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PREFACE

The syllabus for Class XI has been compiled in accordance with the curriculum set by CBSE and the guidelines provided by the CBSE from time to time.

The course aims to provide certain objectives which have been enlisted in the syllabus booklet.

The chapterwise allocation of marks has been provided for the students, list of help books / textbooks and other literature related to the specific subject has also been provided.

Students are advised to read their "NCERT" text books, first and along with it refer to those added materials.

We hope that our work proves to be helpful to the students and to the faculty members.

GENERAL GUIDELINES FOR THE STUDENTS

1. Students should be present in the class at the start of the period and reach in time for all other activities and functions.
2. Attendance on the last day of school before vacation and first day of the school after vacations is absolutely essential.
3. Students are required to behave politely at all times and should not use indecent languages or, indulge in fights and quarrels with other children in the school. Any behaviour likely to cause hurt to others in the matter of language, religion or community is strictly prohibited.
4. Children should refrain themselves from the following activities :
Spitting in or near the school building, disfiguring or otherwise damaging the school property, smoking any form of gambling use of drugs, intoxicants, rowdyism and rude behaviour, use of violence in any form and casteism and communalism.
5. No students should scratch or damage the school property or write or draw on the walls or cause damage in any way to any item belonging to the school or to others in the school. Any damage done will render the students liable for recovery of damages.
6. In the absence of the teacher from the classroom students are required to observe silence and obey the monitor of the class.
7. Every student should have his/her own textbook, stationery and other material required for studies, Articles should not be exchanged, nor should money borrowed or lent.
8. A student who uses unfair means in the examination will render himself/herself liable to such punishment as is considered necessary by the Principal/Co-ordinator.
9. The general behaviour of students should be good not only within in the school but also outside. Any reported objectionable conduct within or outside the school will make the student liable for disciplinary action.
10. Student found possessing or, reading any books or magazine of indecent nature are liable for disciplinary action.
11. Every student should take care of his/her personal belongings, School authorities will not be responsible for loss of such belongings.
12. It is the duty of all students to keep their classrooms and other places in and around the school clean and in order. All waste paper and other discardable materials should be thrown in the dustbin.
13. No student is allowed to write on the black board unless asked to do so by the teacher.
14. Before leaving the class room at the end of the day they should arrange the desks and chairs in proper order, put off the lights and fans, close the windows, throw the waste and unwanted materials into the dustbin and then leave the class room.
15. A student should come to the school in proper uniform which should be properly washed & ironed.
16. A student should greet/wish everybody with a pleasant smile.
17. Violation of the rules and regulations of the school and the code of conduct will render the concerned student liable to punishment including removal from the rolls of the school.
18. Problem Solving Assessment (PSA) will be conducted by CBSE in January and it is mandatory for every student to appear for the PSA. In case a student is unable to qualify the PSA in class XI, then he/she will be required to appear for the same in the next year.
19. School would also be conducting the following assessments in accordance with the guidelines issued by the board.
 - a) ASL : Assessment in speaking & listening skills in English.
 - b) OTBA : Open text based assessment in the annual exam in economics, biology & geography. The text for OTBA will be provided by CBSE.
20. Grades will also be given in the following areas of learning - Work Experience, Physical Education & General Studies.

ASSESSMENT PATTERN FOR ACADEMIC YEAR 2020-21

1. The academic session 2020-21 will be divided as follows :
 1st Term : September 2020 (Half Yearly Exam)
 2nd Term : February 2021 (Annual Exam)
2. One round of Periodic assessment will be conducted in all the subjects before the half yearly exam i.e. in July/August'20 and two rounds of Periodic assessment will be conducted before the final exams i.e. in Oct.'20/Nov.'20 and Nov./Dec.'20/Jan.'21. The dates for all the examinations have been given in the almanac.
3. **It is compulsory for all the students to appear in all the tests/examinations in all the main subjects. A child will be marked zero in case the absence is not accompanied by a proper leave application. In case the child is absent due to illness then medical leave will be granted on submission of medical certificate from a registered doctor immediately on joining back and retest will be taken.**

Leave will not be granted for attending weddings, family functions etc. No half day leave will be granted during the assessments. We would appreciate if the child does not absent himself/herself during the assessments.
4. Evaluation will be based on the students continuous academic performance during the year. Weightage for the unit tests and examinations is given below :

Periodic Assessment-1	: 50 marks
Periodic Assessment-2	: 25 marks
Periodic Assessment-3	: 25 marks
Half Yearly Exam	: 100 marks
Annual Exam	: 100 Marks
Total	: 300 marks

Cumulative Annual Average : 100 marks
(20% of UT + 30% of Half Yearly Exam + 50% of Annual Exam. i.e.120/300).
5. School would be conducting the following assessments in accordance with the guidelines issued by CBSE.
 ASL : Assessment in speaking & listening skills in English for class XI. The grade scored in the assessment of Speaking and Listening Skills in English will be a part of Annual Examination and will be reflected as an aggregate in the performance profile.
6. Students will be promoted on the basis of the comprehensive system of evaluation spread throughout the academic year. Hence the promotion of your ward to the next class depends on his/her performance in written assignments, project work, assessments, class and home assignments and internal assessment. **Students scoring 40% in aggregate and in each individual subject and securing 85% attendance will be eligible for promotion to the next class.**
7. Grades will also be given in the following areas of learning :
 Work Experience, Physical Education & General Studies.
8. Parents are requested to go through the answer sheets, sign them and return to the class teacher/subject teacher. All the answer sheets are returned to the students after every assessment except the annual exam.
9. **Students found using unfair means during any cycle test/unit test or terminal exams will be marked zero in that subject. No retest will be conducted for such students. These students will not be eligible for any academic award or appointment in the student council thereafter.**
10. **Parents are requested to attend the Parent Teacher Meetings regularly, as per schedule given in the almanac.**

UNIT WISE DISTRIBUTION OF THE SYLLABUS (2020-21)CLASS XI

Unit	Dates		No. of Days
	From	To	
Unit 1	13.04.2020	01.05.2020	15
Unit 2	04.05.2020	15.05.2020	09
Summer Vacation	18.05.2020	12.06.2020	
Unit 3	15.06.2020	26.06.2020	10 (Block Teaching)
Unit 4	29.06.2020	10.07.2020	11
Unit 5	13.07.2020	24.07.2020	10
Unit 6	27.07.2020	07.08.2020	09
Unit 7	10.08.2020	21.08.2020	09
Unit 8	24.08.2020	11.09.2020	15
Half Yearly Exams	14.09.2020	25.09.2020	
Unit 9	28.09.2020	16.10.2020	15
Autumn Break	22.10.2020	25.10.2020	
Unit 10	19.10.2020	21.11.2020	17 (Including Dussehra & Diwali Break)
Unit 11	23.11.2020	05.12.2020	10
Unit 12	07.12.2020	24.12.2020	12
Winter Break	25.12.2020	02.01.2021	
Unit 13	04.01.2021	15.01.2021	10
Unit 14 & Rev.	18.01.2021	30.01.2021	10
Annual Exams	01.02.2021 onwards (Tentative)		

EXAMINATION SCHEDULE :

Assessment	Dates	
	From	To
Periodic Asst. 1	20.07.2020	24.08.2020
Half Yearly Exams	14.09.2020	25.09.2020
Periodic Asst. 2	12.10.2020	07.12.2020
Periodic Asst. 3	14.12.2020	25.01.2021
Annual Exams :	01.02.2021 onwards (Tentative)	

ENGLISH

Prescribed Books :

1. Hornbill (NCERT)
2. Snapshots (NCERT)

Learning Objectives :

- ◆ Improve communication between student-student and teacher - student
- ◆ To develop academic skills
- ◆ To form an appreciation for all genres of literature
- ◆ To enhance the students knowledge of subject content
- ◆ To enable the learner to communicate effectively and appropriately in real life situations.
- ◆ To revise and reinforce structures already learnt.
- ◆ To write in a style appropriate for communicative purposes

Learning Outcomes :

- ◆ read and comprehend extended texts (prescribed and non - prescribed) in the following genres: science fiction, drama, poetry, biography, autobiography, travel and sports literature, etc.
- ◆ text-based writing (i.e., writing in response to questions or tasks based on prescribed or unseen texts) understand and respond to lectures, speeches, etc.
- ◆ write expository / argumentative essays, explaining or developing a topic, arguing a case, etc. write formal/informal letters and applications for different purposes write items related to the workplace (minutes, memoranda, notices, summaries, reports etc.
- ◆ filling up of forms, preparing CV, e-mail

messages., making notes from reference materials, recorded talks etc.

Unit 1 13.04.2020 to 01.05.2020 (15)

Content : Integrated Grammar, Notice Writing, Letter to the editor, Comprehension Passages A Photograph, The Portrait of a lady

Art Integration : Discussion on the plight of the aged in Indian Society, the effect they have on the younger generations. Sketches to be made on Childhood memories.

Unit 2 04.05.2020 to 15.05.2020 (09)

Content : Article Writing, We are not afraid to die --- if we Can all be together, Ranga's Marriage, The Summer of the beautiful White horse

Art Integration : Discussion on astrology and its impact on Hindu marriages. Scrapbook on the values and culture of the various tribes of the world.

Unit 3 15.06.2020 to 26.06.2020 (10)

Content : Note Making, Discovering Tut ---- The saga Continues, The Voice of Rain, Landscape of the soul

Art Integration : Discussion on mummies in Egypt. Ppt on - cycle of rain.

Unit 4 29.06.2020 to 10.07.2020 (11)

Content : Letter of Enquiry, Speech writing, Debate writing the laburnum top

Art Integration : Drawing on the energy & life of nature.

Unit 5 13.07.2020 to 24.07.2020 (10)

Content : Letter of Complaint, Childhood, Art Integration : Students' opinion about the time they cease to be a child and become an adult.

Unit 6 27.07.2020 to 07.08.2020 (09)

Content : Comprehension Passages, Note

Making, The Browning Version, Advertisements

Art Integration : Reading out aloud, classified advertisements from the Newspaper and cutting and pasting. A comparative study between the traditional and modern system of education.

Unit 7 10.08.2020 to 21.08.2020 (09)

Content : Comprehension Passages, Note Making, Letter for placing an order, Father to Son, The Adventure

Art Integration : Discussion on problems of generation gap.

Unit 8 24.08.2020 to 11.09.2020 (15)

Content : Revision

Unit 9 28.09.2020 to 16.10.2020 (15)

Content : Note Making, The Tale of Melon City

Art Integration : PPT on great leaders' contribution in shaping our nation

Discussion on how peace and liberty can be attained in the state.

Unit 10 19.10.2020 to 21.11.2020 (17)

Content : The Address, Albert Einstein at School

Art Integration : Discussion on Significance of school and the things and activities that make school life interesting.

Discussion on War against terrorism and its effects. PPT: Einstein's inventions

Unit 11 23.11.2020 to 05.12.2020 (10)

Content : The Ailing Planet – the Green Movement's Role

Art Integration : Discussion on saving environment for future generations. Poster making to create awareness

Unit 12 07.12.2020 to 24.12.2020 (12)
Content : Birth, The Ghat of the Only World,
Note Making

Art Integration : Understanding the difference between theoretical knowledge and practical wisdom. Collection of Agha Shahid Ali's works in form of a scrapbook

Unit 13 04.01.2021 to 15.01.2021 (10)
Content : Silk Road , Mother's Day

Art Integration : Debate - Working mothers Vs Home Makers. Role Play

Unit 14 & Rev. 18.01.2021 to 30.01.2021 (10)
Content : Revision

EXAMINATION SCHEDULE :

Periodic Asst.-1 20.07.2020 to 24.08.2020

Content : Integrated Grammar,
Notice Writing, Comprehension Passages, Letter to the Editor, Article Writing, speech writing
A Photograph, The Portrait of a Lady, The Summer of the beautiful White Horse,

Half Yearly Exams : 14.09.2020 to 25.09.2020

Content : Integrated Grammar, Notice Writing, Note Making, Comprehension Passages, Letter to the Editor, Letter of Complaint, Article , Speech Writing, The Voice of Rain. A Photograph, The Portrait of a Lady, The Summer of the beautiful White Horse, The Address, Ranga's Marriage

Periodic Asst.-2 12.10.2020 to 07.12.2020

Content : Comprehension Passages, Note Making, Letter for placing an order, Article Writing, Speech Writing ,Debate Writing,

Letter of Enquiry

Periodic Asst.-3 14.12.2020 to 25.01.2021

Content : Comprehension Passages, Job Application, Letter of Complaint, Letter for Placing an Order, Note Making

Annual Exams : 01.02.2021 onwards (Tenta.)

Content : Complete Syllabus

हिन्दी ऐच्छिक (कोड संख्या)

प्रस्तावित पुस्तकें :

1. अन्तरा भाग-2/अन्तराल भाग-2 एन.सी.ई.आर.टी.
2. अभिव्यक्ति और माध्यम भाग-2 एन.सी.ई.आर.टी.

हिन्दी भाषा-शिक्षण के उद्देश्य :

मानव समाज को विधाता की ओर से जो सबसे बड़ा वरदान मिला है, वह है भाषा। बिना भाषा माध्यम के हम इतने सुंदर उच्चकोटि साहित्य के सृजन में असमर्थ हैं। मानव किसी ना किसी भाषा को तो स्वतः अनुकरण द्वारा सीख ही जाता है, परन्तु भाषा का लेखन व उसके उच्चस्वरूपक ज्ञान से प्रयासक रनापड़ता है।

भारतेन्दु हरिश्चंद्र का कहना है-

‘निज भाषा उन्नति अहै, सब उन्नति को मूल।

बिनु निज भाषा ज्ञान के मिटै न हिय को सूल’ ॥

हिन्दी भारत की राज भाषा है। भारतीय होने के नाते अपनी राज भाषा का ज्ञान हम सबको होना ही चाहिए। भाषा के सही ज्ञान द्वारा ही हम अपने मन के भावों को प्रकट करने में सक्षम हो सकते हैं। हिन्दी भाषा शिक्षण

के चार कौशल श्रवण कौशल, पाठन कौशल, वाचन कौशल एवं लेखन कौशल हैं। इनमें से प्रत्येक कौशल का प्रयोग ही शिक्षण में आवश्यक है। अतः छात्रों में भावाभिव्यक्ति का कौशल भरना, शुद्ध व साहित्यिक भाषा का प्रयोग सिखाना तथा इसी भाषा के माध्यम से छात्रों को राजनैतिक, साहित्यिक, सामाजिक व समसामयिक विषयों की जानकारी देकर ऐसा युवावर्ग तैयार करना जो समाज, देश तथा विश्व की प्रगति में अपना अभूतपूर्व योगदान दे सके।

Unit 1 13.04.2020 to 01.05.2020 (15)

अन्तरा : पाठ: 1 कबीर-अरे इन दोहुन,
बालम आवो हमारे

अन्तराल : अंडे के छिलके (मोहन राकेश)

अधिगम बिंदु : साहित्यिक परिचय व रचनाएँ प्रसंग/संदर्भ, छंद, अलंकार, काव्य सौन्दर्य, भाव सौन्दर्य, एवं प्रश्नोत्तर चर्चा। निर्देशित अपेक्षित कार्य।

छात्रों द्वारा आदर्श वाचन, भावानुसार पठन अभ्यास, उद्देश्य कथन, शीर्षक स्पष्टीकरण, नैतिक मूल्य स्पष्टीकरण, वर्तमान संदर्भ में उपयोगिता मूल कथ्य का स्पष्टीकरण, एवं प्रश्नोत्तर चर्चा। निर्देशित भाषागत कार्य।

अभिव्यक्ति और माध्यम : रचनात्मक लेखन-1,

अनुच्छेद लेखन

अधिगम के प्रतिफल : विभिन्न माध्यमों के लिए लेखन, रेडियो, प्रिंट मीडिया, रेडियो समाचार लेखन, इंटरनेट एवं हिन्दी का नेट संसार, पत्रकारिता लेखन।

<p>Unit 2 04.05.2020 to 15.05.2020 (09) अन्तरा : गद्य खंड पाठ: 1 प्रेमचंद- ईदगाह पाठ: 2 अमरकांत-दोपहर का भोजन अधिगम बिंदु : साहित्यिक परिचय व रचनाएँ, प्रसंग/संदर्भ, पाठ का उद्देश्य, कथन, अभिप्रेरणा, आदर्श वाचन, संदर्भित अंश की व्याख्या, पाठगत शिक्षा, वर्तमान संदर्भ में उपयोगिता निर्देशित अपेक्षित कार्य । अभिव्यक्ति और माध्यम : 2 पत्र लेखन अधिगम के प्रतिफल : परिभाषा, विभिन्न रूप यथा समाचार लेखन, छह ककार, फीचर लेखन । विशेष रिपोर्ट, स्तंभ लेखन, संपादक के नाम पत्र, लेख, साक्षात्कार ।</p>	<p>अभिव्यक्ति और माध्यम : अभिव्यक्ति और माध्यम अधिगम के प्रतिफल : आलेख लेखन का अभ्यास, कविता लेखन-कविता कैसे बनती है । कविता क्या है ? पत्रों के प्रकार बताते हुए किसी समाचार पत्र के संपादक को पत्र । आवेदन अथवा प्रार्थना पत्र । Unit 4 29.06.2020 to 10.07.2020 (11) अन्तरा : पाठ: 3 देव क-हँसी की चोट, ख - सपना ग-दरबार गद्य खंड : पाठ 3 हरिशंकर परसाई (टॉर्च बेचने वाले) अधिगम बिंदु : कवि का साहित्यिक परिचय व रचनाएँ, आदर्श वाचन, कठिन शब्दों के सरलार्थ, प्रसंग/संदर्भ, छंद, अलंकार, काव्य सौन्दर्य, भाव सौन्दर्य, प्रश्नोत्तर चर्चा । निर्देशित भाषागत कार्य । छात्रों द्वारा आदर्श वाचन, भावानुसार पठन अभ्यास, उद्देश्य कथन, शीर्षक स्पष्टीकरण, नैतिक मूल्य स्पष्टीकरण, वर्तमान संदर्भ में उपयोगिता मूल कथ्य का स्पष्टीकरण, एवं प्रश्नोत्तर चर्चा । निर्देशित भाषागत कार्य । अभिव्यक्ति और माध्यम : जनसंचार माध्यम, संचार की परिभाषा तत्व अधिगम के प्रतिफल : शब्द चयन, प्रतीक चित्रात्मकता, छंद विधान, बिंब, भाव, संप्रेषण आदि । समस्या समाधान हेतु विभिन्न कार्यालयों को पत्र । स्ववृत्त लेखन</p>	<p>Unit 5 13.07.2020 to 24.07.2020 (10) अन्तरा : पाठ: 4 पद्माकर क-औरे भाँत कुंजन में..... गद्य खंड : पाठ 4 रांगेय राघव (गूँगे) अधिगम बिंदु : साहित्यिक परिचय व रचनाएँ, प्रसंग/संदर्भ, छंद, अलंकार, काव्य सौन्दर्य, भाव सौन्दर्य, एवं काव्यांशों की सप्रसंग व्याख्या, प्रश्नोत्तर चर्चा, निर्देशित भाषागत कार्य । साहित्यिक परिचय व रचनाएँ, पाठ के कथ्य की व्याख्या, भाषा शैली, शब्द चयन, प्रमुख गद्यांशों की सप्रसंग व्याख्या, प्रश्नोत्तर चर्चा, निर्देशित भाषागत कार्य । अभिव्यक्ति और माध्यम : 6 नए एवं अप्रत्याशित विषयों पर लेखन अधिगम के प्रतिफल : नाटक लेखन एवं अन्य विधाएँ, समय का बंधन, नाटक के तत्व, भाषा का पात्रनुसार चयन, संवाद शिल्प संरचना आदि । रोजगार संबंधी पत्र । विज्ञापन लेखन</p>
<p>Unit 3 15.06.2020 to 26.06.2020 (10) अन्तरा : पाठ: 2 क - खेलन में..... ख - मुरली तऊ..... गद्य खंड : पाठ 2 मकबूल फिदा हुसैन (हुसैन की कहानी अपनी जुबानी) अधिगम बिंदु : साहित्यिक परिचय व रचनाएँ, प्रसंग/संदर्भ, छंद, अलंकार, काव्य सौन्दर्य, भाव सौन्दर्य, एवं प्रश्नोत्तर चर्चा । निर्देशित अपेक्षित कार्य । छात्रों द्वारा आदर्श वाचन, भावानुसार पठन अभ्यास, उद्देश्य कथन, शीर्षक स्पष्टीकरण, नैतिक मूल्य स्पष्टीकरण, वर्तमान संदर्भ में उपयोगिता मूल कथ्य का स्पष्टीकरण, एवं प्रश्नोत्तर चर्चा । निर्देशित भाषागत कार्य ।</p>	<p>Unit 6 27.07.2020 to 07.08.2020 (09) अन्तरा : पाठ: 5 सुमित्रानंदन पंत क - संध्या के बाद गद्य खंड : पाठ 5 ज्योतिबा फूले (सुधा अरोड़ा) अधिगम बिंदु : साहित्यिक परिचय व रचनाएँ, प्रसंग, संदर्भ, छंद, अलंकार, काव्य सौन्दर्य, भाव सौन्दर्य, एवं काव्यांशों की सप्रसंग व्याख्या, प्रश्नोत्तर चर्चा, निर्देशित भाषागत कार्य ।</p>	

<p>छात्रों द्वारा आदर्श वाचन, भावानुसार पठन अभ्यास, उद्देश्य कथन, शीर्षक स्पष्टीकरण, नैतिक मूल्य स्पष्टीकरण, वर्तमान संदर्भ में उपयोगिता मूल कथ्य का स्पष्टीकरण, एवं प्रश्नोत्तर चर्चा। निर्देशित भाषागत कार्य।</p> <p>अभिव्यक्ति और माध्यम : जन संचार के प्रकार तत्व, परिभाषा</p> <p>अधिगम के प्रतिफल : यथा-दीवार घड़ी, दरवाजा, फोन, दिया और तूफान, कामकाजी महिला की शाम, परीक्षा के दिनों में, ईश्वर आदि। स्तरानुसार विषय लेखन अभ्यास।</p> <p>Unit 7 10.08.2020 to 21.08.2020 (09) अन्तरा : पाठ: 6 महादेवी वर्मा क-जाग तुझको दूर जाना ख-सब आँखों के आँसू उजले गद्य खंड : पाठ : 7 नरेन्द्र शर्मा (नींद उचट जाती है)</p> <p>अधिगम बिंदु : कवि का साहित्यिक परिचय व रचनाएँ, आदर्श वाचन, कठिन शब्दों के सरलार्थ, प्रसंग/संदर्भ, छंद, अलंकार, काव्य सौन्दर्य, भाव सौन्दर्य, प्रश्नोत्तर चर्चा। निर्देशित भाषागत कार्य।</p> <p>छात्रों द्वारा आदर्श वाचन, भावानुसार पठन अभ्यास, उद्देश्य कथन, शीर्षक स्पष्टीकरण, नैतिक मूल्य स्पष्टीकरण, वर्तमान संदर्भ में उपयोगिता मूल कथ्य का स्पष्टीकरण, एवं प्रश्नोत्तर चर्चा। निर्देशित भाषागत कार्य।</p>	<p>अभिव्यक्ति और माध्यम : पत्र लेखन पत्रकारिता के विविध आयाम</p> <p>अधिगम के प्रतिफल : विद्यालय संबंधी समस्या का उल्लेख। संपादक के नाम पत्र। नागरिक शिकायत हेतु पत्र।</p> <p>दूरदर्शन, संचार माध्यमों से संबंधित पत्र, कार्यक्रम संबंधी सुझाव, रोजगार संबंधी कार्यक्रम, पत्रकारिता के विविध आयाम, पत्रकारिता क्या है ?</p> <p>समाचार पत्रों में मौजूदा रूझान।</p> <p>Unit 8 24.08.2020 to 11.09.2020 (15) अन्तरा : पाठ: 8 नागार्जुन क - बादल को घिरते देखा है गद्य खंड : पाठ 8..7 पांडेय बेचन (उसकी माँ) अधिगम बिंदु : कवि का साहित्यिक परिचय व रचनाएँ, आदर्श वाचन, कठिन शब्दों के सरलार्थ, प्रसंग/संदर्भ, छंद, अलंकार, काव्य सौन्दर्य, भाव सौन्दर्य, प्रश्नोत्तर चर्चा। निर्देशित भाषागत कार्य।</p> <p>छात्रों द्वारा आदर्श वाचन, भावानुसार पठन अभ्यास, उद्देश्य कथन, शीर्षक स्पष्टीकरण, नैतिक मूल्य स्पष्टीकरण, वर्तमान संदर्भ में उपयोगिता मूल कथ्य का स्पष्टीकरण, एवं प्रश्नोत्तर चर्चा। निर्देशित भाषागत कार्य।</p> <p>अभिव्यक्ति और माध्यम : स्ववृत्त, अपठित गद्यांश/काव्यांश</p> <p>अधिगम के प्रतिफल : स्ववृत्त लेखन अभ्यास आदि।</p>	<p>Unit 9 28.09.2020 to 16.10.2020 (15) अन्तरा : पाठ: 9 श्रीकांत वर्मा क - हस्तक्षेप</p> <p>अधिगम बिंदु : कवि का साहित्यिक परिचय व रचनाएँ, आदर्श वाचन, कठिन शब्दों के सरलार्थ, प्रसंग/संदर्भ, छंद, अलंकार, काव्य सौन्दर्य, भाव सौन्दर्य, प्रश्नोत्तर चर्चा। निर्देशित भाषागत कार्य।</p> <p>अभिव्यक्ति और माध्यम : शब्द कोश</p> <p>अधिगम के प्रतिफल : संदर्भ ग्रंथों की उपयोगी विधि, परिचय, शब्दकोष में क्रम से लिखने व खोजने की विधि।</p> <p>Unit 10 19.10.2020 to 21.11.2020 (17) गद्य खंड : पाठ 8 भारतेन्दू हरिश्चंद्र (भारतवर्ष की उन्नति कैसे हो सकती है ?)</p> <p>अधिगम बिंदु : छात्रों द्वारा आदर्श वाचन, भावानुसार पठन अभ्यास, उद्देश्य कथन, शीर्षक स्पष्टीकरण, नैतिक मूल्य स्पष्टीकरण, वर्तमान संदर्भ में उपयोगिता मूल कथ्य का स्पष्टीकरण, एवं प्रश्नोत्तर चर्चा। निर्देशित भाषागत कार्य।</p> <p>अभिव्यक्ति और माध्यम : शब्द कोश</p> <p>अधिगम के प्रतिफल : कक्षा में लेखन व अभ्यास कार्य। रचनात्मक लेखन द्वारा अपनी विचार धारा को प्रस्तुत करने की क्षमता का विकास।</p> <p>Unit 11 23.11.2020 to 05.12.2020 (10) गद्य खंड -</p>
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अन्तराल : पाठ 3 आवारा मसीहा

(विष्णु प्रभाकर)

अधिगम बिंदु : छात्रों द्वारा आदर्श वाचन, भावानुसार पठन अभ्यास, उद्देश्य कथन, शीर्षक स्पष्टीकरण, नैतिक मूल्य स्पष्टीकरण, वर्तमान संदर्भ में उपयोगिता मूल कथ्य का स्पष्टीकरण, एवं प्रश्नोत्तर चर्चा । निर्देशित भाषागत कार्य ।

अभिव्यक्ति और माध्यम : दृश्य लेखन

अधिगम के प्रतिफल : स्वरचित कहानी निर्माण से अंतर्मुखी प्रतिभा का विकास ।

अन्य कथाओं को पढ़कर नाटक से समीक्षा करने की कला में निपुणता उत्पन्न करना ।

बोलने की कला में निपुणता का गुण उत्पन्न होना ।

Unit 12 07.12.2020 to 24.12.2020 (12)

गद्य खंड : पाठ 10 धूमिल, घर में वापसी

अधिगम बिंदु : छात्रों द्वारा आदर्श वाचन, भावानुसार पठन अभ्यास, उद्देश्य कथन, शीर्षक स्पष्टीकरण, नैतिक मूल्य स्पष्टीकरण, वर्तमान संदर्भ में उपयोगिता मूल कथ्य का स्पष्टीकरण, एवं प्रश्नोत्तर चर्चा । निर्देशित भाषागत कार्य ।

अभिव्यक्ति और माध्यम : पुनरावृत्ति, दृश्य लेखन
अधिगम के प्रतिफल: मौखिक परीक्षा (वर्णितय पठित सामग्री को सुनकर) वाचन, भाषण सस्वर कविता पाठ

Unit 13 04.01.2021 to 15.01.2021 (10)

पाठ 10 हजारी प्रसाद दिवेदी कुटुंब

अधिगम बिंदु : छात्रों द्वारा आदर्श वाचन, भावानुसार पठन अभ्यास, उद्देश्य कथन, शीर्षक स्पष्टीकरण, नैतिक मूल्य स्पष्टीकरण, वर्तमान संदर्भ में उपयोगिता मूल कथ्य का स्पष्टीकरण, एवं प्रश्नोत्तर चर्चा । निर्देशित भाषागत कार्य ।

अभिव्यक्ति और माध्यम : पुनरावृत्ति संपूर्ण

अधिगम के प्रतिफल : श्रवण कौशल व लिखित, मौखिक परीक्षा के माध्यम से विद्यार्थियों के अंदर छिपी बहुमुखी प्रतिभा से अवगत होकर सुखद अनुभूति का अनुभव । स्वमुल्यांकन करने की क्षमता का विकास । निरंतर प्रयास, लगन व परिश्रम का सामर्थ्य उत्पन्न होना, लक्ष्य की ओर बढ़ने की प्रेरणा अंतःकरण में उत्पन्न होना ।

Unit 14 & Rev. 18.01.2021 to 30.01.2021 (10)

अन्तरा भाग-1/अन्तराल भाग-1 पुनरावृत्ति

अभिव्यक्ति और माध्यम भाग-1 पुनरावृत्ति

अधिगम बिंदु : छात्रों द्वारा आदर्श वाचन, भावानुसार पठन अभ्यास, सूरदास के व्यक्तित्व का स्पष्टीकरण, मूल कथ्य का स्पष्टीकरण, एवं प्रश्नोत्तर चर्चा ।

अभिव्यक्ति और माध्यम : पुनरावृत्ति, संपूर्ण

अधिगम के प्रतिफल : श्रवण कौशल व लिखित, मौखिक परीक्षा के माध्यम से विद्यार्थियों के अंदर छिपी बहुमुखी प्रतिभा से अवगत होकर सुखद अनुभूति का अनुभव । स्वमुल्यांकन करने की क्षमता का विकास । निरंतर प्रयास, लगन व परिश्रम का सामर्थ्य उत्पन्न होना, लक्ष्य की ओर बढ़ने की प्रेरणा अंतःकरण

में उत्पन्न होना ।

EXAMINATION SCHEDULE :

Periodic Asst.-1 20.07.2020 to 24.08.2020

अन्तरा भाग-1 काव्य/गद्य पाठ: 1, 2, 3

अन्तराल भाग-1

विभिन्न माध्यमों के लिए लेखन, रेडियो, प्रिंट मीडिया, रेडियो समाचार लेखन, इंटरनेट एवं हिन्दी का नेट संसार, पत्रकारिता लेखन,

अपठित गद्यांश/काव्यांश, पत्र लेखन

Half Yearly Exams : 14.09.2020 to 25.09.2020

❖ अन्तरा भाग-1 काव्य/गद्य

पाठ: 1, 2, 3, 4, 5

अन्तराल भाग-2 पाठ 1, 2

❖ अभिव्यक्ति और माध्यम भाग-2 पाठ 1, 2

❖ रचनात्मक - संपूर्ण

❖ अन्तरा भाग-1 पाठ: काव्य/गद्य 3, 4

Periodic Asst.-2 12.10.2020 to 07.12.2020

अन्तराल भाग-2 : पाठ 2

आलेख लेखन का अभ्यास,

कविता लेखन - कविता कैसे बनती है । कविता क्या है ?

पत्रों के प्रकार बताते हुए किसी समाचार पत्र के संपादक को पत्र ।

आवेदन अथवा प्रार्थना पत्र । अपठित

गद्यांश/काव्यांश, पत्र लेखन

Periodic Asst.-3 14.12.2020 to 25.01.2021

अन्तरा भाग-2/अन्तराल भाग-2 : संपूर्ण

अभिव्यक्ति और माध्यम : संपूर्ण

रचनात्मक : संपूर्ण ।

Annual Exams : 01.02.2021 onwards (Tenta.)

अन्तरा भाग-2/अन्तराल भाग-2 : संपूर्ण

अभिव्यक्ति और माध्यम : संपूर्ण

रचनात्मक : संपूर्ण ।

MATHEMATICS

Books recommended :

NCERT Text Book

Reference book :

1. Exemplar Problems by NCERT
2. DOE Support material

Teaching objective of Sr. Secondary Level Mathematics :

The main goal of mathematics education in schools is the mathematisation of the child's thinking. Clarity of thought and pursuing assumptions to logical conclusions is central to the mathematical enterprise. There are many ways of thinking, and the kind of thinking one learns in mathematics is an ability to handle abstractions, and an approach to problem solving. Universalization of schooling has important implications for mathematics curriculum. In our vision, school mathematics takes place in a situation where:

- (1) Children learn to enjoy mathematics
- (2) Children learn important mathematics
- (3) Mathematics is a part of children's life experience which they talk about
- (4) Children pose and solve meaningful problems
- (5) Children use abstractions to perceive relationships and structure

(6) Children understand the basic structure of mathematics and

(7) Teachers expect to engage every child in class.

Unit 1 13.04.2020 to 01.05.2020 (15)

Topic : Ch-1 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.

Learning Outcomes : Students will be able to understand related symbols, operations and its application.

Art Integration/Lab Activity :

1. Representation of operations on sets using Venn diagrams.
2. To find no. of subsets of a given set.

Topic : Ch-2 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 (upto $R \times R \times R$). 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, with their graphs. Sum, difference, product and quotients of functions.

Learning Outcomes : Students will be able to understand cartesian product and apply in

understanding relation. Students will be able to find domain and range of functions.

Art Integration/Lab Activity :

To distinguish between Relations and Functions.

Unit 2 04.05.2020 to 15.05.2020 (09)

Topic : Ch-3 Trigonometry-

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. 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.

Identities related to $\sin^2 x$, $\cos^2 x$, $\tan^2 x$, $\sin^3 x$, $\cos^3 x$ and $\tan^3 x$. General solution of trigonometric equations of the type $\sin y = \sin a$, $\cos y = \cos a$ and $\tan y = \tan a$.

Learning Outcomes : Students will be able to understand different units of angles; identities and its application. Students will be able to draw graphs of trigonometric functions. Students will be able to solve trigonometric equations.

Art Integration/Lab Activity :

1. Graphs of trigonometric functions.
2. To find the value of sine and cosine functions in 2nd, 3rd and 4th quadrants using their given values in 1st quadrant.

Unit 3 15.06.2020 to 26.06.2020 (10)

Topic : Revision +

Ch-5 Complex Numbers-

Need for complex numbers, especially -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.

Learning Outcomes : Students will be able to understand imaginary no., complex number and its application.

Topic : **Ch-4 Principle of mathematical induction (PMI)** 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.

Learning Outcomes : Students will be able to understand logical statement and they will be able to apply in proving various mathematical statement.

Unit 4 29.06.2020 to 10.07.2020 (11)

Topic : **Chap 6 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.

Learning Outcomes : Students will be able to understand linear inequalities and they will be able to draw graph and find solution.

Topic : **Chap 7 Permutation and Combination-**

Fundamental principle of counting. Factorial. (n!) Permutations and combinations, derivation of Formulae and their simple applications.

Learning Outcomes : Students will be able to understand principle of counting. They will be able to apply permutation and combination in real life problems.

Art Integration/Lab Activity :

Graphical representation of inequalities.

Unit 5 13.07.2020 to 24.07.2020 (10)

Topic : **Chap 8 Binomial Theorem-**

History, statement and proof of the binomial theorem for positive integral indices. Pascal's triangle, General and middle term in binomial expansion, simple applications.

Learning Outcomes : Students will be able to understand Binomial theorem and its application.

Art Integration/Lab Activity : Pascal triangle to write binomial expansion

Unit 6 27.07.2020 to 07.08.2020 (09)

Topic : **Ch-13 Limits & 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 relate it to slope of tangent of the curve, derivative of sum, difference, product and quotient of functions. Derivatives of polynomial and trigonometric functions.

Revision for Half Yearly Exams

Learning Outcomes : Students will be able to understand concept of Limits & Derivatives of various types of functions.

Unit 7 10.08.2020 to 21.08.2020 (09)

Topic : **Ch-9 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.

Learning Outcomes : Students will be able to understand types of Progression and its application like addition of series etc.

Unit 8 24.08.2020 to 11.09.2020 (15)

Topic : **Ch-9 Sequence and Series Cont..**

Revision for Half Yearly Exams

Unit 9 28.09.2020 to 16.10.2020 (15)

Topic : **Chap 10 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.

Learning Outcomes : Students will be able to understand equation of different types of straight lines. They will be able to use it to find equation in various situation. They will enjoy to find distance of a point from a line.

Topic : **Ch-11 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.

Learning Outcomes : Students will be able to understand the concept different type of section of cone. They will be able to find parts from given equation and vice-versa.

Art Integration/Lab Activity :

- Equation of line passing through intersection of two lines.
- To construct different type of section of cone.

Unit 10 19.10.2020 to 21.11.2020 (17)

Topic : **Chap 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.

Learning Outcomes : Students will be able to locate point in space. They will be able to find distance between given two points and its application. They will be able to use section formulae.

Art Integration/Lab Activity : To explain the concept of octants.

Topic : **Ch-15 Statistics-**

Measures of Dispersion : Range, Mean deviation, variance and standard deviation of ungrouped/grouped data. Analysis of frequency distributions with equal means but different variances.

Learning Outcomes : Students will be able to find different types of measures of Dispersion of ungrouped/grouped data. They will be able to analyze frequency distribution.

Unit 11 23.11.2020 to 05.12.2020 (10)

Topic : **Ch-16 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.

Learning Outcomes : Students will be able to understand axiomatic approach of probability. They will be able to write sample space of different events. They will be able to use concept of sets in finding probabilities of different events.

Art Integration/Lab Activity : To write the sample space

Unit 12 07.12.2020 to 24.12.2020 (12)

Topic : **Chap 14 Mathematical Reasoning-**

Mathematically acceptable statements. Connect-

ing 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.

Learning Outcomes : Students will be able to understand concept of reasoning and logic and they will be able to apply in validation of statements

Unit 13 04.01.2021 to 15.01.2021 (10)

Topic : Revision for Annual Examination

Unit 14 & Rev. 18.01.2021 to 30.01.2021 (10)

Topic : Revision for Annual Examination

EXAMINATION SCHEDULE :

Periodic Asst.-1 20.07.2020 to 24.08.2020

Topic : Unit 4 to 6

Half Yearly Exams : 14.09.2020 to 25.09.2020

Topic : Unit 1 to 8

Periodic Asst.-2 12.10.2020 to 07.12.2020

Topic : Unit 10 to 11

Periodic Asst.-3 14.12.2020 to 25.01.2021

Topic : Unit 2 and 9

Annual Exams : 01.02.2021 onwards (Tenta.)

Topic :

PHYSICS

Books Prescribed/ Suggested

1. NCERT PHYSICS CLASS XI

Reference books :

2. New Simplified Physics By S.L. Arora

OBJECTIVES :

With this background, the Physics curriculum at the higher secondary stage attempts to :

Strengthen the concepts developed at the

secondary stage to provide firm ground work and foundation for further learning Physics at the tertiary level more effectively and learning the relationship with daily-life situations;

◆ Develop conceptual competence in the learners and make them realize and appreciate the interface of Physics with other disciplines;

◆ Expose the learners to different processes used in Physics-related industrial and technological applications;

◆ Develop process-skills and experimental, observational, manipulative, decision-making and investigatory skills in the learners;

◆ Promote problem-solving abilities and creative thinking to develop interest in the learners in the study of Physics as a discipline;

◆ Understand the relationship between nature and matter on scientific basis, develop positive scientific attitude, and appreciate the contribution of Physics towards the improvement of quality of life and human welfare;

◆ Physics teaching-learning at the higher secondary stage enables the learners to comprehend the contemporary knowledge and develop aesthetic sensibilities and process skills.

The experimental skills and process-skills developed together with conceptual Physics knowledge prepare the learners for more meaningful learning experiences and contribute to the significant improvement of quality of life. The learners would also appreciate the role and impact of Physics and technology, and their linkages with overall national development.

Unit 1 13.04.2020 to 01.05.2020 (15)

Topic : Ch-1 Physical World,

<p style="text-align: center;">Ch-2 Units and Measurement</p> <p>Learning Outcomes :</p> <p>Learners will be able to understand Scope and application of Physics for the betterment of society. Learners will be able to understand the Need of measurement along with basics of fundamental and derived units and dimensional analysis.</p> <p>Learners will be able to understand the significance and importance of dimensional analysis of any physical quantity</p> <p>Art Integration/Lab Activity :</p> <ol style="list-style-type: none"> (1) To measure diameter of a small spherical/ cylindrical body using Vernier callipers. (2) To measure internal diameter and depth of agiven beaker/calorimeter using Vernier callipers andhence find its volume. (3) To measure diameter of a given wire using screw gauge. (4) To measure thickness of a given sheet using screw gauge. (5) To determine radius of curvature of a given spherical surface by aspherometer. <p>Unit 2 04.05.2020 to 15.05.2020 (09)</p> <p>Topic : Ch-3 Motion in a straight Line</p> <p>Learning Outcomes :</p> <p>Learners will be able tounderstand the term motionas a relative term andclassification of motion.</p> <p>Learners will be able tounderstand the significance of three equations of motion in our daily life along with it mathematical calculus analysis.</p> <p>Art Integration/Lab Activity :</p> <p>Presentation from the students</p> <ul style="list-style-type: none"> • Different Graphs • Diagrams • Question bank 	<p>Unit 3 15.06.2020 to 26.06.2020 (10)</p> <p>Topic : Ch-4 Motion in a Plane</p> <p>Learning Outcomes :</p> <p>Learners will be able to understand basics of Scalar and Vector quantities along with its Mathematical analysis (Addition, subtraction, Product, Resolution, Projection).</p> <p>Learners will be able to understand the concept of Projectile and it mathematical analysis (Parabolic path, Maximum height attained, Range, Time of flight, Resultant velocity)</p> <p>Art Integration/Lab Activity :</p> <ol style="list-style-type: none"> (1) To find the weight of agiven body using parallelogram law of vectors. (2) Field study to see different types of projectile motion. <p>Unit 4 29.06.2020 to 10.07.2020 (11)</p> <p>Topic : Ch-5 Law of Motion</p> <p>Learning Outcomes :</p> <p>Learners will be able to understand the Concept of force along all the three Newton's laws of motion. Learners will be able tounderstand the Concept of concurrent forces and dynamics of circular motion</p> <p>Art Integration/Lab Activity :</p> <ol style="list-style-type: none"> (1) To study the relationship between force of limiting friction and normal reaction and to find the coefficient of friction between a block and ahorizontal surface. (2) To find the down ward 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 $\sin \theta$. <p>Unit 5 13.07.2020 to 24.07.2020 (10)</p> <p>Topic : Ch-6 Work and Energy</p> <p>Learning Outcomes :</p> <p>Learners will be able to understand the Basic</p>	<p>concept of work done along with its mathematical analysis and Classification of work.</p> <p>Learners will be able to understand the Concept of mechanical energy, different forms energy and its conservation with necessary mathematical analysis.</p> <p>Learners will be able to understand the Mechanical power along with its Practical and SI units.</p> <p>Art Integration/Lab Activity :</p> <p>Presentation from the Students</p> <ul style="list-style-type: none"> • Different Graphs • Diagrams of different types of work • Question bank <p>Unit 6 27.07.2020 to 07.08.2020 (09)</p> <p>Topic : Ch-7 System of particles and Rotational motion</p> <p>Learning Outcomes :</p> <p>Learners will be able to understand the concept of centre of mass and centre of gravity of a body. Learners will be able to understand the Concept of Rotational Dynamics and equations of motion for rotating body.</p> <p>Learners will be able to understand the Analogy between Kinematics and Rotational Dynamics.</p> <p>Art Integration/Lab Activity :</p> <p>Presentation From the Students</p> <ul style="list-style-type: none"> • Different Relation • Diagrams • Question bank <p>Unit 7 10.08.2020 to 21.08.2020 (09)</p> <p>Topic : Ch-8 Gravitation</p> <p>Learning Outcomes :</p> <p>Learners will be able to understand Concept of gravitational force between two bodies and its conservative nature.</p> <p>Learners will be able to understand the Concept of</p>
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variation of acceleration due to gravity with height and depth.

Art Integration/Lab Activity :

Presentation from the Students

- Different Graphs
- Diagrams
- Question bank

Unit 8 24.08.2020 to 11.09.2020 (15)

Topic : Ch-9 Mechanical Properties of solid

Learning Outcomes :

Learners will be able to understand Practicality of different types of Elastic modulli and Relation between stress and strain.

Art Integration/Lab Activity :

- (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.

Unit 9 28.09.2020 to 16.10.2020 (15)

Topic : Ch-10 Mechanical Properties of Fluids

Learning Outcomes :

Learners will be able to understand Practicality of Fluid dynamics in real life (Pascal's Law, Bernoulli's theorem, Magnus Effect)

Learners will be able to understand Concept of surface Tension and Surface energy and will be able to relate it with a daily life.

Art Integration/Lab Activity :

- (1) To determine the surface tension of water by capillary rise method.
- (2) To determine the coefficient of viscosity of a given viscous liquid by measuring the terminal velocity of a given spherical body.

Unit 10 19.10.2020 to 21.11.2020 (17)

Topic : Ch-11 Thermal Properties of Matter

Learning Outcomes :

Learners will be able to understand the Different methods of heat transfer, Concept of thermal expansion and Laws of cooling.

Art Integration/Lab Activity :

- (1) To study the relationship between the temperature of a hot body and time by plotting a cooling curve.
- (2) To determine specific heat capacity of a given (i) solid (ii) liquid, by method of mixtures.

Unit 11 23.11.2020 to 05.12.2020 (10)

Topic : Ch-12 Thermodynamics

Learning Outcomes :

Learners will be able to understand the Concept of Heat, work and Internal energy of the system.

Learners will be able to understand the Principle of Heat Engine and Refrigerator.

Art Integration/Lab Activity :

Presentation from the Students

- Different Graphs of thermodynamic processes
- Diagrams
- Question bank

Unit 12 07.12.2020 to 24.12.2020 (12)

Topic : Ch-13 Kinetic Theory of Gases,

Learning Outcomes :

Learners will be able to understand the of Pressure exerted by a gas on the walls of the container.

Learners will be able to understand the Concept and relation between different specific heat capacities.

Art Integration/Lab Activity :

- 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.

Unit 13 04.01.2021 to 15.01.2021 (10)

Topic : Ch-14 Oscillation

Learning Outcomes :

Learners will be able to understand the basic concept of generation of waves along with its Classification and Mathematical analysis and SHM.

Learners will be able to understand the Concept of Different forms of energy possessed by a body executing SHM with its mathematical analysis.

Learners will be able to understand the Concept of Resonance, free oscillations

Art Intrgration/Lab Activity :

- Using a simple pendulum, plot L-T and L-T² graphs. Hence find the effective length of a second's pendulum using appropriate graph.

Unit 14 & Rev. 18.01.2021 to 30.01.2021 (10)

Topic : Ch-15 wave & Revision

Learning Outcomes :

Learners will be able to understand the Mathematical analysis of waves along its basic parameters (Amplitude, Frequency and Phase) Learners will be able to understand the concept of reflection of waves along with concept of harmonics.

Art Integration/Lab Activity :

- (1)(i) To study the relation between frequency and length of a given wire under constant tension using sonometer.
- (ii) To study the relation between the length of a given wire and tension for constant frequency using sonometer.
- (2) To find the speed of sound in air at room temperature using a resonance tube by two resonance positions

EXAMINATION SCHEDULE :**Periodic Asst.-1 20.07.2020 to 24.08.2020**

Topic : Ch-1, 2, 3

Half Yearly Exams : 14.09.2020 to 25.09.2020

Topic : Ch-1, 2, 3, 4, 5, 6, 7

Periodic Asst.-2 12.10.2020 to 07.12.2020

Topic : Ch-8

Periodic Asst.-3 14.12.2020 to 25.01.2021

Topic : Ch-9, 10

Annual Exams : 01.02.2021 onwards (Tenta.)

Topic : Complete Syllabus

CHEMISTRY**Prescribed Books :**

1. N.C.E.R.T. Chemistry
2. N.C.E.R.T. Chemistry Exemplar

Rationale :

Higher Secondary is the most crucial stage of school education because at this juncture specialized discipline based, content-oriented courses are introduced. Students reach this stage after 10 years of general education and opt for Chemistry with a purpose of pursuing their career in basic sciences or professional courses like medicine, engineering, technology and other applied areas. Therefore, there is a need to provide learners with sufficient conceptual background of Chemistry, which will make them competent to meet the challenges of academic and professional courses after the seniors secondary stage. The new and updated curriculum is based on disciplinary approach with rigour and depth taking care that the syllabus is not heavy and at the same time it is comparable to the international level. The knowledge related to the subject of Chemistry has under gone

tremendous changes during the past one decade. Many new areas like synthetic materials, bio molecules, natural resources, industrial chemistry are coming in a big way and deserve to be an integral part of chemistry syllabus at senior secondary stage. At international level, new formulations and nomenclature of elements and compounds, symbols and units of physical quantities floated by scientific bodies like IUPAC and CGPM are of immense importance and need to be incorporated in the updated syllabus. The revised syllabus takes care of all these aspects. Greater emphasis has been laid on use of new nomenclature, symbols and formulations, teaching of fundamental concepts, application of concepts in chemistry to industry/technology, logical sequencing of units, removal of obsolete content and repetition, etc.

Objectives :

The curriculum of Chemistry at Senior Secondary Stage aims to :

- ◆ Promote understanding of basic facts and concepts in chemistry while retaining the excitement of chemistry.
- ◆ Make students capable of studying chemistry in academic and professional courses (such as medicine, engineering, technology) at tertiary level.
- ◆ Expose the students to various emerging new areas of chemistry and apprise them with their relevance in future studies and their application in various spheres of chemical sciences and technology.
- ◆ Equip students to face various challenges related to health, nutrition, environment, population, weather, industries and agriculture.

- ◆ Develop problem solving skills in students.
- ◆ Expose the students to different processes used in industries and their technological applications.
- ◆ Apprise students with interface of chemistry with other disciplines of science such as physics, biology, geology, engineering etc.
- ◆ Acquaint students with different aspects of chemistry used in daily life.
- ◆ Develop an interest in students to study chemistry as a discipline.
- ◆ Integrate life skills and values in the context of chemistry.

Unit 1 13.04.2020 to 01.05.2020 (15)**Topic : Some Basic Concepts of Chemistry**

General Introduction: Importance and scope of chemistry. Nature of matter, laws of chemical combination, Dalton's atomic theory: concept of elements, atoms and molecules. Atomic and molecular masses, mole concept and molar mass, percentage composition, empirical and molecular formula, chemical reactions, stoichiometry and calculations based on stoichiometry.

Learning Outcomes : Student will learn about the concept of molarity and molality. Learn the concept of stoichiometry and limiting reagent.

Manual Activity/Art Integration : Mole concept can be taught by drawing the flow chart. Molarity concept can be taught by practical.

Unit 2 04.05.2020 to 15.05.2020 (09)**Topic : Structure of Atom**

Bohr's model and its limitations, concept of shells and subshells, dual nature of matter and light, de Broglie's relationship, Heisenberg uncertainty principle, concept of orbitals, quantum numbers, shapes of s, p and d orbitals, rules for filling

electrons in orbitals - Aufbau principle, Pauli's exclusion principle and Hund's rule, electronic configuration of atoms, stability of half-filled and completely filled orbitals.

Learning Outcomes : Student will be able to understand development of Theory of discovery of atoms, They will learn about the quantum chemistry and various quantum numbers and their significance.

Manual Activity/Art Integration : Bohr's model can be explained using the smart class quantum numbers can be explained by drawing concept map.

Topic : Classification of Elements and Periodicity in Properties

Modern periodic law and the present form of periodic table, periodic trends in properties of elements -atomic radii, ionic radii, inert gas radii, ionization enthalpy, electron gain enthalpy, electronegativity, valency. Nomenclature of elements with atomic number greater than 100

Learning Outcomes : Students will be able to know the development leading to modern periodic table. Learn about the properties of various blocks in the Modern Periodic table. Concept of Ionization Enthalpy, Electron gain enthalpy.

Unit 3 15.06.2020 to 26.06.2020 (10)

Topic : Chemical Bonding and Molecular Structure

Valence electrons, ionic bond, covalent bond, bond parameters, Lewis structure, polar character of covalent bond, covalent character of ionic bond, valence bond theory, resonance, geometry of covalent molecules, VSEPR theory, concept of hybridization, involving s, p and d orbitals and shapes of some simple molecules, molecular orbital theory of homonuclear diatomic

molecules (qualitative idea only), hydrogen bond.

Learning Outcomes : They will be able to tell which structure will be more stable by using the concept of Formal Charge. By using VSEPR theory they will be able to determine the shapes of various covalent molecules. Concept of Hybridization is used to determine exact structure of the molecule which VBT is unable to explain and MOT will help us to explain why certain molecules are paramagnetic and others are not.

Manual Activity/Art Integration : Shapes of molecules can be greatly explained using the Ball Stick Model, students themselves can make these models using clay and match sticks

Unit 4 29.06.2020 to 10.07.2020 (11)

Topic : States of Matter: Gases and Liquids.

Three states of matter, intermolecular interactions, types of bonding, melting and boiling points, role of gas laws in elucidating the concept of the molecule, Boyle's law, Charles law, Gay Lussac's law, Avogadro's law, ideal behavior, empirical derivation of gas equation, Avogadro's number, ideal gas equation. Deviation from ideal behavior, liquefaction of gases, critical temperature, kinetic energy and molecular speeds (elementary idea) Liquid State: vapour pressure, viscosity and surface tension (qualitative idea only, no mathematical derivations)

Learning Outcomes : Student will learn about the laws related to gases and nature of gases and difference between gases and vapors. Property of liquids such as viscosity and surface tensions

Manual Activity/Art Integration : Surface Tension and Viscosity concept can be explained

using lab activities. Chart can be prepared on the mathematical representation and graphical representation

Unit 5 13.07.2020 to 24.07.2020 (10)

Topic : Chemical Thermodynamics

Concepts of System and types of systems, surroundings, work, heat, energy, extensive and intensive properties, state functions. First law of thermodynamics-internal energy and enthalpy, heat capacity and specific heat, measurement of ΔU and ΔH , Hess's law of constant heat summation, enthalpy of bond dissociation, combustion, formation, atomization, sublimation, phase transition, ionization, solution and dilution. Second law of Thermodynamics (brief introduction). Introduction of entropy as a state function, Gibbs energy change for spontaneous and non-spontaneous processes, criteria for equilibrium. Third law of thermodynamics (brief introduction).

Learning Outcomes : Student will gain an understanding of the application of mathematical tools to calculate thermodynamics properties and the relationship between microscopic properties of molecules with macroscopic thermodynamic observables.

Manual Activity/Art Integration : System and Surrounding can be explained by using live examples.

Concept map can be used to recall the different relationships between work done and state variables.

Flow chart can be prepared on the various thermodynamics laws and on their mathematical representation

Unit 6 27.07.2020 to 07.08.2020 (09)

Topic : Equilibrium

Equilibrium in physical and chemical processes, dynamic nature of equilibrium, law of mass action, equilibrium constant, factors affecting equilibrium- Le Chatelier's principle, ionic equilibrium- ionization of acids and bases, strong and weak electrolytes, degree of ionization, ionization of poly basic acids, acid strength, concept of pH, Henderson Equation, hydrolysis of salts (elementary idea), buffer solution, solubility product, common ion effect (with illustrative examples).

Learning Outcomes : Student will understand about the reversible reaction. They will be able to explain what is Le Chatelier's Principle, use Le Chatelier's Principle to predict the effect (if any) on equilibrium position of concentration, pressure, temperature and catalyst.

They will learn about the concept of Conjugate acids and Bases and the concept of pH.

Manual Activity/Art Integration : Concept Map can be drawn for the full revision of the syllabus. Flow chart can be prepared on the concept of Acid and bases and on the concept of Conjugate acids and Conjugate bases with different examples.

Unit 7 10.08.2020 to 21.08.2020 (09)

Topic : Redox Reactions

Concept of oxidation and reduction, redox reactions, oxidation number, balancing redox reactions, in terms of loss and gain of electrons and change in oxidation number, applications of redox reactions.

Learning Outcomes : Student will be able to understand the concept of oxidation and redox reactions. They will be able to predict which reagent is oxidizing and which one is reducing. They will learn to balance the ionic equations and be able to calculate the oxidation number method.

Manual Activity/Art Integration : Chart of various different examples can be made on oxidation state along with their structure. Redox reactions can also be learnt by practical including redox titrations.

Unit 8 24.08.2020 to 11.09.2020 (15)

Topic : Hydrogen

Position of hydrogen in periodic table, occurrence, isotopes, preparation, properties and uses of hydrogen, hydrides-ionic covalent and interstitial; physical and chemical properties of water, heavy water, hydrogen peroxide preparation, reactions and structure and use; hydrogen as a fuel.

Learning Outcomes : Student will be able to discuss the position of the hydrogen in the periodic table and explain the preparation and uses of dihydrogen. They will be able to list out the different types of hydrides and their significance

Manual Activity/Art Integration : Flow chart can be prepared on the method of removal of temporary hardness and permanent hardness of water.

Unit 9 28.09.2020 to 16.10.2020 (15)

Topic : s-Block Elements (Alkali and Alkaline Earth Metals)

Group 1 and Group 2 Elements General introduction, electronic configuration, occurrence, anomalous properties of the first element of each group, diagonal relationship, trends in the variation of properties (such as ionization enthalpy, atomic and ionic radii), trends in chemical reactivity with oxygen, water, hydrogen and halogens, uses. Preparation and Properties of Some Important Compounds: Sodium Carbonate, Sodium Chloride, Sodium Hydroxide and Sodium Hydrogen carbonate, Biological importance of Sodium and Potassium. Calcium

Oxide and Calcium Carbonate and their industrial uses, biological importance of Magnesium and Calcium

Learning Outcomes : They will be able to understand the characteristic features of the alkali metals, large scale preparation and properties of some industrially important compounds viz., cement, plaster of paris, sodium hydroxide, sodium carbonate and sodium bicarbonate etc.

They will become familiar with biological significance of sodium, potassium

Manual Activity/Art Integration : Flow chart can be prepared on the preparation and properties of various important compounds of s-block elements, such as cement, plaster of paris, sodium hydroxide, sodium carbonate and sodium bicarbonate etc.

Unit 10 19.10.2020 to 21.11.2020 (17)

Topic : p-Block Elements

General Introduction to p-Block Elements

Group 13 Elements: General introduction, electronic configuration, occurrence, variation of properties, oxidation states, trends in chemical reactivity, anomalous properties of first element of the group, Boron - physical and chemical properties, some important compounds, Borax, Boric acid, Boron Hydrides, Aluminium: Reactions with acids and alkalis, uses.

Group 14 Elements: General introduction, electronic configuration, occurrence, variation of properties, oxidation states, trends in chemical reactivity, anomalous behaviour of first elements. Carbon-catenation, allotropic forms, physical and chemical properties; uses of some important compounds: oxides. Important compounds of Silicon and a few uses: Silicon Tetrachloride, Silicones, Silicates and Zeolites, their uses.

Learning Outcomes : They will be able to know the elements of p block elements and their positions in the periodic table. Preparation and properties of Boron containing compounds. They will be learn the properties of silicon containing compounds and properties.

Manual Activity/Art Integration : Flow chart can be prepared on the preparation and properties of various important compounds of p- block elements, such B₂H₆, B(OH)₃, and Silicon containing compounds.

Unit 11 23.11.2020 to 05.12.2020 (10)
Topic : Organic Chemistry - Some Basic Principles and Techniques

General introduction, methods of purification, qualitative and quantitative analysis, classification and IUPAC nomenclature of organic compounds. Electronic displacements in a covalent bond: inductive effect, electromeric effect, resonance and hyper conjugation. Homolytic and heterolytic fission of a covalent bond: free radicals, carbocations, carbanions, electrophiles and nucleophiles, types of organic reactions.

Learning Outcomes : They will understand the basic concept of organic chemistry such as Inductive effect, Resonance, hyper conjugation. They will also learn about the Homolytic and heterolytic fission of covalent compounds.

Manual Activity/Art Integration : Concept map can be made on the various effects such as inductive effect, Reasonance effect, hyper-conjugation, etc

Unit 12 07.12.2020 to 24.12.2020 (12)
Topic : Hydrocarbons

Classification of Hydrocarbons Aliphatic Hydrocarbons Alkanes - Nomenclature,

isomerism, conformation (ethane only), physical properties, chemical reactions including free radical mechanism of halogenation, combustion and pyrolysis. Alkenes - Nomenclature, structure of double bond (ethene), geometrical isomerism, physical properties, methods of preparation, chemical reactions: addition of hydrogen, halogen, water, hydrogen halides (Markovnikov's addition and peroxide effect), ozonolysis, oxidation, mechanism of electrophilic addition.

Alkynes - Nomenclature, structure of triple bond (ethyne), physical properties, methods of preparation, chemical reactions: acidic character of alkynes, addition reaction of - hydrogen, halogens, hydrogen halides and water.

Learning Outcomes : They will be able to understand the properties of various types of hydrocarbon and their type of bonding present in them.

They will also able to differentiate the type of isomers and be able to predict the products of addition reaction based on Markovnikov's rule and Anti-Markovnikov's rule.

Manual Activity/Art Integration : Flow chart can be effective in remembering the hierarchy of types of Hydrocarbons.

Concept map can also be drawn on the topic of Aromaticity.

Unit 13 04.01.2021 to 15.01.2021 (10)
 Aromatic Hydrocarbons: Introduction, IUPAC nomenclature, benzene: resonance, aromaticity, chemical properties: mechanism of electrophilic substitution. Nitration, sulphonation, halogenation, Friedel Craft's alkylation and acylation, directive influence of functional group in monosubstituted benzene. Carcinogenicity and toxicity.

Unit 14 & Rev. 18.01.2021 to 30.01.2021 (10)
Topic : Environmental Chemistry

Environmental pollution - air, water and soil pollution, chemical reactions in atmosphere, smog, major atmospheric pollutants, acid rain, ozone and its reactions, effects of depletion of ozone layer, greenhouse effect and global warming- pollution due to industrial wastes, green chemistry as an alternative tool for reducing pollution, strategies for control of environmental pollution.

Learning Outcomes : Student will understand the environmental pollution- air pollution, water pollution and soil pollution.

They will able to discuss the major cause of pollution.

Manual Activity/Art Integration : Chart on Ozone depletion and greenhouse gas can be made in order to develop a brief understanding. Chart on various pollutants and their harmful can be drawn along with their source of emission.

EXAMINATION SCHEDULE :

Periodic Asst.-1 20.07.2020 to 24.08.2020
 Topic :

Half Yearly Exams : 14.09.2020 to 25.09.2020
 Topic :

Periodic Asst.-2 12.10.2020 to 07.12.2020
 Topic :

Periodic Asst.-3 14.12.2020 to 25.01.2021
 Topic :

Annual Exams : 01.02.2021 onwards (Tenta.)
 Topic :

BIOLOGY

Books Prescribed/Suggested

1. NCERT Biology for class 11

2. X-am Idea
3. Truemann to the point series
4. Champion Biology 11 By Dinesh Publications
5. Practical File : Biology Practical file of school
6. Practical manual : Comprehensive

Objectives :

- ☞ To promote understanding of basic principles of Biology.
- ☞ To encourage learning of emerging knowledge and its relevance to individual and society.
- ☞ To promote rational/scientific attitude to issues related to population, environment and development.
- ☞ To enhance awareness about environmental issues, problems and their appropriate solutions.
- ☞ To create awareness amongst the learners about diversity in the living organisms and developing respect for other living beings.
- ☞ To appreciate that the most complex biological phenomena are built on essentially simple processes.

Unit 1 13.04.2020 to 01.05.2020 (15)

Topic : CH : Morphology of flowering plants
CH : Anatomy of flowering plants

Learning outcomes :

1. To apply gained theoretical knowledge in practical domains.
2. Able to understand different modifications & relate to daily life
3. Able to understand inner structural details and will be able to apply them in daily life i.e tissue in nuts is sclerenchyma

Art integration :

1. Role play on usefulness of every plant part

2. Specimen preparation of underground stem and root modifications
3. Herbarium sheet preparation on inflorescence types
4. Able to understand inner structural details and will be able to apply them in daily life i.e tissue in nuts is sclerenchyma

Unit 2 04.05.2020 to 15.05.2020 (09)

Topic : Structural organization in animals
Learning outcomes : Able to understand and relate the need and individuality of different tissue types in animals

Art integration :

1. Collage of different animal tissues
2. Flow chart of circulation in cockroach

Unit 3 15.06.2020 to 26.06.2020 (10)

Topic : Cell : the unit of life
Cell : cycle and cell division

Learning outcomes :

1. Gain knowledge about concepts of Cell and apply the concepts to higher domains when needed
2. Able to apply knowledge gained in classifying cells as pro/eukaryotic

Art integration : Flash cards based on cell organelles and function

Unit 4 29.06.2020 to 10.07.2020 (11)

Topic : Biomolecules

Learning outcomes :

1. Gain knowledge about concepts of Cellular molecules and apply the concepts to higher domains when needed
2. Will be able to classify biomolecules as biomacromolecules or biomicromolecules
3. Able to relate the usefulness of biomolecules in body

Art integration :

1. DNA model preparation using different color beads
2. Making 3 - D diagrams of different structures of proteins in Flash

Unit 5 13.07.2020 to 24.07.2020 (10)

Topic : Transport in plants
Mineral nutrition

Learning outcomes :

1. To apply gained knowledge in practicals like working of potato osmometer.
2. Apply & relate concepts studied in daily life like imbibition of water by dry seeds
3. Gain knowledge about concepts of discussed topics and will be able to relate them with growth and other life processes in plants

Art integration :

1. Flow chart for ascent of sap
2. Concept map of pathways
3. Preparing Potato Osmometer
4. Table of macro and micro nutrients
5. Creative diagram of nitrogen cycle
6. Preparation of Specimen of Nodulated roots using a leguminous plant

Unit 6 27.07.2020 to 07.08.2020 (09)

Topic : CH : Photosynthesis in higher plants
CH : Respiration in plants

Learning outcomes :

1. Gain Knowledge on different aspects of photosynthesis and will be able to correlate the role of different raw materials in it.
2. Will be able to understand energy transformation in the process
3. Will be able to analyze the differences in different pathways of carbon fixation and correlate the same with anatomical details of leaf types

Art integration :

1. Exit cards for different pathways
2. Graph for various factors affecting photosynthesis rate
3. Chromatogram generation / preparation

Unit 7 10.08.2020 to 21.08.2020 (09)

Topic : CH : Digestion and absorption

Learning outcomes :

1. To relate basic functioning of human body wrt digestion.
2. To apply basic knowledge gained in practical aspects of life

Art integration :

1. Role play on organs and their functions
2. Flow chart based on physiology of digestion of different nutrients of food
3. Exit cards on digestive disorders

Unit 8 24.08.2020 to 11.09.2020 (15)

Topic : Plant growth and development

Breathing and exchange of gases

Learning outcomes : To apply basic knowledge gained with various emergency situations like choking and unconsciousness and in various disorders

Art integration :

1. Flow chart on breathing mechanism and gaseous exchange in cells
2. Word wall of terms of pulmonary system with meaning

Unit 9 28.09.2020 to 16.10.2020 (15)

Topic : Body fluids and circulation

Movement and locomotion

Learning outcomes :

1. To be able to read Blood reports
2. To be able to use ABO grouping in actual life situations.
3. To use gained knowledge in practical aspects of life like reading ECG.

Art integration :

1. Word wall on blood elements with meaning
2. Flow chart on blood circulation
3. Exit card on structure of heart and ECG

Unit 10 19.10.2020 to 21.11.2020 (17)

Topic : CH : Excretory products and their elimination

CH : Neural control and coordination

Learning outcomes :

1. To relate basic functioning of human body wrt excretion
2. Will be able to relate the role of kidneys in filtering blood and kidney malfunctioning to emergency situations like dialysis
3. To relate basic functioning of human body wrt excretion
4. Will be able to relate the role of kidneys in filtering blood and kidney malfunctioning to emergency situations like dialysis

Art integration :

1. Role play on different excretory mechanisms
2. Model making of kidney using paper / papier Mache
3. Preparing herbarium sheet

Unit 11 23.11.2020 to 05.12.2020 (10)

Topic : CH : Chemical control and Integration

Unit 12 07.12.2020 to 24.12.2020 (12)

Topic : CH : Living world

CH : Biological classification

Learning outcomes :

1. Gain knowledge about concepts of Biodiversity.
2. Apply gained knowledge to daily life
3. Will admire and value diverse life forms

Art integration :

1. Role play on different excretory mechanisms

2. Model making of kidney using paper / papier Mache

Unit 13 04.01.2021 to 15.01.2021 (10)

Topic : CH : Plant Kingdom

Learning outcomes :

1. To able to relate gained theory knowledge in practicals and daily life
2. Gain basic knowledge about Kingdom plantae w.r.t. habitat, alternation of generations, reproduction in various groups of plants and can correlate their structures with evolution

Art integration :

1. Outline diagrams of different kingdoms
2. Word wall of terms related to classification
3. Specimen preparation
4. Outline diagrams of different divisions

Unit 14 & Rev. 18.01.2021 to 30.01.2021 (10)

Topic : CH : Animal Kingdom

Learning outcomes : Gain basic knowledge about Kingdom Animalia w.r.t. habitat, reproduction in various groups of animals.. and can correlate their structures details with evolution.

Art integration :

1. Specimen preparation
2. Word wall for terms used in classification with meaning
3. Outline diagrams for classification of animal kingdom

EXAMINATION SCHEDULE :

Periodic Asst.-1 20.07.2020 to 24.08.2020

Topic : CH : Morphology of flowering plants

CH : Anatomy of flowering plants

CH : Cell the unit of life

Half Yearly Exams : 14.09.2020 to 25.09.2020

Topic : CH 5, 6, 7, 8, 9, 10, 13 and 14

Periodic Asst.-2 12.10.2020 to 07.12.2020

Topic : CH : Transport in plants
 CH : Photosynthesis in higher plants
 CH : Respiration in plants

Periodic Asst.-3 14.12.2020 to 25.01.2021

Topic : CH : Digestion and absorption
 CH : Circulation of body fluids
 CH : Movement and locomotion

Annual Exams : 01.02.2021 onwards (Tenta.)

Topic : Complete Syllabus

COMPUTER SCIENCE

Prescribed Book :**Learning Outcomes :**

1. Basic computational thinking. Learn how to reason with variables, state transitions, conditionals, and iteration.
2. Notion of data types, and higher order data structures such as lists, and dictionaries.
3. Concepts of data handling: Strings creating and importing modules.
4. Structure of simple SQL queries.
5. Cyber safety.

Unit 1 13.04.2020 to 01.05.2020 (15)

Topic : Ch-1 : Basis of Computer Organization
 Ch-2 : Basics of Computer Software

Learning Outcomes : Structure of computer I/O devices
 System s/w
 Application s/w

Unit 2 04.05.2020 to 15.05.2020 (09)

Topic : Ch-3 : Program Execution

Learning Outcomes : Paradigm of a good program

Unit 3 15.06.2020 to 26.06.2020 (10)

Topic : Ch-4 : Cloud Computing

Learning Outcomes : Storage on cloud

Unit 4 29.06.2020 to 10.07.2020 (11)

Topic : Ch-5: Basics of python Programming

Learning Outcomes : Variables, tokens, identifiers

Unit 5 13.07.2020 to 24.07.2020 (10)

Topic : Ch-5 : Basics of python Programming

Learning Outcomes : Conditional Statements, Loops, goto

Unit 6 27.07.2020 to 07.08.2020 (09)

Topic : Ch-6 : Lists Tuples and Dictionary
 Learning Outcomes : Execution of lists, tuples and Dictionary

Unit 7 10.08.2020 to 21.08.2020 (09)

Topic : Ch-7 : Strings
 Learning Outcomes : Strlen(), Concat, Cmp

Unit 8 24.08.2020 to 11.09.2020 (15)

Topic : Revision

Unit 9 28.09.2020 to 16.10.2020 (15)

Topic : Ch-8 : Introduction to Python Modules

Learning Outcomes : Creating Modules using def

Unit 10 19.10.2020 to 21.11.2020 (17)

Topic : Ch-9 : Relational Database
 Learning Outcomes : Working with databases, Creating Database, Updating, Altering

Unit 11 23.11.2020 to 05.12.2020 (10)

Topic : Ch-9 : Relational Database
 Learning Outcomes : Modifying, inserting into

Unit 12 07.12.2020 to 24.12.2020 (12)

Topic : Ch-10: No SQL Database

Learning Outcomes : Types of NO sql Database

Topic : Ch-10: No SQL Database

Learning Outcomes : Query mechanism tools

Unit 13 04.01.2021 to 15.01.2021 (10)

Topic : Ch-11 : Cyber Safety and Social Networking

Learning Outcomes : Identity Protection Trolling

Unit 14 & Rev. 18.01.2021 to 30.01.2021 (10)

Topic : Revision

EXAMINATION SCHEDULE :**Periodic Asst.-1 20.07.2020 to 24.08.2020**

Topic : Ch-1, 2, 3

Half Yearly Exams : 14.09.2020 to 25.09.2020

Topic : Ch-1, 2, 3, 4, 5

Periodic Asst.-2 12.10.2020 to 07.12.2020

Topic : Ch-6, 7, 8

Periodic Asst.-3 14.12.2020 to 25.01.2021

Topic : Ch-9, 10

Annual Exams : 01.02.2021 onwards (Tenta.)

Topic : Entire Syllabus

INFORMATICS PRACTICES

Prescribed Book :**Learning Outcomes :**

1. Basic computational thinking. Learn how to reason with variables, state transitions, conditionals, and iteration.
2. Notion of data types, and higher order data structures such as lists, and dictionaries.
3. Concepts of data handling : Strings creating and importing modules.
4. Structure of simple SQL queries.
5. Cyber safety.

Unit 1	13.04.2020 to 01.05.2020	(15)
Topic	: Programming and Computational Thinking	
Objective	: Ability to identify the functionality of various components of Computer System .	
Unit 2	04.05.2020 to 15.05.2020	(09)
Topic	: Programming and Computational Thinking	
Objective	: Ability to identify the functionality of program .	
Unit 3	15.06.2020 to 26.06.2020	(10)
Topic	: Overview of Python Elementary Concepts of Python	
Objective	: Ability to develop application using simple python .	
Unit 4	29.06.2020 to 10.07.2020	(11)
Topic	: Data Handling	
Objective	: Ability to identify the functionality of data .	
Unit 5	13.07.2020 to 24.07.2020	(10)
Topic	: Python Programming	
Objective	: Ability to use ,develop & debug programs independently .	
Unit 6	27.07.2020 to 07.08.2020	(09)
Topic	: Transfer data between CSV files/SQL databases, and Data Frame objects	
Objective	: Ability to store and retrieve	
Unit 7	10.08.2020 to 21.08.2020	(09)
Topic	: Data Management	
Objective	: Ability to store and retrieve data .	
Unit 8	24.08.2020 to 11.09.2020	(15)
Topic	: Data Management	
Objective	: Ability to store and retrieve data .	

Unit 9	28.09.2020 to 16.10.2020	(15)
Topic	: Relational Database	
Objective	: Ability to store and retrieve data using an RDBMS .	
Unit 10	19.10.2020 to 21.11.2020	(17)
Topic	: Basic SQL	
Objective	: Ability to store and retrieve data using an SQL Statements .	
Unit 11	23.11.2020 to 05.12.2020	(10)
Topic	: Use SQL DDL commands	
Objective	: Ability to store and retrieve data using an SQL Statements .	
Unit 12	07.12.2020 to 24.12.2020	(12)
Topic	: Use SQL DML commands	
Objective	: Ability to store and retrieve data using an SQL Statements .	
Unit 13	04.01.2021 to 15.01.2021	(10)
Topic	: Society, Law and Ethics	
Objective	: Ability to ensure safety and security in cyber space	
Unit 14 & Rev.	18.01.2021 to 30.01.2021	(10)
Topic	: Society, Law and Ethics	
Objective	: Ability to understand societal , legal and ethical aspect of technology	

ART & CRAFT

General Objectives :

- ❖ To help students to understand the arrangement of elements in a way that appeals to the senses.
- ❖ To develop the skills of art with the intention of stimulating thoughts and emotions.
- ❖ To develop the creativity and creative ability in students.

❖ To make children independent in creating their own style and skills.

Unit 1 **13.04.2020 to 01.05.2020** **(15)**

Practical : Model with pencil drawing (two or three) object and Drapery

Theory : Art of Indus Valley (Harappan and Mohenjo-daro) (2500 B.C. to 1500 B.C.)

Unit 2 **04.05.2020 to 15.05.2020** **(09)**

Practical : Same model to be completed with water colour.

Theory : Study of Indus Valley Sculptures and Terracottas

Unit 3 **15.06.2020 to 26.06.2020** **(10)**

Practical : Composition on any subject (Railway Station) Sketch with pencil draw more than three figures.

Theory : Study of following Decoration on earthen wares :
(i) Painted earthen-ware (Jar) (Mohenjo-daro)

Unit 4 **29.06.2020 to 10.07.2020** **(11)**

Practical : Same composition to be completed in water colour.

Theory : Buddhist, Jain and Hindu Art

Unit 5 **13.07.2020 to 24.07.2020** **(10)**

Practical : Start new model with Pencil Drawing.

Theory : Study of Buddhist Sculptures

Unit 6 **27.07.2020 to 07.08.2020** **(09)**

Practical : Same model to be continued and finished with colour.

Theory : Introduction to Ajanta

Unit 7 **10.08.2020 to 21.08.2020** **(09)**

Practical : Revision

Unit 8 **24.08.2020 to 11.09.2020** **(15)**

Practical : Composition on any subject

(Rainy day or flood) sketch with pencil draw more than three figures.

Theory : Study of Ajanta Painting & Sculpture

Unit 9 28.09.2020 to 16.10.2020 (15)

Practical : Same composition scene to be completed in water colour.

Theory : Temple Sculpture, Bronzes and Indo-Islamic Architecture

Unit 10 19.10.2020 to 21.11.2020 (17)

Practical : Model start with pencil (two or three object with Drapery)

Theory : Bronzes

(i) Introduction to Indian Bronzes

(ii) Method of casting (solid and hollow)

Unit 11 23.11.2020 to 05.12.2020 (10)

Practical : Model finish with colour.

Theory : Artistic Aspects of the Indo-Islamic Architecture

(i) Introduction

Unit 12 07.12.2020 to 24.12.2020 (12)

Practical : Composition with water colour.

Theory : Study of following architectures :

(i) QutabMinar, Delhi

(ii) TajMahal, Agra

(iii) Go Gumbaj of Bijapur

Unit 13 04.01.2021 to 15.01.2021 (10)

Practical : New model start and completed in water colour.

Theory : Revision

Unit 14 & Rev. 18.01.2021 to 30.01.2021 (10)

Practical : Figure sketching

Theory : Revision

EXAMINATION SCHEDULE :

Periodic Asst.-1 20.07.2020 to 24.08.2020

Topic : Art of Indus Valley

Half Yearly Exams : 14.09.2020 to 25.09.2020

Topic : Ch-1 to 6

Periodic Asst.-2 12.10.2020 to 07.12.2020

Topic : Buddhist, Jain and Hindu Art

Periodic Asst.-3 14.12.2020 to 25.01.2021

Topic : Buddhist, Jain and Hindu Art

Annual Exams : 01.02.2021 onwards (Tenta.)

Topic : Ch-1 to 10

POLITICAL SCIENCE

Prescribed Book :

Art Integration : Through maps, picture reading, time line, flow chart.

Book-1 : Making of Constitution

Unit 1	13.04.2020 to 01.05.2020	(15)
Topic	: L-1 Making of Constitution L-2 Rights in the Indian Constitution	
Unit 2	04.05.2020 to 15.05.2020	(09)
Topic	: L-3 Elections L-4 Executive	
Unit 3	15.06.2020 to 26.06.2020	(10)
Topic	: L-4 to be completed L-5 Legislature	
Unit 4	29.06.2020 to 10.07.2020	(11)
Topic	: L-6 Judiciary L-7 Freedom	
Unit 5	13.07.2020 to 24.07.2020	(10)
Topic	: L-7 to be completed L-8 Local Government	
Unit 6	27.07.2020 to 07.08.2020	(09)
Topic	: L-9 & 10 Constitution living document	
Unit 7	10.08.2020 to 21.08.2020	(09)
Topic	: Philosophy of the Indian Constitution	

Book-II : Political Theory

Unit 8	24.08.2020 to 11.09.2020	(15)
Topic	: L-1 Political Theory L-2 Freedom	
Unit 9	28.09.2020 to 16.10.2020	(15)
Topic	: L-3 Equality L-4 Social Justice	
Unit 10	19.10.2020 to 21.11.2020	(17)
Topic	: L-5 Rights L-6 Citizenship	
Unit 11	23.11.2020 to 05.12.2020	(10)
Topic	: L-7 Nationalism	
Unit 12	07.12.2020 to 24.12.2020	(12)
Topic	: L-8 Secularism	
Unit 13	04.01.2021 to 15.01.2021	(10)
Topic	: L-9 Peace	
Unit 14 & Rev.	18.01.2021 to 30.01.2021	(10)
Topic	: L-10 Development	

BUSINESS STUDIES

Prescribed Book : NCERT

Reference Books :

1. G.S. Alag
2. Subhash Dey
3. Alka Dhawan
4. Tappan Pathak (bull's eye)

Rationale :

1. Business Studies is introduced at +2 stage of Senior Secondary Education as formal Commerce education is provided after ten years of schooling.
2. Business is a dynamic process that brings together technology, natural resources and human initiative in a constantly changing global environment. To understand the framework in which business operates, a

<p>detailed study of the organisation and management of business processes and its interaction with environment is required.</p> <p>3. Globalisation has changed the way organisations transact their business Information Technology is becoming part of business operations in more and more organisations.</p> <p>4. Computerised system are fast replacing other systems. e-Business and other related concepts are picking up fast which need to be emphasized in the curriculum.</p> <p>The course in Business Studies will prepare students to analyse, manage, evaluate and respond to changes which affect business. It provides a way of looking at and interacting with the business environment. It recognise the fact that business influences and is influenced by social, political, legal and economic forces. It allows students to appreciate that business is an integral component of society and develops an understanding of many social and ethical issues. Therefore, to acquire basic knowledge of business world, a course in Business Studies would be useful. It also informs students of a range of study and work options and bridges the gap between school and work.</p> <p>Objectives :</p> <ul style="list-style-type: none"> ❖ To develop students with an understanding of the processes of business and its environment. ❖ To acquaint students with the dynamic nature and inter- dependent aspects of business. ❖ To develop an interest in the theory and practice of business, trade and industry. 	<ul style="list-style-type: none"> ❖ To acquaint students with practice of managing the operations and resources of business. ❖ To enable students to act more effectively and responsibly as consumers, employers, employees and citizens. <p>Unit 1 13.04.2020 to 01.05.2020 (15)</p> <p>Topic : • Nature and Purpose of Business • Forms of Business Organisations</p> <p>Learning Outcomes : After going through this unit, the student would be able to :</p> <ul style="list-style-type: none"> • To acquaint the History of Trade and Commerce in India • Understand the meaning of business with special reference to economic and non economic activities. • Discuss the characteristics of business. • Understand the concept of business, profession and employment. • Differentiate between business, profession and employment • Appreciate the economic and social objectives of business. • Examine the role of profit in business. • Understand the broad categories of business activities- industry and commerce. • Describe the various types of industries. • Discuss the meaning of commerce, trade and auxiliaries to trade. • Discuss the meaning of different types of trade and auxiliaries to trade. • Examine the role of commerce-trade and auxiliaries to trade. • Understand the concept of risk as a special characteristic of business. • Examine the nature and causes of business risks 	<p>After going through this unit, the student would be able to :</p> <ul style="list-style-type: none"> • List the different forms of business organizations and understand their meaning. • Identify and explain the concept, merits and limitations of Sole Proprietorship. <p>Art Integration :</p> <ul style="list-style-type: none"> • Flow charts • Gaming and puzzles <p>Unit 2 04.05.2020 to 15.05.2020 (09)</p> <p>Topic : • Forms of Business Organisations • Project</p> <p>Learning Outcomes : After going through this unit, the student would be able to :</p> <ul style="list-style-type: none"> • Identify and explain the concept, merits and limitations of a Partnership firm. • Understand the types of partnership on the basis of duration and on the basis of liability. • State the need for registration of a partnership firm. • Discuss types of partners –active, sleeping, secret, nominal and partner by estoppel. • Understand the concept of Hindu Undivided Family Business. • Identify and explain the concept, merits and limitations of Cooperative Societies. • Understand the concept of consumers, producers, marketing, farmers, credit and housing cooperatives. • Identify and explain the concept, merits and limitations of private and public companies. • Understand the meaning of One Person Company. • Distinguish between a private company and a public company. <p>Art Integration :</p> <ul style="list-style-type: none"> • Case studies
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- Flow charts
- Role play

Unit 3 15.06.2020 to 26.06.2020 (10)

Topic : • Forms of Business Organisations
• Public, Private and Global Enterprises

Learning Outcomes : After going through this unit, the student would be able to :

- Highlight the stages in the formation of a company.
- Discuss the important documents used in the various stages in the formation of a company.
- Distinguish between the various forms of business organizations.
- Explain the factors that influence the choice of a suitable form of business organization.

After going through this unit, the student would be able to :

- Develop an understanding of Public sector and private sector enterprises
- Identify and explain the features, merits and limitations of different forms of public sector enterprises
- Develop an understanding of multinational company, joint ventures and public private partnership by studying their meaning and features.

Art Integration :

- Case studies
- Flow charts
- Role play
- Educational Tambola

Unit 4 29.06.2020 to 10.07.2020 (11)

Topic : Public, Private and Global Enterprises

Learning Outcomes : After going through this unit, the student would be able to :

- Develop an understanding of multinational

company, joint ventures and public private partnership by studying their meaning and features.

Art Integration :

- Case studies
- Flow charts

Unit 5 13.07.2020 to 24.07.2020 (10)

Topic : Business Services

Learning Outcomes : After going through this unit, the student would be able to :

- Understand the meaning and types of business services.
- Discuss the meaning and types of Business service Banking
- Develop an understanding of difference types of bank account.
- Develop an understanding of the different services provided by banks
- Recall the concept of insurance
- Understand Utmost Good Faith, Insurable Interest, Indemnity, Contribution, Doctrine of Subrogation and Causa Proxima as principles of insurance
- Discuss the meaning of different types of insurance-life, health, fire, marine insurance.
- Understand the utility of different telecom services

Art Integration :

- Flow charts
- Gaming and puzzles
- Role play

Unit 6 27.07.2020 to 07.08.2020 (09)

Topic : Emerging modes of Business

Learning Outcomes : After going through this unit, the student would be able to :

- Discuss the scope of e-business.
- Appreciate the benefits of e-business.

- Distinguish e-business from traditional business
- Understand the concept of outsourcing.
- Examine the scope of outsourcing, appreciate the need of outsourcing.
- Discuss the meaning of Business Process Outsourcing and Knowledge Process Outsourcing

Art Integration :

- Flash cards
- Gaming and puzzles

Unit 7 10.08.2020 to 21.08.2020 (09)

Topic : Emerging modes of Business

Learning Outcomes : After going through this unit, the student would be able to :

- Examine the scope of outsourcing, appreciate the need of outsourcing.
- Discuss the meaning of Business Process Outsourcing and Knowledge Process Outsourcing

Art Integration :

- Flash cards
- Gaming and puzzles

Unit 8 24.08.2020 to 11.09.2020 (15)

Topic : REVISION

Unit 9 28.09.2020 to 16.10.2020 (15)

Topic : • Social Responsibility and Business Ethics

- Sources of Business Finance

Learning Outcomes : After going through this unit, the student would be able to :

- State the concept of social responsibility.
- Examine the case for social responsibility.
- Identify the social responsibility towards different interest groups.
- Appreciate the role of business in environment protection.
- State the concept of business ethics.
- Describe the elements of business ethics.

After going through this unit, the student would be able to :

- State the meaning, nature and importance of business finance.
- Classify the various sources of funds into owners' funds.
- State the meaning of owners' funds.
- Understand the meaning of Global Depository receipts, American Depository Receipts and Indian Depository Receipts.

Art Integration :

- Case studies
- Flow charts

Unit 10 19.10.2020 to 21.11.2020 (17)

Topic : • Sources of Business Finance
• Small Business

Learning Outcomes : After going through this unit, the student would be able to :

- State the meaning of borrowed funds.
- Discuss the concept of debentures, bonds, loans from financial institutions and commercial banks, Trade credit and inter corporate deposits.
- Distinguish between owners' funds and borrowed funds.

Learning Outcomes : After going through this unit, the student would be able to :

- Understand the concept of Entrepreneurship Development (ED), Intellectual Property Rights
- Understand the meaning of small business
- Discuss the role of small business in India
- Appreciate the various Government schemes and agencies form development of small scale industries. NSIC and DIC with special reference to rural, backward area.

Art Integration :

- Case studies

- Flow charts
- Role play
- Educational Tambola

Unit 11 23.11.2020 to 05.12.2020 (10)

Topic : Internal Trade

Learning Outcomes : After going through this unit, the student would be able to :

- State the meaning and types of internal trade.
- Appreciate the services of wholesalers and retailers.
- Explain the different types of retail trade
- Highlight the distinctive features of departmental stores, chain stores and mail order business.
- Understand the concept of GST

Art Integration :

- Case studies
- Flow charts

Unit 12 07.12.2020 to 24.12.2020 (12)

Topic : International Business

Learning Outcomes : After going through this unit, the student would be able to :

- Understand the concept of international trade.
- Describe the scope of international trade to the nation and business firms.
- State the meaning and objectives of export trade.
- Explain the important steps involved in executing export trade.
- State the meaning and objectives of import trade.
- Discuss the important steps involved in executing import trade.

Art Integration :

- Flow charts

Unit 13 04.01.2021 to 15.01.2021 (10)

Topic : International Business

- Project
- Revision

Learning Outcomes : After going through this unit, the student would be able to :

- Develop an understanding of the various documents used in international trade.
- Identify the specimen of the various documents used in international trade.
- Highlight the importance of the documents needed in connection with international trade transactions
- State the meaning of World Trade Organization.
- Discuss the objectives of World Trade Organization in promoting international trade.

Art Integration :

- Flow charts

Unit 14 & Rev. 18.01.2021 to 30.01.2021 (10)

Topic : Revision

EXAMINATION SCHEDULE :

Periodic Asst.-1 20.07.2020 to 24.08.2020

Topic : Nature and Purpose of Business
Forms of Business Organisations

Half Yearly Exams : 14.09.2020 to 25.09.2020

Topic : Nature and Purpose of Business
Forms of Business Organisations
Public, Private and Global
Enterprises
Business Services
Emerging modes of Business

Periodic Asst.-2 12.10.2020 to 07.12.2020

Topic : Business Ethics
Sources of Business Finance

Periodic Asst.-3 14.12.2020 to 25.01.2021

Topic : Small Business

Annual Exams : 01.02.2021 onwards (Tenta.)

Topic : All chapters + Project file
Internal Trade

ACCOUNTANCY

Objectives :

1. To familiarize students with new and emerging areas in the preparation and presentation of financial statements.
2. To acquaint students with basic accounting concepts and accounting standards.
3. To develop the skills of designing need based accounting database.
4. To appreciate the role of ICT in business operations.
5. To develop an understanding about recording of business transactions and preparation of financial statements.

Unit 1 13.04.2020 to 01.05.2020 (15)

Topic : Meaning and objective of accounting,
Basic accounting terms

Learning Outcomes :

- describe the meaning, significance, objectives, advantages and limitations of accounting in the modern economic environment with varied types of business and non-business economic entities.
- identify / recognise the individual(s) and entities that use accounting information for serving their needs of decision making.
- explain the various terms used in accounting and differentiate between different related terms like current and non-current, capital and revenue.
- give examples of terms like business transaction, liabilities, assets, expenditure and purchases.
- explain that sales/purchases include both

cash and credit sales/purchases relating to the accounting year.

- differentiate among income, profits and gains.

Art Inegration : FLOW CHART EXPLAINING ACCOUNTING PROCESS

Unit 2 04.05.2020 to 15.05.2020 (09)

Topic : Accounting principles, process and basis of accounting, accounting standard, accounting equation

Learning Outcomes :

- state the meaning of fundamental accounting assumptions and their relevance in accounting.
- describe the meaning of accounting assumptions and the situation in which an assumption is applied during the accounting process.
- explain the meaning and objectives of accounting standards.
- appreciate that various accounting standards developed nationally and globally are in practice for bringing parity in the accounting treatment of different items.
- acknowledge the fact that recording of accounting transactions follows double entry system.
- explain the bases of recording accounting transaction and to appreciate that accrual basis is a better basis for depicting the correct financial position of an enterprise.
- Understand the need of IFRS
- Explain the meaning, objective and characteristic of GST.
- explain the concept of accounting equation

and appreciate that every transaction affects either both the sides of the equation or a positive effect on one item and a negative effect on another item on the same side of accounting equation.

Art Inegration : GAMING AND PUZZLES

Unit 3 15.06.2020 to 26.06.2020 (10)

Topic : Double entry system, origin of transaction, journal, GST

Learning Outcomes :

- explain the effect of a transaction (increase or decrease) on the assets, liabilities, capital, revenue and expenses.
- appreciate that on the basis of source documents, accounting vouchers are prepared for recording transaction in the books of accounts.
- develop the understanding of recording of transactions in journal and the skill of calculating GST.

Art Inegration : PREPARING DIFFERENT LEDGER IN PROPER FORMATS

Unit 4 29.06.2020 to 10.07.2020 (11)

Topic : Cash book, subsidiary books, ledger, trial balance

Learning Outcomes :

- explain the purpose of maintaining a Cash Book and develop the skill of preparing the format of different types of cash books and the method of recording cash transactions in Cash book.
 - describe the method of recording transactions other than cash transactions as per their nature in different subsidiary books
- Art Inegration : PREPARING JOURNAL USING PROPER FORMATS

<p>Unit 5 13.07.2020 to 24.07.2020 (10) Topic : Bank reconciliation statement Learning Outcomes :</p> <ul style="list-style-type: none"> • appreciate that at times bank balance as indicated by cash book is different from the bank balance as shown by the pass book / bank statement and to reconcile both the balances, bank reconciliation statement is prepared. • develop understanding of preparing bank reconciliation statement. 	<ul style="list-style-type: none"> • appreciate the difference between reserve and reserve fund. <p>Art Inegration : FLOW CHART</p> <p>Unit 8 24.08.2020 to 11.09.2020 (15) Topic : Provision and reserve, Bill of exchange Learning Outcomes :</p> <ul style="list-style-type: none"> • acquire the knowledge of using bills of exchange and promissory notes for financing business transactions; • understand the meaning and distinctive features of these instruments and develop the skills of their preparation. • state the meaning of different terms used in bills of exchange and their implication in accounting. • explain the method of recording of bill transactions. 	<p>Unit 10 19.10.2020 to 21.11.2020 (17) Topic : Capital and revenue, Financial statement Learning Outcomes :</p> <ul style="list-style-type: none"> • state the meaning of financial statements the purpose of preparing financial statements. • state the meaning of gross profit, operating profit and net profit and develop the skill of preparing trading and profit and loss account. • explain the need for preparing balance sheet. • understand the technique of grouping and marshalling of assets and liabilities.
<p>Art Inegration : PREPARING DIFFERENT LEDGER IN PROPER FORMATS</p> <p>Unit 6 27.07.2020 to 07.08.2020 (09) Topic : Depreciation Learning Outcomes :</p>	<p>Art Inegration : PREPARING JOURNAL USING PROPER FORMATS</p> <p>Unit 9 28.09.2020 to 16.10.2020 (15) Topic : Rectification of errors Learning Outcomes :</p>	<p>Art Inegration : PREPARING DIFFERENT LEDGER IN PROPER FORMATS</p> <p>Unit 11 23.11.2020 to 05.12.2020 (10) Topic : Financial statement with adjustment Learning Outcomes :</p>
<ul style="list-style-type: none"> • explain the necessity of providing depreciation and develop the skill of using different methods for computing depreciation. • understand the accounting treatment of providing depreciation directly to the concerned asset account or by creating provision for depreciation account. • appreciate the method of asset disposal through the concerned asset account or by preparing asset disposal account. <p>Art Inegration : PREPARING DIFFERENT LEDGER IN PROPER FORMATS</p> <p>Unit 7 10.08.2020 to 21.08.2020 (09) Topic : Project and revision Learning Outcomes :</p>	<ul style="list-style-type: none"> • state the need and objectives of preparing trial balance and develop the skill of preparing trial balance. • appreciate that errors may be committed during the process of accounting. • understand the meaning of different types of errors and their effect on trial balance. • develop the skill of identification and location of errors and their rectification and preparation of suspense account. <p>Art Inegration : PREPARING JOURNAL USING PROPER FORMATS</p>	<ul style="list-style-type: none"> • appreciate that there may be certain items other than those shown in trial balance which may need adjustments while preparing financial statements. • develop the understanding and skill to do adjustments for items and their presentation in financial statements like depreciation, closing stock, provisions, abnormal loss etc. • develop the skill of preparation of trading and profit and loss account and balance sheet. <p>Art Inegration : PREPARING DIFFERENT LEDGER IN PROPER FORMATS</p>
<ul style="list-style-type: none"> • appreciate the need for creating reserves and also making provisions for events which may belong to the current year but may happen in next year. 		<p>Unit 12 07.12.2020 to 24.12.2020 (12) Topic : Revision</p> <p>Unit 13 04.01.2021 to 15.01.2021 (10) Topic : Accounts of incomplete record Introduction to computers</p>

Learning Outcomes :

- state the meaning of incomplete records and their uses and limitations.
- develop the understanding and skill of computation of profit / loss using the statement of affairs method.
- state the meaning of a computer, describe its components, capabilities and limitations.
- state the meaning of accounting information system.

Art Inegration : PREPARING DIFFERENT LEDGER IN PROPER FORMATS

Unit 14 & Rev. 18.01.2021 to 30.01.2021 (10)

Topic : Project and revision

Learning Outcomes PROJECT WORK

- It is suggested to undertake this project after completing the unit on preparation of financial statements.
- The student(s) will be allowed to select any business of their choice or develop the transaction of imaginary business.
- The project is to run through the chapters and make the project an interesting process.
- The amounts should emerge as more realistic and closer to reality.

EXAMINATION SCHEDULE :

Periodic Asst.-1 20.07.2020 to 24.08.2020

Topic : Meaning and objective of accounting, basic accounting terms, accounting equation, Journal

Half Yearly Exams : 14.09.2020 to 25.09.2020

Topic : Chapter1 to 16

Periodic Asst.-2 12.10.2020 to 07.12.2020

Topic : Bill of exchange, rectification of error

Periodic Asst.-3 14.12.2020 to 25.01.2021

Topic : Financial statement with and without adjustments

Annual Exams : 01.02.2021 onwards (Tenta.)

Topic : Ch-1 to 26

ECONOMICS

Prescribed books :

NCERT

Reference Book :

Introductory microeconomics by Sandeep Garg
Statics book by Sandeep Garg

Teaching objective of economics at senior secondary level :

Economics is one of the social science which has great influence on every human being. At senior secondary stage the learners are in a position to understand abstract ideas, exercise and power of thinking and to develop their own perception about economic activities. The objective of teaching economics is;

- Understanding of some basic economic concepts and development of economic reasoning
- Realization of learner's role in nation building and sensitivity to economic issues that the nation is facing today
- Development of understanding that there can be more than one view on any economic issues and necessary skills to argue logically with reasoning

Part-A : INDUCTORY MICROECONOMICS

Unit 1 13.04.2020 to 01.05.2020 (15)

Unit-1 : Introduction

Chapter-1 : introduction

Learning Outcomes : All topics were explained with proper examples and notes. Students became familiar with the meaning of micro and macroeconomics. They learned difference between positive and normative economics. They became aware about the concept of PPC and its features.

Art integration/Lab activity : Diagrammatic presentation of PPC

Unit 2 04.05.2020 to 15.05.2020 (09)

Unit-2 : Consumer's equilibrium and demand

Chapter-2 : Consumer's equilibrium

Learning Outcomes : Were able to understand the meaning of consumer's equilibrium by both cardinal and ordinal approach.

Art integration/Lab activity : Diagrammatic presentation of indifference curve, budget line and consumer's equilibrium.

Chapter-3 : Demand

Learning Outcomes : Students learned the meaning of demand and its determinants. They were able to understand the difference between individual and market demand and how demand is affected by indeterminants.

Art integration/Lab activity : Diagrammatic presentation of individual demand, market demand and the difference between movement along and shift in demand.

Chapter-4 : Elasticity of demand

Learning Outcomes : Students learned the meaning of elasticity of demand and its types. They also learned how to calculate elasticity of demand by both percentage and expenditure method.

Art integration/Lab activity : Diagrammatic presentation of different types of elasticity of demand.

Unit 3 15.06.2020 to 26.06.2020 (10)
Unit-3 : Producer's behavior and supply
Chapter-5 : Production function
Learning Outcomes : Students were able to comprehend the meaning of production and the relationship between TP, AP and MP. They learned how to draw their diagrams. They also learned about law of variable proportion along with the its numerical.
Art integration/Lab activity : Diagrammatic presentation of TP, AP and MP curves.
Chapter-6 : Cost
Learning Outcomes : Students were able to interpret the behavior of cost curves in short period. They learned the relationship between different cost curves. They were able to calculate numerical values of cost.
Art integration/Lab activity : Tabular and diagrammatic presentation of different cost curves.
Chapter-7 : Revenue
Learning Outcomes : Students were able to understand the meaning of revenues and the relationship between TR, AR and MR in different market conditions.
Art integration/Lab activity : diagrammatic and tabular presentation of different revenue curves in different market conditions.
Chapter-8 : Producer's equilibrium
Learning Outcomes : Were able to understand the meaning of producer's equilibrium by both TR and TC and MR and MC approach in different market conditions.
Art integration/Lab activity : Diagrammatic presentation of equilibrium of a firm by MR and MC approach.

Chapter-9 : Supply and elasticity of supply
Learning Outcomes : Ability to understand the meaning of supply and its determinants and also learn how to calculate elasticity of supply by percentage method with its different degrees.
Art integration/Lab activity : Diagrammatic presentation of different forms of elasticity of supply with schedule.
Unit 4 29.06.2020 to 10.07.2020 (11)
Unit-4 : Forms of market and price determination under perfect competition with simple applications
Chapter-10 : Forms of market
Learning Outcomes : Students were able to learn about the different forms of market with the help of their features, diagrams and examples.
Art integration/Lab activity : Presentation of demand curves of different forms of market.
Chapter-11 : Market equilibrium and Price determination under perfect competition
Learning Outcomes : Students learned how to determine equilibrium price under perfect competition market. They also learned to draw the diagrams of the effect of change in demand and supply on equilibrium price.
Art integration/Lab activity : Graphical presentation of equilibrium price and the effects of shift in demand and supply on it.
Chapter-12 : Simple applications of tools and demand and supply curves
Learning Outcomes : Students learned the applications of demand and supply in the process of determination of maxima and minima price formation.
Art integration/Lab activity : Graphical presentation of price flooring and price ceiling.

PART-B : STATISTICS FOR ECONOMICS
Unit 5 13.07.2020 to 24.07.2020 (10)
Unit-5 : Introduction
Chapter-1 : What is Economics
Learning Outcomes : Students learned the meaning of economics and use of statistics in economics with its limitations.
Art integration/Lab activity : Flow chart of statistics and business planning.
Chapter-2 : Meaning and scope
Learning Outcomes : They learned about the meaning of statistics and its scope.
Unit 6 27.07.2020 to 07.08.2020 (09)
Unit-6 : Collection and organization of data
Chapter-3 : collection of primary and secondary data
Learning Outcomes : Students learned the concept of collection of data through primary and secondary sources with their merits and demerits.
Art integration/Lab activity : Pictorial presentation of data.
Chapter-4 : Organization of data
Learning Outcomes : Students learned objective, characteristics and method of classification of data. They also learned how to make different types of statistical series
Art integration/Lab activity : Tabular presentation of different types of series.
Chapter-5 : Tabular presentation
Learning Outcomes : Students learned definition and objectives of tabulation and different parts of a table with its statistical importance.
Art integration/Lab activity : Tabular presentation of statistical series.
Chapter-6 : Diagrammatic presentation
Learning Outcomes : Students learned

GEOGRAPHY

importance and uses of graphs and diagrams. They also learned how to draw different types of diagrams.

Art integration/Lab activity : Diagrammatic presentation of different types of bar diagrams, histograms and pie charts.

Chapter-7 : Graphical presentation

Learning Outcomes : Students learned how to draw the graphs of frequency distribution and time series graphs

Art integration/Lab activity : Graphical presentation of different forms of graphs.

Unit 7 10.08.2020 to 21.08.2020 (09)

Unit-7 : Statistical tools and Interpretation

Chapter-8 : Measures of central tendency

Learning Outcomes : Students were able to comprehend the meaning and importance of averages and how to calculate arithmetic mean

Art integration/Lab activity : Tabular presentation

Chapter-9 : Positional average and partition values

Learning Outcomes : Students learned about the ways to calculate median and mode both by arithmetic and graphical methods.

Art integration/Lab activity : Graphical presentation of median and mode.

Chapter-10 : Measures of dispersion

Learning Outcomes : Students learned objectives of measuring dispersion and different methods of calculating absolute and relative dispersions.

Art integration/Lab activity : Tabular and graphical presentation of dispersion

Chapter-11 : Measures of correlation

Learning Outcomes : Students learned about

the meaning, kinds and degree of correlation.

They also learned to find degree of correlation by rank and Pearson's method

Art integration/Lab activity : Tabular and graphical presentation of linear and non linear correlation

Chapter-12 : Introduction of index number

Chapter-13 : Mathematical tools used in economics

Learning Outcomes : Students learned meaning types and methods of constructing index numbers. They also learned about consumer price index, wholesale price index and its limitations.

Art Integration/Lab Activity : Tabular presentation of different types of index number
Unit 8 24.08.2020 to 11.09.2020 (15)

Unit-8 : Developing projects in economics

Chapter-14 : Preparation of project work

Learning Outcomes :

Students learned how to make project and its uses in daily life. They came to know about productivity awareness

Art integration/Lab activity : Preparation of project with the help of tables, diagrams and flow charts

EXAMINATION SCHEDULE :

Periodic Asst.-1 20.07.2020 to 24.08.2020

Chapter : Unit 1 and 2

Chapter : Unit 5

Half Yearly Exams : 14.09.2020 to 25.09.2020

Chapter : Unit 1, 2, 5 and 6

Periodic Asst.-2 12.10.2020 to 07.12.2020

Chapter : Unit 3

Periodic Asst.-3 14.12.2020 to 25.01.2021

Chapter : Unit 7

Annual Exams : 01.02.2021 onwards (Tenta.)

Chapter : Entire syllabus

Prescribed books :

1. Fundamentals of Physical Geography : NCERT
2. India-Physical Environment : NCERT
3. India-Practical Work in Geography : NCERT

Rationale :

Geography is introduced as an elective subject at the senior secondary stage. After ten years of general education, students branch out at the beginning of this stage and are exposed to the rigours of the discipline for the first time. Being an entry point for the higher education, students choose geography for pursuing their academic interest and, therefore, need a broader and deeper understanding of the subject. For others, geographical knowledge is useful in daily lives of young people. Its contribution lies in the content, cognitive processes, skills and values that geography promotes and thus helps the students explore, understand and evaluate the environmental and social dimensions of the world in a better manner.

Since geography explores the relationship between people and their environment, it includes studies of physical and human environments and their interactions at different scales local, state/region, nation and the world. The fundamental principles responsible for the varieties in the distributional pattern of physical and human features and phenomena over the earth's surface need to be understood properly. Application of these principles would be taken up through selected case studies from the world and India. Thus, the physical and human environment of India and study of some issues from a

geographical point of view will be covered in greater detail. Students will be exposed to different methods used in geographical investigations.

Objectives :

The course in geography will help learner :

- ◆ Familiarise with key concepts and principles of Geography
- ◆ Search for, recognize and understand the processes and patterns of the spatial arrangement of the natural features as well as human aspects and phenomena on the earth's surface.
- ◆ Understand and analyse the interrelationship between physical and human environments and utilize such knowledge in reflecting on issues related to community.
- ◆ Apply geographical knowledge and methods of inquiry to emerging situations or problems at different levels-local, regional, national and global.
- ◆ Develop geographical skills, relating to collection, processing and analysis of spatial data/information and preparation of report including maps and graphs and use of computers where ever possible, and to be sensitive to issues.
- ◆ Utilize geographical knowledge in understanding issues concerning the community such as environmental issues, socio-economic concerns, and gender and become responsible and effective members of the community.

Unit 1 13.04.2020 to 01.05.2020 (15)

Topic : Ch-1 Geography and Development
Ch-2 The Origin and Evolution of the Earth

Practical : Introduction to Maps

Learning Outcomes :

Ch-1. (i) Students will learn about the physical environment of the earth, human activities and their interactive relationships.

(ii) They will become familiar with Geography as an independent subject along with its branches.

Ch-2. In this chapter, students will learn origin and evolution of the earth. They will be able to explain as to how the stars were formed, and many other facts about solar system

Art Integration/Activities : Practical class on maps and types of maps as per scales, essentials of making a map, advantages of map and globe.

Unit 2 04.05.2020 to 15.05.2020 (09)

Topic : Ch-3 Interior of the Earth
Ch-4 Distribution of Oceans and Continents

Practical : Map Scale

Learning Outcomes :

Ch-3. (i) In this chapter, students will learn about interior structure of the earth.

(ii) They will know how scientists have gathered information about these layers and what the characteristics of each of these layers are.

Ch-4. In this chapter, students will learn about distribution of continents and ocean with the help of plate tectonic and continental drift theories.

(ii) They will be able to differentiate the drift theory and the plate tectonics.

Art Integration/Activities : Students will draw a well labelled diagram of the interior of the earth and write all important characteristics of each layer.

Practical class on map scales such as R.F., graphical method, statement of scale

Unit 3 15.06.2020 to 26.06.2020 (10)

Topic : Ch-5 Minerals and Rocks

Ch-6 Geomorphic Processes

Ch-7 Landforms and the Evolution

Learning Outcomes :

Ch-5. (i) Students will learn about minerals and their physical characteristics.

(ii) They will can name some minerals that constitute our earth.

(iii) They will be able to differentiate various rocks with the help of 'Rock Cycle.'

Ch-6. (i) In this chapter, students will learn about the surface of the on which they live.

(ii) They will be able to recall and differentiate the endogenic and exogenic forces responsible for making the surface of the earth uneven.

Ch-7. In this chapter, students will learn about landforms and their evolution.

(ii) They will learn how geomorphic agents like running water, ground water, wind, glaciers, and waves perform erosion and deposition due to which changes occur on the surface of the earth.

Art Integration/Activities : Students will be asked to collect different rock samples and try to recognize them from their physical characteristics and identify their family.

Unit 4 29.06.2020 to 10.07.2020 (11)

Topic : Ch-8 Composition and structure of Atmosphere

Ch-9 Solar Radiation and

Temperature

Practical : Latitude, Longitude and Time

Learning Outcomes :

Ch-8. Students will learn about composition and structure of atmosphere and its significance.

Ch-9. In this chapter, students will learn and be able to explain the process of heating and cooling of the atmosphere and the resultant temperature distribution over the earth's surface.

Art Integration/Activities : Class Discussion on 'Role of Citizens in making earth a better place to live on.'

Practical class on Latitude, and Longitude and calculation of time difference of major cities with the help of latitude and longitude

Unit 5 13.07.2020 to 24.07.2020 (10)

Topic : Ch-10 Atmospheric Circulation and Weather
Ch-11 Water in the Atmosphere

Learning Outcomes :

Ch-10. In this chapter, students will learn about the causes of pressure differences, the forces that control the atmospheric circulation, the turbulent pattern of wind, the formation of air masses, the disturbed weather when air masses interact with each other and the phenomenon of violent tropical storms.

Ch-11. In this chapter, students will learn about presence of water in the atmosphere in three forms-gaseous, liquid and solid.

(ii) They will be able to explain as to how exchange of water between the atmosphere, the oceans and the continents continues through the processes of evaporation, transpiration, condensation and precipitation.

Unit 6 27.07.2020 to 07.08.2020 (09)

Topic : Ch-12 World Climate and Climate Change
Ch-13 Water (Oceans)
Ch-14 Movements of Ocean Water

Learning Outcomes :

Ch-12. (i) Students will learn how world climate

can be studied by organizing information and data on climate and synthesizing them in smaller units for easy understanding, description and analysis.

(ii) They will become familiar with Koeppen's Scheme of classification of climate.

Ch-13. Students will learn about water and its significance for the creatures on the earth.

Ch-14. (i) Students will get to know how external forces like sun, moon, and the winds influence the movement of ocean water.

(ii) They will be able to explain the characteristics of waves

Art Integration/Activities : Debate on 'Climate Change'

Students will be asked to make a Power Point presentation or short movie to be shown to all the students in the school to motivate them towards saving water.

Students will be asked to prepare a list of currents which found in Pacific, Atlantic and Indian Oceans. They will also locate and label these currents on the world map.

Unit 7 10.08.2020 to 21.08.2020 (09)

Topic : Ch-15. Life on the Earth
Ch-16 Biodiversity and Conservation

Learning Outcomes :

Ch-15. In this chapter, students will learn about biosphere and its components and how these components are very significant elements of the environment.

Ch-16. In this chapter, students will learn about biodiversity, its importance, causes of loss of biodiversity & its conservation

Art Integration/Activities : Map Activity : Students will be asked to locate and label the mega

diversity Centres and ecological hotspots on the world map.

Book-2

Unit 8 24.08.2020 to 11.09.2020 (15)

Topic : Ch-1 India-Location

Practical : Map Projection

Learning Outcomes :

Ch-1. Students will learn various facts that explain India's location and size in the world.

Art Integration/Activities : Map Based Activity

Practical class on map projections

Unit 9 28.09.2020 to 16.10.2020 (15)

Topic : Ch-2 Structure and Physiography
Ch-3 Drainage

Learning Outcomes :

Ch-2. (i) Students will become familiar with geological divisions of India and their main features.

(ii) They will be able to locate them on the map of India.

Ch-3. Students will learn about drainage systems of India and will be able to compare or differentiate them

Art Integration/Activities : Map Based Activity

Unit 10 19.10.2020 to 21.11.2020 (17)

Topic : Ch-4 Climate

Practical : Topographical Maps

Learning Outcomes :

Ch-4. Students will learn about India's climate and factors affecting it, seasons in India and their features.

Art Integration/Activities : Practical class on conventional signs and symbols and reading of the topographical maps.

Unit 11 23.11.2020 to 05.12.2020 (10)

Topic : Ch-5 Natural Vegetation

Learning Outcomes :

Ch-5. (i) Students will be able to classify Indian forests.

(ii) They will be able to explain the characteristic features of each type.

(iii) Students will be able to suggest some measures to conserve and protect flora and fauna in our country.

Art Integration/Activities : Map Based Activity and 'Ramp Walk' to create general awareness on Endangered species of plants and animals in the Morning Assembly.

Unit 12 07.12.2020 to 24.12.2020 (12)

Topic : Ch-6 Soils

Practical : Weather Instruments, Maps & Charts

Learning Outcomes :

Ch-6. (i) Students will learn about soil; its types and factors leading to soil erosion.

(ii) They will realize how it is a valuable resource and will be able to suggest some measures to conserve it.

Art Integration/Activities : Map Based Activity
Practical class on weather maps

Unit 13 04.01.2021 to 15.01.2021 (10)

Topic : Ch-7 Natural Hazards and Disasters

Learning Outcomes :

Ch-7. In this chapter, students will study about some of the undesirable and bad changes caused by earthquakes, floods and wars etc.

(ii) They will be able to suggest some measures to manage these disasters and create public awareness as the disaster preparedness.

Art Integration/Activities :

1. Map Based Activity

2. Students will be asked to divide India into natural disaster vulnerability zones based on droughts and suggest some mitigation measures.

Unit 14 & Rev. 18.01.2021 to 30.01.2021 (10)

Topic : Revision for Annual Examination will be done through written class tests, holding doubt class, holding discussions on selective topics, doing probing questioning in the class, issuing sample paper and discussing the same in the class

Book-1

EXAMINATION SCHEDULE :

Periodic Asst.-1 20.07.2020 to 24.08.2020

Topic : Ch-1, 2, 3, 4

Half Yearly Exams : 14.09.2020 to 25.09.2020

Topic : Unit-1 to 7

Book-2

Periodic Asst.-2 12.10.2020 to 07.12.2020

Topic : Ch-1 and 2

Book-2

Periodic Asst.-3 14.12.2020 to 25.01.2021

Topic : Ch-4 and 5

Annual Exams : 01.02.2021 onwards (Tenta.)

Topic : All units (Book 1 and 2)

PSYCHOLOGY

Books Recommended :

1. NCERT Class XI
2. Supplementary reading material by CBSE

Learning Objectives :

- ◆ To help develop an understanding and appreciating Psychology as a discipline, its applications and relationships with other sciences through appropriate and interesting

examples and analysis of everyday experiences.

- ◆ To familiarize students with the methods of studying and understanding behavior.
- ◆ Explain the role of biological and socio cultural factors in the shaping of human
- ◆ Help appreciate the variations in development and the developmental tasks across the life span.
- ◆ To help in understanding how various sensory stimuli are received, attended to and given meaning.
- ◆ Foster an understanding as to how human beings acquire new behavior and how changes in behavior take place.
- ◆ To educate students about how information is received, stored, retrieved and lost. Ways to improve memory shall also be discussed.
- ◆ Help appreciate the nature of thinking and its related processes like reasoning, problem solving, decision making, creative thinking and relationship between thought and language.
- ◆ Develop an understanding of why human beings behave as they do how people experience positive and negative events and respond to them.

Unit 1 13.04.2020 to 01.05.2020 (15)

Topic : Unit 1 : What is psychology Δ
Unit 2 : Methods of Inquiry in Psychology

Learning outcomes : students will be able to understand the nature and role of psychology in understanding mind and behavior

Integration of Art : Flow charts

Unit 2 04.05.2020 to 15.05.2020 (09)

Topic : Unit 2 : Methods of Inquiry in

Psychology (contd.) &
Research project will be introduced
Learning outcomes : students will be able to familiarize with the methods of studying and understanding Qualitative method, psychological questions and issues
Integration of Art : Mind maps

Unit 3 15.06.2020 to 26.06.2020 (10)
Topic : Unit 3 : The Bases of Human Behavior
Learning outcomes : Students will be able to understand the role of biological and socio cultural factors in the shaping of human behaviour and experience.
Integration of Art : Models of brain diagrams

Unit 4 29.06.2020 to 10.07.2020 (11)
Topic : Unit : 3 The Bases of Human Behavior (contd.)

Unit 5 13.07.2020 to 24.07.2020 (10)
Topic : Unit 4 : Human Development
Learning outcomes : Students will be able to analyse variations in development.
Integration of Art : Flow charts

Unit 6 27.07.2020 to 07.08.2020 (09)
Topic : Unit 4 : Human Development (contd.)
Learning outcomes : Students will be able to observe variations in development and the developmental tasks across the life span.

Unit 7 10.08.2020 to 21.08.2020 (09)
Topic : Unit 5 : Sensation Perception + Experiment 1
Learning outcomes : Students will be able to understand how various sensory stimuli are received, attended to and given meaning.
Integration of Art : Mind maps and diagrams
Conduction

Unit 8 24.08.2020 to 11.09.2020 (15)
Topic : Unit 5 : Attention (contd.)

+ Revision, Sample Paper

Unit 9 28.09.2020 to 16.10.2020 (15)
Topic : Unit 5 : Attention (contd.)
+ Revision, Sample Paper

Unit 10 19.10.2020 to 21.11.2020 (17)
Unit 6 : Learning (Introduction)
Topic : Unit 6 : Learning (contd.)
Learning outcomes : Students will be able to see how human beings acquire new behaviour and how changes in behaviour take place.
Integration of Art : Diagrams
Flow charts

Unit 11 23.11.2020 to 05.12.2020 (10)
Topic : Unit 7 : Memory + Experiment 2
Learning outcomes : Students will be able to analyze the models of working memory systems
Integration of Art : Flow charts
Conduction of experiments

Unit 12 07.12.2020 to 24.12.2020 (12)
Topic : Unit 8 : Thinking
Learning outcomes : Students will be able to know how information is received, stored, retrieved and lost. It will also discuss how memory can be improved.
Integration of Art : Mind maps
Flow charts

Unit 13 04.01.2021 to 15.01.2021 (10)
Topic : Unit 8 : Thinking (Contd.)
Unit 9 : Motivation and Emotion
Topic : Unit 9 : Motivation and Emotion
Learning outcomes : Students will be able to appreciate as to why human beings behave as they do. It also deals with how people experience positive and negative events and responds to them.
Integration of Art : Flow chart of the theories
Linkage maps

Unit 14 & Rev. 18.01.2021 to 30.01.2021 (10)
Topic : Revision + Sample paper
Integration of Art : Questioning

EXAMINATION SCHEDULE :

Periodic Asst.-1 20.07.2020 to 24.08.2020
Topic : Unit 1: What is Psychology
Unit 2 : Methods of inquiry in Psychology

Half Yearly Exams : 14.09.2020 to 25.09.2020
Topic : Unit 1 to 5

Periodic Asst.-2 12.10.2020 to 07.12.2020
Topic : Unit 6 : Learning
Unit 7 : Memory

Periodic Asst.-3 14.12.2020 to 25.01.2021
Topic : Unit 8 : Thinking

Annual Exams : 01.02.2021 onwards (Tenta.)
Unit 9 : Motivation & Emotion
Topic : Unit 1 to 9

MASS MEDIA STUDIES

Prescribed Book : CBSE Resource Material
Unit 1 13.04.2020 to 01.05.2020 (15)

Unit 1 Ch 1 : Introduction to Media

Sub Topics :

1. Definition and functions of Mass Media and Mass Communication
2. Aspects of Mass Communication
3. Barriers to Communication

Learning Outcomes :

The learners will be able to :

- understand the importance of mass media in today's scenario.
- They will also be acquainted with the aspects of mass communication.

Art Integration : Documentary

Unit 2 04.05.2020 to 15.05.2020 (09)

Unit 2 Ch 1 : Understanding Cinema

<p style="text-align: center;">Employability Skills</p> <p>Unit 1 Communication Skills - III</p> <p>Sub Topics : Evolution of Cinema</p> <p>1. Hindi Cinema 1. DG Phalke and silent era 2. Coming of sound, Studio era, Post-Independence era</p> <p>2. Satyajit Ray and non-mainstream cinema</p> <p>EMPLOYABILITY SKILLS UNIT 1</p> <p>Communication Skills –III Methods of Communication</p> <ul style="list-style-type: none"> • Verbal • Non-verbal • Visual <p>Communication styles - assertive, aggressive, passive aggressive, submissive, etc</p> <p>Writing skills to the following : • Sentence • Phrase • Kinds of Sentences • Parts of Sentence • Parts of Speech • Articles • Construction of a Paragraph</p> <p>Learning Outcomes :</p> <p>The learners will be able to :</p> <ul style="list-style-type: none"> • differentiate between silent era and present era of movies • appreciate the work done by DG Phalke and Satyajit Ray. • Demonstrate knowledge of various methods of communication • Identify specific Communication styles • Demonstrate basic writing skills <p>Art Integration : Movie : Raja Harishchandra</p> <p>Unit 3 15.06.2020 to 26.06.2020 (10)</p> <p>Unit 2 Ch 2 : Understanding Cinema 2</p> <p>Sub Topics : Evolution of Cinema</p> <p>1. Hindi Cinema 1. DG Phalke and silent era 2. Coming of sound, Studio era, Post-Independence era</p> <p>2. Satyajit Ray and non-mainstream cinema</p> <p>Learning Outcomes :</p> <p>The learners will be able to :</p>	<ul style="list-style-type: none"> • differentiate between silent era and present era of movies • appreciate the work done by DG Phalke and Satyajit Ray. <p>Art Integration : Movie : Shree 420</p> <p>Unit 4 29.06.2020 to 10.07.2020 (11)</p> <p>Unit 3 Ch 2 : Analysis of Films</p> <p style="text-align: center;">Employability Skills</p> <p>Unit 2 : Self-management Skills –III</p> <p>Sub Topics :</p> <p>1. The concept of mise en scene 2. Film Analysis 1. Short film-fiction (5) Short film-nonfiction (5) OR 2. Feature film</p> <p>EMPLOYABILITY SKILLS UNIT 2</p> <p>Self-management Skills –III</p> <p>1. Describe the importance of dressing appropriately, looking decent and positive body language</p> <p>2. Describe the term Grooming</p> <p>3. Prepare a personal grooming checklist</p> <p>4. Describe the techniques of self Exploration</p> <ul style="list-style-type: none"> • Meaning and importance of time management - setting and prioritizing goals, creating a schedule, making lists of tasks, balancing work and leisure, using different optimization tools to break large tasks into Smaller tasks • Describe the important factors that influence in team building 2. Describe factors influencing team work <p>Learning Outcomes :</p> <p>The learners will be able to :</p> <ul style="list-style-type: none"> • Understand the concept of mise en scene • Comprehend and use the parameters for film analysis • Demonstrate impressive appearance and grooming 	<ul style="list-style-type: none"> • Apply time management strategies and techniques • Demonstrate team work skills <p>Art Integration : Watch a movie and critically analyse it on the basis of standard film parameters.</p> <p>Unit 5 13.07.2020 to 24.07.2020 (10)</p> <p>Unit 2 Ch 3 : Understanding TV</p> <p>Sub Topics :</p> <p>1. Doordarshan in the first phase of local stations and black and white transmission Site Experiment</p> <p>2. Colour television, AASUAD 1982-Satellite Transmission (INSAT)</p> <p>Learning Outcomes : The learners will be able to understand the evolution of television.</p> <p>Art Integration : Watch a Television programme in the classroom on a television set with your classmates for ten minutes and write a note on the difference in your experience as compared to that of watching a movie in a cinema hall.</p> <p>Unit 6 27.07.2020 to 07.08.2020 (09)</p> <p>Unit 3 Ch 3 : Analysis of TV Program</p> <p style="text-align: center;">Employability Skills</p> <p style="text-align: center;">Information & Communication Technology – III</p> <p>Sub Topics :</p> <p>1. The concept of a soap opera - Daily soap, Weekly soap</p> <p>2. Genres of Soap Opera, primary audience of each genre</p> <p>3. The Segmented nature of the audience</p> <p>4. Gaze of the audience, concept of a flow, continuous interruption</p> <p>5. Culture of Film based programmes</p> <p>6. Culture of Music based programmes</p> <p>7. Educational TV, non-fiction on TV</p>
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EMPLOYABILITY SKILLS

Information & Communication Technology - III

1. Introduction to word Processing.
2. Software packages for word processing.
3. Opening and exiting the word processor.
4. Creating a document
 1. Editing Text
 2. Wrapping and aligning the text
 3. Font size, type and Face
 4. Header and Footer
 5. Auto correct
 6. Numbering and bullet
 7. Creating table
 8. Find and replace
 9. Page numbering.
 10. Printing document
 11. Saving a document in various formats

Learning Outcomes :

The learners will be able to :

- Understand the concept of soap opera
- Understand the genres of Soap Opera, primary audience of each genre
- Create a document on word processor
- Edit, save and print a document in word processor

Art Integration : Choose either a daily soap or a weekly soap that is currently running on any one of the television channels and do a detailed analysis of the programme to bring out the following factors : • Genre • Primary audience • Time slot of the programme • Content of the programme viz theme, milieu/set-up, time period of the story • Main plot, sub-plots, main characters

Unit 7 10.08.2020 to 21.08.2020 (09)**Unit 2 Ch 3 : Print Media & Its Types**

Sub Topics : Development of print journalism in India.

Learning Outcomes :

The learners will be able to :

- Understand the development of print journalism in India.
- They will also be able to understand the process of printing a newspaper.

Art Integration : Write down the news stories that appear on the front page of today's newspaper.

Unit 8 24.08.2020 to 11.09.2020 (15)**Unit 3 Ch 4 : Content Analysis of Print****Sub Topics :**

1. The Macro composition of a daily-various sections like the front page, edit page, sports page, business page.
2. The Micro composition of a daily-proportion of visual and text, language, highlighting.

Learning Outcomes : The learners will be able to understand the Macro composition of a daily various sections like the front page, edit page, sports page, business page.

Art Integration : Find about all the newspapers that are published/distributed in your city/town. Make a list of their names. Categorise them into broadsheet and tabloid based on the newspaper size, news content and focus, language used, vocabulary and any other criteria you consider.

Unit 9 28.09.2020 to 16.10.2020 (15)**Unit 2 Ch 5 : Radio Genres in Radio****Programming****Employability Skills****Unit 4 : Entrepreneurial Skills - III**

Sub Topics : Pre and post-independence development of radio in India

EMPLOYABILITY SKILLS

Unit 4 : Entrepreneurial Skills – III

1. Values in general and entrepreneurial values
2. Entrepreneurial value orientation with respect to innovativeness, independence, Outstanding performance and respect for work

Learning Outcomes :

The learners will be able to :

- Understand pre and post independence development of radio in India.
- Describe the significance of entrepreneurial
- Demonstrate the knowledge of attitudinal changes required to become an entrepreneur

Art Integration : Documentary on evolution of radio

Unit 10 19.10.2020 to 21.11.2020 (17)**Unit 3 Ch 5 : Content Analysis of Radio****Programmes**

Sub Topics : News - the format, the language, frequency Talks, magazine programmes unidirectional nature, feedback with a time phase difference Dramas - the unique nature of radio plays Interactive programmes - phone in, live interaction, music, experiences, memories as content of these programmes

Learning Outcomes :

The learners will be able to :

- Understand the unique nature of radio plays
- The learners will be able to understand the Interactive programmes - phone in, live interaction, music, experiences, memories as content of these programmes

Art Integration : Find out about the various genres/types of music programmes available on two local FM radio stations. Analyse what is it that differentiates one type from another Δ

Unit 11 23.11.2020 to 05.12.2020 (10)**Unit 2 Ch 6 : Internet****Employability Skills****Unit 5 : Green Skills – III****Sub Topics :** Evolution of Internet**EMPLOYABILITY SKILLS**

Unit 5 : Green Skills - III

1. Main sectors of green economy- E waste

- management, green transportation, renewal energy, green construction, water Management
2. Policy initiatives for greening economy in India

Learning Outcomes :

The learners will be able to :

- Understand the evolution of internet and how it affects our lives in present era.
- Describe importance of main sector of green economy
- Describe the major green Sectors/Areas and the role of various stakeholder in green economy

Art Integration : Documentary

Unit 12 07.12.2020 to 24.12.2020 (12)

Unit 3 Ch 1 : Media Literacy

Unit 4 Ch 1 : Story as a self content world

Sub Topics : Unit 3 Ch 1 Media Literacy

1. Introduction of Media Literacy
2. Introduction to Mass Media
3. Audience Theories
4. Media Ownership
5. Media Representation
6. Media and Violence

Learning Outcomes :

The students will be able to :

- understand the importance of media literacy
- understand Media Ownership and Media Representation in the present era
- understand the evolution of story

Art Integration : Documentary on evolution of story

Unit 13 04.01.2021 to 15.01.2021 (10)

Unit 4 Ch 2, 3, 4, 5

Sub Topics :

- Story as a subjective experience

- Content of a story Theme/subject Plot, time and space Characters
- Techniques of story telling Description Dialogue View point

Learning Outcomes :

The learners will be able to :

- understand Content of a story Theme/subject Plot, time and space Characters
- understand the techniques of storytelling.

Art Integration : Read the story Vidhwans by Munshi Premchand. This is set in preindependence India.

Unit 14 & Rev. 18.01.2021 to 30.01.2021 (10)

Topic : Revision

Sub Topics : Revision

EXAMINATION SCHEDULE :

Periodic Asst.-1 20.07.2020 to 24.08.2020

Topic : Unit 1 Ch 1, Unit 2 Ch 1, Ch 2

Half Yearly Exams : 14.09.2020 to 25.09.2020

Topic : Unit-1 Ch-1 Introduction to Media,

Unit-2 Ch-1 Understanding

Cinema,

Ch-2 Understanding Cinema 2

Unit-3 Ch-2 Analysis of Films,

Unit-2 Ch-3 Understanding TV.

Unit-3 Ch-3 Analysis of TV

Program

Employability Skills

Unit-1 Communication Skills-III

Unit-2 Self-management Skills-III

Unit-3 Information &

Communication Technology-III

Periodic Asst.-2 12.10.2020 to 07.12.2020

Topic : Unit 2 Ch 3 ,4, 5

Periodic Asst.-3 14.12.2020 to 25.01.2021

Topic : Unit 3 Ch 1, Unit 4 Ch 1

Annual Exams : 01.02.2021 onwards (Tenta.)

Topic : Full Syllabus

MUSIC-VOCAL

Reference books :

1. Raga Parichya-Part 1
Writer : Prof. Harishchander Srivastva,
Pub.: Sangeet Sadan Prakashan, Allahabad
2. Madhur Swarlipi Sangraha-Part-1
Editor : Prof. Harishchander Srivastva,
Pub.: Sangeet Sadan Prakashan, Allahabad
3. Sangeet Visharad

Unit 1 13.04.2020 to 01.05.2020 (15)

Activity : Raga Bihag & Definitions-Sangeet, Dhvani, Nada, Shruti, Swara

Unit 2 04.05.2020 to 15.05.2020 (09)

Activity : Raag Bandish & Thekas of - Teentala & Ektala

Unit 3 15.06.2020 to 26.06.2020 (10)

Activity : Short life sketch of Tansen & Pt. V.N. Bhattachande

Unit 4 29.06.2020 to 10.07.2020 (11)

Activity : One Devotional song & Raga Bhimpalasi

Unit 5 13.07.2020 to 24.07.2020 (10)

Activity : Bries history of Khayal & Dhrupad

Unit 6 27.07.2020 to 07.08.2020 (09)

Activity : Swarmalika, One Drut Khyal & Folk song, devotional

Unit 7 10.08.2020 to 21.08.2020 (09)

Activity : Definitions : Saptak, That, Jati Raga & Raga Bhairavi

Unit 8 24.08.2020 to 11.09.2020 (15)

Activity : Swarmalika & One Drut Khyal

Unit 9 28.09.2020 to 16.10.2020 (15)

Activity : Thekas of Taal Dadra, Keharwa & Chautal, Sultala

Unit 10 19.10.2020 to 21.11.2020 (17)

Activity : Short life sketch of Pt. Vishnu Digambar Paluskar & Natya Shastra

Unit 11 23.11.2020 to 05.12.2020 (10)

Activity : Definition of : Swarmalika, Tarana Nibaddha and Anibaddha gana & Brief history of Gharana

Unit 12 07.12.2020 to 24.12.2020 (12)

Activity : Raga - Jaunpuri, Bandish & Alap - Taan

Unit 13 04.01.2021 to 15.01.2021 (10)

Activity : Swarmalika & One Drut Khyal, Alap-Taan

Unit 14 & Rev. 18.01.2021 to 30.01.2021 (10)

Activity : Revision

EXAMINATION SCHEDULE :

Periodic Asst.-1 20.07.2020 to 24.08.2020

Activity : Unitss 1, 2, 3 & 4

Half Yearly Exams : 14.09.2020 to 25.09.2020

Activity : Units 1 to 8

Periodic Asst.-2 12.10.2020 to 07.12.2020

Activity : Units 5, 6, 7 & 8

Periodic Asst.-3 14.12.2020 to 25.01.2021

Activity : Units 9, 10, 11 & 12

Annual Exams : 01.02.2021 onwards (Tenta.)

Activity : Whole Syllabus

PHYSICAL EDUCATION

Precribed Book :

Unit 1 13.04.2020 to 01.05.2020 (15)

Activity : Changing trends and careers in physical education.

Unit 2 04.05.2020 to 15.05.2020 (09)

Activity : Olympic value education, physical fitness, wellness and lifestyle.

Unit 3 15.06.2020 to 26.06.2020 (10)

Activity : Physical education & sports for CWSN (Children with special needs).

Unit 4 29.06.2020 to 10.07.2020 (11)

Activity : Yoga.

Unit 5 13.07.2020 to 24.07.2020 (10)

Activity : Physical activities & Leadership training.

Unit 6 27.07.2020 to 07.08.2020 (09)

Activity : Test measurement & evaluation.

Unit 7 10.08.2020 to 21.08.2020 (09)

Activity : Fundamental of anatomy,

Activity : Physiology & Kinesiology in sport.

Unit 8 24.08.2020 to 11.09.2020 (15)

Activity : Psychology and sports.

Unit 9 28.09.2020 to 16.10.2020 (15)

Activity : Training and doping in sport.

Unit 10 19.10.2020 to 21.11.2020 (17)

Activity : Revision

Unit 11 23.11.2020 to 05.12.2020 (10)

Activity : Revision

Unit 12 07.12.2020 to 24.12.2020 (12)

Activity : Revision

Unit 13 04.01.2021 to 15.01.2021 (10)

Activity : Revision

Unit 14 & Rev. 18.01.2021 to 30.01.2021 (10)

Activity : Revision

RETAIL MANAGEMENT

Prescribed Book :

Retail management NCERT

Teaching Objectives :

The main objectives of this syllabus are to :

1. Retailing is leading business activities register a remarkable transformation.
2. Till a few years ago, we bought most of daily use products from small shops in our neighborhood or a close by market. Generally the shop keeps sit in the shop and sell goods either individual as a sole proprietor with help of few assistants.
3. In last few years, however, the concept of large departmental stores and malls has been introduced, which also provide the same products. The retail industry is divided into organised and unorganized sectors. Organised retailing refers to trading activities undertaken by licensed retailers, that is, those who are registered for sales tax, income tax, etc.
4. These include the corporate-backed hypermarkets and retail chains, and also the privately owned large retail businesses. Unorganized retailing, on the other hand, refers to the traditional formats of low-cost retailing, like, the local kirana shops, owner manned general stores, paan/beedi shops, convenience stores, hand cart and pavement vendors, etc
5. A retailer is one who stocks the manufactured goods and is involved in the act of selling to the final customer or consumer, at a margin of profit. Retailing is the last link that connecting the individual consumer with the manufacturing and distribution chain. It adds value in terms of bulk breaking and providing a wide variety of goods and services to customers as per their needs.

Unit 1 13.04.2020 to 01.05.2020 (15)

Topic : Ch-1 : Fundamentals of retailing

Learning Outcomes :

1. Basics of Retailing
 2. Sales Associate Services to Customers
- Art Integration : Flow chart explaining how retailing works

Unit 2 04.05.2020 to 15.05.2020 (09)

Topic : Fundamentals of retailing continue

Learning Outcomes :

1. Skills for Handling Retail Business.
2. Duties and Responsibilities of a Sales Associate

Unit 3 15.06.2020 to 26.06.2020 (10)

Topic : Ch-2 : Process of credit application

Learning Outcomes :

1. Features and Conditions for Credit Sales
2. Credit Checks and Getting Authorisation

Art Integration : Pamphlets

Unit 4 29.06.2020 to 10.07.2020 (11)

Topic : Process of credit application continue

Learning Outcomes :

3. Processing Credit Requisitions
4. Techniques for Determining Credit Worthiness

Unit 5 13.07.2020 to 24.07.2020 (10)

Topic : Ch-3 : Mechanism for Customers to Choose Right Products

Learning Outcomes : Methods of Selling

Art Integration : Project –choose right product

Unit 6 27.07.2020 to 07.08.2020 (09)

Topic : Ch-3 : Mechanism for Customers to Choose Right Products continue

Learning Outcomes : Sales Promotional Activities

Unit 7 10.08.2020 to 21.08.2020 (09)

Topic : Ch-3 : Mechanism for Customers

to Choose Right Products continue

Learning Outcomes : Responding to Questions and Comments

Unit 8 24.08.2020 to 11.09.2020 (15)

Topic : Ch-3 : Mechanism for Customers to Choose Right Products

continue and Revision

Learning Outcomes : Techniques of Closing a Sale

Unit 9 28.09.2020 to 16.10.2020 (15)

Topic : Ch-4 : Specialist Support to Customers

Learning Outcomes :

1. Providing Product Information
2. Techniques to Encourage Customers to Buy Products

Art Integration : Pamphlets

Unit 10 19.10.2020 to 21.11.2020 (17)

Topic : Ch-4 : Specialist Support to Customers continue

Learning Outcomes :

Provide Personalised Service

4. Post-sales Service Support

Unit 11 23.11.2020 to 05.12.2020 (10)

Topic : Ch-5 : Health and Safety Management

Learning Outcomes :

1. Health and Safety Requirements
2. Equipments and Materials

Unit 12 07.12.2020 to 24.12.2020 (12)

Topic : Ch-5 : Health and Safety Management continue

Learning Outcomes : Dealing with Accidents and Emergencies

Art Integration : Project on health and safety

Unit 13 04.01.2021 to 15.01.2021 (10)

Topic : Ch-5 : Health and Safety

Management continue

Learning Outcomes : Reporting Accidents and Emergencies

Unit 14 & Rev. 18.01.2021 to 30.01.2021 (10)

Topic : Revision

EXAMINATION SCHEDULE :**Periodic Asst.-1 20.07.2020 to 24.08.2020**

Topic : Ch-1

Half Yearly Exams : 14.09.2020 to 25.09.2020

Topic : Ch-1 to Ch-3

Periodic Asst.-2 12.10.2020 to 07.12.2020

Topic : Ch-4

Periodic Asst.-3 14.12.2020 to 25.01.2021

Topic : Ch-5

Annual Exams : 01.02.2021 onwards (Tenta.)

Topic : Ch-1 to Ch-5

FINANCIAL MARKETS MANAGEMENT

Prescribed Book :**Financial Markets Management****Teaching Objectives :**

The main objectives of this syllabus are to :

1. To develop financial skills
2. To build foundation for money management and equity market
3. To develop basic understanding of mutual funds, capital and derivative market
4. To build speed and accuracy for financial market operations
5. To develop business acumen and entrepreneurial skills for financial markets
6. To gain knowledge of green skills for environment protection

7. To develop computer skills required for financial market.
 8. To learn oral and written communication skills to deal with clients
 9. To understand regulatory requirements while working in financial markets

Unit 1 13.04.2020 to 01.05.2020 (15)

Chapter-1 : Markets and Financial Instruments
 Employability Skills : Ch-1 Communication Skills
 Learning Outcomes :

- a. Causes of investment
 b. Tools of investment

Unit 2 04.05.2020 to 15.05.2020 (09)

Chapter-1 : Markets and Financial Instruments
 Employability Skills : Ch-1 Communication Skills
 Learning Outcomes :

- a. Define Stock Exchanges
 b. Find the depositories of the country

Art Integration : Project - Investment

NLT Software

Unit 3 15.06.2020 to 26.06.2020 (10)

Chapter-2 : Primary and Secondary Market
 Employability Skills : Ch-2 Self-management Skills-I

Learning Outcomes :

- a. Who can bring new issue
 b. Need for issue
 c. Market Capitalisation
 d. Public vs Private Placement

Art Integration : Project - NSE

NLT Software

Unit 4 29.06.2020 to 10.07.2020 (11)

Chapter-2 : Primary and Secondary Market
 Employability Skills : Ch-2 Self-management Skills-I

Learning Outcomes :

- a. Difference between Primary Market and Secondary Market

- b. Identify Demutualise stock exchanges in India
 Art Integration : Project –Securities Market
 NLT Software

Unit 5 13.07.2020 to 24.07.2020 (10)

Chapter-3 : Financial Statement Analysis
 Employability Skills : Ch-3 Information and Communication Technology Skills

Learning Outcomes :

- c. Process of SBTS
 d. Direct market access

Art Integration : Project -GST

NLT Software

Unit 6 27.07.2020 to 07.08.2020 (09)

Chapter-4 : Mutual Funds Products and Features

Employability Skills : Ch-3 Information and Communication Technology Skills

Learning Outcomes :

- g. Define MF
 h. Benefits of MF
 i. How to calculate NAV
 j. Procedure of NFO

Art Integration : Project - Derivatives

NLT Software

Unit 7 10.08.2020 to 21.08.2020 (09)

Chapter-4 : Mutual Funds Products and Features

Employability Skills : Ch-4 Entrepreneurial Skills

Art Integration : Project – Nifty 50

Unit 8 24.08.2020 to 11.09.2020 (15)

Chapter-4 : Mutual Funds Products and Features

Employability Skills : Ch-4 Entrepreneurial Skills

Learning Outcomes :

- e. Find the Derivatives Instruments
 f. Difference between Future & Options
 g. Identify the features of Commodity Derivatives

- h. Difference between Commodity Derivatives & Financial Derivatives

Art Integration : NLT Software

Unit 9 28.09.2020 to 16.10.2020 (15)

Chapter-4 : Mutual Funds Products and Features

Employability Skills : Ch-4 Entrepreneurial Skills

Learning Outcomes :

- a. Distinguish between Cash benefits & Stock benefits
 b. Tools of Corporate Actions
 c. Describe Nifty / Sensex
 d. How Nifty calculate Δ

Art Integration : Project – Mutual Funds

NLT Software

Unit 10 19.10.2020 to 21.11.2020 (17)

Chapter-4 : Mutual Funds Products and Features

Employability Skills : Ch-4 Entrepreneurial Skills

Learning Outcomes :

- a. Simple Interest
 b. Compound Interest
 c. Effective Annual Return
 d. Learning Accounting terms and technologies

Art Integration : NLT Software

Unit 11 23.11.2020 to 05.12.2020 (10)

Chapter-5 : ETFs, Debt and Liquid Funds

Employability Skills : Ch-5 Green Skills

Learning Outcomes : Liquidity Ratios

Art Integration : Project – ETF

NLT Software

Unit 12 07.12.2020 to 24.12.2020 (12)

Chapter-6 : Taxation and Regulation

Learning Outcomes : Capital Ratios

Art Integration : NLT Software

Unit 13 04.01.2021 to 15.01.2021 (10)

Chapter-6 : Taxation and Regulation

Learning Outcomes : Profitability Ratios

Art Integration : NLT Software,

Unit 14 & Rev. 18.01.2021 to 30.01.2021 (10)

Topic : Revision

Art Integration : NLT Software

EXAMINATION SCHEDULE :

Periodic Asst.-1 20.07.2020 to 24.08.2020

Topic : Ch-1

Half Yearly Exams : 14.09.2020 to 25.09.2020

Topic : Ch-1 to Ch-3

Periodic Asst.-2 12.10.2020 to 07.12.2020

Topic : Ch-4

Periodic Asst.-3 14.12.2020 to 25.01.2021

Topic : Ch-5

Annual Exams : 01.02.2021 onwards (Tenta.)

Topic : Ch-1 to Ch-6

HOME SCIENCE

Prescribed Book :

Objectives :

- ◆ Home Science as a discipline aims to empower learners by developing understanding of five different areas namely: Food and Nutrition. Human Development, Childhood Studies. Resource Management.
- ◆ To acquire knowledge, conceptual understanding and skills to solve problems and make informed decisions in domestic contexts
- ◆ To think analytically, critically and creatively to solve problems, judge arguments and make decisions in scientific and other contexts
- ◆ To demonstrate attitudes and develop values of honesty and respect for themselves, others, and their shared environment.

◆ To deals with reciprocal relations between the family and its natural and man-made environments.

◆ To aims at getting maximum satisfaction for the person and their family members through the efficient and scientific use of your resources.

Unit 1 13.04.2020 to 01.05.2020 (15)

Topic : Ch-1 Understanding oneself:
Ch-2 Understanding the self

Learning outcomes : Acquaint learners with the basics of human development with specific reference to self

Art integration : Poster Making

Unit 2 04.05.2020 to 15.05.2020 (09)

Topic : Ch-3 Food, nutrition, health and fitness

Learning outcomes : Impart knowledge of nutrition and lifestyles to enable prevention and management of diseases.

- Inculcate healthy food habits.

Art integration : Culinary skills

Unit 3 15.06.2020 to 26.06.2020 (10)

Topic : Ch-4 Management of resources

Learning outcomes : Help to develop skills of judicious management of various resources.

Art integration : Flow Chart

Unit 4 29.06.2020 to 10.07.2020 (11)

Topic : Ch-5 Fabric around US

Learning outcomes : Help to develop an understanding of textiles for selection and care of clothes.

Art integration : Make samples of basic stitches and embroidery

Unit 5 13.07.2020 to 24.07.2020 (10)

Topic : Ch-6 Media and communication technology

Learning outcomes : Develop skills of communication to assist in advocacy and dissemination of knowledge to the community.

Art integration : Pamphlet

Unit 6 27.07.2020 to 07.08.2020 (09)

Topic : Ch-7 Relationships and interactions with significant others?

Learning outcomes : To develop healthy relation with Family, School – peers and educators
Community and Society

Art integration : Skit

Unit 7 10.08.2020 to 21.08.2020 (09)

Topic : Ch-8 Concerns and needs in diverse contexts

Learning outcomes :

To know the value of Time Management and Space Management.

Art integration : Mind map

Unit 8 24.08.2020 to 11.09.2020 (15)

Topic : Ch-9 Survival, Growth, and Development

Learning outcomes : students will be able to understand different phases of development.

Art integration : Collage on different phases of growth and development

Unit 9 28.09.2020 to 16.10.2020 (15)

Topic : Ch-10 Nutrition, Health, and Wellbeing
Ch-11 Care and Education

Learning outcomes : To understand Health & nutrition issues of school-age children.

Art integration : Culinary skills

Unit 10 19.10.2020 to 21.11.2020 (17)

Topic : Ch-12 Our Apparel-

Learning outcomes : Understanding children

basic clothing needs, Clothing requirements at different childhood stages, Clothing for children with special needs.

Art integration : Diagram of clothing sample for children

Unit 11 23.11.2020 to 05.12.2020 (10)

Topic : Ch-13 Health and Wellness

Learning outcomes : Impart knowledge about Dimensions of wellness, Stress and coping with stress.

Art integration : Flow Chart

Unit 12 07.12.2020 to 24.12.2020 (12)

Topic : Ch-14 Financial Management and Planning

Learning outcomes : Classifies different sources of family income and importance of saving and investment.

Art integration : Mind map of different investment plans

Unit 13 04.01.2021 to 15.01.2021 (10)

Topic : Ch-15 Care and Maintenance of Fabrics

Learning outcomes : To understand the factors that affect selections of clothes and their care.

Art integration : Flow CHART

Unit 14 & Rev. 18.01.2021 to 30.01.2021 (10)

Topic : Revision

EXAMINATION SCHEDULE :

Periodic Asst.-1 20.07.2020 to 24.08.2020

Topic : Ch-2 to 5

Half Yearly Exams : 14.09.2020 to 25.09.2020

Topic : Ch-1 to 14

Periodic Asst.-2 12.10.2020 to 07.12.2020

Topic : Ch-15, 16

Periodic Asst.-3 14.12.2020 to 25.01.2021

Topic : Ch-20 & 21

Annual Exams : 01.02.2021 onwards (Tenta.)

Topic : Entire syllabus

SOCIAL EMPOWERMENT THROUGH WORK EDUCATION AND ACTION

Objectives :

- ❖ To foster strong mental and social health.
- ❖ To connect children with their peers, their elders, the community, the environment, etc.
- ❖ To direct children's mind in constructive activities with positive outcomes through the facilitation of creative and critical thinking.
- ❖ To develop self-confidence and self-esteem.
- ❖ To underline the significance of the interdependence of all human beings and our dependence on the environment in this shrinking global village.

"THEME : SUBSTANCE ABUSE"

Unit 1 01.04.19 to 12.04.19 (11)

Topic : Introduction to SEWA project

Unit 2 15.04.2019 to 26.04.2019 (09)

Topic : Research work on substance abuse

Unit 3 29.04.2019 to 17.05.2019 (15)

Topic : Introduction to Reflection Writing and Reflective Musings

Unit 4 28.06.2019 to 12.07.2019 (13)

Topic : Poster making

Unit 5 15.07.2019 to 26.07.2019 (10)

Topic : Reflection Writing and Reflective Musings

Unit 6 29.07.2019 to 09.08.2019 (11)

Topic : Skit-Intersection competition

Unit 7 13.08.2019 to 31.08.2019 (15)

Topic : Reflection Writing and Class Discussion

Unit 8 02.09.2019 to 13.09.2019 (09)

Topic : Preparation of Aids to spread

awareness on substance abuse (Walk)

Unit 9 30.09.2019 to 18.10.2019 (12)

Topic : Walk for a cause in the nearby areas

Reflection Writing and Reflective Musing

Unit 10 21.10.2019 to 16.11.2019 (16)

Topic : Assembly Talk

Unit 11 18.11.2019 to 30.11.2019 (11)

Topic : Reflection Writing and Class Discussion

Unit 12 02.12.2019 to 13.12.2019 (10)

Topic : Visit to the Rehabilitation centre

Unit 13 & Rev. 16.12.2019 to 27.12.2019 (09)

Topic : Reflection Writing and Class Discussion

Unit 14 & Rev. 06.01.2020 to 24.01.2020 (15)

Topic : Completion of the portfolio

Unit 15 & Rev. 27.01.2020 to 31.01.2020 (05)

Topic : Completion of the portfolio