualities of a good leader “ with reference to the lesson Indigo.	Writing Skill	To assess the writing Skill of the Student. Long Composition
		4	Poets and pancakes	To analyse the difficulties of the actors and actress in the field of Film industry.	Collect about two interviews of great actors who had achieved in the field of Film industry. Discuss on “Technological upgradation in Film industry.”	1.MCQ questions based on the text. 2.Five Short answer questions (30-40 words) 3. Two long answer questions.(100-120 words)	To assess the understanding of the text.
		1	Invitation Replies	To write replies for the invitations of acceptance and refusal.	Write reply to the Invitation for attending the Felicitation ceremony on the occasion of your award winning.	Short Composition Writing Skill	To assess the writing Skill of the Student. Short Composition.

	2	A thing of beauty	To read and enjoy poetry .	Discuss on the things of beauty that makes your emotions light and make you happy.	1.MCQ questions based on the text. 2.Five Short answer questions (30-40 words) 3. Two long answer questions.(100-120 words)	To assess the understanding of the text.
		https://www.youtube.com/watch?v=a4X_SZnlxQ8&t=697s				
		Article Writing	To express the analytical views on peaceful life on earth and strengthen the Brotherhood relationships.	Write an article on “Preserving the environment is essential in the present-day situation”.	Writing Skill	To assess the writing Skill of the Student. Long Composition
	4	On the face of it	To develop humanitarian feelings in all situations	Discuss on the challenges faced by the physically challenged people.	1.MCQ questions based on the text. 2.Five Short answer questions (30-40 words) 3. Two long answer questions.(100-120 words)	To assess the understanding of the text.
	1	Letter Writing Request letter Letter to Editor :-	To appeal for a demand through a request letter. To express a national concern at large through the Letter to the Editor.	Write a letter to the principal requesting for installation of additional Water cooler in your school. Discuss and write a letter to the Editor on the issue of people not ready to vaccinate .	Writing Skill	To assess the writing Skill of the Student. Long Composition

		2	Evans Tries O Level	To analyse the psychology of the criminals and be more vigilant. To improve the dialogue writing skill.	Discuss on the vigilant officers and handling the criminals. Role play: Brief script of the conversation between Evans and The Governor.	1.MCQ questions based on the text. 2.Five Short answer questions (30-40 words) 3. Two long answer questions.(100-120 words)	To assess the understanding of the text.
		1	Monthly Test	To assess the understanding of the above lesson and writing skills taught.	50 marks (Reading 10, Writing 10, Literature 30) Part A 2-5 Marks and Part B- 25 Marks		

Month	No of Working Days	Number of Periods	Name of the Unit / Chapter/Topic	Learning Outcomes	Suggested Activities/ Projects under Internal Assessment	Assignment	Assessment/ Important links https://kparama.blogspot.com/
September 2021	22	4	The Interview	To analyse the fact that any one can achieve the target through proper training .	Play the role of the Interview imagining that you are a great person. Two students shall write the script and play the role play.	1.MCQ questions based on the text. 2.Five Short answer questions (30-40 words) 3. Two long answer questions.(100-120 words)	To assess the understanding of the text.
		1	Report Writing	To write a report.	Write a report on the newly released movie.	Writing Skill	To assess the writing Skill of the Student. Long Composition

	4	Going Places	To analyse the unrealistic	Discuss on the dreams and disappointments are all in the mind of teenagers.	1.MCQ questions based on the text. 2.Five Short answer questions (30-40 words) 3. Two long answer questions.(100-120 words)	To assess the understanding of the text.
		https://diksha.gov.in/resources/play/content/do_3131892856962990081138				
	1	Notice Writing	To write notice	Write a notice to inform that a football match .	Writing Skill	To assess the writing Skill of the Student. Short Composition
	2	A Roadside Stand	To read and enjoy poetry .	Discuss on the farmers stand in the present environment.	1.MCQ questions based on the text. 2.Five Short answer questions (30-40 words) 3. Two long answer questions.(100-120 words)	To assess the understanding of the text.
	1	Article Writing	To express and analyse the farmers benefits.	Write an article on the Kisan policy and the benefits that the farmers will be getting.	Writing Skill	To assess the writing Skill of the Student. Long Composition
	4	Aunt Jennifer's Tigers	To analyse the status of women.	Discuss on women empowerment in the modern days.	1.MCQ questions based on the text. 2.Five Short answer questions (30-40 words) 3. Two long answer questions.(100-120 words)	To assess the understanding of the text.
	1	Letter Writing placing order & registering complaints	To write a letter of placing order. To express the complaint regarding default in new television purchased	Write a letter on placing order of play items for the school. Write a letter of complaint to the Manager asking him for immediate repair/replacement of newly purchased television	Writing Skill	To assess the writing Skill of the Student. Long Composition

		2	Memories of Childhood	To analyse the psychology of the small children who live in their society with their loved ones.	Discuss the challenges faced by the small children in the society in the norms of discipline which curb their freedom.	1.MCQ questions based on the text. 2.Five Short answer questions (30-40 words) 3. Two long answer questions.(100-120 words)	To assess the understanding of the text.
		1	Monthly Test	To assess the understanding of the above lesson and writing skills taught.	50 marks (Reading 10, Writing 10, Literature 30) Part A 2-5 Marks and Part B- 25 Marks		

Month	No of Working Days	Number of Periods	Name of the Unit / Chapter/Topic	Learning Outcomes Revision	Suggested Activities / Projects under Internal Assessment	Assignment	Assessment/ Important links https://kparama.blogspot.com/
October 2021	8	1	(a)Application for job	To express one's own requirement and write the resume for a job requirement.	Write a job application with the resume for the post of an accountant.	Writing Skill	To assess the writing Skill of the Student. Long Composition
		1	Writing Skill – Notice, Poster Making .(2 Questions to be worked out)	To be able to write the Notice in the given time duration. Drafting the poster within the time duration .	Two Notice questions . Two Poster making . Each 7 minutes duration.	Writing Skill	To assess the writing Skill of the Student. Short Composition
		1	Writing Skill- Advertisements (2 Questions) Formal Invitation, Reply - Acceptance & Regret) (one each)	To be able to draft the advertisements in the given time duration. To be able to write the Formal invitation.	7 minutes each exercise.	Writing Skill	To assess the writing Skill of the Student. Short Composition
		1	Writing Skill- Speech Writing & Article Writing.	To write the speech concentrating on the topic given. (4 to 5 points to be elaborated)	(Speech Writing- 10-15 minutes) Article Writing - 10-15 minutes	Writing Skill	To assess the writing Skill of the Student. Long Composition
		1	Extract Questions – (MCQ) The Last Lesson, Lost Spring	To be able to read the extract, identify the concept and answer the questions following the MCQ.	Two lessons to be revised the prewise day and the questions to be practiced in the class hours.	Two lessons to be revised the prewise day and the questions to be practiced in the class hours. MCQ- google forms – with answers written.	
		1	Extract Questions – (MCQ) Deep Water, The Rattrap				

		1	Extract Questions- (MCQ) My Mother at Sixty Six , An Elementary School Classroom in a slum , Keeping Quiet			Self- learning Live worksheets can be prepared. H5p work interactive worksheets can be given. My Mother at Sixty Six https://h5p.org/node/1016191 An Elementary school Classroom in a Slum https://h5p.org/node/1020800 Keeping Quiet https://h5p.org/node/1028065 Aunt Jennifer's Tigers https://h5p.org/node/968233
		1	Extract Questions- (MCQ) The Third Level , The Tiger King ,Journey to the end of the earth , The enemy.			
	11.10.2021 To 0.10.2021		Autumn Break	Revision of all the above topics .	Selected questions will be given for practice.	
	21.10.2021 to 30.10.2021		Half Yearly Exam	50% syllabus to be covered.To assess the understanding of the above lesson and writing skills taught.	80 marks (Reading, Writing, Literature) Part A 40 Marks and Part B- 40 Marks	

Month/ No of Working Days		Number of Periods	Name of the Unit / Chapter/Topic	Learning Outcomes Revision	Suggested Activities / Projects under Internal Assessment	Assignment	Assessment/ Important links https://kparama.blogspot.com/
November 2021 20 working Days		1	Reading Comprehension Practice	Practice of Reading the unseen passage and understanding by attempting the MCQ questions	Two reading Passages given at the length of 700-750 words put together.	Reading Skills	MCQ – 10 question based on the passage .
		1	Writing Skill – Notice, (2 Questions to be worked out)	To be able to write the Notice in the given time duration.	Two Notice questions. . Each 7 minutes duration.	Writing Skill	To assess the writing Skill of the Student. Short Composition
		1	Writing Skill – Poster Making. (2 Questions to be worked out)	Drafting the poster within the time duration.	Two Poster Questions.	Writing Skill	To assess the writing Skill of the Student. Short Composition
		1	Writing Skill- Advertisements (Sale, Lost, Found) (one each)	To be able to draft the advertisements in the given time duration. To be able to write the Formal invitation.	7 minutes each exercise.	Writing Skill	To assess the writing Skill of the Student. Short Composition

	1	Writing Skill- (2 Questions) Formal Invitation, Reply - Acceptance & Regret) (one each)	To write Formal Invitations for different occasions. To be able to reply by accepting or refusing.	7 minutes each exercise	Writing Skill	To assess the writing Skill of the Student. Short Composition
	1	Writing Skill- (2 Questions) Informal Invitation, Reply – Acceptance & Regret (One each)	To write the speech concentrating on the topic given. (4 to 5 points to be elaborated)	7 minutes each exercise	Writing Skill	To assess the writing Skill of the Student. Long Composition
	1	Writing Skill- Report Writing	To be able to write the Report in a narrative manner. (Describe in a systematic manner)	Discussion for 10 minutes. 10-15 minutes allotted for writing.	Writing Skill	To assess the writing Skill of the Student. Long Composition
	1	Writing Skill- Debate Writing	To be able to argue strongly for the motion or against the motion. (four points)	Discussion for 15 minutes. 10-15 minutes allotted for writing.	Writing Skill	To assess the writing Skill of the Student. Long Composition
	1	Extract Questions – (MCQ) Indigo,	To be able to read the extract, identify the concept and answer the questions following the MCQ.	MCQ to be revised the previse day and the questions to be practiced in the class hours.	https://kparama.blogspot.com/ Chapter wise questions for solving.	
	1	Extract Questions- (MCQ) Poets and Pancakes				
	1	Extract Questions – (MCQ) The Interview,				
	1	Extract Questions- (MCQ) Going Places				
	1	Writing Skill- Speech Writing	To be able to write the speech in an effective manner.	Discussion for 10 minutes. 10-15 minutes allotted for writing.	Writing Skill	To assess the writing Skill of the Student. Long Composition
	1	Extract Questions- (MCQ) A thing of beauty,	To be able to read the extract, identify the concept and answer the questions following the MCQ.	MCQ to be revised the previse day and the questions to be practiced in the class hours.		
	1	Extract Questions- (MCQ) A Road side				

			stand,				
		1	Extract Questions- (MCQ) Aunt Jennifer's Tigers				
		1	Writing Skill- Article Writing.	To write the article in a presentable manner with facts and figures. Support the title of the article strongly.	Discussion for 10 minutes. 10-15 minutes allotted for writing.	Writing Skill	To assess the writing Skill of the Student. Long Composition
		1	Extract Questions- (MCQ) Should wizard Hit Mommy?,	To be able to read the extract, identify the concept and answer the questions following the MCQ.	MCQ to be revised the previse day and the questions to be practiced in the class hours.		
		1	Extract Questions- (MCQ) On the face of it,				
		1	Extract Questions- (MCQ) Evans Tries O Level,				
		1	Extract Questions- (MCQ) Memories of Childhood				
		1	Monthly Test	Revised portions . To assess the understanding of the above lesson and writing skills taught.	50 marks (Reading, Writing, Literature) Part A 25 Marks and Part B- 25 Marks		
Month/ No of Working Days	Number of Periods	Name of the Unit / Chapter/Topic	Learning Outcomes Revision	Suggested Activities / Projects under Internal Assessment	Assignment	Assessment/ Important links	
December 2021 20 working	1	The Last Lesson	To be able to answer subjective answers within 30-40 words with proper value points.	Revision of Short answer Questions (10 Questions) Discuss & Write	To be revised the previse day and the questions to be practiced in the class hours.	https://kparama.blogspot.com/ https://kparama.blogspot.com/	
	1	Lost Spring					
	1	Deep Water					
	1	The Rattrap					
	1	Indigo					
	1	Poets and Pancakes					
	1	The Interview					

Days	1	Going Places	To be able to answer subjective answers within 30-40 words with proper value points.	Revision of Short answer Questions (10 Questions) Discuss & Write	https://kparama.blogspot.com/
	1	My mother at sixty Six			
	1	An Elementary School Classroom in a slum			
	1	Keeping Quiet			
	1	A Thing of Beauty			
	1	Roadside stand			
	1	Aunt Jennifer's Tigers			
	1	Pre Board Exam -1	Revised portions. To assess the understanding of the above lesson and writing skills taught.	80 marks (Reading, Writing, Literature) Part A 40 Marks and Part B- 40 Marks	https://kparama.blogspot.com/

Month/ No of Working Days	Number of Periods	Name of the Unit / Chapter/Topic	Learning Outcomes Revision	Suggested Activities / Projects under Internal Assessment	Assignment	Assessment/ Important links https://kparama.blogspot.com/
January 24	1	The Third Level	To be able to answer subjective answers within 30-40 words with proper value points.	Revision of Short answer Questions (10 Questions) Discuss & Write	To be revised the revise day and the questions to be practiced in the class hours.	https://kparama.blogspot.com/
	1	The Tiger King				
	1	Journey to the End of the Earth				
	1	Enemy				
	1	Should Wizard Hit Mommy?				
	1	On the Face of it				
	1	Evans Tries O Level				
	1	Memories of Childhood	To be able to write the short composition in the prescribed time limit.(7 minutes maximum)	Questions to be solved after discussion . Motivate the students to do the exercise in an effective manner.(2-3 questions to be solved in the class.	Writing Skill	To assess the writing Skill of the Student. Short Composition
	1	Notice Writing				
	1	Informal Invitation ,Reply Acceptance & Refusal(
	1	Formal Invitation , Reply Acceptance & Refusal)				
	1	Advertisements (Sale , Lost & Found)				
	1	Poster Drafting				
	1	Speech Writing				

	1	Article Writing	composition with value points in an presentable manner.(15- 20 minutes)	in the class and then write the answer in the class. (one topic only) (pre & Post discussion.)	Writing Skill	Student. Long Composition
	1	Report Writing				
	1	Debate Writing				
	1	Pre Board Exam -2	Revised portions . To assess the understanding of the above lesson and writing skills taught.	80 marks (Reading, Writing, Literature) Part A 40 Marks and Part B- 40 Marks		

Month/ No of Working Days	Number of Periods	Name of the Unit / Chapter/Topic	Learning Outcomes Revision	Suggested Activities / Projects under Internal Assessment	Assignment	Assessment/ Important links https://kparama.blogspot.com/
February 15 working days	1	Flamingo Lessons	To revise the lessons .	To give two questions of MCQ, short answer 30-40 words, Long answer. (one or two each for practice) (Discuss and give options to children to write)	https://kparama.blogspot.com/ solve the practice board questions	To assess the understanding of the text.
	1	Vistas Lesson				
	1	Poems				
	1	Notice Writing	To be able to write the short composition in the prescribed time limit.(7 minutes maximum)	Questions to be solved after discussion . Motivate the students to do the exercise in an effective manner.(2-3 questions to be solved in the class.	Writing Skill	To assess the writing Skill of the Student. Short Composition
	1	Informal Invitation ,Reply (Acceptance & Refusal)				
	1	Formal Invitation , Reply (Acceptance & Refusal)				
	1	Advertisements (Sale , Lost & Found)				
	1	Poster Drafting				
	1	Speech Writing				
	1	Article Writing	To be able to write the long composition with value points in an presentable manner.(15- 20 minutes)	Questions to be discussed in the class and then write the answer in the class. (one topic only) (pre & Post discussion.)	Writing Skill	To assess the writing Skill of the Student. Long Composition
	1	Report Writing				
	1	Debate Writing				
	1	Pre Board Exam -3				

2. (a) Conduct of online classes

Sl no	Problem/challenges faced during the previous academic session (Subject Specific).	Action Plan to overcome those challenges during the current academic session.
1	Some children had issues with the mobile screen being small and clarity of the content other than ppt was difficult. Using jam board or note pad was not beneficial. Even ppt took few seconds to open and appear depending on the connectivity. Audio and video when shared was not to the expected outcome. So, in English support audio and videos couldn't be shared. This brought down the standard pronunciation familiarity in many cases.	All the lessons had been prepared with ppt with 24 size font. Pictures with clarity. The ppt is uploaded prior to the beginning of the class. Jam boards are used only during discussion classes. Audio and video links are provided in the classroom app itself so that children can listen and watch as per child's convenience.
2	Children had not upgraded the internet package or the connection they had was not sufficient to attend all the classes.	Children have been suggested to upgrade the plan and check with network which is feasible with proper connectivity.
3	Submission of classwork and home work took a heart throbbing task for the slow learners. So, the remedial work took a different shape in not getting the students as they used to become not reachable.	Students have been constantly guided to use certain application. Parents and students are called and personally guided and trained to use the scan application and uploading format. Not reachable students are reached through parents or friends and guided with patience
4	Correction of the submitted subjective work was time consuming depending on the file quality of children and of course the internet connectivity.	E correction is time taking. Teachers internet package has been upgraded with high speed so that work is done at ease within the allotted duration. Children have been advised to upload a single pdf file for a single

		assignment.
5	Assignments on google forms submission were not authentic as it was not known if the child had really done or someone else had dictated.	Assignment through interactive worksheets are given for them to learn at their own pace. The same assignments are to be written in their classwork , scan and upload to ensure the child's work and understanding.

(iii) Statement of Philosophy (STP) (English XI & XII)

11. Teachers plan their teaching of the lessons by dividing the lessons as per the concept.
12. Interaction of teachers with students is limited. A routine chart of the students to be interacted to be maintained for each lesson. In case any student gets skipped they have to be given chances in priority in the next lesson interaction.
13. Students should be tied up with interesting assignments with a varied pattern and not a routine pattern for all the chapters.
14. Concepts taught must be of good values related to their real life situations. Short narration assignments can be assigned as a part of home assignments or projects to make sure that the teaching learning process is effective.
15. A variety of assignments can be planned and given as children should be tested based on their competency.
16. Speaking topics for all the lessons to be given to the students so that they are able to select and prepared= and get familiar with a variety of topics.
17. Listening audio with exercise could be given to all the students for them to listen imitate speaking skills.
18. Written exercise with moral values inbuilt to be assigned with the contemporary issues .
19. A check point of assessment could be kept in all the work assigned.
20. Assessment as learning is to be practiced teaching – learning concepts to be planned and executed while classroom activity.

SWOT(Strength , Weakness, Opportunity & Threat)

In English most of the students have the inhibition to speak . Especially when they are given role play or debate or speech session many students don't come forward. They are able to write. So assessment can be based on their writing skills.

For students who are able to speak well they are given more exercise in speaking and assessed based on their performance.

In online class most of the students become mute as they don't want to project or out of laziness. There are some children who are using smart phone for getting readymade answers. So, the screen time has to be reduced by giving creative work. The questions framed by the teachers has to be done in such a manner that they have to think and write and they are not able to get ready made answers.

KENDRIYA VIDYALAYA, KANKERE
e- Lesson plan format -2021

NAME OF VIDYALAYA	KV KANKER
DATE OF ONLINE CLASS	29/4/2021
TIME OF ONLINE CLASS	11.00 a.m to 11.40 a.m
NAME OF TEACHER	K.Parameswari
DESIGNATION	PGT(English)
CLASS & SECTION	XII A & B
STUDENTS ON ROLL	47
SUBJECT	English

TOPIC	Writing Skill
SUB TOPIC	Informal Invitation : Acceptance and refusal.
ONLINE EDUCATIONAL PLATFORM	GOOGLE MEET
LINK	https://meet.google.com/lookup/bwpaglk5u5
Teaching Methodology/AIDS: PPT/VIDEO/WORD/PDF/AUDIO/ ANY OTHER	PPT (link of the ppt) https://online.fliphtml5.com/hbloz/oplo/?1596502689892
Assignment questions	1. Write an inform invitation to invite your close friends for your birthday party. Give all the details of the date , time and venue. 2. Write the reply : one acceptance and one refusal .
No of Students attended the Online classroom	Absentees Names
Remarkable performance of any student_	
Problems faced by the teacher.	

DATE: _____ NAME OF THE TEACHER _____ SIGNATURE OF THE TEACHER _____

Lesson Plan(Micro -Teaching)

Name of the Teacher : Mrs.K.Parameswari

Designation : PGT (Eng) Class : XII

Date : _____

Duration:15 Minutes

Subject : English

Lesson : Should Wizard Hit Mommy?

Instructional Objectives :

General objectives

2. To inculcate values of ‘respecting elders decision’

Specific Objectives

- 1.To analyse and interpret the decision of the elders-**Roger Skunk’s Mother & Jo’s father**

(Learning Outcomes) At the end the child will be able to :

2. To acquire language Skills - Listening and Speaking through the lesson.

Teaching methodologies/strategies followed:

<p>1.Interaction – eliciting answers –</p> <p>2.Playing a Audio of the part of the story</p> <p>3.Worksheets –</p>	<p>Teaching Aids & Learning Activities</p> <p>Teaching & Learning Materials/Aids used:</p>
ppt -	https://drive.google.com/file/d/1NqAUYVbtYR5X0cVvmFc2OnCOAW110md7/view?usp=sharing
Worksheets	https://drive.google.com/file/d/1eJSkUe7jAAomBWQ0_QzbSCKLBBvCGxDX/view?usp=sharing

Micro Lesson Plan format-

	Content / Gist of the section of the topic	Teacher's Activities	Student's Activities	Assessment (Formative)	Learning Out comes	Time
Introduction	Interaction – Recap of the story till Roger Skunk reaches home .	Eliciting Answers from students.	Responding to the questions.	1. How did Roger Skunk get the smell of Roses ? 2. How did he enjoy after getting the smell of roses? 3. When he reaches home, how would his mother react to him?	Recollect the story.	2 M
Development of the concept through various activities/ experiences	Roger Skunk after changing to smell of Roses and reaches home happily. Roger Skunk's Mother is unhappy and forces him to change back. Jo disagrees to the end of the story.	Distribute the handouts Ask them to complete the exercise.	Children complete the worksheet.	Complete the dialogue . Tick the appropriate character the statement relates to:- Activity Sheet- https://drive.google.com/file/d/1eJSkUe7jAAomBWQ0_QzbSCKLBBvCGxDX/view?usp=sharing	Understand the development of the story. Analyse the characters Judge and act upon what elders say.	10M
Evaluation	III. Why is an adult perspective on life different from that of a child's perspective? IV. Why is the writer focusing that always the elders are right in decision making?					3 M
Extended Activity	Do you think that Jo's father's decision of not changing the end of the story according to Jo's wish is acceptable?	Tr Assigns work	Write in 100 words.	On the interpretation.	Interpreting the decision of Jo's father.	

KENDRIYA VIDYALAYA, KANKER

Macro LESSON PLAN

Name of the Teacher: **K.Parameswari** Designation: **PGT ENGLISH** Date: _____ Time: _____
 Online Platform to be used: **Google Meet** Class: **XII** Subject: **ENGLISH** Duration: **40 minutes**
 Meeting Topic: **English XII –Aunt Jennifer’s Tiger** DD : **Thursday, 9 July 2020, 9.00 a.m** Connect : <https://meet.google.com/mwm-ccti-jmx>

Topic/ concept	Targeted Learning Outcome	Activity /content to be delivered	TLM used and Summarization of concept content	Assessment (Formative Assessment) Evaluation: Home Assignment
<p>Poem : Aunt Jennifer’s Tigers</p> <p>Poet: Adrienne Rich</p> <p>Theme of the poem: Aunt Jennifer wishes to have the qualities of the Tiger – fearless of men.</p>	<p>1.To understand and appreciate the Poem – Aunt Jennifer’s Tiger by Adrienne Rich</p> <p>2.To understand the panel with images of tigers parading proudly across it.</p> <p>3.To correlate the characteristics of the feeling of the poet and the Tiger.</p> <p>4.To understand aunt’s</p>	<p>Interaction with the students.</p> <p>Inciting their previous knowledge</p> <p>Explanation of the poem.</p> <p>Content to be delivered.</p> <p>Aunt Jennifer’s tigers jump and prance across the screen. They look bright like shining yellow Topaz. They do not fear the men under the tree. They pace in dignified manner.</p> <p>Aunt Jennifer feels difficult to pull her ivory needle smoothly. The heavy weight of marriage band that makes her feel depressed.</p> <p>Her terrified hands will reveal all the ordeals through which she had to pass during her life time. Even after her death the Tigers on the panel will remain proud and fearless which symbolizes her internal longing to be proud and fearless.</p>	<p>Peom from NCERT text book</p> <p>Reference to tiger (#NatGeoWILD #WorldsDeadliest #Tigers)</p> <p>Link below https://www.youtube.com/watch?v=QdpGBxspim4</p> <p>PPT prepared by me .</p> <p>Introduction to the poet.</p> <p>Qualities of the tiger.</p> <p>Poem read and recited.</p> <p>Relevant pictures included</p> <p>Lines explained.</p>	<p>Classroom app: class code:5meqlr</p> <p>Google form : 10 points https://forms.gle/25JvFFjxkfZ3PCnp9</p> <p>Answer briefly:</p> <p>1.How do 'denizens' and 'chivalric' add to our understanding of the tiger's attitudes ?</p> <p>2.Why do you think Aunt Jennifer's hands are 'fluttering through her wool' in the second stanza ? Why is she finding the needle so hard to pull ?</p> <p>3. What is suggested by the image 'massive weight of Uncle's' wedding band' ?</p> <p>4. What are the 'ordeals' Aunt Jennifer is surrounded by ?</p>

	admiration for the Tiger		Word meanings Poetic devices used Theme of the poem discussed-The poet brought up in a male dominated society expresses her wish to be like the tiger which is fearless of men.	Evaluation: Extrapolatory Questions1.Marriage is unequal due to male domination/Inequality (Write an article)
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Sign of the Teacher K.Parameswari

Principal's Observation: _____ Principal's Sign: _____

संस्कृतभाषा में लिखिए, संस्कृत भाषा में
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 संस्कृत (संस्कृत-302) संस्कृत- संस्कृत
 संस्कृत संस्कृत- संस्कृत संस्कृत - 2, संस्कृत संस्कृत -2, संस्कृतभाषा में लिखिए

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SWOT ANALYSIS

INTRODUCTION: Importance of SWOT analysis

विषय - हिंदी कक्षा स्तर - XI ,XII

STRENGTHS(S)

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WEAKNESS(MW)

- व्याकरणिक अशुद्धियाँ
- वर्तनी सम्बंधी कमियाँ
- निरंतर लेखन क्षमता की कमी
- क्षेत्रीयता का भाषा प्रयोग में प्रभाव
- साहित्यिक गतिविधियों में अरुचि
- अलगाव की भावना
- अध्ययन में निरंतरता का अभाव

OPPORTUNITIES(O)

साहित्यिक रचनाएँ ऑनलाइन उपलब्ध
सहित्यिक गतिविधियों एवं पाठ्य सामाग्री विद्यालय ई-
पुस्तकालय, दीक्षा पोर्टल, सी बी एस ई वेबसाइट पर उपलब्ध
विद्यालय में आयोजित होने वाली गतिविधियाँ
अध्यापकों द्वारा निरंतर मार्गदर्शन एवं उत्साह वर्धन
समसामयिक रचनाओं साहित्यकारों से सम्बंधित पत्र
पत्रिकाओं की उपलब्धता

THREATS(T)

सामाजिक जागरूकता की कमी
विभिन्न कुरीतियाँ
विविध व्यसन
अरुचि की भावना
आधुनिक दिखावा फैशन
विषय विशेष के प्रति हीन भावना
रोजगार प्राप्त करना मुख्य ध्येय

CONCLUSION:हिंदी विषय के प्रति रुचि जाग्रत कर बच्चों के मन में जिज्ञासा उत्पन्न किया जाना चाहिए जिससे अत्यधिक जिम्मेदारी के साथ अध्ययन कर सकें । किसी भी विषय के प्रति लगन एवं उत्साह का होना आवश्यक है। वर्तमान संचार साधनों से परिपूर्ण समय में शिक्षक की भूमिका अति महत्वपूर्ण है। शिक्षक स्वयं अध्ययनशील रहकर बच्चों के जिज्ञासु मन को सार्थक समाधान दे सकता है ।

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पाठ योजना (संक्षिप्त)

कक्षा- बारहवीं – विषय हिंदी (केंद्रिक) अपेक्षित सत्र संख्या1 -

इकाई(2 आरोह भाग)गद्य - पाठ " -नमक"

स त्र	पाठ का सार	अपेक्षित अधिगम कौशल	आयोजित शिक्षण- - अधिगम क्रियाकला प	सुझावात्मक सामग्रीसंसाधन/	आयोजित आकलन युक्ति योजनागृहकार्य /	कार्य पत्रक
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केंद्रीय विद्यालय संगठन, रायपुर क्षेत्र के केंद्रीय विद्यालयों में कक्षा 1-2

के लिए अद्यतित अध्याय क्रम तैयार किया गया है। इसका उद्देश्य छात्रों की समझ और रुचि को बढ़ा देना है।

अध्याय क्रम में अद्यतन परिवर्तन हैं।

Shri. Dinesh Chandra Kaushik PGT (Hindi)

KV Kanker

KENDRIYA VIDYALAYA SANGATHAN, REGIONAL OFFICE, RAIPUR

ACADEMIC CALENDER 2021-22 FOR SENIOR SECONDARY CLASSES

SUBJECT-PHYSICS

CLASSXII

ACADEMIC CALENDAR

Note: For detailed syllabus please visit: http://cbseacademic.nic.in/web_material/CurriculumMain22/SrSec/Physics_SrSec_2021-22.pdf

For practical -

- (a) At least 12 Experiments [with 6 from each section], to be performed by the students.
- (b) At least 6 Activities [with of 3 from each section], to be demonstrated by the teachers.
- (c) 1 Project to be carried out by the students.

Month	Number of		Name of the Unit /Chapter /Topic	Learning outcomes to be covered as per (TRALO)	Suggested Activities /Project/Practicals under Internal Assessment.	Assignments	Link for further reference
	Workin g days	Perio ds					

<p>APRIL 2021 MAY 2021</p>	<p>22</p>	<p>20</p>	<p>UNIT-I ELECTROSTATICS Chapter-1: Electric Charges and Fields Chapter-2: Electrostatic Potential and Capacitance</p>	<p>Explains processes, phenomena and laws with the understanding of the relationship between nature and matter on scientific basis; such as, force between charges, flux due to a charge, electric field and potential due to charges and distribution of charges, equipotential surface polarisation of dielectric, charging of capacitor; Derives formulae and equations, such as, electrostatic forces and fields due to charge distributions; potential energy of system of charges; torque on a dipole in uniform electric field; combination of capacitors in series and in parallel; energy stored in a capacitor. Applies concepts of physics in daily life with reasoning in solving problems; such as, if a certain capacitance is required in a circuit across a certain potential difference then suggesting a possible arrangement using minimum number of capacitors of given capacity which can withstand a given potential difference</p>	<p>ACTIVITIES SECTION A 1. To assemble a household circuit comprising three bulbs, three (on/off) switches, a fuse and a power source. 2. To assemble the components of a given electrical circuit.</p> <p>EXPERIMENTS SECTION A 1. To determine resistivity of two/three wires by plotting a graph for potential difference versus current.</p> <p>MONTHLY TEST-1</p>	<p>Derivation of</p> <ul style="list-style-type: none"> • Electric field due to a dipole torque on dipole in uniform electric field. • Applications of Gauss law. • Potential and potential energy of system of charges. • Capacity of parallel plate capacitor and energy stored in capacitor. <p>Numerical, conceptual questions, MCQs & Assessment Reasoning Questions on above concepts</p> <p>https://drive.google.com/file/d/1LW5g5GkGRbF6MdVvvpX5oBcCflp-K1Q/view?usp=sharing</p>	<p>Electric charge and field https://drive.google.com/file/d/1IS76J-evvPDrahtafwCMKElpPT-ILmW8/view?usp=sharing Gauss law https://drive.google.com/file/d/1UlnrdeTu_2B3LMXHVNOsJys1PLlhqr3L/view?usp=sharing Capacitors https://www.youtube.com/watch?v=A74GNquzxis</p>
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JUNE 2021	9	9	UNIT-II <u>CURRENT ELECTRICITY</u> Y Chapter-3: Current Electricity	Differentiates between certain physical quantities; such as electrical resistance and resistivity; potential difference and emf of a cell Plans and conducts investigations and experiments to arrive at and verify the facts, principles, phenomena, relationship between physical quantities, such as verification of Ohm's law; determining specific resistance of a material; Compare emf of cells Handles tools and laboratory apparatus properly such as voltmeter; ammeter; multimeter; rheostat; galvanometer; meter bridge; potentiometer. Applies concepts of physics solving problems on simplifying circuit using Kirchhoff's rules, Wheatstone bridge etc	2. To find resistance of a given wire / standard resistor using metre bridge ALLOTMENT OF PROJECTWORK	Questions on <ul style="list-style-type: none"> • Drift velocity • Ohms law and resistivity in terms of number density of electrons • Kirchoff's Rules and its application to Meter Bridge. • Potentiometer https://drive.google.com/file/d/1Muxzka5KqJ3Nwf_zrJ4MZ9_oAN1sR08E/view?usp=sharing	Combination of cells https://diksha.gov.in/play/collection/do_3131034753990656001756?contentId=do_31312403602132172811110 Meter bridge & potentiometer https://diksha.gov.in/play/collection/do_3131034753990656001756?contentId=do_3130986242141798401125
JULY 2021	25	20	UNIT-III <u>MAGNETIC EFFECTS OF CURRENT AND MAGNETISM</u> M Chapter-4: Moving Charges and Magnetism Chapter-5: Magnetism and Matter	Explains processes, phenomena and laws with the understanding of the relationship between nature and matter on scientific basis such as forces on moving charges in a magnetic field, torque on a rectangular current loop in an uniform magnetic field Derives formulae and equations, such as magnetic field on the axis of a circular current loop, force between parallel current carrying conductors, torque on current loop in magnetic field. Applies concepts of physics solving problems on trajectory of charged particle in magnetic field, finding magnetic field due to a circular coil & solenoid, converting galvanometer into ammeter and voltmeter, Recognises the concepts of Physics related to various natural phenomena such as magnetic properties of materials	<u>EXPERIMENTS SECTION A</u> 3. To verify the laws of combination (series) of resistances using a metre bridge. <u>ACTIVITIES SECTION A</u> 3. To study the variation in potential drop with length of a wire for a steady current. 4. To compare the EMF of two given primary cells using potentiometer. 5. To determine the internal resistance of given primary cell using potentiometer. MONTHLY TEST-2	Derivation of <ul style="list-style-type: none"> • Magnetic field due to a circular loop carrying current. • Magnetic field due to a solenoid • Force between two parallel current carrying conductors. • Torque on current loop in magnetic field Statement of Biot Savart law and Ampere's law https://drive.google.com/file/d/1N8gVKBLectr6ozDI4JgjS0xVCvflnL6K/view?usp=sharing	Force on moving charge in MF https://diksha.gov.in/play/collection/do_3131034753990656001756?contentId=do_31312404067988275211563 Ampere's Law and force between parallel current carrying conductors https://diksha.gov.in/play/collection/do_3131034753990656001756?contentId=do_3130992946311741441547 https://www.youtube.com/watch?v=0MbEINXBc5Y

<p>AUGUST 2021</p>	<p>24</p>	<p>20 04</p>	<p>UNIT-IV ELECTROMAGNETIC INDUCTION & ALTERNATING CURRENTS Chapter:6 Electromagnetic Induction Chapter :7 Alternating currents</p>	<p>Analyses and and draws conclusion such as direction of induced current in the figure Explains process on scientific basis such as production of eddy currents, self and mutual induction. Recognises different processes used in Physics-related industrial and technological applications; such as use of superconducting magnets for running magnetically levitated superfast trains, Generator. Derives formulae and equations such as current voltage phase relation in ac circuit, resonant frequency in series LCR circuit, energy stored in inductor. Analyse and interpret graph and draw conclusion such as phase relation between current and voltage in ac circuit, LC oscillations and conservation of energy.</p>	<p>6. To determine resistance of a galvanometer by half- deflection method and to find its figure of merit. ACTIVITIES SECTION B 1. To study refraction of light through glass slab. EXPERIMENTS SECTION B 1. To find the value of v for different values of u in case of a concave mirror and to find the focal length. MONTHLY TEST -3</p>	<ul style="list-style-type: none"> • Statement of Faradays law and lenz’s law • Reasoning questions to find direction of induced current and emf, reactance and impedance of ac circuit • Numerical and conceptual questions on induced emf, self and mutual induction, AC circuits, Resonance • Derivation of expression for motional emf, self and mutual induction of a coil, displacement current. • Derive phase relation between current and voltage in AC circuit • Production properties and uses of e m waves 	<p>Electromagnetic induction and Faradays law https://diksha.gov.in/play/collection/do_3131034753990656001756?contentId=do_3131006478679408641877 Electro magnetic induction https://drive.google.com/file/d/1CI2-ANDs901XF2MdX-wGW2iZj2TF_v2B/v iew?usp=sharing Alternating current https://www.youtube.com/watch?v=DZv-F_XtJ68&list=PLNz32RYOjBepdhGCSA5OoVPha83vKJePl&index=12</p>
<p>SEPTEMBER 2021</p>	<p>24</p>	<p>24</p>	<p>UNIT- VI: OPTICS Chapter-9: Ray Optics and Optical Instruments Chapter-10: Wave Optics</p>	<p>Recognises the concepts of Physics related to various natural phenomena such as reflection, refraction, interference, diffraction and polarization of light; formation of rainbow. Derives formulae and equations such as mirror formula, lens formula, refraction at spherical surface and prism, magnifying power of microscope and telescope, fringe width in Young’s double slit experiment and diffraction. Analyses and interprets figures, and draws conclusion such as position of image in ray diagrams;</p>	<p>EXPERIMENTS SECTION B 2. To find the focal length of a convex lens by plotting graphs between u and v or between $1/u$ and $1/v$. 3. To find focal length of convex mirror by using a convex lens. 4. To find the focal length</p>	<p>Derivation of • Mirror formula • Refraction at spherical surface • Lens formula • Prism formula • Magnifying power of Microscope and telescope • Condition for maxima and minima in</p>	<p>Ray optics https://drive.google.com/file/d/1AGoK7XhBzzGHBpQHMrhZ1nBZ8eMNijv/v iew?usp=sharing Huygens principle https://drive.google.com/file/d/1qU06FaHV3G6sA7Guj6uDSWXSTcmoXOil/v iew</p>

			fringe pattern due to diffraction at single slit. Handles tools and laboratory apparatus properly; measures physical quantities using appropriate apparatus, instruments, and devices: such as	of a concave lens, using a convex lens.	Interference and diffraction	https://drive.google.com/file/d/1tM6xRLs-pdwbzKe-ZNPJQKcCTtJmHx-BF1/view?usp=sharing
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				<p>Travelling microscope; concave and convex lens, prism, glass slab.</p> <p>Plans and conducts investigations and experiments to arrive at and verify the facts, principles, phenomena, relationship between physical quantities such as Study the image formed by lens and mirror, determine refractive index of a liquid using a convex lens and a plane mirror</p> <p>Applies concepts of physics in daily life with reasoning while decision-making and solving problems such as use of polarized glass in spectacles, applications of optical fibers for transmission of optical Signals.</p>	<p>COMPLETION OF PROJECTWORK</p> <p>MONTHLY TEST-4</p>	<ul style="list-style-type: none"> • Conceptual, graphical questions, Ray diagrams and numerical on above topics • Practice Assertion Reasoning and content based Questions 	<p>Diffraction of light</p> <p>https://drive.google.com/file/d/1IkgH8tvrLh-afy7YUyhtJVOF-sDHFVT8t/view?usp=sharing</p>
OCT 2021	19	19	<p>UNIT-VII: DUAL NATURE OF RADIATION AND MATTER Chapter-11: Dual Nature of Radiation and Matter.</p> <p>UNIT-VIII: ATOMS AND NUCLEI Chapter-12: Atoms Chapter-13: Nuclei</p>	<p>Recognises the concepts of Physics related to various phenomena such as radioactivity; nuclear fusion and nuclear fission.</p> <p>Differentiates between; wave and particle nature of light; half-life and average life; Nuclear fusion and nuclear fission;.</p> <p>Derives formulae and equations such as de Broglie wavelength; equations for nuclear fission and fusion, beta decay, mass defect.</p> <p>Realises and appreciates the interface of Physics with other disciplines such as, with Chemistry as various materials give rise to interesting properties in the presence or absence of electric field, making light sensitive cells using the applications of photoelectric effect; use of atomic and nuclear physics in medicine,</p>	<p><u>ACTIVITIES SECTION B</u></p> <p>2. To observe polarization of light using two Polaroids.</p> <p>3. To observe diffraction of light due to a thin slit.</p> <p>HALF YEARLY EXAMINATION</p>	<p>Numerical and derivations on</p> <ul style="list-style-type: none"> • Einstein's equation • DE Broglie's equation • Distance of closest approach • Radius and velocity of electron in H-atom • Energy of electron in n^{th} orbit • Spectral line of H- atom • Size of nucleus • Binding energy • Radioactivity <p>Practice MCQ, Assertion Reasoning graphical and content based questions on above topics.</p>	<p>Dual nature of Matter and radiations</p> <p>https://drive.google.com/file/d/1zbtGdRxFU1h2Cj9ybPKFGDmBFJJOISju/view?usp=sharing</p> <p>Atoms</p> <p>https://drive.google.com/file/d/1dMRujprpLyMuOU-RZmR62cfMkZzHvPZ/view?usp=sharing</p> <p>Nuclei</p> <p>https://drive.google.com/file/d/1JPhyN_bEsm932r7UzZC19CbNnF4ZexZp/view?usp=sharing</p>

NOVEMBER 2021	11 (Up to 15 th Nov.)	10	UNIT- IX: ELECTRONIC DEVICES Chapter 14: Semiconductor Electronics:	Differentiates between conductors, insulators and semiconductors. Plans and conducts investigations and experiments to arrive at and verify the facts, principles, phenomena, relationship between physical quantities such as designing a voltage regulator circuit using zener diode, draw I-V characteristics curves of a p-n junction diode	<u>EXPERIMENT SECTION B</u> 5. To draw the I-V characteristic curve for a p- n junction in forward bias and reverse bias. 6. To draw the characteristic curve of a Zener diode and to determine its reverse breakdown voltage.	Practice <ul style="list-style-type: none"> • Assertion reasoning, and MCQ questions. • Questions on energy band diag., junction diode & its use as rectifier, Special purpose diode –LED Zener diode, photo diode, solar cell 	https://diksha.gov.in/resources/play/collecton/do_31310347540115456011088?contentType=TextBook
DEC 2021	20		I Pre Board Examination Practice Content based questions Assessment reasoning questions Derivations, Statement of laws and Diagrams Time bound practice of solving Question papers				
JAN 2022	24		II Pre Board Examination Preparation for Practical Examination				
FEB 2022	15		AISSCE Practical Examination III Pre Board Examination				

CONDUCT OF ONLINECLASSES

PROBLEM/CHALLENGES FACED DURING THE PREVIOUS ACADEMIC SESSION.	ACTION PLAN TO OVERCOME THOSE CHALLENGES DURING THE CURRENT ACADEMIC SESSION
Difficult to understand- It is difficult to concentrate on lengthy topics especially long derivations and numerical on small screen of mobile phone.	Self-prepared Videos, you tube Links, PPTs, Notes on the topic will help students to understand.
Students often do not respond in the online classes	Plan activities to involve students in teaching learning process
Difficult to complete practical and project- Though o-lab was used but all experiments are not available on o-lab.	Recording of demonstration of practical in lab will be shared with the students.
Financial problems of students- Some families are not financial sound to have smartphone/ desktop especially when siblings have to use the device	Staggered schedule of classes for primary, secondary and senior secondary classes. Topic taught is shared in classroom and in WhatsApp group
Difficult to get the assignments completed by students	Assignments will be planned so that students are not overburdened and arrange class as per the convenience of students to get the work done.
Attendance of students	Frequent PTM and share daily attendance with parents
Network issue and data exhaustion	Parents to be counselled for sufficient data and better network or different network options. Topic taught is shared in classroom also

STATEMENT OF TEACHINGPHILOSOPHY

‘Every teacher has a philosophy of teaching... Whether they know it or not.’

My teaching philosophy has grown and changed over the years, always with an increasing emphasis on *how* students learn.

As an introduction I develop confidence in students that everyone can learn physics but one needs to adopt correct method of learning it. Physics is basic to the understanding of almost all the branches of Science and Technology. I also share with them importance of Mathematics in learning Physics. Physics needs mathematics because we wish to develop objective description of the world around us and express our observations in terms of measurable quantities.

During teaching (and outside), **I strive to keep students engaged, interested, and motivated.**

Students need to be engaged and interested in what they are learning about hence often I introduce the concept through activity, demonstration, short story or historical perspective. In the online mode of teaching self-prepared videos, power point presentation, jam/white board are being used to make the teaching learning process more effective.

Interactive examples, peer instruction, or just calling on students by name to ask a question, I encourage students to *think* during the class.

A **focus on a conceptual understanding of Physics** is important at all levels. Solving numerical based on real life situation based on the concept taught deepens the understanding of concepts. As solving numerical is a difficult task for many, I adopt **easy to difficult** maxim to keep the students motivated.

Practical skills play an important role in understanding concepts. Practical classes are planned with focus on phenomenon being studied and the basic principle involved rather than just recording the observations.

I use both informal and formal assessment. During the units and for most of the lessons I use informal assessment. At the end of units and for big lessons I make use of formal assessment. Not only tests, I also make use of presentations, project work, quiz, writing tasks and other creative ways to fit my students' learning needs.

I believe that success of every educators reflects in success of their students. I also assess effectiveness of my teaching in terms of the achievement of fullest potential of my each students. Inspired by the philosophy of the great philosophers, I always make efforts to follow pragmatism and naturalism in teaching- learning process. Preparing students as per the need of the society by providing them hand on experience is the learning outcome I always focus

on. I truly believe on utility based learning.

SWOT ANALYSIS

INTRODUCTION:

In education system SWOT analysis for a student is a tool, used identify the improvement areas and in setting goals. With this, we can easily understand the factors that could affect their learning performance and process.

<p style="text-align: center;">STRENGTHS(S)</p> <ol style="list-style-type: none"> 1. Activity based approach and use of ICT promotes process- skills, problem-solving abilities and applications of Physics concepts. 2. Well-equipped Physics lab and systematic plan of experimental work helps to develop experimental, observational, manipulative, decision making and investigatory skills in the learners. 3. Create enthusiasm for learning and engage all students in the classroom 4. More opportunities for overall development of students 5. Support of teachers and learning environment 	<p style="text-align: center;">WEAKNESS (W)</p> <ol style="list-style-type: none"> 1. Physics needs Mathematics because we wish to develop objective description of the world around us and express our observations in terms of measurable quantities. Students with weak Mathematics background loose interest in Physics 2. There is a steep gradient between secondary and higher secondary stages 3. Lack of motivation and at times students do not put forth the effort in their studies. 4. They procrastinate and can be unwilling to do the work assigned. 5. Students spend more time on tuitions and coaching than that on self-study.
<p style="text-align: center;">OPPORTUNITIES (O)</p> <ol style="list-style-type: none"> 1. Participation of students in science activities like NCSC, Inspire, Science exhibitions, Science Olympiads etc. helps to develop scientific aptitude in the learners that promotes learning. 2. Remediation for improvement in performance. 	<p style="text-align: center;">THREATS (T)</p> <ol style="list-style-type: none"> 1. Peer pressure 2. Pressure from parents 3. More dependency on online resources leads to reduced creative and critical thinking. 4. Emotional disorders

CONCLUSION: By addressing the weaknesses and threats, the strengths can be used to plan the strategies and mentor students to achieve the learning outcome.

LESSONPLAN

MACRO LESSON PLAN

MACRO LESSON PLAN				
Class:	XII	Date of Commencement:		
Topic/Lesson:	CURRENT ELECTRICITY	Date of Completion:		
Period Required:	12			
Gist of Lesson Focused skills/Competencies	Targeted learning outcomes (TLO)	Teaching learning activities planned for achieving the TLO using suitable resources and classroom management strategies	Assessment Strategies Planned	Co-relation with other subjects or with daily life
<ul style="list-style-type: none"> • Electric current and flow of current • Drift velocity, mobility and their relation with electric current; • Ohm's law, electrical resistance, V-I characteristics (linear and non-linear), • Electrical energy & power, 	<p>Differentiates between electrical resistance and resistivity; potential difference and emf of a cell.</p> <p>Plans and conducts investigations and experiments verify the facts, relationship between</p>	<p>✓ Use power point presentation to explain main concepts</p> <ul style="list-style-type: none"> • Drift velocity • Expression of current in terms of drift velocity • Electrical resistivity and conductivity and their temperature dependence. 	<p>Assessment as learning-</p> <p>✓ <u>Oral questions</u></p> <p>Example</p> <ol style="list-style-type: none"> 1. Define drift velocity. 2. State ohm's law. 3. Give unit of resistivity. <p>. How does resistance of conductor</p>	<p>Concept of emf and working of primary cells is used to understand same concepts in Chemistry.</p> <p>Knowledge of combination of resistances is used to</p>

<ul style="list-style-type: none"> Electrical resistivity and conductivity, Carbon resistors, colour code for carbon resistors; Series and parallel combinations of resistors; Temperature dependence of resistance. Internal resistance of a cell, potential difference and emf of a cell, combination of cells in series and in parallel, Kirchhoff's laws and simple applications, Wheatstone bridge, Meter Bridge. Potentiometer - principle and its applications <p>https://drive.google.com/file/d/1-uSbfgsw8uZvZD5O73LEOq-W6RmmASup/view?usp=sharing</p>	<p>physical quantities, such as verification of Ohm's law; determining specific resistance of a material; Compare emf of cells</p> <p>Handles tools and laboratory apparatus properly such as voltmeter; ammeter; multimeter; rheostat; galvanometer; meter bridge; potentiometer</p> <p>Derives formulae and equation such as expression of current in terms of drift velocity, resistivity in terms of number density of electrons and relaxation time, condition for balanced wheat stone bridge.</p>	<p>https://drive.google.com/file/d/1pzZ7-DPMgPkIbOpxFUIA9q431AFvsrfb/view?usp=sharing</p> <ul style="list-style-type: none"> Self-prepared videos on Kirchhoff's rules Wheatstone bridge, Meter Bridge and potentiometer. https://youtu.be/ANyjrEm-v0 https://youtu.be/U_rRw6kECw8 Demonstration of Factors affecting resistance Verification of Ohm's law Measurement of resistance using meter bridge http://amrita.olabs.edu.in/?sub=1&brch=6&sim=146&cnt=1 Comparison of emf of two primary cells using potentiometer. http://amrita.olabs.edu.in/?sub=1&brch=6&sim=231&cnt=728 Engage students in solving numerical and conceptual questions 	<p>change with increase in temperature</p> <p>5. List the factors affecting internal resistance of a cell</p> <ul style="list-style-type: none"> Simple numerical based on direct substitutions Slip tests <p>Assessment for learning Class tests, Home assignments (Sample attached)</p> <p>https://drive.google.com/file/d/1Muxzka5KqJ3Nwf_zrJ4MZ9_oAN1sR08E/view?usp=sharing</p> <p>Assessment of learning (Sample attached)</p> <p>https://drive.google.com/file/d/1Muxzka5KqJ3Nwf_zrJ4MZ9_oAN1sR08E/view?usp=sharing</p>	<p>understand the fact that the headlights of any vehicle are connected in parallel so that same voltage appears across each and it glows with maximum brightness</p>
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SUBJECT	PHYSICS	DATE –
TOPIC	CURRENT ELECTRICITY	PERIOD –
SUB TOPIC	METRE BRIDGE	DURATION – 40 MINUTES
CONTENTS	<ol style="list-style-type: none"> 1. Principle of working of meter bridge 2. Application of meter bridge to measure resistance of a conductor 	
GENERAL AIMS	<ol style="list-style-type: none"> 1. Develop process-skills and experimental, observational, and investigatory skills in the learners. 2. Promote problem solving abilities and creative thinking in learners. 3. Develop conceptual competence in the learners and make them realize and appreciate the interface of Physics with other disciplines 	
LEARNING OUTCOME	<ol style="list-style-type: none"> 1. Derives formulae and equations - expression for finding resistance using meter bridge 2. Plans and conducts experiments to verify the facts, relationship between physical quantities, to find resistance of a material. 3. Synthesize physics concepts to solve problems and thinking critically in solving numerical based on meter bridge 	
TEACHING AIDS USED	1. Laptop 2.. Internet connectivity 3. Power point presentation, 4. Circuit to measure resistance using meter bridge	
PREVIOUS KNOWLEDGE	<ol style="list-style-type: none"> 1. Factors affecting resistance 2. Principle of Wheat stone bridge 3. Assemble an electric circuit 	
PRESENTATION	I will explain the whole content using power point presentation and writing pad.	
Key Points	Teacher's Activities	Student's Activity
		Assessment as Learning

<ul style="list-style-type: none"> • Principle of working • Circuit diagram to measure resistance of a conductor • Derivation of formula • Experimental procedure to measure resistance using meter bridge • Important precautions and sources of error in the experiment • Numerical on Meter bridge 	<ul style="list-style-type: none"> ✓ Use power point presentation to explain principle of wheat stone bridge https://drive.google.com/file/d/1m_LXH4tYOFsK27Ua45jcsUxzTiUB9-9ul/view?usp=sharing ✓ Self-prepared video on Setting up of Wheatstone bridge on meter bridge https://youtu.be/ANyjrEm-v0 ✓ Demonstration of Measurement of resistance using meter bridge http://amrita.olabs.edu.in/?sub=1&brch=6&sim=146&cnt=1 ✓ Engage students in solving numerical and conceptual questions 	<ul style="list-style-type: none"> • Students will learn to assemble the wheat stone bridge on Meter Bridge. • Draw circuit diagram. • On o-lab assemble circuit and record observation and find the unknown resistance • Solve numerical 	<p>Assessment as learning-</p> <ul style="list-style-type: none"> ✓ <u>Oral questions</u> <p>Example</p> <ol style="list-style-type: none"> 1. What is Principle of working of Meter Bridge 2. What is the condition for balanced wheatstone bridge? 3. Give one important precaution in the experiment
<p>Co-relation with other subject:</p>	<p>In electro chemistry principle of Wheatstone bridge is used to measure resistance of cell and using value of cell constant the conductivity of the solution can be calculated.</p>		
<p>Assessment for learning:</p>	<p>Home assignment</p> <p>https://drive.google.com/file/d/1rnmU0rLLWSadaQ6E0jPyXWheCEOZVuD2/view?usp=sharing</p>		

RESOURCES FOR STUDENTS

1. LESSON WISE ASSIGNMENT QUESTIONS https://drive.google.com/file/d/1GKJXzszgY1X_8FFXozCVfAt2vkkOR9yg/view?usp=sharing
2. STUDENT SUPPORT MATERIAL
https://drive.google.com/file/d/1-n1GandEWK_oacKg3bwHOYNInq-Ax2am/view?usp=sharing
https://drive.google.com/file/d/1G6zM5DyfQMGCpVxI_GctQZQ4tDFPdJ-Zk/view?usp=sharing
3. SET OF 10 SAMPLE PAPERS
<https://drive.google.com/file/d/1GnSvmZclcve4D09Gq1kP3HxuUtiLi7g9/view?usp=sharing>

4. DIKSHA PORTAL PHYSICS VOL.I

https://diksha.gov.in/resources/play/collection/do_3131034753990656001756?contentType=TextBook

5. DIKSHA PORTAL PHYSICS VOL.II https://diksha.gov.in/resources/play/collection/do_31310347540115456011088?contentType=TextBook

KENDRIYA VIDYALAYA SANGATHAN, REGIONAL OFFICE, RAIPUR

SPLIT UP SYLLABUS 2021-22

SUBJECT- CHEMISTRY

CLASS XII

For practical -

- (a) At least 03 Redox titrations, to be demonstrated by the teacher.
- (b) At least 05 salt analysis, to be demonstrated by the teacher.
- (c) At least 02 content-based experiments, to be demonstrated by the teacher.

MONTH	Number of		NAME OF THE UNIT/CHAPTER /TOPIC	Learning outcomes to be covered as per (TRALO)	SUGGESTED ACTIVITIES /PROJECT/PRACTICALS UNDER INTERNAL ASSESSMENT.	ASSIGNMENT FOR STUDENTS	IMP LINKS OF DIKSHA/ NCERT/YOU TUBE, ETC.
	Working days	Periods					
APRIL & MAY 2021	22	20	UNIT-I, II, III Chapter-1: The Solid state Chapter-2: Solutions Chapter-3: Electrochemistry	*Differentiates technical terms. *Classify various solids & solutions. *Explain scientific terms, laws etc. *Derives equations & calculates using the values given. *Applies the knowledge of electrochemical cells & electrolytic cells in daily life. * Draw graphs to understand colligative properties of the	VOLUMETRIC ANALYSIS Redox titrations (FAS vs KMNO ₄) using phenolphthalein and methyl orange indicators. (minimum 2 to 3 titrations using online labs) I MONTHLY TEST	1. Practice of MCQs through Google form. 2. Practice of Assertion/Reason type questions. 3. Practice of PBQs. 4. Practice of calculations based on formulae used. 5. Practice of plotting graphs showing colligative properties. 6. Practice of setup electrochemical cells.	THE SOLID STATE https://drive.google.com/file/d/1SWEwltxDW19mrCAGGUCCOG5zQk88vPvq/view?usp=drivesdk SOLUTIONS https://drive.google.com/file/d/14Bge5-zTFz3HY4Lpvq9pfrkO139Bv0Ia/view?usp=drivesdk ELECTRO CHEMISTRY https://drive.google.com/file/d/1x5N

				<p>solutions. *Relates processes & phenomena with causes & effects such as electrical & magnetic properties of solids.</p>		<p>gQzMc7ZjiWkUKYBDVRAKmk0Y8cmgl/view?usp=drivesdk</p>	
<p>JUNE & JULY 2021</p>	<p>34</p>	<p>22</p>	<p>UNIT-IV, V, VI Chapter-4: Chemical Kinetics Chapter- 5: Surface Chemistry Chapter-6: General principles & processes of isolation of elements.</p>	<p>*Understand the various concepts. *Explain scientific terms, laws etc. *Draws graphs to understand various concepts. *Derives equations & calculates using the values given. *Applies scientific concepts in daily life & solving problems. *Appreciates the contributions of ancient chemistry of India and its role in different spheres of life.</p>	<p><u>SALT ANALYSIS</u> At least 5 salt analysis to be demonstrated using online labs. II MONTHLY TEST</p>	<p>1. Practice of MCQs through Google form. 2. Practice of Assertion/Reason type questions. 3. Practice of PBQs. 4. Practice of rate of reaction, rate constant and half-life calculations. 5. Practice of differentiating various concepts of surface phenomenon. 6. Practice of various steps involved in extracting elements from ores and their chemistry.</p>	<p>CHEMICAL KINETICS https://drive.google.com/file/d/1609WCAB9eBpSEn4knylg-25hxM7fCTOn/view?usp=drivesdk SURFACE CHEMISTRY https://drive.google.com/file/d/14yZayzuKWdxkiq7CyIsx1B8u9SY9GwhT/view?usp=sharing GEN PRIN & PROC OF ISO OF ELEM https://www.slideshare.net/MukulKumar19/general-principles-and-processes-of-isolation-of-elements</p>

AUG 2021	24	14	UNIT- VII, VIII, IX Chapter-7: The p- block elements Chapter-8: d & f – block elements Chapter-9: Co-ordination compounds	*Differentiates technical terms/phenomena/ processes based on properties/ characteristics. *Relates processes & phenomena with causes/effects. *Explains scientific terms involving complex compounds. *Uses scientific conventions, symbols, chemical formulae, chemical equations as per IUPAC system.	SALT ANALYSIS At least 5 salts analysis to be demonstrated using online labs. III MONTHLY TEST	1. Practice of MCQs through Google form. 2. Practice of Assertion/Reason type questions. 3. Practice of PBQs. 4. Practice of structures and properties of compounds of p & d block elements. 5. Practice of writing electronic configurations and important features of these elements. 6. Practice of IUPAC nomenclature & isomerisms in coordination compounds.	P- BLOCK ELEMENTS https://drive.google.com/file/d/1fwTLfco1dKnpg4LH8aUpsFfOxUOJ6M4z/view?usp=drivesdk d- & f- BLOCK ELEMENTS https://drive.google.com/file/d/1O9vP9OuFcxuDyYh0AetDSOduplghoCM8/view?usp=drivesdk COORDINATION COMPOUNDS https://drive.google.com/file/d/1_no2hBoN_yCXZeBmncJqCYxy8s9yz1z/view?usp=drivesdk
SEPT 2021	24	20	UNIT- X, XI, XII Chapter-10: Haloalkanes & Haloarenes Chapter-11: Alcohols, phenols & ethers Chapter-12: Aldehydes, ketones & carboxylic acids	*Writes IUPAC nomenclature and structures. *Writes chemical equations. (specially name reactions) *Explains test of distinction between two organic compounds. *Understands how to convert one organic compound into another. *Explains the reason of distinguishing characteristics of organic compounds.	SALT ANALYSIS At least 5 salt analysis to be demonstrated using online labs. IV MONTHLY TEST	1. Practice of MCQs through Google form. 2. Practice of Assertion/Reason type questions. 3. Practice of PBQs. 4. Practice of IUPAC nomenclatures. 5. Practice of name reactions and mechanisms involved. 6. Practice of chemical tests to distinguish between two organic compounds. 7. Practice of conversions in two steps.	HALOALKANES & HALOARENES https://drive.google.com/file/d/1L0j9sa1oOcwOutGUAAE_bGuPNufR7BM/view?usp=drivesdk ALCOHOLS, PHENOLS & ETHERS https://drive.google.com/file/d/1GdpcVSmyJeW0hKpMLEyxV1bU6oUf3S_O/view?usp=drivesdk ALDEHYDES, KETONES & CARBOXYLIC ACIDS https://drive.google.com/file/d/10Ggx14Bay83vws7GvyV0XbUbwWifhxY3/view?usp=drivesdk
OCT 2021	16	16	UNIT- XIII, XIV Chapter-13: Amines	*Writes IUPAC nomenclature and structures. *Writes chemical equations. (specially name reactions)	SALT ANALYSIS At least 5 salt analysis to be	1. Practice of MCQs through Google form. 2. Practice of Assertion/Reason type questions.	AMINES https://drive.google.com/file/d/1QyBvAe3Zisv9OP-jXOSbJ4ZgxHEKXpd7/view?usp=drive

			Chapter-14: Biomolecules	<p>*Explains test of distinction between two organic compounds.</p> <p>*Understands how to convert one organic compound into another.</p> <p>*Explains the reason of distinguishing characteristics of organic compounds.</p> <p>*Draws structure of various biomolecules.</p> <p>*Prepares flow charts to classify biomolecules like carbohydrates, amino acids etc.</p> <p>*Appreciates & realizes the interface of chemistry with biology.</p> <p>*Exhibits creativity in designing models using eco friendly resources of DNA & RNA.</p>	demonstrated using online labs. HALF YEARLY EXAM.	<p>3. Practice of PBQs.</p> <p>4. Practice of IUPAC nomenclatures.</p> <p>5. Practice of name reactions and mechanisms involved.</p> <p>6. Practice of chemical tests to distinguish between two organic compounds.</p> <p>7. Practice of conversions in two steps.</p> <p>8. Practice of classification, comparisons, structures and biological functions of biomolecules.</p>	<p>sdk</p> <p>IMPORTANT ORGANIC CONVERSIONS</p> <p>https://drive.google.com/file/d/1UlrVz7PPoV9cnVSIIdA0zu9rqaHX9H0Cj/view?usp=drivesdk</p> <p>BIOMOLECULES</p> <p>https://drive.google.com/file/d/1yp-sRwDyOdD9OCj8aPjsgREjC4liNrn8/view?usp=sharing</p>
NOV. 2022	20	20	<p>UNIT-XV, XVI</p> <p>Chapter-15: Polymers</p> <p>Chapter-16: Chemistry in everyday life</p>	<p>*Draws structures of polymer molecules and various drugs.</p> <p>*Makes efforts to conserve environment using biodegradable detergents.</p> <p>*Makes investigatory projects towards green chemistry.</p> <p>*Applies scientific concepts in daily life and solving problems.</p> <p>*Appreciates the contributions of ancient chemistry of India and its role in different spheres of life.</p>	<p><u>CONTENT BASED EXPERIMENTS</u></p> <p><u>REVISION OF ENTIRE SYLLABUS</u></p>	<p>1. Practice of MCQs through Google form.</p> <p>2. Practice of Assertion/Reason type questions.</p> <p>3. Practice of PBQs.</p> <p>4. Practice of classification, structures, monomers and uses of polymers.</p> <p>5. Practice of definitions, uses, merits & demerits of using various chemicals in daily life.</p>	<p>POLYMERS</p> <p>https://drive.google.com/file/d/1TMgjhw3qJULLCodFv0FEfbKP4B6NqeXX/view?usp=sharing</p> <p>CHEM IN EVERYDAY LIFE</p> <p>https://drive.google.com/file/d/1K-ZhwF_ZkKOZekbT249yh8MOqgcUifq2/view?usp=sharing</p>

DEC 2022	15	15	I PRE BOARD EXAM & LESSON WISE IMP CONCEPTS.
JAN 2022	24	24	II PRE BOARD EXAM & PREP OF PRACTICAL EXAM
FEB 2022	20	20	AISSCE PRAC EXAM & TIME BOUND PRAC OF PREVIOUS YEAR BOARD PAPERS.

*** SUBJECT TEACHERS ARE REQUESTED TO COMPLETE THE SYLLABUS UPTO 15 OF NOVEMBER 2021.

*** INVESTIGATORY PROJECTS MAY BE ALLOTTED AS PER THE SUITABILITY AND CONVENIENCE OF THE STUDENTS.

*** Right click on the link and click open hyperlink to open the documents.

Prepared By **Mr. Wasim Khan PGT Chemistry KV Dungargarh**

ACADEMIC PLAN OF BIOLOGY :2021-22 CLASS-XII
SPLIT UP SYLLABUS 2021-22

Month	Number of working days	Number of periods	Name of the Unit / Chapter/Topic	Learning outcomes to be covered as per (TRALO) Mentioned Unit Wise Learning outcomes to be covered as per (TRALO)	Practical under internal assessment	Assignments	Links for reference
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APRIL	23	3	UNIT-6 CH-1 REPRODUCTION IN ORGANISMS	1. Identify and develop understanding of concepts, principles, theories, and laws governing the physical world around a biological entity.	<u>SLIDE PREPARATION-</u>	NCERT EXEMPLAR QUESTIONS	https://diksha.gov.in/play/collection/do_31310347538645811211491?contentId=do_3131262262789570561591 , https://diksha.gov.in/play/collection/do_31310347538645811211491?contentId=do_3131283059631226881963 , https://diksha.gov.in/play/collection/do_31310347538645811211491?contentId=do_313126233404030976144 , https://diksha.gov.in/play/collection/do_31310347538645811211491?contentId=do_3131262391250370561592
			SPORULATION,	2. Develop ability to acquire and use the methods and processes of science,	1. STUDY POLLEN GERMINATION ON SLIDE.	NCERT TEXT BOOK –BACK EXERCISE QUESTIONS	https://www.youtube.com/watch?v=uLXz1PLgCG
			FRAGMENTATION	3. Conduct experiments, also involving quantitative measurements in biology.	2. PREPARE A TEMPORARY MOUNT OF ONION ROOT TIP TO STUDY MITOSIS		
				4. develop scientific temper with respect to biological phenomena (objectivity, critical thinking, creative skills, freedom from fear and prejudice, etc.).			
				5. Connect biological concepts to real life problems and develop innovative problem-solving abilities to solve problems related to life situations through understanding of biological concepts.	<u>SPOTTING-</u>		

				1. FLOWER ADAPTATIONS		
				2. PERMANENT SLIDE OF POLLEN GERMINATION ON STIGMA		
				3. SLIDE OF T.S. OF TESTIS, OVARY.		
				4. SLIDE OF T.S. OF BLASTULA.		
				5. MEIOSIS THROUGH SLIDES		
	12	CH-2 SEXUAL REPRODUCTION IN FLOWERING PLANTS SIGNIFICANCE OF FRUIT AND SEED FORMATION		APRIL MONTHLY TEST	DIAGRAMS PRACTICE NCERT EXEMPLAR QUESTIONS BACK EXERCISE QUESTIONS	https://diksha.gov.in/play/collection/do_31310347538645811211491?referrer=utm_source%3Dmobile%26utm_campaign%3Dshare_content&contentId=do_31308591562860953612764 , https://diksha.gov.in/play/collection/do_31310347538645811211491?referrer=utm_source%3Dmobile%26utm_campaign%3Dshare_content&contentId=do_31308592097286553614105 , https://diksha.gov.in/play/collection/do_31310347538645811211491?contentId=do_3130879084939100161348 , https://diksha.gov.in/play/collection/do_31310347538645811211491?contentId=do_31308791768695603213143 https://www.youtube.com/watch?v=6UXGobXdZGA
	10	CH-3 HUMAN REPRODUCTION			DIAGRAMS OF THE CHAPTER TO BE PRACTISED, NCERT	https://diksha.gov.in/play/collection/do_31310347538645811211491?contentId=do_31308792099179724813145 ,

					EXEMPLAR QUESTIONS BACK EXERCISE QUESTIONS OF THE CHAPTER	https://diksha.gov.in/play/collection/do_31310347538645811211491?contentId=do_3130879251116195841358 , https://diksha.gov.in/play/collection/do_31310347538645811211491?contentId=do_31309287366386483211382 , https://diksha.gov.in/play/collection/do_31310347538645811211491?contentId=do_31309425544036352011826 , https://diksha.gov.in/play/collection/do_31310347538645811211491?contentId=do_31309426055393280011781 , https://diksha.gov.in/play/collection/do_31310347538645811211491?contentId=do_31309493374545100812150 https://www.youtube.com/watch?v=6UXGobXdZGA
		5	CH-4 REPRODUCTIVE HEALTH		NCERT EXEMPLAR QUESTIONS, BACK EXERCISE QUESTIONS FROM TEXT BOOK,CASE STUDIES RELATED TO INFERTILITY	https://diksha.gov.in/play/collection/do_31310347538645811211491?contentId=do_31311775647845580811178 , https://diksha.gov.in/play/collection/do_31310347538645811211491?contentId=do_3131177358992261121314 , https://diksha.gov.in/play/collection/do_31310347538645811211491?contentId=do_31311773594743603211169
			APRIL MONTHLY TEST(MM-30)			https://www.youtube.com/watch?v=6UXGobXdZGA

SUMMER VACATION WEF 3/5/2021 TO 20/6/2021

JUNE- JULY	8+9	15	UNT-7 CH- 5PRINCIPLES OF INHERITANCE	1.appreciate how concepts of biology evolve with time giving importance to its historical prospective	<u>SPOTTING- SETTING UP OF HOME LABORATORY-</u>	NCERT EXEMPLAR QUESTIONS BACK EXERCISE QUESTIONS FROM TEXT BOOK	https://diksha.gov.in/play/collection/do_31310347538645811211491?contentId=do_3131006696353382401595 , https://diksha.gov.in/play/collection/do_31310347538645811211491?contentId=do_3131006717622026241523 , https://diksha.gov.in/play/collection/do_31310347538645811211491?contentId=do_3131006718436966401886 , https://diksha.gov.in/play/collection/do_31310347538645811211491?contentId=do_3131006719557877761637 ,
			AND VARIATION- POLYGENIC	2. develop scientific temper with respect to biological phenomena (objectivity, critical thinking, creative skills, freedom from fear and prejudice, etc.).	6.MENDELIAN INHERITANCE USING SEEDS TRAPPING OF FRUIT FLIES AND STUDY OF LIFE CYCLE OF FRUIT FLIES	PRACTICE OF MONOHYBRID, DIHYBRID CROSSES AND RESULT INTERPRETATION	
			INHERITANCE, PLEIOTROPY,	3. nurture natural curiosity, aesthetic sense, and creativity in biological processes and phenomena.	7. PREPARED PEDIGREE CHARTS OF ANY ONE GENETIC TRAIT.		
			SEX DETERMINATIO N IN HONEY BEE,	4. Connect biological concepts to real life problems and develop innovative problem-solving abilities to solve problems related to life situations through understanding of biological concepts.	EXPERIMENT 4.STUDY THE ACTIVITY OF SALIVARY AMYLASE		

			COLOUR BLINDNESS, THALASSAEMIA	5. conduct experiments, also involving quantitative measurements in biology.			
				6. develop respect for human dignity and rights, equity and equality.			https://www.youtube.com/watch?v=6UXGobXdZGA
				7. Connect biological concepts to real life problems and develop innovative problem-solving abilities to solve problems related to life situations through understanding of biological concepts.	GAMIFICATION IN LEARNING https://create.kahoot.it/share/chapter-6-search-for-genetic-material-and-nucleosome/0f5d8252-342d-40af-9f86-b4fa9eac993d	NCERT EXEMPLAR QUESTIONS BACK EXERCISE QUESTIONS FROM TEXT BOOK	
JULY	17	15	CH-6 MOLECULAR BASIS OF INHERITANCE				https://diksha.gov.in/play/collection/do_31310347538645811211491?contentId=do_3131006899686440961580 , https://diksha.gov.in/play/collection/do_31310347538645811211491?contentId=do_3131006857783132161645 , https://diksha.gov.in/play/collection/do_31310347538645811211491?contentId=do_3131006858203873281579 , https://diksha.gov.in/play/collection/do_31310347538645811211491?contentId=do_3131006922240491521581 , https://diksha.gov.in/play/collection/do_31310347538645811211491?contentId=do_3131006922787635201744 , https://diksha.gov.in/play/collection/do_31310347538645811211491?contentId=do_3131006923336089601745
			RICE GENOME PROJECT				https://www.youtube.com/watch?v=6UXGobXdZGA https://www.youtube.com/watch?v=6UXGobXdZGA
			JULY MONTHLY TEST(MM-30)				

AUGU ST	9	10	CH-7 EVOLUTION EVIDENCE FROM EMBRYOLOGY, MOLECULAR EVIDENCE IN EVOLUTION,			NCERT EXEMPLAR QUESTIONS BACK EXERCISE QUESTIONS FROM TEXT BOOK	, https://diksha.gov.in/play/collection/do_31310347538645811211491?contentId=do_31310422991330508811587 , https://diksha.gov.in/play/collection/do_31310347538645811211491?contentId=do_31310423360591462411588 , https://diksha.gov.in/play/collection/do_31310347538645811211491?contentId=do_31310423964671180812355 , https://diksha.gov.in/play/collection/do_31310347538645811211491?contentId=do_31310424237898956811591 , https://diksha.gov.in/play/collection/do_31310347538645811211491?contentId=do_31310424415926681612344
			MODERN SYNTHETIC THEORY OF EVOLUTION, TYPES OF NATURAL SELECTION				https://www.youtube.com/watch?v=6UXGobXdZGA
AUGU ST	9	14	UNT-8 CH-8 HUMAN HEALTH AND DISEASES	1.Imbibe the values of honesty, integrity, cooperation, concern for life and preservation of environment.	<u>SPOTTING-</u> SURVEY OF COVID-19 SPREAD, PREVENTION, TREATMENT AND CONTROL	NCERT EXEMPLAR QUESTIONS BACK EXERCISE QUESTIONS FROM TEXT BOOK	https://diksha.gov.in/play/collection/do_31310347538645811211491?contentId=do_31320465406799872014194 , https://diksha.gov.in/play/collection/do_31310347538645811211491?contentId=do_3131148961375272961114 , https://diksha.gov.in/play/collection/do_31310347538645811211491?contentId=do_3131148969504604161312

			DENGUE, CHIKUNGUNYA	2. Develop respect for human dignity and rights, equity and equality.	8. COMMON DISEASE CAUSING ORGANISMS SPORTS INTEGRATED PROJECT- A STUDY ON VARIOUS DRUGS ABUSED BY SPORTS PERSONS AND REASONS FOR IT	COMPARATIVE STUDY OF COMMUNICABLE DISEASES DISCUSSED IN THE CHAPTER UNDER THE HEADS- CAUSAL ORGANISM, MODE OF TRANSMISSION, SYMPTOMS, TREATMENT, PRECAUTIONS, ANY OTHER FEATURE.	https://www.youtube.com/watch?v=6UXGobXdZGA
AUGUST	7	8	CH-9 STRATEGIES FOR ENHANCEMENT IN FOOD PRODUCTION	3. Connect biological concepts to real life problems and develop innovative problem-solving abilities to solve problems	<u>SPOTTING-</u> COLLECTION AND STUDY OF VARIOUS VARIETIES OF RICE AVAILABLE IN GROCERY SHOP, INTERVIEW OF ELDERLY PERSON ABOUT VARIETIES OF RICE THEN AND NOW	NCERT EXEMPLAR QUESTIONS BACK EXERCISE QUESTIONS FROM TEXT BOOK	https://diksha.gov.in/play/collection/do_31310347538645811211491?contentId=do_31320465776973414414210 , https://diksha.gov.in/play/collection/do_31310347538645811211491?contentId=do_31320466536477491216090 , https://diksha.gov.in/play/collection/do_31310347538645811211491?contentId=do_3131149013204828161277
			AUGUST MONTHLY TEST(MM-30)	4. conduct experiments, also involving quantitative measurements in biology.	9. CONTROLLED POLLINATION. AUGUST MONTHLY TEST		https://www.youtube.com/watch?v=6UXGobXdZGA

					COLOUR CHART PAPERS		5811211491?contentId=do_31310642824066662413356 https://www.youtube.com/watch?v=6UXGobXdZGA
SEPT EMBE R	10	15	CH-12 BIOTECHNOLOGY AND ITS APPLICATION, BIO PATENT STEM CELL TECHNOLOGY, BIOSAFETY ISSUES	2. Apply biological discoveries/ innovations in everyday life.	A STUDY ON PROPERTIES AND ROLE OF ALCOHOL AND SOAP ON EXTRACTION OF DNA AND CONTROL OF COVID-19 VIRUS	NCERT EXEMPLAR QUESTIONS BACK EXERCISE QUESTIONS FROM TEXT BOOK	https://diksha.gov.in/play/collection/do_31310347538645811211491?contentId=do_31310642984197324813314 , https://diksha.gov.in/play/collection/do_31310347538645811211491?contentId=do_31310643141722112013315 , https://diksha.gov.in/play/collection/do_31310347538645811211491?contentId=do_31310643329062502413316
			SEPTEMBER MONTHLY TEST (MM-30)	3. Integrate and interrelate the biological concepts with other areas of knowledge by underlying common principles. 4. Connect biological concepts to real life problems and develop innovative problem-solving abilities to solve problems	SEPTEMBER MONTHLY TEST		https://www.youtube.com/watch?v=6UXGobXdZGA
OCTO BER	7	10	UNIT-10 CH-13 ORGANISMS AND POPULATION		<u>SPOTTING-</u>	NCERT EXEMPLAR QUESTIONS BACK EXERCISE QUESTIONS FROM TEXT BOOK	https://diksha.gov.in/play/collection/do_31310347538645811211491?contentId=do_313114910727380992179 https://www.youtube.com/watch?v=6UXGobXdZGA

			ECOLOGICAL NICHE	1.appreciate how concepts of biology evolve with time giving importance to its historical prospective.	10.XEROPHYTIC ADAPTATIONS- TWO PLANTS & TWO ANIMALS		
				2. develop scientific temper with respect to biological phenomena (objectivity, critical thinking, creative skills, freedom from fear and prejudice, etc.).	11. AQUATIC ADAPTATION- TWO PLANTS & TWO ANIMALS		
OCTOBER	7	8	CH-14 ECOSYSTEM	3. nurture natural curiosity, aesthetic sense, and creativity in biological processes and phenomena.	<u>EXPERIMENT-</u>	NCERT EXEMPLAR QUESTIONS BACK EXERCISE QUESTIONS FROM TEXT BOOK	https://diksha.gov.in/play/collection/do_31310347538645811211491?contentId=do_3131149158453493761120 , https://diksha.gov.in/play/collection/do_31310347538645811211491?contentId=do_3131149501240115201129 , https://diksha.gov.in/play/collection/do_31310347538645811211491?contentId=do_3131149208470732801104
			HALF YEARLY EXAMINATION(MM-70)	4. imbibe the values of honesty, integrity, cooperation, concern for life and preservation of environment.	6 STUDY OF PLANT POPULATION DENSITY.		https://www.youtube.com/watch?v=6UXGobXdZGA
				5. develop respect for human dignity and rights, equity and equality.	7. STYDY OF PLANT POPULATION FREQUENCY.		
NOVEMBER	12	6	CH-15 BIODIVERSITY AND ITS CONSERVATION	6. Connect biological concepts to real life problems and develop innovative problem-solving abilities to solve problems related to life situations through understanding of biological concepts.	STUDY ON IMPORTANCE OF BIODIVERSITY(OF POTATO) WRT IRISH FAMINE	NCERT EXEMPLAR QUESTIONS BACK EXERCISE QUESTIONS FROM TEXT BOOK	https://diksha.gov.in/play/collection/do_31310347538645811211491?contentId=do_3131149525681930241295 , https://diksha.gov.in/play/collection/do_31310347538645811211491?contentId=do_31320467860410368016492

			RED DATA BOOK, RAMSAR SITES	7. conduct experiments, also involving quantitative measurements in biology.		https://www.youtube.com/watch?v=6UXGobXdZGA
NOVEMBER	12	6	CH-16 ENVIRONMENTAL ISSUES, CLIMATE CHANGE IMPACT AND MITIGATION		NCERT EXEMPLAR QUESTIONS BACK EXERCISE QUESTIONS FROM TEXT BOOK	https://diksha.gov.in/play/collection/do_31310347538645811211491?contentId=do_31320468733957734414975 , https://diksha.gov.in/play/collection/do_31310347538645811211491?contentId=do_3131149527396761601296 , https://diksha.gov.in/play/collection/do_31310347538645811211491?contentId=do_3131149570561638401239
			REVISION			https://www.youtube.com/watch?v=6UXGobXdZGA
DECEMBER			Preboard -I, Remediation	PREBOARD EXAMINATION-1		
Jan-22			Preboard –II, Remediation	PREBOARD EXAMINATION-2		
Feb-22			REVISION	AISSCE PRACTICAL EXAM		
Mar-22			AISSCE 2022			

THEORY			
Unit	Title	No. of Periods	Marks
VI	Reproduction	30	14
VII	Genetics and Evolution	40	18
VIII	Biology and Human Welfare	30	14
IX	Biotechnology and its Applications	30	10
X	Ecology and Environment	30	14
Total		160	70

OTHER USEFUL LINKS-

1. CASE BASED QUESTIONS LINK FOR ALL CHAPTERS- https://drive.google.com/file/d/174U7IQLloYSmm8tP9Wi_r2mB7GJlcbA0/view?usp=sharing
2. REASONING ASSERTION QUESTIONS LINK FOR ALL CHAPTERS- <https://drive.google.com/file/d/1oNLeWY89JxMtARIZspRSpHn5UQhAFYnT/view?usp=sharing>
3. MCQS LINK TO ALL CHAPTERS - https://drive.google.com/file/d/1QYxQRvgPx_1BbxczolvPDrHgTDo_zd2V/view?usp=sharing
4. PYBQS - <https://drive.google.com/file/d/1bQKe78YdTdBHFKEWvfZt4g733tLiv5ir/view?usp=sharing>
5. GRADED QUESTION PAPERS- https://drive.google.com/file/d/1AwWE0hUghD54nFvg8_fEzoGbsKXcTX_k/view?usp=sharing
6. LINK TO NOTES AS PROVIDED BY RO RAIPUR IN 2020- <https://docs.google.com/document/d/14xqjaSwQMSThmBGgCMeun8eUZ6F0Kp3q67LcWnprl9Q/edit?usp=sharing>
7. INTERACTIVE WORKSHEETS ON H5P- <https://biologyrevision2020.blogspot.com/p/links-to-h5p-interactive.html>
8. DIAGRAM BASED QUESTIONS LINK TO ALL CHAPTERS- <https://drive.google.com/file/d/17We1AqzmHZObdsH0DikLOVUPCn8DYCnk/view?usp=sharing>
9. SECTION-B SPOTTING OF PRACTICALS- https://drive.google.com/file/d/1nyJ8-uttEGsZu5f_HD6hAkIXJNsaCL5B/view?usp=sharing

CONDUCT OF ONLINE CLASSES

SL.NO	CHALLENGES FACED DURING ONLINE CLASSES IN PREVIOUS SESSION	ACTION PLAN TO OVERCOME IN THIS SESSION
1	LESS THAN 100PERCENT ATTENDANCE	Calling the parents and students and motivating towards learning
2	STUDENTS DONOT SWITCH ON THE CAMERA OR MIKE	counselling intermittently during the class and personal call
3	STUDENTS WHEN TOLD TO SPEAK LEAVE THE CLASS OR REPORT OF LAGGING VOICE	counselling intermittently during the class and personal call
4	STUDENTS JOIN THE CLASS AND ARE NOT ACTUALLY PRESENT	counselling intermittently during the class and personal call
5	STUDENTS DONOT SUBMIT THE NOTES, PROJECTS, ASSIGNMENTS ON TIME	counselling intermittently during the class and personal call
6	STUDENTS LEAVE THE STATION WITHOUT INTIMATION	Counselling of parents by personal call and in PTM
7	DATA EXHAUSTION AND NETWORK ISSUES	Parents to be counselled for sufficient data and better network or different network options. Topic taught is shared in classroom also
8	INABILITY OF PARENTS TO MONITOR THEIR WARDS	Counselling of parents by personal call and in PTM
9	LACK OF COMPUTER KNOWLEDGE/INABILITY OF STUDENTS TO MAKE PDF	Peer learning and asking students to pay attention when the process is explained in class and do self practice.

10 TIME MANAGEMENT

In counselling sessions students are guided to make daily time table and stick to it until there is an emergency

Signature of the Principal

MY STATEMENT OF TEACHING PHILOSOPHY

I believe the education is the basic human right and all children must get opportunities to gain education. At the same time I also believe that there are individual differences among students and they cannot learn at the same pace and cannot think and express in similar ways. Teaching is a process of learning from students, colleagues and parents. This is a lifelong process where continuous up gradation is must.

For me, education should aim at making my students capable of earning well and leading a decent life so that they do not have to struggle for fulfilling their basic needs. This would give them time to think for the betterment of society, take care of their children, their education. They should be able to apply their knowledge to real life situations and overcome the problems in a judicious manner. To be able to do this I link knowledge to real life, previous knowledge and other subjects. I ask a number of applicative questions while discussing the topics. I also ask questions which would make them think and ponder and go beyond the text book to search for the answers.

I during this lockdown period have also developed interest in doing small simple experiments in home laboratory to make the students also do the same to learn how the scientific enquiry is made in a step wise manner. This is also intended to develop in them the problem solving approach in a step wise fashion taking one variable at a time. Videos, power point presentations, kahoot, whiteboard, digital board and various multimedia platforms are being used to make teaching learning impressive while we are restricted to online mode. Being a Biology teacher, I also try to make students aware of various social evils, myths and superstitions so that they do not fall victims to such thoughts and propagate them further.

I provide congenial environment and encourage students to express themselves freely. I believe in accepting changes and setting an example before them. I also learn from my students. I use various techniques to discipline them, to make them timely complete the tasks like positive and negative motivation. This also is necessary for behavior modification and for value education.

Various techniques for assessment of the learning and to know the learning gaps are done. Regular oral questioning, reading practice, short tests, MCQs and CCT questions are asked to initiate young minds into critical thinking and evaluation. Various projects, quizzes, discussions, self assessment, peer assessment are also done for assessment.

My goal of teaching has been to make my students successful individuals, worthy for self, family, society and country. They should be able to work collaboratively, at the same time they should be able to think independently, take decisions and be a leader.

Geetu

PGT Biology

KV CISF Bhilai

SWOT ANALYSIS (TO BE DONE BY STUDENT, PARENT AND TEACHER)

Swot Analysis-The full form of SWOT is Strengths, Weaknesses, Opportunities, and Threats. The importance of SWOT analysis for a student is that it helps achieve a clear picture of where he/she stands. SWOT analysis also helps a student identify their improvement areas and in setting goals. Doing a SWOT analysis for oneself/ for student requires time and thought. Please be patient and fill in all the columns.

NAME OF STUDENT-

CLASS AND SECTION-

WHAT IS YOUR GOAL IN LIFE? _____

5. STRENGTHS-

- E. List the things you are good at-
- F. Identify things that help you when you have a problem-
- G. Mention the ways in which you stand out from the crowd-
- H. Mention your academic performance in the past three years-

6. WEAKNESSES-

- D. Note the areas where there is scope for improvement in your personality and life-
- E. Which area will you take up now for improvement and make it your strength-
- F. Which area of academics will you focus to improve your academic performance this year?

7. OPPORTUNITIES-

- D. After knowing your weaknesses and strengths now you mention the fields where you can excel. Mention all the areas where you have opportunities to excel-
- E. Shortlist the activities / areas as per your interest, strengths and weaknesses. List as many activities as you can achieve.
- F. Search if these opportunities are in the neighborhood and then get started-

8. THREATS-

- E. List the things that would go wrong while you are trying to achieve your goals –
- F. What are your fears / what scares you-?

G. What are the demotivating factors for you-

H. How do you think you can overcome your fears-?

CONCLUSION- Now we have done the SWOT analysis. You know your goal and where you stand currently. So decide what to prioritize. Write down your road map to achieve your goal. You can seek help of your elders in this process.

Biology LESSON PLAN CLASS XII

Topic/Lesson	3- HUMAN REPRODUCTION, 4-REPRODUCTIVE HEALTH
Period Required	10+5

Date of Commencement	16-04-21			
Date of Completion	30-04-21			
Gist of Lesson Focused skills/Competencies	Targeted learning outcomes (TLO)	Teaching learning activities planned for achieving the TLO using suitable resources and classroom management strategies	Assessment Strategies Planned	Co-relation with other subjects
Chapter-3 The Male Reproductive System, testes, Accessory glands and ducts ,External genitalia , Male germ cells, Sertoli cells, Leydig cells, Accessory ducts include Rete testis, Vasa efferentia, Epididymis, Vas deferens, Female Reproductive System, Ovaries, fallopian tubes, infundibulum, ampulla, Uterus, Cervix and Vagina, External Genitalia, Mammary Glands, Gametogenesis, spermatogenesis , spermiation, spermiogenesis. , oogenesis and its regulation Menstrual Cycle , follicular phase, ovulatory phase, luteal phase, menstrual phase Menopause, and menarche, Fertilisation and Implantation, site of fertilisation zygote., morula, Blastocyst, an inner cell mass, fate of three germ layers, Pregnancy, Parturition and Lactation, colostrum. Chapter-4 Amniocentesis , Birth Control, Natural Methods, Periodic abstinence, Coitus interruptus, Lactational amenorrhea Artificial Methods, Barriers, Intra uterine devices (IUDs), Oral contraceptive pills, Surgical methods, Medical Termination of Pregnancy (MTP), Sexually Transmitted Diseases (STDs), venereal diseases (VD), Gonorrhoea, Syphilis, Chlamydiasis, Genital herpes, Genital warts, Trichomoniasis, Hepatitis-B, AIDS, preventive measures and its treatments Infertility, reasons for infertility , Assisted Reproductive Technologies(ART), IVF, ZIFT , IUT, GIFT, ICSI, Artificial insemination	1. Relates processes and phenomena with causes and effects, such as menstruation and hygiene; pregnancy and embryonic development, etc. 2.Applies scientific terminology for organisms, processes, and phenomena based on internationally accepted conventions like seminiferous tubules, MTP,Amniocentesis. 3. explains efficiently systems, relationships, processes and phenomena like STD. 4. plans and conducts investigations and experiments to arrive at and verify the facts, principles, phenomena, or to seek answers to queries on their own.5. applies scientific concepts in daily life and solving problems, such as; maintain hygiene and sanitation during menstruation.6.appreciates technological applications and processes in Biology towards the improvement in the quality of life and sustainable development, such as population control.	Study of slides showing various stages of spermatogenesis and Oogenesis in mammalian testis and ovary, TS of blastula. Ppt. and videos on these lessons.	1.MCQs in Google form 2. April monthly test 3. Diagrams practice	CHEMISTRY-1.Seminal plasma has chemicals to help in transport of sperms, life of sperms. 2.Copper is used for contraception. 3. Various synthetic female sex hormones are used for contraception which are prepared in industries. 4. Colostrum is rich in vital nutrients and antibody to feed and protect the new born MATHEMATICS- 1. menstrual cycle goes in cyclical way and its knowledge is helpful in conception and contraception

Biology LESSON PLAN CLASS XII

Topic/Lesson	4. REPRODUCTIVE HEALTH(SEXUALLY TRANSMITTED DISEASES)			
Period Required	1(40minutes)			
Date of Commencement	27-04-21			
Date of Completion	27-04-21			
General Aims	<ol style="list-style-type: none"> To impart knowledge about STDs. To make aware about precautions to prevent STDs and if diseased then early detection and treatment is possible 			
Instructional objectives	<ol style="list-style-type: none"> Students will know about the STDs, mode of transmission , general symptoms, treatment, complications if not treated early and completely.. Students will know that these are more common among adolescents who are experimenting and precautions to prevent the STDs. Students will be aware of STDs and get immediate treatment rather than hiding the STDs. 			
Applications	<ol style="list-style-type: none"> Students create awareness about early detection and treatment of STDs completely.. Students takeprecautions to prevent the STDs. Students are aware of STDs and get immediate treatment rather than hiding the STDs. 			
Teaching Aids Used during online class	White/green/smart board, marker/chalk/stylus, Power Point presentation on the topic, laptop/cell phone			
Previous Knowledge	<ol style="list-style-type: none"> Students know about AIDS which is also an STD. Students know about various communicable diseases in detail. 			
Gist of Lesson Focused skills/Competencies	Targeted learning outcomes (TLO)	Teaching learning activities planned for achieving the TLO using suitable resources and classroom management strategies	Assessment Strategies Planned	Co-relation with other subjects

<p>Infections or diseases which are transmitted through sexual intercourse are collectively called sexually transmitted infections (STI) or venereal diseases (VD) or reproductive tract infections (RTI). Gonorrhoea, syphilis, genital herpes, chlamydia, genital warts, trichomoniasis, hepatitis-B and AIDS . Except for hepatitis-B, genital herpes and HIV infections, other diseases are completely curable if detected early and treated properly. Early symptoms of most of these are minor and include itching, fluid discharge, slight pain, swellings, etc., in the genital region. If not timely treated STDs lead to complications later, which include pelvic inflammatory diseases (PID), abortions, still births, ectopic pregnancies, infertility or even cancer of the reproductive tract. Precautions to prevent STDs-</p> <p>(i) Avoid sex with unknown partners/multiple partners. (ii) Always try to use condoms during coitus. (iii) In case of doubt, one should go to a qualified doctor for early detection and get complete treatment if diagnosed with infection.</p>	<p>1. Explains efficiently systems, relationships, processes and phenomena like STD. 2. plans and conducts investigations and experiments to arrive at and verify the facts, principles, phenomena, or to seek answers to queries on their own. 3. applies scientific concepts in daily life and solving problems, such as; maintain hygiene and sanitation during STDs . 4. appreciates technological applications and processes in Biology towards the improvement in the quality of life and sustainable development, such as treatment of STDs.</p>	<p>Ppt. on the topic.</p>	<p>Assessment as learning- 1. What do you understand by the term STD? 2. Mention the common symptoms of STDs. 3. Mention the STDs caused by-</p> <p>a. Bacteria b. Virus c. Protozoa</p> <p>4. Mention the reasons why STDs become serious and untreatable? 5. Mention the precautions which can help to prevent STDs. 6. Name the STDs for which there is no treatment /cure.</p>	<p>CHEMISTRY- Proper medication at the early stages help to get rid of STDs completely. Other STDs can be controlled and quality of life can be improved with proper medication. These drugs control infection.</p>
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Recapitulation- KAHOOT GAME-

<https://create.kahoot.it/share/reproductive-health/573b02d3-9cb7-43b6-8e1c-60f8aadeb419>

Homework- 1. Read the topic from NCERT book . 2. Write answers to exemplar questions related to STDs.

Signature of Subject Teacher

Signature of the Principal

Prepared By

Mrs Geetu PGT Biology
KV CISF Bhilai

ACADEMIC PLAN OF MATHEMATICS :2021-22 CLASS-XII

SPLIT -UP SYLLABUS(By U K Kurrey, PGT Mathematics, K V No1 Raipur, Shift-1)

Month	Number of working days	Number of periods	Name of the Unit / Chapter/Topic	Learning outcomes to be covered as per (TRALO)	Suggested Projects/ Labactivities under internal Assessment	Assignment for Students	Assessment plan	Important link Diksha/ NCERT/ YouTube video link and Ppt
APRIL- MAY	21	15	Relations and Functions: -Types of relations: reflexive, symmetric, transitive and equivalence relations. One to one and onto functions, composite functions, inverse of a function.	Identifies different types of relations and functions.	Activity 1: To verify that the relation R in the set L of all lines in a plane, defined by $R = \{(l, m) : l \perp m\}$ is symmetric but neither reflexive nor transitive	1. Multiple Choice Questions. 2. Give the Case study question related to topic. 3. Exercise which are given in textbook. 4. Question from Exemplar NCERT. 5. Questions from last ten-year CBSE.	Monthly test -April	https://diksha.gov.in/play/col/lection/do_31307361013557657613661?contentId=do_312986222100078592156 https://diksha.gov.in/play/col/lection/do_31307361013557657613661?contentId=do_31307447995461632018049
APRIL- MAY		15	Inverse Trigonometric Functions: Definition, range, domain, principal value branch. Graphs of inverse trigonometric functions Elementary properties of inverse trigonometric functions.	Explores the values of different inverse trigonometric functions	Activity 2: To draw the graph of $\sin^{-1} x$, using the graph of $\sin x$ and demonstrate the concept of mirror reflection (about the line $y = x$)	1. Multiple Choice Questions. 2. Give the Case study question related to topic. 3. Exercise which are given in textbook.		https://diksha.gov.in/play/col/lection/do_31307361013557657613661?contentId=do_3130887661196410881354
JUNE	9	13	Matrices: Concept, notation, order, equality, types of matrices, zero and identity matrix, transpose of a matrix, symmetric and skew symmetric matrices. Operation on matrices: Addition and	Evolves the idea of matrices as a way of representing and simplifying		1. Multiple Choice Questions. 2. Give the Case study question		https://diksha.gov.in/play/col/lection/do_31307361013557657613661?contentId=do_31309369853601382411598

			<p>multiplication and multiplication with a scalar. Simple properties of addition, multiplication and scalar multiplication. On- commutativity of multiplication of matrices and existence of non-zero matrices whose product is the zero matrix (restrict to square matrices of order 2) Matrices: Concept of elementary row and column operations. Invertible matrices and proof of the uniqueness of inverse, if it exists; (Here</p>	<p>mathematical concepts</p>		<p>related to topic. 3.Exercise which are given in textbook. 4.Question from Exemplar NCERT. 5.Questions from last ten year CBSE.</p>		
JULY	25	20	<p>Determinants: Determinant of a square matrix (up to 3 x 3 matrices), properties of determinants, minors, co-factors and applications of determinants in finding the area of a triangle. Adjoint and inverse of a square matrix. Consistency, inconsistency and number of solutions of system of linear equations by examples, solving system of linear equations in two or three variables (having unique solution) using inverse of a matrix.</p>	<p>Evaluates determinants of different square matrices using their properties.</p>		<p>1. Multiple Choice Questions. 2.Give the Case study question related to topic. 3.Exercise which are given in textbook. 4.Question from Exemplar NCERT. 5.Questions from last ten-year CBSE.</p>	<p>Monthly test -July</p>	<p>https://diksha.gov.in/play/col-lection/do_31307361013557657613661?contentId=do_31309369859475865611791</p>
		15	<p>Continuity and Differentiability: Continuity and differentiability, derivative of composite functions, chain rule, derivative of inverse trigonometric functions, derivative of implicit functions. Concept of exponential and logarithmic functions. Derivatives of logarithmic and exponential functions. Logarithmic differentiation, derivative of functions expressed in parametric forms. Second order derivatives. Rolle's and Lagrange's Mean Value Theorems (without proof) and their geometric interpretation.</p>	<p>Demonstrates ways to relate differentiability and continuity of a function with each other.</p>	<p>Activity 3: To establish a relationship between common logarithm (to the base 10) and natural logarithm (to the base e) of the number x. Activity 4: To verify Lagrange's Mean</p>	<p>1. Multiple Choice Questions. 2.Give the Case study question related to topic. 3.Exercise which are given in textbook. 4.Question from Exemplar NCERT. 5.Questions from last ten-year CBSE.</p>		<p>https://diksha.gov.in/play/col-lection/do_31307361013557657613661?contentId=do_31309369870829977611356</p>

					Value Theorem.			
AUGUST	24	16	Applications of Derivatives: Applications of derivatives: rate of change of bodies, increasing/decreasing functions, tangents and normal, use of derivatives in approximation, maxima and minima (first derivative test motivated geometrically and second derivative test given as a provable tool). Simple problems (that illustrate basic principles and understanding of the subject as well as real-life situations)		Activity 5: To understand the concepts of local maxima, local minima and point of inflection. Activity 6: To verify that amongst all the rectangles of the same perimeter, the square has the maximum area	1. Multiple Choice Questions. 2. Give the Case study question related to topic. 3. Exercise which are given in textbook. 4. Question from Exemplar NCERT. 5. Questions from last ten-year CBSE.	Monthly test - August	https://diksha.gov.in/play/col-lection/do_31307361013557657613661?contentId=do_31309369892889395211548
AUGUST		20	Integrals: Integration as inverse process of differentiation. Integration of a variety of functions by substitution, by partial fractions and by parts, Evaluation of simple integrals of the following types and problems based on them. Definite integrals as a limit of a sum, Fundamental Theorem of Calculus (without proof). Basic properties of definite integrals and evaluation of definite integrals.	(1) Develops the processes in Integral calculus based on the ideas of differential calculus learnt earlier. (2) Problem of finding function when where derivative is given	Activity 7: To evaluate the definite integral as the limit of a sum and verify it by actual integration	1. Multiple Choice Questions. 2. Give the Case study question related to topic. 3. Exercise which are given in textbook. 4. Question from Exemplar NCERT. 5. Questions from CBSE SP		https://diksha.gov.in/play/col-lection/do_31310347538065817611320?contentId=do_3130887667275776001201

SEPTEMBER	24	15	Applications of the Integrals: Applications in finding the area under simple curves, especially lines, circles/ parabolas/ellipses (in standard form only), Area between any of the two above said curves (the region should be clearly identifiable)	Applies the concepts of Integral calculus to calculate the areas enclosed by curves.		1.Exercise which are given in textbook. 2.Question from Exemplar NCERT. 3.Questions from CBSE SP	Monthly test-Sept	https://diksha.gov.in/play/col/lection/do_31310347538065817611320?contentId=do_3130887668797931521358
			Differential Equations: Definition, order and degree, general and particular solutions of a differential equation. Formation of differential equation whose general solution is given. Solution of differential equations by method of separation of variables, solutions of homogeneous differential equations of first order and first degree. Solutions of linear differential equation of the type	Develops the concepts of differential equations using the ideas of differential	PROJECT 1: - Formation of differential equation to explain the process of cooling of boiled water to a given room temperature	1. Multiple Choice Questions. 2.Give the Case study question related to topic. 3.Exercise which are given in textbook. 4.Question from Exemplar NCERT.		https://diksha.gov.in/play/col/lection/do_31310347538065817611320?contentId=do_31309369934747238411599
OCTOBER	16	10	Vectors: Vectors and scalars, magnitude and direction of a vector. Direction cosines and direction ratios of a vector. Types of vectors (equal, unit, zero, parallel and collinear vectors), position vector of a point, negative of a vector, components of a vector, addition of vectors, multiplication of a vector by a scalar, position vector of a point dividing a line segment in a given ratio. Definition, Geometrical Interpretation, properties and application of scalar (dot) product of vectors, vector (cross) product of vectors, scalar triple product of vectors	Constructs the idea of vectors and their properties and relates them to earlier learnt concepts in different areas of mathematics such as geometry, coordinate geometry etc.	Activity 8: To verify that angle in a semi-circle is a right angle, using vector method.	1.Exercise which are given in textbook. 2.Question from Exemplar NCERT. 3.Questions from last ten-year CBSE.	Half Yearly Exam.	https://diksha.gov.in/play/col/lection/do_31310347538065817611320?contentId=do_31309369944129536011601

		15	Three - dimensional Geometry: Direction cosines and direction ratios of a line joining two points. Cartesian equation and vector equation of a line, coplanar and skew lines, shortest distance between two lines. Cartesian and vector equation of a plane. Angle between (i) two lines, (ii) two planes, (iii) a line and a plane. Distance of a point from a plane.	Evolves newer concepts in three-dimensional geometry from that learnt earlier, in the light of vector algebra, such as, direction cosines, equations of lines and planes under different conditions etc.	Activity 9: To verify that the angle between two planes is the same as the angle between their normal.	1. Multiple Choice Questions. 2. Give the Case study question related to topic. 3. Exercise which are given in textbook. 4. Question from Exemplar NCERT. 5. Questions from last ten-year CBSE.		https://diksha.gov.in/play/col/lection/do_31310347538065817611320?contentId=do_31310420492643532811868
NOVEMBER	21	10	Linear Programming: Introduction, related terminology such as constraints, objective function, optimization, different types of linear programming (L.P.) problems, mathematical formulation of L.P. problems, graphical method of solution for problems in two variables, feasible and infeasible regions (bounded or unbounded), feasible and infeasible solutions, optimal feasible	Formulates and solves problems related to maximization/ minimization of quantities in daily life situations using systems of	PROJECT 2: To minimize the cost of the food, meeting the dietary requirements of the staple food of the adolescent students	1. Multiple Choice Questions. 2. Give the Case study question related to topic. 3. Exercise which are given in textbook. 4. Question from Exemplar NCERT.	Revision Test/Mock Test	https://diksha.gov.in/play/col/lection/do_31310347538065817611320?contentId=do_31310420354329804812381

			solutions (up to three non-trivial constraints).	inequalities/inequations learnt earlier.	of your school.	5. Questions from last ten-year CBSE.		
		20	Probability: Conditional probability, multiplication theorem on probability, independent events, total probability, Bayes' theorem, Random variable and its probability distribution, mean and variance of random variable. Binomial probability distribution. Mock test	Calculates conditional probability of an event and uses it to evolve Bayes' theorem and multiplication rule of probability.	Activity 10: To explain the computation of conditional probability of a given event A, when event B has already occurred, through an example	1. Multiple Choice Questions. 2. Give the Case study question related to topic. 3. Exercise which are given in textbook. 4. Question from Exemplar NCERT. 5. Questions from last ten-year CBSE.		https://diksha.gov.in/play/col/lection/do_31310347538065817611320?contentId=do_31310420549114265611727
DECEMBER	19	27	Revision work, Teaching -test & Re-teaching re-test on the weak areas in which students done mistakes frequently	Remedial classes to be organized for improvement of PB marks	Discussion on the CBSE sample papers and pattern.		First Pre board	https://www.cbse.gov.in/cbsenew/question-paper.html
JANUARY	24	36	Revision work, Teaching -test & Re-teaching re-test on the weak areas in which students done mistakes frequently Revision work,	Remedial classes to be organized for improvement of PB marks	Discussion on the last five-year CBSE question papers.		Second Pre board	https://www.cbse.gov.in/cbsenew/question-paper.html
FEBRUARY	15	22	Revision work, Teaching -test & Re-teaching re-test on the weak areas in which students done mistakes frequently Revision,	Remedial classes to be organized for improvement of PB marks	Final revision and motivational classes be organized		Internal Assessment Examination	

MICRO LESSON PLAN

DATE	1/07/2021	UNIT	Relation and Functions	DATE OF COMMENCEMENT	1/07/2021
CLASS	XII	TOPIC	Types of relations	DATE OF COMPLETION	
SUBJECT	Mathematics	NO OF PERIODS REQUIRED	1	DURATION	40 min
Contents	1.Definition of relation 2.Types of relation-Reflexive, symmetric and transitive	General Aims	1.To understanding the concept of types of relation 2. To understanding the concept of equivalence relation		
Instructional Objectives	Students will be able to understand the Reflexive, symmetric and transitive relation.	Application	Students should apply the knowledge in equivalence relations and real life		
Teaching aids used in online class	The following teaching aids will be used: 1. PPT 2. WhatsApp and You tube 3.laptop, smart board, internet connection	Previous knowledge	1 What do you mean by Cartesian product 2 Domain and range of relation 3 Number of subsets of relations		
Announcement of topic	Today we are study about types of relations	Presentation	By power point presentation of relation and function		
Points	Targeted learning outcomes (TLO) (BY Teacher)	Activity	Teaching learning activities planned for achieving the TLO using suitable resources and classroom management strategies (by students)	Assessment as learning	Home Work

Relation and Function (i)Introduction (ii) Types of Relations- reflexives, symmetric, transitive	In this lesson, students can learn what relation from one set to another set is. Then types of relation-reflexive, symmetric and transitive	Short answer type questions based on relation: 1.If $L1 \parallel L2$ and $L2 \parallel L3$, what is relation between $L1$ and $L3$?	Reflexive Relation: A relation R on a set A is called reflexive if $(a, a) \in R$ holds for every element $a \in A$ Symmetric Relation: A relation R on a set A is called symmetric if $(b,a) \in R$ holds when $(a,b) \in R$ Transitive Relation: A relation R on a set A is called transitive if $(a,b) \in R$ and $(b,c) \in R$ then $(a,c) \in R$ for all $a,b,c \in A$ Student should able to understand the concept of equivalence relation and solve the related problems.	How can you define reflexive, symmetric and transitive?	After completion of lesson, mcq test should be conducted through google form.
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MACRO LESSON PLAN

CLASS	XII	NO OF PERIODS REQUIRED	15
SUBJECT	Mathematics	DATE OF COMMENCEMENT	1/08/2021

TOPIC		Application of Derivatives		DATE OF COMPLETION	
				15/08/2021	
Gist of Lesson	Targeted learning outcomes (TLO)	Teaching learning activities planned for achieving the TLO using suitable resources and classroom management strategies	Assessment Strategies Planned	Home Assignment	Co-relation with other subject
Focused skills/Competencies Application of Derivatives: (i) Introduction (ii) Increasing and Decreasing Functions (iii) Tangents and Normal (iv) Maxima and Minima (iv)Rate of change of quantity (v) Approximation	In this lesson students can learn about applications of Derivatives. How we use derivatives in our real life. They learn how to find intervals in which given function is increasing or decreasing. Later on they use derivatives to find eq of tangent & normal and to find maxima & minima.	1. Explain the concept of rate of change of quantity, increasing decreasing function, approximation, tangents and normal, maxima or minima. 2. Involve the students the use autograph develops the knowledge of draw the graph of tangent lines in the different real valued functions.	1.Online MCQ test through google form. 2.Conduct of online quiz competition on the topic nature and purpose of business. 3. Give case study to the students related to the topic planning to identify features, process and limitations by quoting the lines. 4. conduct of class test	The following work was assigned: 1. Exercise which are given in the book 2. Some question from other books	Applications of the derivative in various disciplines, e.g., in Engineering, science, social science, and many other fields.

ACADEMIC PLANNER 2021-22

SPLIT-UP SYLLABUS

SUB: INFORMATICS PRACTICES (065)

CLASS - XII (NEW SYLLABUS) (Session 2021 - 22 onward)

DISTRIBUTION OF MARKS

Unit No	Unit Name	Marks	Periods Theory	Periods Practical	Total Period
1	Data Handling using Pandas and Data Visualization	30	50	40	90
2	Database Query using SQL	25	30	22	52
3	Introduction to Computer Networks	7	12	2	14
4	Societal Impacts	8	14	-	14
	Project	-	-	10	10
	Practical	30	-	-	-
	Total	100	106	74	180

MONTH- WISE DISTRIBUTION

Month	Number of		NAME OF THE UNIT / CHAPTER / TOPIC	Learning outcomes to be covered as per (TRALO)	SUGGESTED ACTIVITIES /PROJECT/PRACTICALS UNDER INTERNAL ASSESSMENT.	Assignments	Link for further reference
	Working Days	Periods					
APRIL	23	23	<p>Unit 1: Data Handling using Pandas and Data Visualization</p> <p>Data Handling using Pandas -I</p> <p>Introduction to Python libraries- Pandas, Matplotlib.</p> <p>Data structures in Pandas - Series and data frames.</p> <p>Series: Creation of series from nd-array, dictionary, scalar value; mathematical operations; series attributes, head and tail functions; selection, indexing and slicing.</p> <p>Data Frames: creation of data frames from dictionary of series, list of dictionaries, text/CSV files, display, iteration. Operations on rows and columns: add add(insert /append) , select, delete (drop column and row),rename, Head and Tail functions, indexing using labels, Boolean indexing; joining, merging and concatenation of data frames</p> <p>Importing/Exporting Data between CSV files and Data</p>	<ul style="list-style-type: none"> What is python programming and what is the concept of Libraries Explains the more popular data handling Libraries like Pandas and Matplotlib. They are able to install the libraries in their system with proper system path The Series and DataFrame is created using list, dictionaries and 	<p>Worksheets after each sub topic</p> <p>MCQ based questions with total 10 marks and 10 MCQ questions</p>	<p>Create a series from list and array.</p> <p>Create a series with custom index values.</p> <p>Display the part of series using head/tail or using slicing.</p> <p>Create a data frame for examination result and display row labels, column labels data types of each column and the dimensions</p> <p>Import data from a local/remote csv file. Display the result.</p> <p>Filter out rows based on different criteria such as</p>	<p>https://drive.google.com/drive/folders/1640RMympt-k4cTSb040snYN3XwohX36U?usp=sharing</p>

			Frames. (for practical only)	<ul style="list-style-type: none"> other datatypes Know the use of Different types of Maths functions in the questions 		duplicate rows and export the data as csv file.	
MAY-JUNE	10	10	<p>Data handling using Pandas – II</p> <p>Descriptive Statistics: max, min, count, sum, mean, median, mode, quartile, Standard deviation, variance.</p> <p>Data Frame operations: Aggregation, group by, Sorting, Deleting and Renaming Index, Pivoting.</p>	<ul style="list-style-type: none"> The Series and DataFrame is created using list, dictionaries and other datatypes Know the use of Different types of Maths functions in the questions 	<p>Worksheets after each sub topic</p> <p>MCQ based questions with total 10 marks and 10 MCQ questions</p>	<p>Perform vector operations on two series objects.</p> <p>Perform arithmetic op on two dataframes objects</p> <p>Join two dataframe objects together by two different techniques.</p> <p>Find the sum of each column, or find the column with the lowest mean.</p> <p>Subtract the mean of a row from each element of the row in a Data Frame.</p> <p>Subtract the mean of a row from each element of the row in a Data Frame.</p>	<p>https://drive.google.com/drive/folders/1640RMympt-k4cTSb040snYN3XwohX36U?usp=sharing</p>
JULY	25	25	<p>Data handling using Pandas – II</p> <p>Data Frame operations:</p> <p>Handling missing values – dropping and filling.</p> <p>Importing/Exporting Data between MySQL database</p>	<ul style="list-style-type: none"> Create Series, Data frames and apply various operations. Design SQL queries using aggregate 	<p>Worksheets after each sub topic</p> <p>One 10 1 marks each</p>	<p>Replace all missing values in a data frame with a 99999.</p> <p>Importing and exporting data between pandas and</p>	<p>https://drive.google.com/drive/folders/1640RMympt-k4cTSb040snYN3XwohX36U?usp=sharing</p>

			and Pandas Data Visualization : Purpose of plotting, drawing and saving of plots using Matplotlib (line plot, bar graph). Customizing plots: color, style (dashed, dotted), width; adding label, title, and legend in plots	functions. <ul style="list-style-type: none">● Import/Export data between SQL database and Pandas.	MCQ based questions One project on creating addressbook using python on SQL database	MySQL database	aring
AUGUST	25	25	Data Visualization: drawing and saving of bar graph, , pie chart, and scatter plot and histogram, pie chart, frequency polygon, box plot Customizing plots: color, style (dashed, dotted), width; adding label, title, and legend in plots Customizing plots: color, style (dashed, dotted), width; adding label, title, and legend in plots	<ul style="list-style-type: none">● Student will get the concept of Graphs to represent data in pictures● Visualize data using relevant graphs● Using properties of Graphs to display the graph in proper way	Worksheets after each sub topic One 10 1 marks each MCQ based questions	Given the school result data, analyse the performance of the students on different parameters, e.g subject wise or class wise. For the Data frames created above, analyze and plot appropriate charts with title and legend.	-do-
SEPTEMBER	24	24	Unit 2: Database Query using SQL Math functions: POWER (), ROUND (), MOD (). Text functions: UCASE ()/UPPER (), LCASE ()/LOWER (), MID ()/SUBSTRING ()/SUBSTR (), LENGTH (), LEFT (), RIGHT (), INSTR (), LTRIM (), RTRIM (), TRIM (). Date Functions: NOW (), DATE (), MONTH (), MONTHNAME (), YEAR (), DAY (), DAYNAME (). Aggregate Functions: MAX (), MIN (), AVG (), SUM (),	<ul style="list-style-type: none">● Database and its use● How database works● Design SQL queries using aggregate functions.● Different functions in Database to	Worksheets after each sub topic One 10 1 marks each MCQ based questions	Take data of your interest from an open source (e.g. data.gov.in), aggregate and summarize it. Then plot it using different plotting functions of the Matplotlib library	

			<p>COUNT (); using COUNT (*).</p> <p>Querying and manipulating data using Group by, Having, Order by.</p> <p>Operations on Relations - Union, Intersection, Minus, Cartesian Product, JOIN (Cartesian Join, Equi Join, Natural Join</p>	<p>extract filtered data from the huge database</p> <ul style="list-style-type: none"> • Use of Set and Relational Concept of Maths to get complex data in simple form 			
OCTOBER	17	17	<p>Unit 2: Database Query using SQL</p> <p>Querying and manipulating data using Group by, Having, Order by.</p> <p>Operations on Relations - Union, Intersection, Minus, Cartesian Product, JOIN (Cartesian Join, Equi Join, Natural Join</p> <p>Unit 3: Introduction to Computer Networks</p> <p>Introduction to networks, Types of network: LAN, MAN, WAN.</p> <p>Network Devices: modem, hub, switch, repeater, router, gateway</p> <p>Network Topologies: Star, Bus, Tree, Mesh. Introduction to Internet, URL, WWW and its applications- Web, email, Chat, VoIP.</p> <p>Website: Introduction, difference between a website and webpage, static vs dynamic web page, web server and hosting of a website.</p> <p>Web Browsers: Introduction, commonly used browsers, browser settings, add-ons and plug-ins, cookies.</p>	<ul style="list-style-type: none"> • Database queries to serch using set and subset of data • SQL queries for 	<p>Worksheets after each sub topic</p> <p>One 10 1 marks each MCQ based questions</p> <p>20 networking 1 marks MCQ questions</p>	<p>Create a student table with the student id, name, and marks as attributes where the student id is the primary key. Insert the details of a new students.</p> <p>Use the select command to get the details of the students with marks more than 80.</p> <p>Find the min, max, sum, and average of the marks in a student marks table.</p> <p>Find the total number of customers from each country in the table (customer ID, customer Name, country) using group by.</p> <p>Create a new table (order ID, customer Name, and</p>	

							order Date) by joining two tables (order ID, customer ID, and order Date) and (customer ID, customer Name, contact Name, country).	
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NOVEMBER	15	15	<p>Unit 3: Introduction to Computer Networks</p> <p>Website: Introduction, difference between a website and webpage, static vs dynamic web page, web server and hosting of a website.</p> <p>Web Browsers: Introduction, commonly used browsers, browser settings, add-ons and plug-ins, cookies.</p> <p>Unit 4: Societal Impacts</p> <p>Digital footprint, net and communication etiquettes, data protection, intellectual property rights (IPR), plagiarism, licensing and copyright, free and open source software (FOSS), cybercrime and cyber laws, hacking, phishing, cyber bullying, overview of Indian IT Act.</p> <p>E-waste: hazards and anagement.</p> <p>Awareness about health concerns related to the usage of technology</p>	<ul style="list-style-type: none"> Learn terminology related to networking and internet. Identify internet security issues and configure browser settings. Understand the impact of technology on society including gender and disability issues 	<p>Worksheets after each sub topic</p> <p>MCQ based questions with total 10 marks and 10 MCQ questions</p>	<p>Download, install and configure browser.</p>	
DECEMBER	20	20	Revision and PER BOARDS 1 & 2	<ul style="list-style-type: none"> CBSE AISSEC questions & solutions 	<p>CBSE sample paper execution by the students using google classroom or any online mode</p>		
JANUARY	23	23	PER BOARDS 2 & 3 PROJECTS Revision	<ul style="list-style-type: none"> The students are able to do a small live project work using python and CSV or SQL 			

JANUARY & FEBRUARY	20	20	Revision & AISSCE Practical Examination				
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ASSESSMENT SCHEDULE

FOR CLASS XII

S.No.	Test	Prospective Dates	Marks / Type of Questions
1	Monthly Test	April	20 MARKS MCQ
2	Monthly Test	July Last Week	30 MARKS MCQ 10 MARKS DESCRIPTIVE TYPE IN GOOGLE CLASSROOM
3	Monthly Test	August 2 ND Week	30 MARKS MCQ 10 MARKS VIVA OVER THE PHONE OR LIVE CLASS 10 MARKS DESCRIPTIVE TYPE IN GOOGLE CLASSROOM
4	Monthly Test	September 3 RD WEEK	50 MARKS THEORY PAPER
5	Half Yearly	October 3 rd week	50 Marks Descriptive Type 20 Marks MCQ Type
6	1 st Per-Boards	December	70 Marks Test with Topics taught upto November 2 nd Week
7	2 nd Per-Boards	January Just after the winter Break	70 Marks Test with complete syllabus
8	3 rd Per-Boards	January Last Week	70 Marks Test with Topics

ASSIGNMENT FOR THE STUDENTS

i. LESSON WISE LINK FOR FURTHER REFERENCE

S.NO	TOPIC	STUDY MATERIAL/VIDEO
1	REVISION(LIST, DICTIONARY, etc.)	https://www.youtube.com/playlist?list=PLEpRPHYH815qLZx9u-eTrqYqyz7sknrCo
2	PYTHON PANDAS SERIES	https://www.youtube.com/watch?v=7XXDCxkMQfs
3	HOW TO RUN PYTHON PANDAS IN MOBILE VS LAPTOP	https://youtu.be/boad8P8QLMw
4	ACCESSING ELEMENTS IN SERIES	https://youtu.be/8-wc7lvHITM
5	NCERT BOOK PANDAS SERIES	https://youtu.be/iS55b6lly4E
6	MATHEMATICAL OPERATION IN SERIES	https://youtu.be/RPIMULtQ4Ng
7	SLICING, SELECTION, ACCESSING IN SERIES	https://youtu.be/dq40m2BUQkQ
8	HEAD, TAIL, COUNT FUNCTION	https://youtu.be/UK1S6AypN7E
9	SERIES ATTRIBUTES	https://youtu.be/ZFI5zBR9Wco
10	PANDAS SERIES IMPORTANT QUESTION	https://youtu.be/vbFW8-6Dwoc
11	CBSE QUESTION BANK PANDAS SERIES	https://youtu.be/4YTf9PRNoG0
12	PANDAS IMPORTANT BOARD QUESTIONS	https://youtu.be/vrkKLCEzw3w
13	DATAFRAME PART 1	https://youtu.be/0c-IS70nCA0
14	DATAFRAME TO CSV	https://youtu.be/CDSmAkvlZBg
15	CSV TO DATAFRAME	https://youtu.be/ffEn5zN1go8
16	DATAFRAME IMPORTANT BOARD QUESTIONS	https://youtu.be/XX11jW_9yGk
17	Mathematical operations	https://www.youtube.com/watch?v=IPSxKd6HfQo
18	Data Visualization(Matplotlib)	MATPLOTLIB TUTORIALS DATA VISUALIZATION USING PYPLOT CLASS 12 INFORMATICS PRACTICES - YouTube
19	MYSQL IMPORTANT QUESTIONS	https://youtu.be/ft2IUHODmGI
20	NETWORKING BOARD QUESTIONS	https://youtu.be/9zXFapVrftU
21	12 IP PRACTICAL FILE	https://youtu.be/QHgK1Tt3eK4
22	12 IP PROJECT E-GOV	https://www.youtube.com/watch?v=TqxcsSokSa4
23	12 IP PRACTICAL BOARD QP	https://youtu.be/F5r-lk4FRV4
24	CBSE SQP COMPLETE SOLUTION	https://youtu.be/lwVCqYFUjms

ii. Lesson wise Link from the DIKSHA portal (N/A)

iii. Lesson wise few Questions (related to the Learning Outcome)

CBSE SQP SOLVED COMPLETE SOLUTION PLAYLIST	https://www.youtube.com/playlist?list=PLEpRPHYH815r1sG1swY_2RwwwTAv9QOaB
CBSE SQP SOLVED COMPLETE SOLUTION-1	https://www.youtube.com/watch?v=lwVCqYFUjms
CBSE SQP SOLVED COMPLETE SOLUTION-2	https://www.youtube.com/watch?v=GXFAMjK6JY&list=PLEpRPHYH815r1sG1swY_2RwwwTAv9QOaB
CBSE SQP SOLVED COMPLETE SOLUTION-3	https://www.youtube.com/watch?v=XXI1jW_9yGk&list=PLEpRPHYH815r1sG1swY_2RwwwTAv9QOaB&index=3
CBSE SQP SOLVED COMPLETE SOLUTION-4	https://www.youtube.com/watch?v=ft2IUHODmGI&list=PLEpRPHYH815r1sG1swY_2RwwwTAv9QOaB&index=7
CBSE SQP SOLVED COMPLETE SOLUTION-5	https://www.youtube.com/watch?v=vrkKLCEzw3w

- iv. Hard copy of the material for the students not having proper devices and connectivity (Share link for the material).
https://drive.google.com/file/d/1ptCDdLZ_OWfnTi29Bdsa9oiYFoxYhapl/view?usp=sharing

CONDUCT OF ONLINE CLASSES

- i. Problem/challenges faced during the previous academic session (Subject Specific).
- a. Technical Problems
- Slow internet Connection
 - The Software Platform Used is not made for teaching purpose specifically for.
- b. Class related :-
- Teachers Issue's
 - Because of Physical Distance unable to interact in real time. There is a delay in responses and moreover is not able to feel the student's mood on the topic.
 - The Teaching done in the class is more tend to become monotonous as the topic is shown to the students using computer screen and they try to note them first and they are not able to discuss freely in the e-classroom.
 - Students Issue's
 - Since the students are in their home so the physical diversion are high in their classes like no separate place to take class. During class the background sound and noise from student home are regular issue.

2. Many students' parents do not afford separate device for e-classes. This gets a problem as they are not regular to the classes.
3. Spending more time on mobile phones may harm their health.

c. Problems Related to Proper Assessments of the Students-

- i. Unavailability or paid services of proper platform to do fair assessment.
- ii. Project Development is not feasible on mobile phones that are part of curriculum.

ii. Action Plan to overcome those challenges during the current academic session.

a. For Technical issues

- i. More recorded videos and audios for the students so that they can go through the matter in their own time wise.
- ii. Recording of videos lectures may be given in CD/Pen-drives to students.
- iii. More channel for the communications like Podcast or Blogger can be used more effectively

b. For Teaching Process Related issues

- i. Use of platform like jamboard or whiteboard app for live interaction with the students so that we can allow them to write the answer or concept in real time. This will help the teacher to clear the doubt then and there
e.g. In Python the student can be asked to write the statement to declare a variable for integer. He can write the syntax in jamboard and the all other can give their input. The teacher can then correct the statement if any correction is needed.

SWOT ANALYSIS

<p>STRENGTHS</p> <ul style="list-style-type: none"> ● Learning from the Safety of Home ● Learning by their own comfort ● Make the student lean at their own speed 	<p>OPPORTUNITIES</p> <ul style="list-style-type: none"> ● Make the student lean at their own speed ● Better use of the Platform ● New ways to make the student understand like by videos and Animation
<p>WEAKNESS</p> <ul style="list-style-type: none"> ● Hardware and Software compatibility Matrix ● Network Issue ● Missing eye contact with the children and group interaction 	<p>THREATS</p> <ul style="list-style-type: none"> ● Class Readiness ● Writing Abilities ● Physically sitting and posture of the students

PREPARATION OF LESSON PLAN

Lesson plan for class XII IP

Class/Section: XII D

Subject: I.P.

Chapter: Unit 1: Data Handling using Pandas -Series

No. of periods:33

Date of Commencement: 01/04/2021

Expected date of Completion: 30/06/2021

Actual date of Completion: 30/06/2021

List of Lesson Focused skills / Competencies	Targeted learning outcomes (TLO)	Teaching learning activities planned for achieving the TLO using suitable resources and classroom management strategies	Assessment Strategies Planned	Co-relation with other subjects
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<p>Unit 1: Data Handling using Pandas –I</p> <p>Focused Skills -Understanding, Knowledge, Identification, Application:</p> <p>Introduction to Python libraries- Pandas, Matplotlib. Data structures in Pandas - Series and Data Frames.</p> <p>Series: Creation of Series from – ndarray, dictionary, scalar value; mathematical operations; Head and Tail functions; Selection, Indexing and Slicing.</p>	<p>Understands the basic concepts of python programming using pandas data structure like series and data frames Knows uses of various programming syntax Identifies type of programming paradigm</p> <p>Applies the concept practically</p>	<p>Use of e-content: e-book, PowerPoint presentation, images and videos.</p> <p>MLL:</p> <p>Q1. Acronym for CSV is</p> <p>Q2. What are the advantages of CSV file formats?</p> <p>Q3. Write a program that reads from a CSV file where the separator character is '\$'. Read only the first 5 rows in your dataframe. Give column headings as ItemName, Quantity, Price. Make sure to read the first row as data and not as column headers.</p> <p>HOT:</p> <p>Q1. Write a menu driven program in python to create series and dataframe using numbers.</p> <p>Q2. WAP to read details such as item, sales made in a dataframe and then store this data in a CSV file.</p>	<p>Individual Task Group</p> <p>Task Quiz</p> <p>Questionnaire</p> <p>Demonstration Method</p> <p>Monthly test</p>	<p>Mathematics</p>
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Date: 04/04/2021

Name and Signature of the Teacher

Principal

LESSON PLAN(MICRO -TEACHING)

NAME OF THE TEACHER : -----

DESIGNATION : PGT (INFORMATICS PRACTICES) CLASS : XII

DATE : _____

DURATION:40 MINUTES

SUBJECT : INFORMATICS PRACTICES

LESSON : PANDAS LIBRARY

INSTRUCTIONAL OBJECTIVES :

GENERAL OBJECTIVES

TO UNDERSTAND THE CONCEPT OF STORAGE OF DATA IN LIBRARY'S LIKE PANDAS

SPECIFIC OBJECTIVES

THE ADVANTAGE AND DISADVANTAGES OF DIFFERENT MEMORY STORAGE ALGORITHM OR LIBRARIES.

(**LEARNING OUTCOMES**) AT THE END THE CHILD WILL BE ABLE TO :

TO ACQUIRE TECHNICAL SKILLS – WHERE AND HOW TO USE SEQUENTIAL DATA IN REAL WORLD QUESTIONS.

TEACHING METHODOLOGIES/STRATEGIES FOLLOWED:

1. INTERACTION – EVERYONE OR PRIVATE CHAT IN GOOGLE MEET
2. LECTURE AND PRATICAL SITUATION DISCUSSION WITH THE STUDENTS.
- 3.WORKSHEETS – INCLUDING MCQS

TEACHING AIDS & LEARNING ACTIVITIES

Teaching & Learning Materials/Aids used:

Video	https://www.youtube.com/watch?v=7XXDCxkMQfs
Aids	Google Meet , Laptop and Internet Connectivity

MICRO LESSON PLAN FORMAT-

	Content / Gist of the section of the topic	Teacher's Activities	Student's Activities	Assessment (Formative)	Learning Out comes	Time
Introduction	Interaction – Recap of List and Tuples	Eliciting Answers from students.	Responding to the questions.	1. Why do we use Pandas Libraries in place of List or dictionaries ? 2. What a data structure for Data Handling ?	Recollect the Python Basic DataTypes.	10 M
Development of the concept through various activities/ experiences	Try to create a 2 Dimensional Data using List and then do the aggregate math functions	Let the students create a table of marks for any 10 students with IP subject marks	Children create the table .	Create the table in using series	Understand the Use of Libraries Analyse the advantage of series over list or dictionaries	20M
Evaluation / Assessment for learning	I. Create the series using pandas code any submit it in the private chat box? II. Create the marks slip with list and dictionary. Then check all the different operations in data list to identify the advantage and disadvantage of the datatype ?					10 M

**TEACHING PHILOSOPHY STATEMENTS
KENDRIYA VIDYALAYA**

1. INTRODUCTION

My teaching philosophy statements are the culmination of many years of teaching experience in the field of information and Computer technology. As experience is the best teacher, I have come to the conclusion that, generally, the current teaching methods and styles are needed to be modified to produce not only more effective learners, but also to make the learning process more enjoyable and meaningful. Constructing my philosophy statements has helped me identify individual styles, priorities as well as objectives in guiding my students. I believe that my teaching philosophy statements will set a strong foundation for my teaching goals. By using the following guidelines, I hope all of us will be able to formulate their own teaching philosophy statements and take pride in your profession. As i found that Teaching is an art and different individuals have various artistic styles of teaching and learning. Each teacher has his or her own creative and artistic way of teaching.

2. BELIEFS ABOUT KNOWLEDGE AND UNDERSTANDING OF THE LEARNER (CONCEPTUALIZATION OF LEARNING)

My own education philosophy statements are embodied within the Constructivism framework. Constructivism is a paradigm of learning that describes the process of knowledge formation. In constructivist learning, students learn actively rather than wait passively for the teacher to spoon-feed them with information. **Constructivists** believe that one has to adapt to the environment to acquire knowledge. In the process, one reshapes the acquired knowledge and creates new knowledge. Constructivist learners acquire knowledge by blending their present and the past experiences to make new discoveries. To learn the constructivist's way, the learner should make sense of things instead of accepting information at its face value. Indeed, learners are encouraged to internalize and reshape information, transforming it through active observation (Liaw, 2004). The information transformation must be meaningful. By activating his cognitive processing system, the learner will be able to organize his thoughts into logical representation by bridging the newly learnt knowledge with that already acquired or prior knowledge. According to constructivists, learning is a mental construction which takes place collectively. In the constructivist classroom, learning is facilitated by students themselves.

3. STRATEGIES (WHAT DO YOU DO?) METHODOLOGY

It is all about interaction to find solutions to a given problem. Students are regularly called by phone or chat box . They are also encouraged to speak about their indigenes ideas. This helps in constructing the concept or Knowledge about the subject or Topic. Students also are found to enjoy learning much more compared to their counterparts in traditional classrooms. Hence, prior to constructing my philosophy of teaching, I posed the following questions to myself:

1. How does the i link the topic to real world situation?
2. How do people link the same problem with their own world?
3. How should i teach?
4. How do i motivate the unmotivated learner?
5. What is my role as a teacher?
6. What is the role of my students?
7. What are my prime objectives as the leader in the class?
8. What are the viable concepts and styles of my teaching?
9. What learning outcomes can i anticipate?
10. How do i measure the success of my students?

4. BIBLIOGRAPHY

1. Guidance from the Whatapp Group create by Our Head guide or mentor Shri Bhoop Singh Sir
2. Guidance from corrdinator Madam Sunita Khirbat and Other fellow team members.
3. Guidance from my Principal Sir, Shri N K Sinha Sir for his workshop on STP

Prepared By
Shri.Raju Dixit PGT (CS) KV Manendragarh

KENDRIYA VIDYALAYA SANGATHAN
RAIPUR REGION
SPLIT-UP SYLLABUS
SESSION 2021-22

CLASS: XII

SUBJECT: COMPUTER SCIENCE (083)

MONTH	Number of		NAME OF THE UNIT/CHAPTER/TOPIC	Learning outcomes to be covered as per (TRALO)	SUGGESTED ACTIVITIES /PROJECT/PRACTICALS UNDER INTERNAL ASSESSMENT.	Assessment for Students	Important Links
	Working days	Periods					
April- May	24	20	<p>Unit 1: Programming and Computational Thinking (PCT-2)</p> <ul style="list-style-type: none"> Revision of the basics of Python (Covered in Class XI) Functions:types of function (built-in functions, functions defined in module, user defined functions), creating user defined function, arguments and parameters, default parameters, positional parameters, function returning value(s), flow of execution, scope of a variable 	<p>Student will be able to understand the basic Concepts of the Python(XI) :</p> <p>Student will be able to understand the about functions</p> <ul style="list-style-type: none"> ✓ Built in functions ✓ Module based functions ✓ User defined functions how to write them ✓ Scope of parameters ✓ Mutable & immutable objects passed to functions 	<p>Quiz 1: https://forms.gle/kG2mQo8cTkRFFUD86</p> <p>Quiz 2: https://forms.gle/zRwVMArjEs8RoiS7</p> <p>Suggested Practical Question:</p> <ol style="list-style-type: none"> Write a function in python to check a number whether it is a prime or not. Write a function to check a number it is palindrome or no 	<ul style="list-style-type: none"> Gave one word questions from class XI syllabus Output based questions from functions. 	<p>REVISION TOUR:https://www.youtube.com/playlist?list=PLEpRPHYH815qLZx9u-eTrqYqyz7sknrCo</p> <p>OPERATOR PRECEDENCE: https://www.youtube.com/watch?v=7kiYMU1tmGk</p> <p>FUNCTION:https://www.youtube.com/watch?v=AnMrdFbu21g</p> <p>FUNCTION OUTPUT:</p>

			(global scope, local scope) . • Monthly Test	✓ Diff. methods of Passing parameters	3. Write a function to calculate compound interest. 4. Write a program to search any word in a given string/ sentence. Note: Teacher should make online quizzes using different platform during online classes.		https://diksha.gov.in/pl ay/content/do_31276264076587008012516DE FAULT PARAMETERS: https://www.youtube.c om/watch?v=8ZbbID9So mU GLOBAL VS LOCAL SCOPE: https://www.youtube.c om/watch?v=TB3AUjsFi v4
June - July	32	25	Unit 1: Programming and Computational Thinking (PCT-2) • File handling: Introduction to files, types of files (Text file, Binary file, CSV file), relative and absolute paths . • Text file: opening a text file, text file open modes (r, r+, w, w+, a, a+), closing a text file, opening a file using with clause, writing/appending data to a text file using write() and writelines(), reading from a text file using read(), readline() and readlines(), seek and tell methods, manipulation of data in a text file. • Binary File: basic operations on a binary file: open using file open modes (rb, rb+, wb, wb+, ab, ab+), close a binary file, import pickle	Student will be able to understand the Concept of file handling. • File • Types • Text, Binary and CSV • Modes of file:- r,w,r+,w+,a,a+,x • Function related with text file:- open(),close(),read(),readline(),readlines(),write(),writelines(),flush(),seek(),tell()	Link for Quiz 1 https://drive.google.com/file/d/1-00EyYyFkBGbzpjJKwrlEd3LpgA-8rie/view?usp=sharing Link for Online Quiz 2 https://forms.gle/epvSuNU1tnowQ8Q96 Suggested Practical Question: 1. Write a program to read and display file content line by line with	• Gave questions for read text file and find different component of text file. • Gave questions for read binary file and apply condition on binary data. • Gave study based	Text File: https://www.youtube.c om/watch?v=dPK5YXVQ7P4&list=PLEpRPHYH815qqa9us8L9DVOkyVf1zLEih&index=35 Count vowels,consonants,upper,lowercase: https://www.youtube.c om/watch?v=JfVVrAAYPkA Binary file: https://www.youtube.c om/watch?v=fXI53YQg5II Update in binary file:

			<p>module, dump() and load() method, read, write/create, search, append and update operations in a binary file .</p> <ul style="list-style-type: none"> • CSV File:import csv module, open / close csv file, write into a csv file using csv.writerow() and read from a csv file using csv.reader() . • Python libraries: creating python libraries . • Monthly Test 		<p>each word separated by '#'. 2. Write a program to read the content of file and display the total number of consonants, uppercase, vowels and lower case characters. 3. Write a program to create binary file to store Rollno and Name, Search any Rollno and display name if Rollno found otherwise "Rollno not found". 4. Write a program to create binary file to store Rollno, Name and Marks and update marks of entered Rollno.</p> <p>Note: Teacher should make online quizzes using different platform during online classes.</p>	<p>questions of CSV file. CSV file: Python Libraries:</p>	<p>https://www.youtube.com/watch?v=u74nUWvT3Jo&list=UUOK0IlsbqY_x0kubDCOYUkA&index=11 https://www.youtube.com/watch?v=srJS7LY4kWQ https://www.youtube.com/watch?v=vvCV2LK9E1s&t=10s</p>
August	22	35	<p>Unit 1: Programming and Computational Thinking (PCT-2)</p> <ul style="list-style-type: none"> • Recursion:simple programs with recursion: sum of first n natural numbers, factorial, fibonacci series. • Idea of efficiency: number of comparisons in Best, Worst and 	<p>Student will be able to understand the Concept of Stack :</p> <ul style="list-style-type: none"> ➤ Overflow ➤ Underflow ➤ Top 	<p>Link for Online Quiz 1 https://forms.gle/9XxU2Wk5g2rNhGfW6 Link for Online Quiz 2 https://forms.gle/yG5sS2EF</p>	<ul style="list-style-type: none"> • Gave recursive programming. • Gave programming on stack and 	<p>Recursion: https://youtu.be/EiIpZfpd2dw Idea of efficiency : https://youtu.be/iHieYtgtlYU Data Structure:</p>

			<p>Average case for linear search.</p> <ul style="list-style-type: none"> • Data Structure: Stack, operations on stack (push & pop), implementation of stack using list. Introduction to queue, operations on queue(enqueue,dequeue, is empty, peek, is full), implementation of queue using list. • Monthly Test 	<ul style="list-style-type: none"> ➤ PUSH ➤ POP ➤ Applications of Stack <p>Student will be able to understand the Concept of Stack:-</p> <ul style="list-style-type: none"> ❖ Concept of Queue ❖ Implementation of Queue using List ❖ Insertion of elements in Queue ❖ Deletion of elements in queue <p>Applications of queues</p>	<p>qutWQhd6A</p> <p>Suggested Practical Question:</p> <ol style="list-style-type: none"> 1. Write a program to print fibonacci series using recursion. 2. Write a recursive python program to test if a string is palindrome or not. 3. Write a menu based program to perform the operation on stack in python. 4. Write a menu based program to perform the operation on queue in python. <p>Note: Teacher should make online quizzes using different platform during online classes.</p>	<p>queue application</p> <p>https://youtu.be/HTwm0zwGz1I</p> <p>Stack and Queue: https://youtu.be/o1alyr4ypZU</p>
Sept	21	18	<p>Unit 2: Computer Networks (CN)</p> <ul style="list-style-type: none"> • Evolution of networking: Introduction to computer networks, evolution of networking (ARPANET, NSFNET, INTERNET) • Data communication 	<p>Student will be able to understand the evolution of Networking along with basics of Computer Networking.</p>	<p>MCQ's Questions</p> <p>(Teacher can select questions and make Online Quiz using Google Forms etc.)</p> <p>https://drive.google.com/file/d/1CJfSUYiGmrDPkII9VdI-</p>	<ul style="list-style-type: none"> • Gave study based question of network creation • Gave one <p>Growth of computer Networking: https://diksha.gov.in/play/collection/do_31277389783181721618115?contentId=do_3127722656665026561</p>

			<p>terminologies: concept of communication, components of data communication (sender, receiver, message, communication media, protocols), measuring capacity of communication media (bandwidth, data transfer rate), IP address, switching techniques (Circuit switching, Packet switching)</p> <ul style="list-style-type: none"> • Transmission media: Wired communication media (Twisted pair cable, Co-axial cable, Fiber-optic cable), Wireless media (Radio waves, Micro waves, Infrared waves) • Network devices (Modem, Ethernet card, RJ45, Repeater, Hub, Switch, Router, Gateway, WIFI card) • Network topologies and Network types: types of networks (PAN, LAN, MAN, WAN), networking topologies (Bus, Star, Tree) • Network protocol: HTTP, FTP, PPP, SMTP, TCP/IP, POP3, HTTPS, TELNET, VoIP, wireless/mobile communication protocol such as GSM, GPRS and WLL • Mobile telecommunication technologies: 1G, 2G, 3G, 4G and 	<p>Student will learn</p> <ul style="list-style-type: none"> ➤ Switching Techniques <ul style="list-style-type: none"> ○ Circuit Switching ○ Packet Switching ➤ Basic terminologies in Data Communication ➤ Transmission media <ul style="list-style-type: none"> ○ Guided Media <p>Unguided Media</p> <p>Student will be able understand the concept of Network devices:</p> <ul style="list-style-type: none"> ❖ NIC ❖ Modem ❖ RJ45 Connector ❖ Ethernet Card ❖ Router & Bridge ❖ Hub & Switch ❖ Gateway ❖ Wi-Fi Card <p>Student will be able to understand the Concept of Computer Network:</p> <ul style="list-style-type: none"> ➤ Mobile 	<p>XieABJ2IHCd5/view?usp=sharing</p> <p>Collection of All CBSE Board Questions of Networking (Teacher can create Assignment / Tests / Worksheets for assessment using this Question bank)</p> <p>https://drive.google.com/file/d/1sPaht-p8E9cAZy356OtDUZJ2FLpd1_cE/view?usp=sharing</p> <p>HOTs / Long Answers Questions</p> <p>https://drive.google.com/file/d/1FZ8zwP2ws7R33eNTM1NQZnsyS5ungP5/view?usp=sharing</p> <p>Link for Online Quiz</p> <p>https://forms.gle/R6y6enkdHgSNckPA</p> <p>Note: Teacher should make online quizzes using different platform during online classes.</p>	<p>world questions</p> <ul style="list-style-type: none"> • Gave explanation based questions 	<p>3046</p> <p>Introduction to Computer Networks: https://diksha.gov.in/playlist/content/do_31277226447297740813161</p> <p>PAN, LAN, MAN: https://diksha.gov.in/playlist/collection/do_31279267549561651213242?contentId=do_31283183998923571212491</p> <p>Computer Network Question Bank: https://diksha.gov.in/playlist/content/do_31328332202103603214598</p> <p>Network Examples and Protocol: https://diksha.gov.in/playlist/content/do_31277226690871296013223</p>
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			5G • Monthly Test	Telecommunication Technologies- 1G, 2G, 3G, 4G and 5G			
October	4	2	<p>Unit 2: Computer Networks (CN) contd.</p> <ul style="list-style-type: none"> Introduction to web services: WWW, Hyper Text Markup Language (HTML), Extensible Markup Language (XML), domain names, URL, website, web browser, web servers, web hosting <p>• Monthly Test</p>	<p>Student will be able understand the concept of Network topology & types of Network:</p> <ul style="list-style-type: none"> ❖ Comparison of LAN MAN, WAN and PAN <p>Student will be able to understand the Concept of Computer Network:</p> <ul style="list-style-type: none"> ➤ website, web browser, web servers, web hosting 	<p>Link Worksheet-1: https://drive.google.com/file/d/1Xjbvd0zJvo5XGtrCoxj7XstJxmdyzxPS/view?usp=sharing (1/2 Marks Question based on CBSE)</p> <p>Link for Worksheet-2 https://drive.google.com/file/d/1IyGj2-07MgCrgfvFe2qs0eVrWnYXNmlq/view?usp=sharing (4 Marks CBSE Questions)</p> <p>Link for Online Quiz 1 https://docs.google.com/forms/d/e/1FAIpQLSekqqq9hVD2jPWeje8jvh506nezBt_zjF0zd2O04HruBdaalQ/viewform?vc=0&c=0&w=1</p> <p>Note: Teacher should make online quizzes using different platform during online classes.</p>	<ul style="list-style-type: none"> Gave one world questions and definition. 	<p>Introduction to web Services: https://youtu.be/WfaXL LNhbR8</p>
October	12	8	<p>Unit 3: Data Management</p> <ul style="list-style-type: none"> Database concepts:Introduction to database concepts and its need . 	<p>Student will be able to understand the Concept of Database and Structured Query Language.</p> <ul style="list-style-type: none"> ➤ Data Definition Language, 	<p>MCQ Based worksheet 1 https://docs.google.com/document/d/1ghP2najcmpDgO9EeGGrL00QEmsvuns6FaRoQOebFg1l/edit?usp=sharing</p>	<ul style="list-style-type: none"> Gave difference-based question on different 	<p>DATABASE CONCEPTS : https://diksha.gov.in/play/content/do_312762</p>

		<ul style="list-style-type: none"> • Relational data model: relation, attribute, tuple, domain, degree, cardinality, keys (candidate key, primary key, alternate key, foreign key) . • Structured Query Language: introduction, Data Definition Language and Data Manipulation Language, data type (char(n), varchar(n), int, float, date), constraints (not null, unique, primary key), create database, use database, show databases, drop database, show tables, create table, describe table, alter table (add and remove an attribute, add and remove primary key), drop table, insert, delete, select, operators (mathematical, relational and logical), aliasing, distinct clause, where clause, in, between, order by, meaning of null, is null, is not null, like, update command, delete command, aggregate functions (max, min, avg, sum, count), group by, having clause, joins: cartesian product on two tables, equi-join and natural join . 	<ul style="list-style-type: none"> ➤ Data Query Language ➤ Data Manipulation Language <p>Student will be able to understand the concept of MySQL as RDBMS and understand:</p> <ul style="list-style-type: none"> ➤ Creation of database in MYSQL ➤ Data Types in MySQL ➤ Create Table ➤ Alter Table ➤ Drop Table ➤ Brief idea aboutSQL Functions ➤ Scalar functions ➤ Math Functions ➤ Date and Time Functions 	<p>Worksheet 2</p> <p>https://docs.google.com/document/d/17rYm4OMl4Rd3-4lCjDvS4QwtoQZG6npAk7dY4wrVo4M/edit?usp=sharing</p> <p>Worksheet 3</p> <p>https://docs.google.com/document/d/1KAKW-hE9dMRpfpzrBQ4C1MpEa87OM9fbvVteb7ZgIO4/edit?usp=sharing</p> <p>Link for Online Quiz 1</p> <p>https://forms.gle/uZPE9QzTnNuqQ4yw6</p> <p>Link for Online Quiz 2</p> <p>https://forms.gle/1J5nJ5QboFfTnfbX8</p> <p>Suggested Practical Question:</p> <p>1.Queries using DISTINCT, BETWEEN, IN, LIKE, IS NULL, ORDER BY, GROUP BY, HAVING.</p>	<p>keys.</p> <ul style="list-style-type: none"> • Gave SQL based questions 	<p>65680256204812557</p> <p>MySQL Installation:</p> <p>https://diksha.gov.in/pl/ay/content/do_31277224811582259212969</p> <p>Simple Queue in SQL& table creation:</p> <p>https://youtu.be/dDgSI38zQgg</p> <p>SQL (SA):</p> <p>https://diksha.gov.in/pl/ay/content/do_3130704259832053761651</p> <p>SQL(VL):</p> <p>https://diksha.gov.in/pl/ay/content/do_3130704300253757441509</p>
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			<ul style="list-style-type: none"> Half yearly 		<p>2. Queries for Aggregate functions- SUM(), AVG(), MIN(), MAX(), COUNT().</p> <p>Note: Teacher should make online quizzes using different platform during online classes.</p>		
November	12	5	<p>Unit 3: Data Management contd.</p> <ul style="list-style-type: none"> Interface of python with an SQL database: connecting SQL with Python, performing insert, update, delete queries using cursor, display data by using fetchone(), fetchall(), rowcount, creating database connectivity applications . Revision 	<p>Student will be able to understand the concept of MySQL as RDBMS and understand:</p> <ul style="list-style-type: none"> ➤ Creation of database in MYSQL ➤ Data Types in MySQL 	<p>Suggested Practical Question:</p> <ol style="list-style-type: none"> Write a Program to connect with database and store record of employee and display records. Write a Program to connect with database and search employee number in table employee and display record, if empno not found display appropriate message. Write a Program to connect with database and update the employee record of entered empno. <p>Note: Teacher should make online quizzes using different platform during online classes.</p>	<ul style="list-style-type: none"> Gave python connectivity based question 	<p>Interface of python with an SQL database:</p> <p>https://youtu.be/MF8hmCyZxFc</p>

Dec	1st Pre-Board Examination & Revision. Remedial classes & Revision work <ol style="list-style-type: none"> Teaching - Test & Re-Teaching - Re-Test on the areas in which students done mistakes frequently. Discussion on the Past years CBSE question papers and making of model answer of the same question in the class room. 	Sample Paper: https://drive.google.com/drive/folders/1rg74AM-ygNN7HUik6pJNco0hrvjUUoct?usp=sharing
Jan	2nd Pre-Board Examination & Revision. Remedial classes & Revision work <ol style="list-style-type: none"> Teaching - Test & Re-Teaching - Re-Test on the areas in which students done mistakes frequently as well as MLL. Discussion on the Past years CBSE question papers and making of model answer of the same question in the class room. 	
Feb	CBSE Practical Examination Remedial classes & Revision work <ol style="list-style-type: none"> Teaching - Test & Re-Teaching - Re-Test on the areas in which students done mistakes frequently. Discussion on the Past years CBSE question papers and making of model answer of the same question in the class room. 	
March	CBSE Board Examination	

Prepared By

Mr. NandkishorVasnik, PGT Computer Science
KV Kanker

Assignment/Study Material for the students

Computer Science

Note: Please copy below link and paste in web browser for worksheet

Work Sheet for Class XII:

<https://drive.google.com/drive/folders/1npqnCYvXEy79cDbtSHCtTY-eW4pnctL8?usp=sharing>

CLASS 12 COMPUTER SCIENCE(083)		
S.NO.	TOPIC	STUDY MATERIAL/VIDEO
1	REVISION TOUR	https://www.youtube.com/playlist?list=PLEpRPHYH815qLZx9u-eTrqYqyz7sknrCo
2	LIST IMPORTANT QUESTION	https://www.youtube.com/watch?v=LPMEEUj1v8M
3	LIST FUNCTIONS	https://www.youtube.com/watch?v=ZprRghwoRPk
4	OPERATOR PRECEDENCE	https://www.youtube.com/watch?v=7kiYMU1tmGk
5	FUNCTION	https://www.youtube.com/watch?v=AnMrdFbu21g
6	FUNCTION OUTPUT	https://www.youtube.com/watch?v=EbbUycoWNcs
7	DEFAULT PARAMETERS	https://www.youtube.com/watch?v=8ZbbID9SomU
8	RETURN IN FUNCTION	https://www.youtube.com/watch?v=6OVpulfIMSs
9	GLOBAL VS LOCAL SCOPE	https://www.youtube.com/watch?v=TB3AUjsFiv4
10	USER DEFINED FUNCTION	https://www.youtube.com/watch?v=d6wFCzTzNoM
11	UDF ROTATE SWAP IN LIST	https://www.youtube.com/watch?v=43SKGvGRtNA
12	IMPORT MODULE/FROM MODULE IMPORT FUNCTION	https://www.youtube.com/watch?v=6RwHb5UhkDY
13	FUNCTION & LIST	https://www.youtube.com/watch?v=of93TtxnYCE
14	DATA FILE HANDLING	https://www.youtube.com/watch?v=Td8YLDiIV-o
15	Text File	https://www.youtube.com/watch?v=dPK5YXVQ7P4&list=PLEpRPHYH815qqa9us8L9DVOKyVf1zLEih&index=35
16	Separate words practical	https://www.youtube.com/watch?v=l8mXp7jCZqI
17	Count vowels,consonants,upper,lowercase	https://www.youtube.com/watch?v=JfVvrAAYPKA
18	Binary file	https://www.youtube.com/watch?v=fXI53YQg5II
19	Employee binary file	https://www.youtube.com/watch?v=Cq_-8ljQ3OM
20	Update in binary file	https://www.youtube.com/watch?v=u74nUWvT3Jo&list=UUOK0IIsbqY_x0kubDCOYUkA&index=11
21	Delete in binary file	https://www.youtube.com/watch?v=viHHHyiWljY&list=UUOK0IIsbqY_x0kubDCOYUkA&index=14
22	Inventory management	https://www.youtube.com/watch?v=Jp1IXI6eYyo&list=UUOK0IIsbqY_x0kubDCOYUkA&index=18
23	CSV file	https://www.youtube.com/watch?v=srJ57LY4kWQ
24	Bank csv file	https://www.youtube.com/watch?v=6mBZU6F0yUs
25	Python Libraries	https://www.youtube.com/watch?v=vvCV2LK9E1s&t=10s
S.NO.	TOPICS	VIDEO LINK

1	All topics	https://www.youtube.com/channel/UCOK0llsbqY_x0kubDCOYUkA
2	Strategy to score full marks	https://www.youtube.com/watch?v=CBQRANFhfcw
3	CBSE SQP 2021	https://www.youtube.com/watch?v=FlaiB_1LT0w&t=4632s
4	CBSE SQP 2021-2	https://www.youtube.com/watch?v=wwPJBT2hjh4
5	CBSE SQP 2021-3	https://www.youtube.com/watch?v=9J-Yg87WipY
6	CBSE SQP 2021-4	https://www.youtube.com/watch?v=g0JxPzNFuKg
7	CBSE SQP 2021-5	https://www.youtube.com/watch?v=yfhS0RqjLs
8	CBSE SQP 2021-6(MYSQL)	https://www.youtube.com/watch?v=ft2IUHODmGI
9	Stack-Important Board Questions	https://www.youtube.com/watch?v=Ap61paYpZ_s
10	PROJECTS	https://www.youtube.com/watch?v=6mBZU6F0yUs&list=PLEpRPHYH815rgaJgHbFtYD-4Rd2FzZwqZ
11	PRACTICALS	https://www.youtube.com/watch?v=SSRAnaxg5Oo&list=PLEpRPHYH815phgAuwSuralQRPiLz95Fne
12	Revision tour	https://www.youtube.com/watch?v=n22RPzlkwEs
13	List-revision	https://www.youtube.com/watch?v=Bj3I5QiGCI0&t=13s
14	Evaluate expressions	https://www.youtube.com/watch?v=7kiYMU1tmGk
15	Functions	https://www.youtube.com/watch?v=ALdu3CK3xbU
16	File Handling	https://www.youtube.com/watch?v=QMvE3Hfgnnw
17	Text File	https://www.youtube.com/watch?v=dPK5YXVQ7P4&list=PLEpRPHYH815qqa9us8L9DVOKyVf1zLEih&index=35
18	Separate words practical	https://www.youtube.com/watch?v=l8mXP7jCZqI
19	Count vowels,consonants,upper,lowercase	https://www.youtube.com/watch?v=JfVvRAAYPKa
20	Binary file	https://www.youtube.com/watch?v=wds66HNqpHA&list=UUOK0llsbqY_x0kubDCOYUkA&index=19
21	Update in binary file	https://www.youtube.com/watch?v=u74nUWvT3Jo&list=UUOK0llsbqY_x0kubDCOYUkA&index=11
22	Delete in binary file	https://www.youtube.com/watch?v=viHHHyiWljY&list=UUOK0llsbqY_x0kubDCOYUkA&index=14
23	Inventory management	https://www.youtube.com/watch?v=Jp1Xl6eYyo&list=UUOK0llsbqY_x0kubDCOYUkA&index=18
24	CSV file	https://www.youtube.com/watch?v=MaN-yCv0sxU
25	Bank csv file	https://www.youtube.com/watch?v=6mBZU6F0yUs
26	Python Libraries	https://www.youtube.com/watch?v=vvCV2LK9E1s&t=10s
27	Lists	https://www.youtube.com/watch?v=Bj3I5QiGCI0&t=13s
28	Stack-Theory	https://www.youtube.com/watch?v=EDPAeHGwIcM&list=UUOK0llsbqY_x0kubDCOYUkA&index=29
29	Stack-Program	https://www.youtube.com/watch?v=pzqFQHEETrA&list=UUOK0llsbqY_x0kubDCOYUkA&index=28
30	MYSQL BOARD QUESTIONS	https://www.youtube.com/watch?v=InbHxeVKEvM&list=PLEpRPHYH815qqa9us8L9DVOKyVf1zLEih&index=24
31	Interface of Python with MySQL	https://www.youtube.com/watch?v=8RuoN5uTbqY&t=13s
32	Connectivity	https://www.youtube.com/watch?v=ZHPQ_FxKzU&list=PLEpRPHYH815qqa9us8L9DVOKyVf1zLEih&index=26
33	Computer Networks	https://www.youtube.com/watch?v=vbcxKYwUgtQ&list=PLEpRPHYH815qqa9us8L9DVOKyVf1zLEih&index=22
34	PROJECTS	https://www.youtube.com/watch?v=6mBZU6F0yUs&list=PLEpRPHYH815rgaJgHbFtYD-4Rd2FzZwqZ

35	Student management system	https://www.youtube.com/watch?v=_ZHPQ_FxKzU&list=PLEpRPHYH815qqa9us8L9DVOKyVf1zLEih&index=26
36	Inventory management	https://www.youtube.com/watch?v=Jp1lXl6eYyo&list=UUOK0llsbqY_x0kubDCOYUkA&index=18
37	Bank csv file	https://www.youtube.com/watch?v=6mBZU6F0yUs
38	Board practicals	https://www.youtube.com/watch?v=SSRAnaxg5Oo&list=PLEpRPHYH815phgAuwSuralQRPiLz95Fne
39	Separate words with #	https://www.youtube.com/watch?v=l8mxx7jCZgl
40	Count vowels,consonants,upper,lowercase	https://www.youtube.com/watch?v=JfVvRAAYPkA
41	create and search rollno in binary file	https://www.youtube.com/watch?v=R-kv9yEmW_U&t=24s
42	PART A SECTION 1	https://www.youtube.com/watch?v=2c_06hxy6PI&t=111s
43	PART A SECTION 2	https://www.youtube.com/watch?v=J2jplbvFzBU&t=23s
44	PART B SECTION 3	https://www.youtube.com/watch?v=A7untycgv7E&t=55s
45	PART B SECTION 4	https://www.youtube.com/watch?v=PPGGh5K4Zgl
46	PART B SECTION 5	https://www.youtube.com/watch?v=KKGKUDUmqzQg&t=13s
47	PYTHON OUTPUT QUESTIONS	https://www.youtube.com/watch?v=MHirFH-aTDY
48	PYTHON OUTPUT IMPORTANT QUESTIONS	https://www.youtube.com/watch?v=uaAzye9KDQo

Problem/challenges faced during the previous academic session

S.N	Problem/challenges faced during the previous academic session	Action Plan to overcome those challenges during the current academic session
1	Students encounter technical difficulties	<ul style="list-style-type: none"> • Took separate class for device handling and demonstrate online platform (Google classroom & Google meet) feature to students. • Also gave personal attention to students.
2	Connectivity Issue of Digital Device with Internet	<ul style="list-style-type: none"> • Students can change their service provider and acquire high-speed Internet. • Student can take dedicated Broadband connection.
3	Lack of Structure & Self-Discipline	<ul style="list-style-type: none"> • Student should follow a Routine and Create a School Space at home.
4	Online classes are boring	<ul style="list-style-type: none"> • Try to make an online course that is dynamic, fun and interactive. • Interact with students during class. • Also share PPT before taking class for class would be structure
5	Lack of motivation during pandemic	<ul style="list-style-type: none"> • Students can engage themselves in positive talks. It'll help them cleanse their psyche and to maintain their focus affirmably. • Arrange competition between them and gave them e-certificate.
6	Found difficulties in performing programming practical who don't have	<ul style="list-style-type: none"> • Demonstrate student how to download and work in Pydroid 3 - IDE android app who don't have computer system. • Also demonstrate website for online python programming

	computer system	(https://colab.research.google.com/)
7	Low Attendance Rate in Online classes	<ul style="list-style-type: none">• Track absences of students in real-time and Connect with students via personal calling.• Gave personal attention to students and Implement rewards for positive behavior• Increase parent involvement

Statement of Philosophy

My philosophy of education is that all children are unique and must have a stimulating educational environment where they can grow physically, mentally, emotionally, and socially. It is my desire to create this type of atmosphere where students can meet their full potential. I will provide a safe environment where students are invited to share their ideas and take risks.

I believe that there are five essential elements that are conducive to learning.

(1) The teacher's role is to act as a guide.

(2) Students must have access to hands-on activities.

(3) Students should be able to have choices and let their curiosity direct their learning.

(4) Students need the opportunity to practice skills in a safe environment.

(5) Technology must be incorporated into the school day.

I want my students to understand the significance and relevance of ICT in their everyday lives. To achieve this objective, I discuss the latest advancements in computer sciences so that my students are able to apply state of the art technology in solving problems and sharing their knowledge with their friends. I also aim to encourage input and feedback from my students regarding my course contents. In

this way, I can make the necessary changes so that my teaching becomes relevant and meaningful to my students.

Process Analysis: This is to find out how students complete their assignment. Since learning is a process, I always ask my students to think about how they do their work or assignments. In this way, I can find out whether my students understand how a problem is solved and the process that is involved.

SWOT ANALYSIS

INTRODUCTION: The importance of SWOT analysis for students/teachers is that it helps to know a clear picture of where they stand . Swot analysis also helps the students/teachers to identify their improvement areas and in setting goals.

<p style="text-align: center;">STRENGTHS(S)</p> <ul style="list-style-type: none"> • Highly skilled teachers • Focus on parents contact • Cultural diversity • Minimal issues of bullying and/or fighting among students • Regular Assessments through online mode • Students can attend online classes from anywhere • Development of new online resources • Upskilling in new technologies and resources 	<p style="text-align: center;">WEAKNESS(MW)</p> <ul style="list-style-type: none"> • High percentage of rural families. • Network issue in most of the area • Many teachers are not properly trained in delivery online Classes • Time constraints • Lack of practical sessions • Issues with assessment
<p style="text-align: center;">OPPORTUNITIES(O)</p> <ul style="list-style-type: none"> • Teachers provide opportunities to get help before and after school • Online classes gave opportunities for creative teaching • Academic collaboration • Working remotely • Incorporation of blended learning in future curriculum development • Development of alternative examination methods 	<p style="text-align: center;">THREATS(T)</p> <ul style="list-style-type: none"> • Reduced students engagement • Diminished teacher students relationship • E-books and e-readers eliminate need for physical books • Screen time increase • Online adiction

CONCLUSION:

Online Education has brought a positive impact in the lives of students and working professionals. It has given an opportunity to take up additional courses along with their studies or job as per their convenience. Online education has also helped the faculty in the institutions to ask students to study some part of syllabus online which do not require much of classroom instructions. So the online study helps the faculty to save time in which they can interact with the students more.

online education is not appropriate for younger students (i.e. elementary or secondary school age) and other students who are dependent learners and have difficulty assuming responsibilities required by the online paradigm.

MICRO LESSON PLAN CLASS XII

SUBJECT	COMPUTER SCIENCE	
TOPIC	Python Function PERIOD : IST PERIOD	
Date	01.07.2021	DURATION: 40 MINUTES
CONTENTS	3. Introduction of python function	
	4. Declaration, definition and calling of function.	
General Aims	1. To develop the knowledge regarding Python.	
	2.To develop interest of students in python Programming.	
Instructional Objectives	1. Making to student to understand Python Function	
	2. Inculcate ability to do python Programming.	
	3.Enable students to declaration, definition and calling of function	
Application	1.Analysing the importance of python programming	
	2.Applying the knowledge of python function make small program.	
Teaching aids used in online class	Laptop, internet connection, well prepared PowerPoint presentation on the topic, Mind map chart of organising, Google meet(online class platform)	
Previous knowledge	4. What do you understand by function?	Ans: A function is a block of organized, reusable code that is used to perform a single, related action.
	5. List the in build function?	Ans: len(), range(), eval() etc.
	6. Could definition Function ?	Ans: No Answer (Critical Question)

Announcement of topic	Dear Students, Today we will study python function declaration and calling.				
Presentation	By using PowerPoint presentation on the topic Python Function.				
Gist of Lesson	Expected Learning Outcomes/ELO	Teaching Learning activities planned	Suggested material / Resources	Assessment strategies planned/Assignments	Co-relation with other subjects
Functions-Types, Advantages, syntax & execution of user defied function	Student will be able to understand the about functions <ul style="list-style-type: none"> ✓ Built in functions ✓ Module based functions ✓ User defined functions how to write them 	At least 15-20 minutes talk on topic INTRODUCTION: <ul style="list-style-type: none"> • Function is a block of code, written for specific task to execute. • There are three types of functions: - Built in, Functions present in modules and UDF. • Method of writing UDF LINK OF PPT https://drive.google.com/file/d/1OzP8SF7wZIYr0Loh86GuKDcQW99KXYg/view?usp=sharing	Students should be advised to see this video https://www.youtube.com/watch?v=WQ8sDs0bYIU&t=798s	Link for online quiz https://forms.gle/NbH6vL5kjthBV5pW9 Link for Practical https://drive.google.com/file/d/1vZlaqzoZrYCad6Hot9c2QCuy4CO7TCNx/view?usp=sharing	Python is used to create software.

Date:

Name and Signature of the Teacher:

Principal:

Lesson Plan(Macro)

Class/Section :XII

Subject : Computer Science

Chapter/Topic : Python Function

No. of periods : 5

Date of Commencement :

Expected date of completion :

Actual date of Completion :

S	Gist of Lesson	Expected Learning Outcomes/ELO	Teaching Learning activities planned	Suggested material / Resources	Assessment strategies planned/Assignments	Co-relation with other subjects
1	Functions-Types, Advantages, built in functions, math and string library functions and syntax & execution of user defied function	Student will be able to understand the about functions <ul style="list-style-type: none"> ✓ Built in functions ✓ Module based functions ✓ User defined functions how to write them 	At least 15-20 minutes talk on topic INTRODUCTION: <ul style="list-style-type: none"> • Function is a block of code, written for specific task to execute. • There are three types of functions: - Built in, Functions present in modules and UDF. • Method of writing UDF <p><u>LINK OF PPT</u> https://drive.google.com/file/d/1OzP8SF7w_ZlYr0Loh86GuKDcQW99KXYg/view?usp=sharing</p>	Students should be advised to see this video https://www.youtube.com/watch?v=WQ8sDs0bYIU&t=798s	<u>Link for online quiz</u> https://forms.gle/NbH6vL5kjthBV5pW9 Link for Practical https://drive.google.com/file/d/1vZlaqzoZrYCad6Hot9c2QCuy4CO7TCNx/view?usp=sharing	Python is used to create software.

2	<p>Functions: scope, parameter passing, mutable/immutable properties of data objects, passing strings, lists, tuples, dictionaries to functions, default parameters, positional parameters, return values</p>	<p>Student will be able to understand the about functions</p> <ul style="list-style-type: none"> ✓ Scope of parameters ✓ Mutable & immutable objects passed to functions ✓ Diff. methods of Passing parameters 	<p>At least 15-20 minutes talk on topic INTRODUCTION:</p> <ul style="list-style-type: none"> • The scope of parameters to function • Passing of mutable and immutable objects • Value returning functions • How to pass different types of parameters <p><u>LINK OF PPT</u> https://drive.google.com/file/d/17yfXfRgj6dz5CUMIZheTWUxirmnYzH5J/view?usp=sharing</p> <p>Teacher will take this session Using Life-size App/ Google Duo / Google Meet etc</p>	<p>Students should be advised to see this video https://www.youtube.com/watch?v=Ga-SrUhAIlk</p>	<p>Link for online quiz1 https://forms.gle/rJJjiv9nDV62FMJ27</p> <p>Link for online quiz2 https://forms.gle/Vpj8wg5qufchZ5E48</p> <p>Link for Practical https://drive.google.com/file/d/1M31NjIGvP-d7UmFNrdNvVjYV8zS62FQT/view?usp=sharing</p>	<p>Python is used to create software.</p>
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Date:

Name and Signature of the Teacher:

Principal:

CLASS XII BUSINESS STUDIES

SPLIT UP SYLLABUS BUSINESS STUDIES (054) FOR CLASS XII SESSION 2021-22

S.N	MONT H	Expected No. OF WORKING Days	TOTAL NO. OF TEACHING PERIODS	NAME OF UNIT/CHAPTER	Targeted learning outcomes (TLO)	Marks	Suggested Projects/ Practicals/ Activities under internal sssessment	ASSINGMENT FOR STUDENTS	MPORTANT LINK OF DIKSHA/NCERT/UTUBE/ OWN VIDEO,PPT
PART A : PRINCIPLES AND FUNCTIONS OF MANAGEMENT:									
1	APRIL	8	12	NATURE AND SIGNIFICANCE OF MANAGEMENT	Management - concept, objectives, and importance ,Management as Science, Art and Profession , Levels of Management , Management functions ,Coordination- concept and importance	16	(1) Draft a Report on the basis of application of principles of management in a reputed business organization or its branch located in your city. Also identify the consequences of violation of these principles with the help of questionnaire. (2) Draft a report on existing and changing trends in the business environment (as well as its specific dimensions) of the country along with its impact on the business and industries in respect of LPG.	* “Management is both a science as well as an art” Explain the statement. * “coordination is an essence of management “ comment.	https://hssplustwo.blogspot.com/2018/04/business-studies-class-12.html?m=1
		9	14	PRINCIPLES OF MANAGEMENT	Principles of Management- concept and significance , Fayol’s principles of management , Taylor’s Scientific management- principles and techniques			*Explain Fayol’s princioles of management. *Describe the techniques of scientific management suggested by F W Taylor. MONTHLY TEST - APRIL	https://schoolacc.blogspot.com/2020/04/principles-of-management-developed-by.html FAYOL https://drive.google.com/file/d/1XsaVNTLtByrcX8CX0ur4ab-cPGQ_R1dG/view?usp=sharing

		8	12	BUSINESS ENVIRONMENT	Business Environment- concept and importance,Dimensions of Business Environment ,Demonetization - concept and features, Impact of Government policy changes on business			*Why is the understanding of business environment important for manager? Describe any four reasons.	https://learnbst.blogblog.com/2020/09/business-environment-objective-type.html?m=1
2	JUNE	12	14	PLANNING	Concept, importance and limitations,Planning process , Single use and standing plans. Objectives, Strategy, Policy, Procedure, Method, Rule, Budget and Programme	14	Draft a plan of action to introduce/Launch new product/service to be successful in competitive market. Also state the limitations of planning which should be kept in the mind while making such plan.	What are the steps taken by management in planning process? Explain.	https://schoolacc.blogspot.com/2020/07/ch-4-planning.html
3	JUNE	13	15	ORGANISING	Concept and importance ,Organising Process ,Structure of organization - functional and divisional concept. Formal and informal organization - concept , Delegation: concept, elements and importance , Decentralization: concept and importance		Make presentation on the concept of delegation. , Describe the elements of delegation. , Appreciate the importance of delegation.	*Differentiate between formal and informal organization. *Discuss the element of Delegation.. *Why delegation is important in an organization ? give reasons.	https://drive.google.com/file/d/1NWXQ9UxWHTqSq8_XceR-hmAVZdGxD0sY/view?usp=sharing
							MONTHLY TEST – JUNE		
4	JULY	14	16	STAFFING	Concept and importance of staffing, Staffing as a part of Human Resource Management – concept , Staffing process ,Recruitment process, selection process,Training and Development - Concept and importance, Methods of training - on the job and off the job - vestibule	20	Draft a plan to recruit and select the vacancy of a Marketing head, a Production head and HRA head from the internal and external sources of recruitment. also justify your decision.	*Define selection.Explain the steps in the process of selection of employees. * What is meant by training ?Explain the Methods of training - on the job and off the job - vestibule training,	https://drive.google.com/file/d/184wmD8HOlqye99myZgSvLw_dRqll41H9/view?usp=sharing TRAINING: https://bstclass11and12.blogspot.com/2020

					training, apprenticeship training and internship training			apprenticeship training and internship training	/09/training-meaningbenefits-and-methods.html?m=1 SELECTION: https://bstclass11and12.blogspot.com/2020/09/selection-meaning-and-process.html?m=1
5	JULY	13	15	DIRECTING	Concept and importance,Elements of Directing ,Motivation - concept, Maslow’s hierarchy of needs, Financial and non-financial incentive,Leadership - concept, styles - authoritative, democratic and laissez faire ,Communication - concept, formal and informal communication; barriers to effective communication, how to overcome the barriers		MOTIVATION,LEADERSHIP AND COMMUNICATION MONTHLY TEST - JULY	*Enumerate list of the financial and non financial incentives. *Differentiate between formal and informal communication	https://drive.google.com/file/d/14J9xLnxh_BVrVbe_W9jZsQyhGJB7zu/view?usp=sharing
6	AUGUST	8	12	CONTROLLING	Controlling - Concept and importance, Relationship between planning and controlling , Steps in process of controlling		(1) X Ltd wants to maintain quality and to achieve the set standards, during the process of production. Make a report on the process with imaginary items and figures (to indicate deviations) for explaining the process of controlling.	“Planning and controlling are inseparable twins of management” How. *Describe the steps involved in controlling process.	https://schoolacc.blogspot.com/2020/05/controlling.html

TOTAL		110			50 MARKS			
PART B: BUSINESS FINANCE AND MARKETING								
7	AUGUST	16	20	FINANCIAL MAMAGEMENT	Concept, role and objectives of Financial Management , Financial decisions: investment, financing and dividend- Meaning and factors affecting them , Financial Planning - concept and importance , Capital Structure , Fixed and Working Capital - concept and factors affecting their requirements	15	<p>How to determine the amount of working capital requirement for a manufacturing company? Suggest your answer considering related factors.</p> <p>MONTHLY TEST - AUGUST</p> <p>Y Ltd needs to raise 10 crores fund for it diversification of business. Suggest the suitable source of finance (Debt/Equity) by keeping in mind that the shareholders wants higher returns but not interested to sacrifice controlling power in the company. state the factors affecting to determine such structure.</p>	https://drive.google.com/file/d/1R4WREczA7Scd5GD2jb6le4SxaimGr82u/view?usp=sharing
8	SEPTEMBER	12	18	FINANCIAL MARKET	Financial Markets: Concept, Functions and Types Money market and its instrument,Capital market and its types (primary and secondary), methods of floatation in the primary market, Stock Exchange - Functions and trading procedure, Securities and Exchange Board of India (SEBI) - objectives and functions		<p>SEBI is also called watch dog of the stakeholders of financial securities. Comments with a view to the functions of SEBI.</p> <p>“The stock exchange performs many vital fuctions in today’ s commercial world” Explain such functions.</p>	https://drive.google.com/file/d/1xezuqEw4kkgOlGvePjD8-99Nuq1l2EKi/view?usp=sharing
9	SEPT/	20	30	MARKETING	Marketing – Concept, functions and philosophies ,	15	<p>(1) Make a Project on a Product with</p> <p>How to take decision to determine the price of a</p>	https://drive.google.com/file/d/1j1YALw1S2

	OCT			MANAGEMENT	Marketing Mix – Concept and element , Product - branding, labelling and packaging – Concept , Price - Concept, Factors determining price , Physical Distribution – concept, components and channels of distribution , Promotion – Concept and elements; Advertising, Personal Selling, Sales Promotion and Public Relations		reference to marketing management according to CBSE guidelines. MONTHLY TEST - SEPT	product? Explain the factors which play significant role to do it.	3koOiRTzgw2U4s7HyBQasUp/view?usp=sharing
10	OCTOBER	8	12	CONSUMER PROTECTION	Concept and importance of consumer protection , The Consumer Protection Act, 2019: Source: http://egazette.nic.in/WriteReadData/2019/210422.pdf , Consumer awareness - Role of consumer organizations and Non-Governmental Organizations (NGOs) Meaning of consumer Rights and responsibilities of consumers Who can file a complaint? Redressal machinery Remedies available		Make a list of Rights and Responsibilities of a consumer which should be kept in mind by them to protect their interests.	*State reliefs available to consumers on the complaint made by them under consumer protection Act 2019	https://drive.google.com/file/d/1d9A1PKpSrTq7Ix1woHNqaSZfZJ8C0iv/view?usp=sharing The Consumer Protection Act, 2019: Source: http://egazette.nic.in/WriteReadData/2019/210422.pdf
TOTAL			80			30 MARKS			
11	NOVEMBER	20	30	PROJECT WORK		20 MARKS	finalise any one Project Work assigned for 20 marks. HALF YEARLY		MCQ https://play.google.com/store/apps/details?id=com.agragameeapps.businessst

						EXAMINATION		udiesforxiiclass
TOTAL		220				100 MARKS		
12	DECEMBER	I Pre-Board Exam Remedial classes & Revision work		(1) Teaching - Test & Re-Teaching - Re-Test on the areas in which students done mistakes frequently. (2) Discussion on the Past years CBSE question papers and making of model answer of the same question in the class room.				
13	JANUARY	II Pre-Board Exam Remedial classes & Revision work		(1) Teaching - Test & Re-Teaching - Re-Test on the areas in which students done mistakes frequently as well as MLL. (2) Discussion on the Past years CBSE question papers and making of model answer of the same question in the class room.				
14	FEBRUARY	Revision & Remedial for AISSCE 2022 CONDUCT OF		(1) Teaching - Test & Re-Teaching - Re-Test on the areas in which students done mistakes frequently. (2) Discussion on the Past years CBSE question papers and making of model answer of the same question in the class room.				

**BOARD
PRACTICAL**

(TEXT BOOK OF BUS. STUDIES BY POONAM GANDHI: <https://drive.google.com/file/d/1MnZAy9gwrBCOZaaKgxapqgRdwzabqFNb/view?usp=drivesdk>

Super 20 Business Studies Class 12 Complimentary E-Book: <https://pubhtml5.com/dgzg/eexs/>

BUSINESS STUDIES: <https://drive.google.com/drive/folders/1RSEm6UXyNsgRewJRIPkBO9ej6U6jm1Hn>

10 SAMPLE PAPERS :<https://bit.ly/2NVKfwD>

STUDY CUM SUPPORT MATERIAL :https://drive.google.com/file/d/1_Y0xMpU5MaWD_qlCQS-9ws3ZIIK-saIR/view?usp=sharing

STATEMENT OF TEACHING PHILOSOPHY

BY ARVIND KUMAR MAURYA PGT COMMERCE KV NO. 2 NTPC KORBA

"My philosophy of education is that all children are unique and must have a stimulating educational environment where they can grow physically, mentally, emotionally, and socially. It is my desire to create this type of atmosphere where students can meet their full potential. I will provide a safe environment where students are invited to share their ideas and take risks.

"I believe that there are some essential elements of learning.

(1) The teacher's role is to act as a facilitator.

(2) Students must be able to have choices and curiosity of their learning.

(3) Students need the opportunity to practice skills in a safe environment.

(4) Now a days Technology play an important role and must be incorporated into the school day.

"I believe that a teacher is morally obligated to enter the classroom with only the highest of expectations for each and every one of her students. I aim to bring an open mind, a positive attitude, and high expectations to the classroom each day. I believe that I have to give it to my students, as well as the community, to bring consistency, diligence to my job in the hope that I can ultimately inspire and encourage such traits in the children ."

"Every classroom has its own unique community; my role as the teacher will be to assist each child in developing their own potential and learning styles. I will present a curriculum that will incorporate each different learning style, as well as make the content relevant to the students' lives."

SWOT ANALYSIS OF STUDENTS IN BUSINESS STUDIES

IMPORTANCE OF SWOT ANALYSIS: The importance of SWOT analysis for students is that it helps to know a clear picture of where they stand . Swot analysis also helps the students to identify their improvement areas and in setting goals.

STRENGTHS

- Having good critical and analytical skill
- Strong language/writing skill
- Linking of ideas within assignments
- Communication skill
- Confidence to give /receive peer views
- Ability to effectively manage time
- Students creativity
- Inter-personal skill
- work/study/social balance
- Bright and committed faculty
- Students advising initiative

OPPORTUNITIES

- Develop learnt techniques of inquiry/reflection application to practice.
- Ability to turn strength into opportunity
- New technology
- Increase online learning ability

WEAKNESSES

- Relating theory directly to literature
- Self criticism
- Poor at dealing with conflict
- Reserve , almost shy
- Diminished competitive spirit among students
- Uncomfortable speaking in front of groups

THREATS

- Being to complacent
- Loosing drive
- Being disheartened if marks are below what is expected
- Change in technology

MACRO LESSON PLAN CLASS XII

Topic/Lesson	PLANNING			
Period Required	14			
Date of Commencement	01.08.2021			
Date of Completion	14.08.2021			
Gist of Lesson Focused skills/Competencies	Targeted learning outcomes (TLO)	Teaching learning activities planned for achieving the TLO using suitable resources and classroom management strategies	Assessment Strategies Planned	Co-relation with other subjects
Concept, importance and limitations.Planning process. Single use and Standing plans	After going through this Unit, the students will be able to: Explain the meaning of planning as a function of management. Develop an understanding about the features, importance and limitation of planning.Planning process. identify the steps in the planning process.Single use and Standing plans-objective,strategy, policy, procedure, method, rule, budget, programme.State the meaning and applications of single use and standing plans.	*Draft a plan of action to introduce/Launch new product/service to be successful in competitive market. Also state the limitations of planning which should be kept in the mind while making such plan. * Involve the students to Draft a plan of educational tour and let them identify the planning process, and its limitations.	*Online MCQ test through google form . *Conduct of online quiz competition on the topic nature and purpose of business. * Give case study to the students related to the topic planning to identify features, process and limitations by quoting the lines. * conduct of monthly test .	General Budgets of government of India is an example of financial planning,

MICRO LESSON PLAN CLASS XII

SUBJECT	BUSINESS STUDIES	
TOPIC	ORGANISING	PERIOD : IST PERIOD
Date	01.08.2021	DURATION: 40 MINUTES
CONTENTS	1.Meaning and definition of Organising.	
	2.Organising process	
General Aims	1. To develop the knowledge regarding business studies	
	2.To delop interest of students in management .	
	3.To develop skill of students to organise the events	
Instructional Objectives	1. Making students able to understand the concept of organising as structure and as a process.	
	2. Inculcating ability to interpret the meaning of organising.	
	3.Students will be able to understand the Importance of organising function of management	
Application	1.Analysing the importance of organising	
	2.Applying the knowledge of Organising process to form a commerce club in the vidyalaya.	
	3.Applying the knowledge to organise the events in the family like birthday party, Marriage party,ect.	
Teaching aids used in online class	Lap top, internet connection , smart board, well prepared powerpoint presentation on the topic , Mind map chart of organising	
Previous knowledge	1. What do you mean by Organisation?	Ans. An association of people

	2. What is a company ?	Ans It is an organisation	
	2. What steps are taken to organise a company or business?	Ans ?	
Anouncement of topic	Well students , today we will study about "Organising" and steps in the process of organising		
Presentation	By using powerpoint presentation on the topic Organising.		
points	Targeted learning outcomes (TLO) (BY Teacher)	Teaching learning activities planned for achieving the TLO using suitable resources and classroom management strategies (by students)	Assessment as learning
Meaning and Impotence of Organising.	Explain Meaning and Impotence of Organising.with the help of power point presentation . Organising as structure and as a process	* Listening by students carefully having a proper interaction. *Involve the students to write the meaning and points of the Importance of Organising.	* How can you define Organising as process ? *Enumerate the Importance of Organising.
Importance of organising	Importance : Benefits of specialisation, clarity in working relationship,Optimum utilisation of resources and Adaption of changes	Prepare a scalar chain diagram to clarify the working relation ship. Write down Importance of organising.	What do you understand by detpartmentalisation as a step in the process of organising?
Organising Process	Describe Organising process: i.Identification and division of work ii. Departmentalisation iii. Assignment of duties iv. Establishing Reporting relationship	Motivate the students to form a commerce club by applying the steps of Organising process and Organise the events of the club.	How many steps are there in organising process ? Which step of organising process clearly define the inter-relationship between the individuals working in the organisation?
Recapitulation	Presenting objective type questions/ MCQ /filling the blank and conducting Quiz on the topic discussed above for Recapitulation and to judge the learning outcomes		
Home Work	Revise the topic discussed today and Give Answer of the following Questions and upload on google classroom 1. Define organising . Describe the Importance of Organising?		

2. Give the meaning of organising as a process. ? Explain briefly the steps in the process of organising.

Materials for the students who are not having proper devices and connectivity:

Students can get print out of study cum support material from the following Link:

https://drive.google.com/file/d/1_Y0xMpU5MaWD_gICQS-9ws3ZIIK-saIR/view?usp=sharing

Prepared BY
ARVIND KUMAR MAURYA PGT COMMERCE
KV NO. 2 NTPC KORBA

KENDRIYA VIDYALAYA SANGATHAN, RAIPUR REGION

SPLIT UP SYLLABUS 2021-22

CLASS: XII

SUBJECT: ACCOUNTANCY

Month	No. of working days	No. of periods	Name of Chapter/ Unit	Learning outcomes to be covered as per TRALO	Suggested Projects / Practical/ Activities under Internal Assessment	Assignments	Important Link for Diksha / NCERT / U-tube / ppt etc.
April	25	25	(1) Financial Statements of Not-for-Profit Organizations	(1) Differentiates between financial statements of business and non-business entities. (2) Recalls the concepts of profit, surplus, loss and deficit in the context of financial statements of business and non-business entities. (3) Lists the features of receipts and payments account, income and expenditure account, profit and loss account and balance sheet. (4) Discuss the specific items of income and expenditure and how they are treated using accrual basis of accounting. (5) Develop the understanding and skill of preparing income and expenditure account and balance sheet of a not-for-profit organization with the help of given receipts and payments account and additional information.	(A) Draw Income & Expenditure Account and Balance Sheet for NPO (B) Enlist the Provisions of Indian Partnership Act 1932, applicable in the absence of partnership deed (C) Draw the Profit & Loss Appropriation A/c with necessary heads and imaginary figures	https://docs.google.com/forms/d/1VfdT1zdYv4DGJZ55o5LbRsfhbZYD-5ej1x1nuwYucfl/edit?usp=sharing https://docs.google.com/forms/d/1BgHsqSBxF5srZlhWS7B14PZcNgUFXpi8Y_07zBoOZ90/edit?usp=sharing	https://diksha.gov.in/play/content/do_313066705100595200114040 https://ncert.nic.in/textbook.php?leac1=1-5
		12	(2) Accounting for Partnership Firms	(6) Discuss the provisions of Indian Partnership Act 1932 and Partnership Deed in Partnership form of business. (7) Discuss the significance of provision of Partnership Act in the absence of partnership deed. (8) Differentiate between fixed and fluctuating capital, outline the process and develop the understanding and skill of preparation of Profit and Loss Appropriation Account.	At the end of chapter/unit, Monthly-test to be conducted in the mode of: 1. Work-sheets 2. Google Form 3. Quiz	https://docs.google.com/forms/d/1akSGxjjNtDz_SXYLzpcWHZZoVvTQDZP2bxpzXob_K84/edit?usp=sharing Monthly Test Link: https://docs.google.com/forms/d/1akSGxjjNtDz_SXYLzpcWHZZoVvTQDZP2bxpzXob_K84/edit?usp=sharing	https://drive.google.com/file/d/1qpHVZNZO-76x-hMla1lvbsspj8ONzo-J/view?usp=sharing https://drive.google.com/file/d/1kDun9XYB9nBZaWUCmswHXjCbWhdVDFR2/view?usp=sharing
	13	21	Accounting for Partnership	(1) Develop the understanding and skill of preparation profit and loss appropriation account involving guarantee of profits.	(A) Draw a table for the adjustment of capital for past adjustments	https://docs.google.com/forms/d/1WvH367v32ROMT8uyC8I	https://diksha.gov.in/play/content/do_313066919204282368111564

May - June			Firm	(2) Develop the understanding and skill of making past adjustments. (3) State the meaning, nature and factors affecting goodwill (4) Develop the understanding and skill of valuation of goodwill using different methods. (5) Ascertain new profit-sharing ratio, sacrificing ratio and gaining ratio in the event of reconstitution of partnership firm.	(B) Explain the methods for valuation of goodwill 1. Work-sheets 2. Google Form	Po32S48wL6aoVKzZGIU7ISyE/edit?usp=sharing	https://ncert.nic.in/textbook.php?leac1=2-5 https://diksha.gov.in/play/content/do_31306687969388953619639
July	27	38	Accounting for Partnership Firms	(1) Apply accounting treatment as per AS-26 for valued goodwill in the event of reconstitution of partnership firm. (2) Develop the understanding and skills for the preparation of Revaluation account, Capital/Current Accounts of partners and Balance Sheet in the event of change in profit-sharing ratio and admission of a new partner. (3) Admission of a Partner: Preparation of Revaluation A/c, Capital A/cs of partners and Balance Sheet of reconstituted firm. (4) Retirement and Death of a partner: Preparation of Revaluation A/c, Capital A/cs of partners and Balance Sheet of reconstituted firm.	Draw Revaluation A/c Capital A/c and Balance Sheet of reconstituted firm on: (A) change in profit-sharing ratio (B) admission of a partner. (C) retirement of a partner (D) death of a partner 1. Work-sheets 2. Google Form 3. Quiz	Monthly Test Link: https://docs.google.com/forms/d/1HSey8wIcEgu3kf6sZtODObe8LK3LoD2urTEyzVBaNXg/edit?usp=sharing	https://diksha.gov.in/play/content/do_31306701305069568018555 https://diksha.gov.in/play/content/do_313066901721849856110425 https://drive.google.com/file/d/1qpHVZNZO-76x-hMla1Ivbsspi8ONzo-J/view?usp=sharing https://ncert.nic.in/textbook.php?leac1=3-5
		19	(1) Accounting for Partnership Firm (2)	(1) Differentiates between reconstitution of partnership firm and dissolution of partnership firm. (2) Collects information on various cases for dissolution of partnership firm. (3) Compares between revaluation of assets, reassessment of liabilities and realization of assets & liabilities for partnership firm. (4) Develop the understanding and skill for the preparation of	(A) Draw Realization A/c, Capital A/c and Bank A/c on dissolution of a firm. (B) Differentiates between revaluation A/c and Realization A/c	Monthly Test Link: https://docs.google.com/forms/d/1NGjyO4qJ_klqao8LxuejDDvnp52iMFO5n4R_EW6qqTs/edit?usp=s	https://diksha.gov.in/play/content/do_31306682938704691218513 https://ncert.nic.in/textbook.php?leac1=5-5

August	24	+	Accounting for Companies	<p>Realization Account, Partners' Capital Account, Partner's Loan Account and Bank Account on the dissolution of a partnership firm.</p> <p>(5) State the meaning of share and share capital and differentiate between equity shares and preference shares and different types of share capital.</p> <p>(6) Understand the meaning of private placement of shares and Employee Stock Option Plan.</p> <p>(8) Explain the accounting treatment of share capital transactions regarding issue of shares.</p>	<p>(C) State ESOP and Private placement shares</p> <p>(D) Draw Journal entries on issue of shares</p> <ol style="list-style-type: none"> 1. Work-sheets 2. Google Form 3. Quiz 	<p>haring</p> <p>https://docs.google.com/forms/d/1rnc_axk9gvpsqaZKaB_fs0usc2Qtu4Pt6_5WitoQgPo/edit?usp=sharing</p>	<p>https://drive.google.com/file/d/1qpHVZNZO-76x-hMla1lvbsspj8ONzo-J/view?usp=sharing</p> <p>https://ncert.nic.in/textbook.php?leac2=1-6</p> <p>https://drive.google.com/file/d/1LSC-xGWVt7pTanNDmHenEQbCdIZGoSVs/view?usp=sharing</p>
Sept	26	+ 18 + 16	<p>(1) Accounting for Companies</p> <p>(2) Analysis of Financial Statements</p>	<p>(1) Describe the presentation of share capital in the balance sheet of the company as per schedule III part I of the Companies Act 2013.</p> <p>(2) Compare issue of share and debentures for cash and as collateral security. (3) Develop the understanding of accounting treatment of forfeiture and re-issue of forfeited shares. (4) Explain the accounting treatment of different categories of transactions related to issue of debentures.(5) Develop the understanding and skill of writing of discount / loss on issue of debentures. (6) Develop the skill of calculating interest on debentures and its accounting treatment state the meaning of redemption of debentures.(7) Develop the understanding of accounting treatment of transactions related to redemption of debentures by lump sum, draw of lots and Creation of Debenture Redemption Reserve.</p> <p>(8) Develop the understanding of major headings and sub-headings (as per Schedule III to the Companies Act, 2013) of balance sheet as per the prescribed norms / formats.</p> <p>(9) State the meaning, objectives and limitations of financial statement analysis.</p>	<p>(A) Draw a balance sheet of a company to show share capital</p> <p>(B) State the various cases for the issue of shares, forfeiture and re-issue of shares</p> <p>(C) Draw a table to show the items of balance sheet to be shown under major and sub-head</p> <ol style="list-style-type: none"> 1. Work-sheets 2. Google Form 3. Quiz 	<p>Monthly Test Link: https://drive.google.com/file/d/1u0BlrUJEUCe5c4vRIuAxAe8rRdGLKpLz/view?usp=sharing</p> <p>https://docs.google.com/forms/d/1rnc_axk9gvpsqaZKaB_fs0usc2Qtu4Pt6_5WitoQgPo/edit?usp=sharing</p>	<p>https://drive.google.com/file/d/1LSC-xGWVt7pTanNDmHenEQbCdIZGoSVs/view?usp=sharing</p> <p>https://diksha.gov.in/pla/content/do_31306739438383923219898</p> <p>https://diksha.gov.in/pla/content/do_313067419272380416110502</p> <p>https://ncert.nic.in/textbook.php?leac2=2-6</p> <p>https://ncert.nic.in/textbook.php?leac2=4-6</p> <p>https://drive.google.com/file/d/1COI92slKo</p>

							nMzAzXCpm5b9RUaYN6PIV0X/view?usp=sharing
Oct	22	14 + 16	(1) Analysis of Financial Statements (2) Cash Flow Statement	(1) Differentiates between horizontal and vertical analysis of financial statements. (2) Develop the understanding and skill of preparation of comparative and common size financial statements (3) State the meaning, objectives and significance of different types of ratios. (4) Develop the understanding of computation of current ratio and quick ratio, debt equity ratio, total asset to debt ratio, proprietary ratio and interest coverage ratio, inventory turnover ratio, trade receivables and trade payables ratio and working capital turnover ratio, gross profit ratio, operating ratio, operating profit ratio, net profit ratio and return on investment. (5) state the meaning and objectives of cash flow statement. (6) Explains adequacy of cash and cash equivalents in terms of its timing and certainty for a particular period and future commitments of an enterprise by classifying into operating, investing and financing activities. (7) Develop the understanding of preparation of Cash Flow Statement using indirect method as per AS 3 with given adjustments.	(A) Draw comparative and common size statement (B) State the accounting ratios with its significance (C) Draw a cash flow statement with all necessary items and imaginary figures 1. Work-sheets 2. Google Form 3. Project	Monthly Test Link: https://drive.google.com/file/d/15UA65k5bSaAFBRPT4HF5-Atg9sqsGYB/view?usp=sharing	https://drive.google.com/file/d/156byHkyyH4F49EEJuTijOQPzS4Izx7/view?usp=sharing https://ncert.nic.in/textbook.php?leac2=6-6
Nov	15	4 + 20	(1) Cash Flow Statement (2) Project - Work	(1) Develop the understanding of preparation of Cash Flow Statement using indirect method as per AS 3 with given adjustments. (2) Undertakes Project-Work and related hands-on activities - (a) Analysis of financial statements of a company by applying Accounting Ratios for its Financial health, Profitability and Efficiency of the management. (b) Preparation of Cash Flow Statement from the financial statements of a company and analysis for its cash flow in the given financial year.	(A) Prepare Project work to analysis financial statements with ratios analysis (B) Prepare Project work to analysis cash flow with cash flow statement (Finalize any one project from the above for 20 marks) 1. Work-sheets	https://drive.google.com/file/d/19-tP8m7Y0o715x49uHRI7qe8FkXqGAUA/view?usp=sharing	https://documents.google.com/download/accountancy-project-class-12th-cbse https://drive.google.com/file/d/1-bzbZRCNX51gU9BdfoshLT_k2clZk78/view?usp=sharing

					2. Google Form 4. Project		
			REVISION WORK (Test>>>Remedial Teaching>>>Re-Test)				
Dec			First Pre-Board Exam (First week of the month)				
			REVISION WORK (Test>>>Remedial Teaching>>>Re-Test)			https://drive.google.com/file/d/1GIm21A_ALdTnLgGefM1bneWSPtUAaKSO/view?usp=sharing	
Jan			Second Pre-Board Exam (First week of the month)				
			REVISION WORK (Test>>>Remedial Teaching>>>Re-Test)			https://www.ncertabhyas.in/p/blog-page_12.html (On-Line MCQ Tests)	
March			AISSCE 2022				

Conduct of On-Line classes

- Problem / Challenges faced during the previous academic session (subject specific).
- Action Plan to overcome those challenges during the current academic session.

Problem / Challenges faced during the previous academic session in Accountancy subject

11. Students of class XI have pre-assumption for the Accountancy subject as the subject of Mathematics. It creates unnecessary fear in the mind of students.
12. Many of the students were trying to cram the theory, concept and principles of accountancy and hence they failed to apply these in the given practical problem in Accountancy subject.
13. There was poor network connectivity problem faced by few students. Resulting, students forced to left / discontinued the on-line class.
14. Face-to-face interaction is a major advantage of on-line classes but despite of instruction given to the students, they switch offed the video in the class due to poor net connectivity and less data balance in their device. Face to face interaction provide the scope to identify individual level of understanding of student to student in a particular subject topic.

15. Off-line mode of instruction provides ample opportunities to the students and teacher to interact each other even after the class session to clarify the individual difficulty either related to subject areas or other issues. It was lacking in the on-line classes.
16. In the off-line mode, teacher may assign the practical question and could observe every student note-book by moving around the whole class. It helps to that student who find difficulty to solve the accountancy problem and failed to ask due to hesitation. Whereas, it could not be possible to do so in on-line mode.
17. Group Discussion in on-line classes is very difficult as the few students are not freely expressed their view on the given topic.
18. It was observed that, Assessment through on-line mode is not a good tool to judge the level of understanding in the Accountancy subject. Many of the students are free to get the help of internet, text materials to find the solution of question paper. It creates difficulty to find that who has lacking in adequate learning, who's performance reflecting real as shown in the answers etc.
19. It was observed that digital form of resource materials in Accountancy subject provided to the students were not used by them.
20. At the last, many of the teacher are not competent to use the advance tech-know to make more effective on-line classes.

Action Plan to overcome those challenges during the current academic session

8. Counseling of students for newly admitted students in class XI by the Accountancy subject teacher to clarify their individual doubts, differentiates as well as explain the similarity between Accountancy subject and others.
9. It is the responsibility of Accountancy teacher to explain the concept, theory and principles of accounting in a real situation of business and relate the same its practical application in the field of accounting. It helps a lot to the students to develop the understanding on these aspects with its applicability rather than to cram the same.
10. To resolve the problem of poor connectivity or non-availability of proper electronic device for online class on the hand of students, Parent-Teacher Meeting is the best platform. In the PTM, Accountancy teacher has to discuss and encourage them to provide this facility to their ward for better education of child. Home-time table for self-study of individual learner also to be discussed in the PTM by expecting from parent's to regularly observe / monitor and supervise during the self-study of their ward at home. It helps to ensure for proper use of electronic gadgets provided by parent to their child as well as pace of study of individual learner.
11. Individual learner who could not perform up to the expected level, may regularly make contact with the students of that parent and creates a familiar pool between the problem faced by individual learner and expected outcomes of learning. It is advice to the Accountancy teacher to make a separate group of these level of learner to put regularly their problems, doubts in Accountancy as they are hesitating to express in a common group of students.

12. There is need to improvise the Assessments tool in such way that the correct answer can be given by only those students who learn, grasp, understand and have practical application ability in accounting problems.
13. Vidyalaya and teacher must ensure for the availability of printed resource materials on the hand of every student.
14. Despite of switching of from off-line to on-line mode of instruction promptly by the accountancy teacher, still is required to upkeep the practical knowledge in various electronic tools / method to make the accountancy teachers more effective in on-line teaching learning process. Therefore, in new scenario, to become more effective accountancy teacher, teachers have to develop habits to find the way from their own source to improvise his / her teaching skills for on-line classes as well as Vidyalaya also find the challenges/problems of individual teachers and provide facility for imparting adequate skills required in on-line classes.

Statement of Teaching Philosophy in Accounting

(Giriraj Shrivastava, PGT Commerce, KV No. 01 Raipur)

My teaching philosophy has a singular aim: cultivating student **self-efficacy** (Bandura, 1977) through orchestrating a learning process and space (Kolb & Kolb, 2005) that allows each student the opportunity to not only acquire course relevant knowledge and skills, but emerge confident in his/her capability to use that knowledge to achieve success.

Students transform experience and thereby learn in a variety of ways based on their individual stage of development in critical reasoning, as well as cognitive preferences and learning styles. Individual situations, prior learning, cultural experiences, as well as generational differences also affect how students learn. The needs of working adults are different from those of traditional full-time students. Students differ in a myriad of ways — from each other as well as from the instructor. I believe that tailoring both the learning environment and materials in ways that maximize the opportunity for individual students to relate to them is key to fostering student **self-efficacy**.

I have found that students learn best when they are exposed to different teaching methods to ensure that the material is reinforced and firmly grasped. This variety ensures that no student is ignored and that each student has the opportunity to learn and to perform to his or her full potential.

Additionally, I try to make the topic as relevant as possible while keep the learning principle intact. Rather than have the students memorize formulas and textbook problems, I prefer to challenge them with real-life exercises that will empower them and prepare them for their future careers. For example, when I teach accounting entry for a business transaction, emphasizes

to relate with accounting equation that after making each and one accounting entry there will be all assets become equal to all the liabilities of a business firm. Therefore, this mechanism will help to develop proper understanding in the mind of students that learning of accounting is easier than the other subjects.

At the first day of my Accountancy class, I always told to the students that the subject of Accountancy is not a same as the subject of Mathematics. In the mathematics, many equations are required to memorize for finding the solution where as in accounting, only one equation i.e. balance sheet equation and one rules for debit and credit. It helps a lot to leave the fear among the students with the subject of Accountancy.

I try to make the topic as relevant as possible while keep the learning principle intact. Rather than have the students memorize formulas and textbook problems, I prefer to challenge them with real-life exercises that will empower them and prepare them for their future careers.

I always use to ask with students to develop understanding for any accounting treatment – “**Why?** and **How?**”. The answer of how is depends on the answer of why. An example for the transaction of ‘Commencement of business with ₹ 5,00,000 of cash’. There two concepts of accounting, rules of debit & credit and term of asset being applied to record this transaction in the books of account:

5. Business Entity concept: Business firm and its proprietor has separate entity to each other from accounting point of view therefore, cash contributed by proprietor will be treated with aspect of account named - ‘Capital’
6. Asset: Any kinds of money being used in the business exceed to 12 months and which has some monetary value will be treated with aspect of account named – ‘Asset’. In the given transaction, cash will be treated an asset.
7. Dual Aspect concept: Every business transaction has two aspects of which one should be debited and another to be credited.
8. Rules of Debit and Credit: There is asset being increased in the form of cash and liabilities on the business being increased in the form of capital (claim of proprietor on business)

As per the rule for debit and credit for Asset and Capital

- Whenever asset being increased – has to debit
- Whenever liabilities being increased – has to credit

Therefore, the Journal entry of the transaction will be:

Cash A/c	Dr.	5,00,000
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To Capital A/c 5,00,000

Before I walk into class, the questions must feel alive for me. I prepare by re-reading the work, discussing, recollecting and reviewing past notes, preparing new ones related to the particular accounting topic to be taught. All of this preparation assists me in asking the right questions, in the right order, at the right time – an anticipation of rhythm of the class.

When I arrive, I try to look at each student’s face, greet the class as a whole with a smile, and, in some form, ask, “How are you?” It’s helpful to know “where the students are at”: Are they excited? Weary? Distracted? Struggling? Puzzled? Since the learning in each class is collaborative and interpersonal, it is crucial that I attend to the students with whom I will be teaching – and largely by asking questions and integrating points – and from whom I will be learning. We begin class with a prayer or a minute of silence, and then begin our conversation.

In the process of teaching – learning in the class-room, I believed to give freedom of speech to the students to ask the question on the topic delivering by me, if they find difficulty to understand the same. Its helps to classify three level of learners – firstly ‘who are continuously have approach to learn, grasp and understand the topic and able to express the same to find the solution in a given situation, secondly – ‘who are continuously have approach to learn, grasp and may not be understand that’s why hesitated to raise any question on the topic and finally – others, who are alone in the class to whom keen observation is to be needed in the remedial teaching. The third level of learner is required inclusion approach in the pace of learning. They may have several issues which has to identify and resolve in time to re-connect them towards learning process with zeal and enthusiasm. Therefore, the environment of class-room and teaching-learning process should be the student oriented.

“I cannot teach anybody anything. I can only make them think.”

Therefore, my teaching philosophy centers upon teaching students to learn to think and communicate rather than to memorize!

Parameters to analysis the Strength and Weakness of an Individual learner in the particular subject

Following is the tool may be used to identify and analysis the strength and weakness of a student learner in a particular subject:

Types of Skill to express her/himself a learner

Competency Level

Verbal Skill

Writing Skill

01	Knowledge	YES / NO	YES / NO
02	Understandability	YES / NO	YES / NO
03	Application ability	YES / NO	YES / NO
04	Critical Thinking	YES / NO	YES / NO
05	Problem Solving ability	YES / NO	YES / NO

3. **Verbal Skill:** Whether student able to know, understand the theory, concept and other factual information of a subject areas as well as could express by utter then he/she has verbal competency skill in that subject at the average level.

If the student able to apply, think critically and also having problem solving ability by expressing in verbal form then he/she has full of competency in verbal skill.

4. **Writing Skill:** Whether student able to know understand the theory, concept and other factual information of a subject areas as well as could express by writing then he/she has writing competency skill in that subject at the average level.

If the student able to apply, think critically and also having problem solving ability by expressing in written form then he/she has full of competency in written skill.

The student who has ‘Verbal Skill’ as well as ‘Written Skill’ in all five (05) level of competency, he / she is **OUTSTANDING** in the respective subject areas.

STRENGTHS

- Having good critical and analytical skill, Strong language/writing skill
- Linking of ideas within assignments, Communication skill
- Confidence to give /receive peer views, Ability to effectively manage time
- Student’s creativity, Inter-personal skill
- work/study/social balance, Bright and committed faculty

WEAKNESSES

- Relating theory directly to literature
- Self criticism
- Poor at dealing with conflict
- Reserve, almost shy
- Diminished competitive spirit among students

• Students advising initiative

• Uncomfortable speaking in front of groups

MACRO – LESSON PLAN

CLASS: XII SUBJECT: ACCOUNTANCY

Topic/Lesson	Accounting for Not-for-Profit Organizations (This topic is divided in fifteen lesson of 50 minutes each)				
Period Required	15 (Fifteen Periods)	Link for the NCERT Text Book	https://ncert.nic.in/textbook.php?leac1=1-5		
Date of Commencement	01/04/2021 (01st April, 2021)				
Date of Completion	15/04/2021 (15th April, 2021)				
Gist of Lesson Focused skills/Competencies	Targeted learning outcomes (TLO)	Teaching learning activities planned for achieving the TLO using suitable resources and classroom management strategies	Assessment Strategies Planned	Assignments (Assessment for Learning)	Co-relation with other subjects
(1) Not-for-profit organizations: concept. (2) Receipts and Payments Account: features and preparation. (3) Income and Expenditure Account: features, preparation of	(1) Differentiates between financial statements of business and non-business entities. (2) Recalls the concepts of profit, surplus, loss and deficit in the context of financial statements of business and non-business entities. (3) Lists the features of receipts and payments account, income and expenditure account, profit and loss account and balance sheet. (4) Discuss the specific items of income	(1) Differentiates between Income and Expenditure Account and Profit and Loss Account. (2) Enlist the specific incomes of Not-for-Profit Organisations and classify into Revenue items and Capital items. (3) Draw the Receipts & Payment Account and Income & Expenditure Account with imaginary head of accounts	(1) Competency based and objective question to be asked in Google Form (2) Work Sheet may give for subjective assessment in the google class-room. LINK FOR GOOGLE FORM	https://docs.google.com/forms/d/1VfdT1zdYv4DGJZ55o5LbRsfhbZYD-5cj1x1nuwYucfl/edit?usp=sharing	Not-for-Profit Organisations are well familiarized with daily life such as - School, Charitable Hospital, Social Club which does not have motive of earning profits. These organisations are doing its activities for betterment of life of human being. Therefore, its more concerned with social science. NPOs are also take part in the economic activities and hence its also relates with the subject Economics.

income and expenditure account and balance sheet from the given receipts and payments account with additional information.	and expenditure and how they are treated using accrual basis of accounting. (5) Develop the understanding and skill of preparing income and expenditure account and balance sheet of a not-for-profit organisation with the help of given receipts and payments account and additional information.	and figures. (4) Prepare the Income and Expenditure Account and Balance Sheet of a Not-for-Profit Organisation with the help of Receipts and Payments Account and additional information.	TEST		
			https://forms.gle/Kj1xvdNmhxhcb1k57		

MICRO – LESSON PLAN

CLASS: XII SUBJECT: ACCOUNTANCY

SUBJECT	ACCOUNTANCY		PERIOD	FIRST
TOPIC	ACCOUNTING FOR NOT-FOR-PROFIT ORGANISATIONS			
DATE	01.04.2021		TIMING	40 MINUTES
Contents	(1) Meaning & Features of NPO (2) Source of Incomes (3) Difference between Capital & Revenue items			
General Aims	To develop knowledge regarding meaning & difference between NPO and Profit-making organisations To Develop understanding on different source of Incomes and Differentiates between Capital & Revenue items			
Instructional Objectives	Making students able to understand the concept of Not-for-Profit Organisations Developing ability to interpret between profit-making organisation and NPO Enable the students to understand the source of incomes and differentiates between Capital & Revenue items			
Application	Analysing the role of NPO Applying the knowledge of various income in terms of capital & revenue nature to be prepared Financial Statements			
Teaching Aids	Lap top, Internet connection, Smart Board, PPT, Mind Map chart ...			
Previous Knowledge	What is the difference between economic and non-economic activities? What are the purposes to prepare financial statements?			
Announcement of topic	Well students, today we will discuss about Accounting for Not-for-Profit Organisations			
Presentation	Power Point Presentation on the topic – Concept of NPO and Source of Incomes			

Gist of Lesson Focused skills/Competencies	Targeted learning outcomes (TLO)	Teaching learning activities planned for achieving the TLO using suitable resources and classroom management strategies	Assessment Strategies Planned	Assessment as Learning
Not-for-profit organizations: concept. (meaning &features) Source of Incomes and classification into Revenue and Capital nature.	Students will be able to understand to: 1. State and differentiate between NPO and profit-making firm 2. Enlist the specific incomes of Not-for- Profit Organisations and classify into Revenue items and Capital items.	1. Draw a table to differentiates between NPO and Profit making firm (2) Enlist the specific source of incomes and classify into Revenue and Capital nature	Competency and Objective based questions will be asked in the Google form.	https://forms.gle/Kj1xvdNmhxhcb1k57

Class	Hard copy of the Accountancy material for the students not having proper devices and connectivity
XII	https://drive.google.com/file/d/1GIm2IA_ALdTnLgGefM1bneWSptUAaKSO/view?usp=drive_web&authuser=1

Prepared BY
(GIRIRAJ SHRIVASTAVA)
PGT COMMERCE, KV NO. 01 RAIPUR

KENDRIYA VIDYALAYA SANGATHAN RO, RAIPUR

SPLIT UP SYLLABUS (2021-22)

SUBJECT- ECONOMICS (030)

CLASS- XII

Months	Number of Working Days	Number of Periods	Name of the Unit / Chapter/ Topic	Learning Outcomes to be Covered as per (TRALO)	Suggested Projects/ Practical/ Activities Under Internal Assessment	Important Link of DIKSHA/ CBSE/PPTs
APRIL	14	28	NATIONAL INCOME AND RELATED AGGREGATES	The learners are expected to get some basic idea about macroeconomics, circular flow of income, calculation of national income.	Worksheets on computation of National Income, Private Income and Personal Income. (Monthly Test)	https://diksha.gov.in/play/collect ion/do_3131034754331115521988?referrer=utm_source%3Dmobile%26utm_campaign%3Dshare_content&contentId=do_313080238804967424114293
MAY-JUNE	08	15	MONEY AND BANKING	The students will be able to know the process of money creation, functions of central bank, concept of money and money supply.	Visit to a bank for explaining functional of commercial bank with credit creation process Panel Discussion on Government Budget and its components.	https://diksha.gov.in/play/collect ion/do_3131034754331115521988?referrer=utm_source%3Dmobile%26utm_campaign%3Dshare_content&contentId=do_31307123748991795211773
JULY	21	42	DETERMINATION OF INCOME AND EMPLOYMENT	The students will understand the AD and AS, MPC and MPS, excess demand and deficient demand, government's budget components.	Worksheets on each concept and numerical	https://diksha.gov.in/play/collect ion/do_3131034754331115521988?referrer=utm_source%3Dmobile%26utm_campaign%3Dshare_content&contentId=do_31312408874303488011608

			GOVERNMENT BUDGET AND THE ECONOMY		(Monthly Test)	
AUGUST	15	29	BALANCE OF PAYMENT. FOREIGN EXCHANGE RATE. DEVELOPMENT EXPERIENCE (1947-90) AND ECONOMIC REFORMS SINCE 1991 (1) *STATE OF INDIAN ECONOMY ON THE EVE OF INDEPENDENCE *FIVE YEAR PLANS	After going through this unit, the learner will be able to know about BOP and BOT, determination of exchange rate, features of the Indian economy and aims and objectives of five-year plans.	Exercise of Case Study Based Questions (Monthly Test)	https://diksha.gov.in/play/collect ion/do_31310347543311155219 88?referrer=utm_source%3Dmo bile%26utm_campaign%3Dshare_content&contentId=do_31312 409078201548811391
SEPTEMBER	22	44	DEVELOPMENT EXPERIENCE (1947-90) AND ECONOMIC REFORMS SINCE 1991 (2) *INDIAN AGRICULTURE. *INDUSTRY *FOREIGN TRADE *LPG POLICY, DEMONATIZATION AND GST CURRENT CHALLENGES FACING INDIAN ECONOMY-1 (1) POVERTY (2) HUMAN CAPITAL FORMATION	The students will know and analysis the conditions of the Indian agriculture, industry, foreign trade, LPG policy, poverty, human capital formation.	Exercise of Case Study Based Questions (Monthly Test)	https://diksha.gov.in/play/collect ion/do_31310347532488704019 40?referrer=utm_source%3Dmo bile%26utm_campaign%3Dshare_content&contentId=do_31298 5622242820096194 https://diksha.gov.in/play/collect ion/do_31310347532488704019 40?referrer=utm_source%3Dmo bile%26utm_campaign%3Dshare_content&contentId=do_31309 286416263577611145
			CURRENT CHALLENGES FACING	The students will be able to understand about the process of rural development,	Exercise of Case Study Based Questions, LA, SA, VSA	https://drive.google.com/file/d/1 A-

OCTOBER (AUTUMN BREAK-PROJECT WORK)	15	30	INDIAN ECONOMY-2 (3) RURAL DEVELOPMENT (4) EMPLOYMENT AND UNEMPLOYMENT (5) INFRASTRUCTURE (6) SUSTAINABLE ECONOMIC DEVELOPMENT.	types of unemployment, role of infrastructure, sustainable development and environment issues.	questions. (Half Yearly Exam)	2tKONpR7EtwrE5sPk1kgfVm8Oo5NJ/view?usp=sharing https://drive.google.com/file/d/14TStvLOxZ3UWM3wopWoKekmAu7WpbC1m/view?usp=sharing
NOVEMBER (FIRST WEEK)	06	12	DEVELOPMENT EXPERIENCE OF INDIA, CHINA AND PAKISTAN.	The students will be able to compare the economy of India, China and Pak.	Exercise of Case Study Based Questions	https://drive.google.com/file/d/1HngZ-IpPIhfy0C90zHeUpe9VVPCqiyRN/view?usp=sharing
DECEMBER			REVISION		(Pre- Board I)	https://docs.google.com/forms/d/19srV6HMKSTKWGx7Y9oMPcAJBjs6m7o4wSvimx-Cs9vQ/edit?usp=sharing
JANUARY			REVISION		(Pre- Board II)	https://docs.google.com/forms/d/1b5O3ygXGC1mMyscsc7I2_pOnQhdDksknknkKenw3MEg/edit?usp=sharing

Note: -

- Syllabus for monthly test will be cumulative.
- 50% syllabus will come from the concerned month and 50% will come from previous months.

KENDRIYA VIDYALAYA SANGATHAN, RAIPUR (C.G.)

LESSON PLAN

Subject: - Economics

Class: - XII

Topic: - Money and Banking

Period Required: -

Date of Commencement: -

Date of Completion: -

GIST OF LESSON	TLO	ACTIVITES TO ACHIEVE TLO	ASSESSMENT STRATEGIES	CORRELATION WITH OTHER SUBJECTS
Concept of Money	The students will be able to know about the concept of money, origin of money, types of money.	Visit to a bank for explaining functional of commercial bank with credit creation process Panel Discussion on Government Budget and its components.	Case Study Based Questions	Social- Science
Supply of Money	They will understand the role RBI, government and commercial banks in supply of money		Multiple Choice Questions	
Money Creation	The learners will come to know the process of money creation by different commercial banks.		True/ False	Statistics
Commercial Banks	They will be also able to analysis the different functions of RBI as central bank of India.		Matching	Mathematics
Central Bank's Functions			Long Answer Type Questions	
Bank Rate, CRR, SLR		PPTs presentations, Chalk board work, Illustration with examples.	Short Answer Type Questions	Business Studies
Repo Rate, Reverse Repo Rate	The students will be able to find the difference between Bank rate, interest rate, LRR, CRR, SLR Repo Rate, Reverse Repo Rate,	Active participation of the students in teaching learning process.	Assignment Work	
			Group Discussion/	Accounts

Open Market Operations	Open Market Operations		Quiz	
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LESSON PLAN

Subject: - Economics

Class: - XII

Topic: - Propensity to Consume & Savings

Period Required: -

Date of Commencement: -

Date of Completion: -

GIST OF LESSON	TLO	ACTIVITES TO ACHIEVE TLO	ASSESSMENT STRATEGIES	CORRELATION WITH OTHER SUBJECTS
Concept of Demand	The students will be able to know about the concept of demand.	The concept will be discussed with the help of PPTs and the difference among wish, need, demand will be clarified with the help of relevant examples.	Write about the concept of demand.	
Difference among wish, need, demand	They will understand the role of demand as the market force.		Discuss demand as an important force of market.	Statistics
Market Demand	The learners will come to the difference among wish, need, demand	There will be shown a difference between individual and market demand with the help of a table and diagram.	How is wish, need a part of demand?	Mathematics
	They will be also able to make difference between individual demand and			

Demand Schedule	market demand. The students will be able to make demand schedule with the help of given price and quantity demanded.	Demand curve will be drawn on chalkboard and the reasons will be discussed why its slope is negative.	Show the relationship and difference of individual and market demand with the help of a diagram.	
Demand Curve and its Slope	The students will be able to draw demand curve with the help of demand schedule & understand the reason why its slope is negative.			

Statement of Teaching Philosophy (STP)

ECONOMICS XII

- Economics is synthesis, empirical and technical subject. Keeping this in the mind, we have to teach this subject in such a way that every concept should be clear to the students and we have to make the students such capable that they can applicable the knowledge of Economics in daily life situations.
- Economy of the country has main role, but economic variables are changeable according to time and different situations. We have to make the students up to date about the latest economic situations.
- We have to teach Economics for the betterment to the students so that he/she may be give contribution towards the economic growth and development of the nation and whole world

SWOT Analysis During Online Classes

ECONOMICS XI & XII (Mr Pardeep Kumar PGT Economics)



<p>Strength –</p> <ul style="list-style-type: none">• Every student has device such as computer, laptop or mobile phone for online classes.• They have internet connectivity also.• They are interested to attend online classes.• The students are motivated by the teachers and the parents to attend the online classes	<p>Weakness-</p> <ul style="list-style-type: none">• Some students are not active during the online classes.• Network issue in rural area.• Partial device facility
<p>Opportunities-</p> <ul style="list-style-type: none">• The students get a chance to become more techniques friendly.• Online teaching- learning process is a good alternate of real classroom teaching in such a pandemic period of Covid-19.• This is better for the development of IT sector in India	<p>Threats –</p> <ul style="list-style-type: none">• The students can become the addict of screen.• The students can become passive audience.• Sometimes, it is found that students are not listening, not submitting assignments timely or taking active role during online class.• It has been observed that due to exposure of eyes on electronic devices, visibility is being deteriorating.• We have to focus more on mental and physical health of the learners.

Month / No of Working Days	pr	Name of the Unit	Name Chapter	Learning Outcomes
		Themes in Indian History Part -I (Units 1-4)		
April 2021	13	Unit -1	The story of the First Cities : Harappan Archaeology	State and deduce the multi-lateral aspects of Harappan civilization in order to understand the first civilization of the world. Develop an ability to use and analyze socio- economic, political aspects of Harappa. Investigate and interpret historical and contemporary resources and view points of ASI and historians on Harrappa.
	14	Unit-2	Political and Economic History: How Inscriptions tell a story	
	14	Unit-3	Social Histories: Using the Mahabharata	
	14	Unit-4	A History of Buddhism : Sanchi Stupa	
		Themes in India History Part-II (Units 5-9)		
June – 2021	13	Unit-5	Medieval Society through Travellers Accounts	Identify the accounts of foreign travellers in order to understand the social political and economical life during the tenure of different rulers in the medieval period. Compare and contrast the perspectives of AL Biruni , Ibn Battuta and Bernier towards Indian society.
June – 2021	13	Unit-6	Religious Histories :TheBakti-sufi Tradition	Summarize the philosophies of different Bhakti and Sufi saints to understand the religious developments during medieval period. Comprehend the religious movement in order to establish unity, peace, harmony and brotherhood in society.
July 2021	13	Unit-7	New Architecture: Hampi	Classify the distinctive architectural contributions of the Vijayanagar empire to comprehend the richness of mingled cultures of deccan India. Analyse accounts of foreign traveller’s on Vijayanagar in order to interpret political, social and cultural life of the city.
	13	Unit-8	Agrarian Relations: The Ain-i-Akbari	Comprehend the facets of agrarian developments in order to the relation between the state and agriculture during Mughal period. Compare and contrast the agrarian changes occurred during sixteenth and seventeenth centuries.

	13	Unit-9	The Mughal Court: Reconstructing Histories through chronicles	Summarize the political and social practices of Mughal empire in order to understand their administrative dynamics. Examine the account given in the chronicles to reconstruct the social, religious and cultural history of Mughals.
		Themes in India History Part-III(Units 10-15)		
August 2021	13	Unit 10	Colonialism and Rural Society: Evidence from Official Reports	Compare and contrast the revenue systems introduced by the British in order to understand the economic aspects of colonization in India. Analyse the colonial official records & reports in order to understand the divergent interest of British and Indians.
	13	Unit 11	Representations of 1857	Correlate the planning and coordination of the rebels of 1857 to infer its domains and nature. Examine the momentum of the revolt in order to understand its spread. Analyze how revolt created vision of unity amongst Indians. Identify and Interpret visual images to understand the emotions portrayed and by the nationalist and British.
	13	Unit 12	Colonialism and Indian Towns : Town Plans and Municipal Reports	Compare and contrast the different patterns of urban culture during different phases. Analyse the rationale of British in the planning of the colonial prime cities: Calcutta, Bombay and Madras. Illustrate and examine different architectural styles adopted by British in India.
September 2021	13	Unit 13	Mahatma Gandhi through Contemporary Eyes	Correlate the significant elements of the nationalist movement and the nature of ideas, individuals and institutions under the Gandhian Leadership. Analyse the significant contributions of Gandhiji in order to understand his mass appeal for nationalism. Analyse the perceptions and contributions of different communities towards the Gandhian Movement. Analyse the ways of interpreting historical source such as newspapers, biographies and auto-biographies diaries and letters.
	14	Unit 14	Partition through Oral Sources	Examine the developments that helped in the culmination of communal politics in the earlier

				<p>decades of in twentieth century in order to understand the causes, event and the consequences of partition of India.</p> <p>Summarize and contextualize the events and options surrounding the Partition of India.</p> <p>Infer and interpret the experiences of people in order to understand the aspects of partition.</p> <p>Examine the nature, relevance and limitations of oral testimonies in reconstruction of History as a source.</p>
October 2021	14	Unit 15	The Making of the Constitution	<p>Highlight the role of Constituent Assembly in order to understand functionaries in framing the constitution of India.</p> <p>Analyse how debates and discussions around important issues in the constituent assembly shaped our constitution.</p>
November 2021	10		Map work	To practice map work
	10		Project work	Prepare and finalise the project work assigned.
December 2021	20	Revision	Units (1- 5)	To revise and prepare students for the Pre board Exam
January 2021	20	Revision	Units (06-09)	To revise and prepare students for the Pre board Exam
February 2021	15	Revision	Units (10-15)	To revise and prepare students for the Pre board Exam

Month	Number of working days	Number of periods (Book wise)	Name of the Unit / Number and Name of the Chapter	Learning outcomes to be covered as per (TLO) Learners will be able to -	Suggested Projects/ Practicals/ Activities under internal assessment	Assignment for the Students	Important links
April/May	23	34	Book-1, Unit-1, Ch-1, Human Geography: Nature	Understand and analyse the inter-relationship between physical and human environments and their impact	Practical, (Unit-1), Ch-1, Data, Its source and Compilation 1st Monthly test	Define human geography. How it is different from physical geography? Explain Differentiate between 'naturalisation of human' and 'humanisation of nature'. 3 Who propounded Neodeterminism? Explain about this concept. Explain briefly about the dynamic approaches of human geography. Does human Geography has some subfield also? If yes then explain briefly.	https://diksha.gov.in/play/collectio n/do 3131034754159 7388811425?content Id=do 313081780090 044416113052
			Ch-2, The World population, distribution, density ..	Explain population growth and factors affecting it. Understand population growth, reasons for migration	Oral Questions	What are the components of population change? Explain them. What are geographical factors which influence the distribution of population? Explain in detail. Which theory predict the future population of any area? Explain in detail about it. Describe the trends of world's population growth. What do you know about the density of population? How to calculate it?	https://diksha.gov.in/play/collectio n/do 3131034754159 7388811425?content Id=do 313081779641 991168114906

		Ch-3, Population Composition	Explain the population composition which includes age, sex, literacy, occupational structure etc.		Name the countries where highest and lowest sex ratio have been recorded and why. Mention the name which is used to show the age sex structure of the population and explain it with diagram. OR Differentiate between Expanding population and Constant population pyramid. Do you think that the rural urban composition in the world is different between developed and developing countries. Describe. What is sex ratio? How is it calculated in various part of world? Explain.	https://diksha.gov.in/play/collectio n/do_31310347541597388811425?content Id=do_31308579021103923212839
		Book-2, Unit-1, Ch-1, Population Distribution, Density, Growth and Composition	Distinguish between distribution and density of populaiton. Indentify the factors for uneven distribution of population.		"The distribution of population is very uneven" support this statement. Explain about the density of population of India. Distinguish between 'agricultural density' and 'physiological density'. Do you find any difference between 'growth rate of population' and 'growth of population'? If yes then describe in the context of India. Why first phase of Indian population is known as 'stagnant' and third phase 'explosive' in the last century? Explain.	https://diksha.gov.in/play/collectio n/do_3131034754202501121986?contentI d=do_313088070083436544128 https://diksha.gov.in/play/collectio n/do_3131034754202501121986?contentI d=do_31320470589063168014542
		Ch-2, Migration: Types, Causes and Consequences	Distinguish between emigration and immigration. Explain the causes and effects of migration.		Explain the three waves of migration of Indian diaspora. Describe the streams of migration in India. Do you find spatial variations of migration? If yes then explain. Briefly explain the causes of migration.	https://diksha.gov.in/play/collectio n/do_3131034754202501121986?contentI d=do_3130880732682158081364

						Explain in detail about the consequences of migration.	
June	9	13	Book-1, Unit-2, Ch-4, Human Development	Describes the human development, its significance and its approaches	Quiz	Differentiate between growth and development. What do you know about human development? How is it measured? Explain all the pillars of Human Development. Distinguish between 'Basic need approach' and 'Capability approach'. Distinguish between HDI and HPI. What conclusion do you find after making international comparison of HDI.	https://diksha.gov.in/play/collectio n/do_31310347541597388811425?content Id=do_31308790815779225614
			Book-2, Unit-1, Ch-3, Human Development	Explain about the human development in India. It focus maximum on education, health and Income for the development.		Which factors have caused spatial variations in the levels of Human Development among the states in India? Explain in detail. Define human development and explain it. What are various objectives of Swachchha Bharat Mission? "Development must be woven around people, not the people around development" support this statement in your words. What are various indicators used for preparing HDI? Briefly explain.	https://diksha.gov.in/play/collectio n/do_3131034754202501121986?contentI d=do_313088593544028160184

July	26	37	Book-1, Unit-3, Ch- 5, Primary Activities	Explain about various types of agriculture and allied activities, its characteristics. Learners explain efficiently about why on a particular place, a particular types agriculture is practised	Practical (Unit-1), Ch-2, Data Processing 2nd Monthly Test	Differentiate between Nomadic Herding and Commercial Livestock Rearing. Discuss the important characteristic features of plantation agriculture. Name a few important plantation crops from different countries. Explain the difference between Collective and Cooperative agriculture.	https://diksha.gov.in/play/collectio n/do 3131034754159 7388811425?content Id=do 313105635256 16435213376
			Ch-6, Secondary Activities	Explain the manufacturing process, reasons for establishment of any industry on any particular places.		What do you know about the manufacturing? Explain. Describe the characteristics of modern large scale manufacturing industries. Mr X is an industrialist, he want to establish his factory. What are the factors must be kept in mind during establishment of his factory. Explain. Classify the manufacturing industry on the basis of raw material with examples. Briefly explain The Ruhr coal-field region.	https://diksha.gov.in/play/collectio n/do 3131034754159 7388811425?content Id=do 313135443418 82470411169

			Ch-7, Tertiary Activities	Explain the hierarchy of services. Distinguish between KPO and BPO. Quarternary and Quinary activities. Describe about the factors which influence the services		Explain in detail the significance of transport and communication services. Discuss the significance and growth of the service sector in modern economic development. How tourism has become very beneficial at present? What are the factors which influence tourism. What do you know about Medical Tourism? Explain. Distinguish between Quaternary and Quinary activities.	https://diksha.gov .in/play/collectio n/do_3131034754159 7388811425?content Id=do_313123442802 278400129
			Book-2, Unit-2, Ch- 4, Human Settlements	Explain the types of settlement, urbanisation, functional classification of town in India.		Discuss the features of different types of rural settlements. What are the factors responsible for the settlement patterns in different physical environments? Can one imagine the presence of only one-function town? Why do the cities become multi-functional? Classify the towns on the basis of evolution. Explain. Classify the towns on the basis of population size. Explain the various functional classification of Towns.	https://diksha.gov .in/play/collectio n/do_3131034754202 501121986?contentI d=do_3130993042555 453441454

August	24	35	Book-1, Unit-4, Ch-8, Transport and Communication	Describe all types of modes of transportation. Know why and how on a particular place, a particular type of transport is required.	Practical (Unit-1), Ch-3 Graphical Representation of Data. 3rd Monthly Test	Transport and communication services are called the lifeline of a country, Explain. Air transport becoming more popular in the world day by day in spite of its high cost. Why? Why railway is preferred more rather than roadways although Roadways provide door-to- door services. Why more than 90% foreign trade are carried out through waterways not by other means of transportation? Explain. What do you know about trans continental highways? Briefly explain about the trans-continental Stuart highway.	https://diksha.gov.in/play/collectio n/do 3131034754159 7388811425?content Id=do 313189512672 6901761232
			Ch-9, International Trade	Explain the bilateral and multilateral trade, free trade, balance of payment, regional trade blocks etc.	Map Work, Oral Questions	What is the basic function of the World Trade Organisation? What benefits do nations get by forming trading blocs? Why is it detrimental for a nation to have negative balance of payments? How are ports helpful for trade? Give a classification of ports on the basis of their location.	https://diksha.gov.in/play/collectio n/do 3131034754159 7388811425?content Id=do 313214699795 29216011047

		Book-2, Unit-3, Ch-5, Land Resource and Agriculture	Describe the land use pattern in India, cropping intensity and seasons, various food and commercial crops, agricultural development etc.	Viva	How would you distinguish between net sown area and gross cropped area? How do you measure total cultivable land? What are the important strategies from agricultural development followed in the post-independence period in India? What are different types of environmental problems of land resources in India?	https://diksha.gov.in/play/collectio n/do_3131034754202501121986?contentI d=do_3131029519584952321814
		Ch-6, Water Resource	Describe various demands of water, deterioration of water quality, management and conservation of water.		It is said that the water resources in India have been depleting very fast. Discuss the factors responsible for depletion of water resources? Why the groundwater utilization is very high in the states of Punjab, Haryana, Rajasthan and Tamil Nadu? What is watershed management? Do you think it can play an important role in sustainable development? Why do you think that irrigation is necessary? What are various problems due to overirrigation?	https://diksha.gov.in/play/collectio n/do_3131034754202501121986?contentI d=do_31310514722545664013246
		Ch-7, Mineral and Energy Resources	Explain the distribution and types minerals, energy resources, non conventional sources of energy resources and its conservation.		What is Nuclear power? Mention the important nuclear power stations in India. Name non-ferrous metal. Discuss their spatial distribution. What are Non-Conventional sources of energy? Give an account of the distribution of mica in India. Write a short note on the	https://diksha.gov.in/play/collectio n/do_3131034754202501121986?contentI d=do_31310438193675468812445

						petroleum resources in India.	
Sept embe r	25	37	Book-1, Unit-5, Ch- 10, Human Settlement	Explain about the types of human settlements, factors of development, various functions of cities etc.	Practical (Unit-2), Ch-4, Use of Computer in Data processing and Mapping	Discuss the classification criteria of Urban area to rural areas. Explain the factors affecting rural settlements. Describe rural settlement patterns. What are the problems of rural settlements? Define urban settlements. Classify urban settlements. What are various functions played by urban settlements? Explain	<a href="https://diksha.gov.in/play/collectio
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7388811425?content
Id=do_313105635383
87763212501">https://diksha.gov .in/play/collectio n/do_3131034754159 7388811425?content Id=do_313105635383 87763212501
			Book-2, Unit-3, Ch- 8, Manufacturin g Industries	Explain about the factors of location of industries, various steel plants, sugar, petro-chemical and cotton industries and industrial regions	Quiz	Prove that sugar industry is a seasonal industry? What is the major impact of information technology revolution in India? How did the Swadeshi Movement give a major impetus to the cotton textiles? What do you understand by Liberalisation, Privatization and Globalisation? Why do you think that the iron and steel industry is basic to the industrial development of any	<a href="https://diksha.gov.in/play/collectio
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						country?	
			Ch-9, Planning and Sustainable Development in Indian context	Describe target area plans, sustainable development, Case study of Bharmaur region and Indra Gandhi canal.	4th Monthly Test	What are the types of planning? Explain What do you know about Target Area Planning? Mention in any three points about Hill Area Development Programme in India. Explain in any five points about Drought prone area programme. Briefly explain about 'Integrated tribal development project in Bharmaur region'. What do you know about the Sustainable Development? How this term came to Light?	https://diksha.gov.in/play/collectio n/do_3131034754202501121986?contentI d=do_31310514733034700812411
October	15	22	Book-2, Unit-4, Ch-10, Transport and Communicatio n	Explain about the national high ways, railways, water ways and air ways, their characteristics and importance for development of India.	Practical (Unit-2), Ch-5/6, Field Survery or Spatial Information Technology	Discuss advantages and disadvantages of pipeline transportation. What do you mean by Communication? Discuss the contribution of Air India and Indian in the air transport of India. Which activity does transportation convey. Name three major modes of	https://diksha.gov.in/play/collectio n/do_3131034754202501121986?contentI d=do_31321700139705139211810

						Transportation.		
			Ch-11, International Trade	Explain the import and export, various seaports for facilitation of international trade.	Map Work, Oral Questions Half Yearly Examination	Explain the meaning of Hinterland. Name the important items which India imports from different countries. Describe the composition of export and import trade of India. Distinguish between port and harbor. Mention the characteristics of India's foreign trade.	https://diksha.gov.in/play/collectio n/do_3131034754202501121986?contentI d=do_3132246131996016641307	
November	21	31	Book-2, Unit-5, Ch-12, Geographical Perspective on Selected issues and problems	Explain pollutions as water, air, soil and noise pollution. Identify pollutants and the sources of pollution, Explain reasons for creation of slums and case of Jabua district of MP.		Describe any five problems of slums in India. How does air pollution and noise pollution affect human health? "Indiscriminate use of water by increasing population and industrial expansion has led to degradation of the water quality considerably in India." Explain the values that can help in maintaining the quality of water. "The Urban waste should be properly treated as a resource for various needs of mankind." Explain the values that can help in changing the urban waste into resources. Why is the 'Urban Waste Disposal' a serious problem in India? Explain any three reasons.	https://diksha.gov.in/play/collectio n/do_3131034754202501121986?contentI d=do_3131920956808069121651	
			Revision		Slip Test			
Dec	18	27	I Pre-Board Examination					
Jan	24	36	II Pre-Board Examination					
Feb	22	33	Annual Practical Examination					
March	AISSCE 2022							

Lesson Plan (for Single period)

Class XII

Subject- Geography

Topic/ Lesson-The World Population Distribution Density and Growth

Period required- 20

Time duration: 40 Minutes

Gist Of Unit/ Focused skill and Competencies Activities Or Demonstration	Targeted Learning Outcomes (TLO)	Teaching learning activities planned for achieving the TLO using suitable resources and classroom management strategies	Assessment Strategies planned	Co-Relation With Other Subjects
<p>Factors which affect the distribution of population</p> <p>1.Geographical factors</p> <ul style="list-style-type: none"> - Availability of water - Favorable Climate - Fertile Soils - Relief <p>2. Economic factors</p> <ul style="list-style-type: none"> - Mineral - Urbanization - Industrialization <p>3.Social and Cultural Factors.</p> <ul style="list-style-type: none"> -Social and political unrest - Government plan for rehabilitation or promoting habitation 	<p>Learners will be able to explain about why on a particular place the density of population is very high and why minimum on somewhere.</p> <p>They will also explain that although on some places favourable climate is not found yet density of population is high. What may be the reason behind it?</p>	<p>Students will be shown the photos/ picture and videos so that students can be familiarize. In this process they will understand and can explain also about the teaching content.</p> <p>Focus will be on cause and the effect of the teaching content.</p> <p>Students will be segregated according to their achievement.</p> <p>Group discussion can also be done so that it can be gauged their achievement.</p> <p>Show the area of high and low density of population in each continents on the World map</p> <p>During the teaching below Questions will be asked and discussed.</p> <ol style="list-style-type: none"> 1.What are various geographical factors which affect the distribution of population? Explain them. 2. What are various economic factors that affect the distribution of population? Explain them. 3. Although there are many places where there is not favourable climate yet people are found. What may be the reasons? 	<p>The assessment will be both during teaching and after teaching.</p> <p>During teaching below can be done</p> <ul style="list-style-type: none"> -Group discussion - Asking question to the class - Encourage the students to draw map and locate the information. <p>Etc.</p> <p>After teaching assessment</p> <ul style="list-style-type: none"> -Quiz - Through Google form - Through classroom Presentation - Daily assignment through Google Classroom. - Question paper through Google classroom for solving. <p>Below mentioned questions will be assigned to students to solving and submit through classroom.</p> <ol style="list-style-type: none"> 1. Give reasons, why the distribution of population is not found even in the World? 2. “Asia has many places where people are few and few places where people are very many”. Support this statement in your words. 3. How the policies of government 	<p>Economics- Population density is affected by the availability of economic activities.</p>

			are responsible for the distribution of population?	
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Lesson Plan (for 14 days plan)

Class XII

Subject- Geography

Topic/ Lesson-The World Population Distribution Density and Growth

Period required- 20

Date of Commencement: 1 August 2021

Date of Completion: 14 August 2021

Gist Of Unit/ Focused skill and Competencies Activities Or Demonstration	Targeted Learning Outcomes (TLO)	Teaching learning activities planned for achieving the TLO using suitable resources and classroom management strategies	Assessment Strategies planned	Co-Relation With Other Subjects
<p><u>The World Population-</u> Distribution and Density of Population <u>Population change-</u> Births Deaths Migration- Push and Pull factors in Migration Factors Influencing the distribution</p>	<p>Learners will be able to explain about distribution of population and density of population.</p> <p>They can easily explain about birth rate, death rate and migration.</p> <p>Learners will be able to describe about various causes of push and pull factors for migration.</p> <p>They can distinguish between Immigration and Emigration.</p>	<p>They will be shown the photos/ picture and videos so that students can be familiarize. In this process they will understand and can explain also about the teaching content.</p> <p>Focus will be on cause and the effect of the teaching content.</p> <p>Students will be segregated according to their achievement.</p> <p>Group discussion can also be done so that it can be gauged their achievement.</p> <p>Show the area of high and low density of population in each continents on the World map</p>	<p>The assessment will be both during teaching and after teaching. During teaching below can be done</p> <ul style="list-style-type: none"> -Group discussion - Asking question to the class - Encourage the students to draw map and locate the information. Etc. <p>After teaching assessment</p> <ul style="list-style-type: none"> -Quiz - Through Google form - Through classroom Presentation - Daily assignment through Google Classroom. - Question paper through Google classroom for solving. <p>Below mentioned questions will be assigned to students to solving and submit through classroom.</p> <ol style="list-style-type: none"> 1. Define Density of population. 2. Give reasons, why the distribution 	<p>Economics- Population density is affected by the availability of economic activities.</p>

of Population- 1.Geographical factors 2. Economic factors 3.Social and Cultural Factors.		<u>AAC</u> Locate and label the largest country of each continent on the world map and submit it in Google Classroom by tomorrow.	of population is not found even in the World? 3. Compare the population density of India with the world population density. 4. Explain the Push and Pull factors of migration.	
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Problems/ Challenges during online classes

Obviously there are some problems which are observed during online classes. Some of them are as given below -

Network issue- This is really a genuine problem. Not only the students are facing it but also the teachers.

Negligence of the students- It has been found that some students are not so much dedicated to the studies so they only connect the classes but don't listen or serious for their study.

Home assignment- Some students do not submit their home assignment on time despite teacher remind.

Imitation/ unfair means- Many times it has been found that some students do not solve question paper by themselves but they imitate from their notes or elsewhere.

Above are some problems or challenges during online classes.

Plan of action to overcome the problems during online class

- Motivate the parents to have better connectivity for the network services.
- Parents teachers meeting must be done frequently so that they can be informed about the progress, position of their wards.
- Home assignment must be submitted. Parents must be proactive for their wards future and performance. They should be informed their responsibility in this regard.
- Without any doubt, in online classes the role of parents have increased. It is because, the parents are there at home not the teacher. It is being found during tests or examinations, the students are using unfair means to get better marks. They imitate from their notes or elsewhere. The parents must be accountable for these.

Above are some problems and solution during online class.

**Statement of Teaching Philosophy
(STP in Geography for classes 11th and 12th)**

- As we know that Geography is synthesis, empirical and practical subject. Keeping this in the mind, we have to teach this subject in such a way that it could feel/ touch the spirit of the subject. For us the environment is laboratory. We can experiment, understand and impart it among the student.
- Change is the universal law of the nature, which is happening since evolution of the universe. We have to instill among the student about this change. Changes are being observed in the Mountains, rivers, plain and forests. Changes are also taking place among the demographic attributes.
- We have to teach Geography for the betterment to the students so that he/she may be human capital for the development of the nation and their families.

SWOT Analysis during online classes

Strength -

- Every student has device such as computer, laptop or mobile for online classes.
- They have internet connectivity also.

Weakness-

- Some students are less responsive for their part. They are not as active as required.
- Proper internet connectivity is major drawbacks.

Opportunities-

- There is good environment for teaching learning process. Slow learners have to be encouraged to be active.
- Overall behaviour of both parents and students are good. They have to be motivated for better outcomes.

Threats -

- Sometimes, it is found that students are not listening, not submitting assignments timely or taking active role during online class.
- It has been observed that due to exposure of eyes on electronic devices, visibility is being deteriorating.
- We have to focus more on mental and physical health of the learners.

Prepared by Shri. Abhay Kumar Vishwakarma PGT (Geography) KV Kanker

Prepared and compiled by KVS RO Raipur.