

ANNUAL **CURRICULUM** **PLAN**

CLASS XI ARTS
(SESSION: 2020-21)



RAMAKRISHNA MISSION ASHRAMA SCHOOL

AFFILIATED TO CENTRAL BOARD OF SECONDARY EDUCATION (CBSE), NEW DELHI

(A branch centre of Ramakrishna Mission, Belur Math, Howrah, W.B.)

Affiliation No: 1530142, School Code: 15442

P.O. : Hatamuniguda, Dist. : Rayagada-765 020, Odisha

Email : hatamuniguda@rkmm.org, Website : rkmmhatamuniguda.org

CALENDER FOR THE SESSION-2020-21

APRIL-2020

01st : New session Commences. Admission procedure for class V.

MAY-2020

01st : Summer Vacation for students starts. (Students may leave the campus on 30th April after 5p.m.)

10th : Summer Vacation for Teachers starts. (Teachers may leave the campus on 9th after 4 p.m.)

JUNE-2020

14th : Teachers to report after summer Vacation by 9 a.m.

15th : Students to report at the Hostel after Summer Vacation from 8 am to 8 pm

16th : School re-opens after Summer Vacation. Admission procedure for class XI.

21st : International Yoga Day

22nd : New session for standard XI commences

28th : Naveen Varan Utsav

JULY-2020

5th : Van Mahotsava

13th-18th : First Periodic Test. (Class VI to X)

AUGUST-2020

15th : Independence Day celebration.

22nd : Ganesh Puja celebration.

24th-29th : Second Periodic Test. (Class VI to X)

SEPTEMBER-2020

05th : Teacher's Day Celebration.

16th-30th : Term-I examination for V to XII.

OCTOBER-2020

02nd : Gandhi Jayanti Celebration in the evening

18th-01st : Autumn Vacation commences. Students and Teachers may leave the campus on 17th October after 4p.m.

NOVEMBER-2020

01st : Students & Teachers to report after Autumn Vacation.

02nd : School re-opens after Autumn Vacation

05th : Result Publication of Mid-Term Examination.

09th-13th : 3rd Periodic Test. (Class VI to X)

14th : Children's Day Celebration from 9.30 am to 12.00 noon at Junior Hostel

14th : Diwali Celebration in the evening.

23rd-28th : First Mock Test for class X and XII.

DECEMBER-2020

14th-19th : Second Mock Test for class X and XII.

21st-23rd : Annual Athletic Meet.

25th : Winter Vacation commences. Teachers and Students may leave school campus on 24th after 5p.m.

JANUARY-2021

03rd : Students and Teachers to report after the Winter Vacation.

04th : School reopens after Winter Vacation.

05th : Sri Sri Maa Sarada Devi's Tithi Puja.

12th : National Youth Day celebration.

13th-19th : 4th Periodic Test. (Class VI to IX)

26th : Republic Day Celebration.

FEBRUARY-2021

04th : Sri Sri Swamiji's Tithi Puja.

7th : Annual Prize Giving ceremony

08th-14th : Third Mock Test for class X and XII.

16th : Saraswati Puja Celebration.

MARCH-2021

11th : Mahashivratri celebration.

10th-22nd : Term-II Examination.

15th : Sri Sri Ramakrishna Deva's Tithi Puja.

29th : Holi celebration.

30th : Result Publication.

The end of all education, all training should be man-making. The end and aim of all training is to make man grow. The training, by which the current and expression of will are brought under control and become fruitful, is called education. –

Swami Vivekananda



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Co – Curricular Activities Calendar for the Session 2020 - 21

JULY-2020

05/07/20 – Odia Recitation Sr. (IX – XII)

12/07/20 – Odia Recitation Jr. (V – VIII)

19/07/20 – Hindi Recitation Sr. (IX – XII)

26/07/20 – Hindi Recitation Jr. (V – VIII)

AUGUST-2020

02/08/20 – English Debate Sr. (IX – XII)

09/08/20 – English Debate Jr. (V – VIII)

16/08/19 – Odia Debate Sr. (IX – XII)

23/08/19 – Odia Debate Jr. (V – VIII)

30/08/20 – Hindi Debate Sr. (IX – XII)

SEPTEMBER-2020

06/09/20 – Hindi Debate Jr. (V – VIII)

13/09/20 – Story Telling Sr. (IX to XII)

OCTOBER-2020

04/10/20 – Story Telling Jr. (V to VIII)

11/10/20 – English Recitation Sr. (IX to XII)

NOVEMBER-2020

08/11/20 – English Recitation Jr. (V to VIII)

15/11/20 – Devotional Song Sr. (IX to XII)

22/11/20 – Devotional Song Jr. (V to VII)

TERM SCHEDULE



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First Periodic Test : 13 to 18 July, 2020

Sl No.	Date	V	VI	VII	VIII	IX	X	XI	XII
1	13/07/2020	Eng	Maths	Science	SST	Eng	SST	Eng	Phy/Geo
2	14/07/2020	Hindi	Odia	Eng	Hindi	SST	Eng	Chem/ Pol.Sc	Math/Bio/ IP
3	15/07/2020	Odia	Eng	Odia	Maths	Science	Maths	Com.Sc/ Phy.Ed	Chem/ Pol.Sc
4	16/07/2020	Maths	Comp & Science	Comp & Hindi	Comp & Eng	IT	IT	-----	-----
5	17/07/2020	EVS	Hindi	SST	Science	Odia/ Hindi	Odia/ Hindi	Math/Bio/ IP	Eng
6	18/07/2020		SST	Maths	Odia	Maths	Science	Phy/Geo	Com.Sc/ Phy.Ed

Note:

1. Respective subject teacher to take periodic test of 10 marks in their periods.

Second Periodic Test : 24 to 29 August, 2020

Sl No.	Date	V	VI	VII	VIII	IX	X	XI	XII
1	24/08/2020	Odia	Science	Maths	Odia	SST	Eng	Phy/Geo	Eng
2	25/08/2020	EVS	Eng	Odia	Science	Eng	SST	Math/Bio/ IP	Chem/ Pol.Sc
3	26/08/2020	Hindi	Odia	Eng	Comp & Eng	Maths	Science	Chem/ Pol.Sc	Com.Sc/ Phy.Ed
4	27/08/2020	Maths	Comp & Hindi	Comp & Science	Maths	IT	IT	-----	-----
5	28/08/2020	Eng	SST	Hindi	Hindi	Odia/ Hindi	Odia/ Hindi	Eng	Math/Bio/ IP
6	29/08/2020		Maths	SST	SST	Science	Maths	Com.Sc/ Phy.Ed	Phy/Geo

Note:

Respective subject teacher to take periodic test of 10 marks in their periods

Examination Date-Sheet for Term – I, Exam 2020-21 :
16 to 30 September, 2020

Sl No.	Date	V	VI	VII	VIII	IX	X	XI	XII
1	16/09/2020	Odia	Maths	Science	SST	Eng	SST	Eng	Phy/Geo
2	18/09/2020	EVS	Odia	Eng	Hindi	SST	Eng	Chem/ Pol.Sc	Math/Bio/ IP
3	21/09/2020	----	Eng	Odia	Maths	Science	-----	Com.Sc/ Phy.Ed	Chem/ Pol.Sc
4	23/09/2020	Maths	Comp	Comp	Comp	IT	IT	-----	-----
5	25/09/2020	Eng	Hindi	SST	Science	Odia/ Hindi	Hindi/ Odia	Math/Bio/ IP	Eng
6	28/09/2020	Hindi	SST	Maths	Odia	Maths	Science	Phy/Geo	Com.Sc/ Phy.Ed
7	30/09/2020	----	Science	Hindi	Eng	-----	Maths	-----	-----

Timing of Examination

Classes V to XII – 09:00 AM to 12:00 NOON

Venue of Examination

Classes V to XII – RKM Ashrama School, Hatamuniguda

Third Periodic Test : 09 to 13 November, 2020

Sl No.	Date	V	VI	VII	VIII	IX	X	XI	XII
1	09/11/2020	Odia	Maths	Science	Eng	Eng	SST	Eng	Phy/Geo
2	10/11/2020	EVS	Science	Eng	Odia & Hindi	SST	Eng 5	Chem/ Pol.Sc	Math/Bio/ IP
3	11/11/2020	Hindi	Eng	Odia & Hindi	Maths	Science	Odia / Hindi	Com.Sc/ Phy.Ed	Chem/ Pol.Sc
4	12/11/2020	Maths	Comp & SST	Comp & SST	Comp & SST	IT & Maths	IT & Sciences	Phy/Geo	Com.Sc/ Phy.Ed
5	13/11/2020	Eng	Hindi & Odia	Maths	Science	Odia / Hindi	Maths	Math/Bio/ IP	Eng

Note:

1. Respective subject teacher to take periodic test of 10 marks in their periods.

Fourth Periodic Test : 13 to 19 January, 2021

Sl No.	Date	V	VI	VII	VIII	IX	XI
1	13/01/21	Odia	Science	Maths	Odia	SST	Phy/Geo
2	14/01/21	EVS	Eng	Odia	Science	Eng	Math/Bio/IP
3	15/01/21	Hindi	Odia	Eng	Comp & Eng	Maths	Chem/Pol.Sc
4	16/01/21	Maths	Comp & Hindi	Comp & Science	Maths	IT	-----
5	18/01/21	Eng	SST	Hindi	Hindi	Odia/Hindi	Eng
6	19/01/21	-----	Maths	SST	SST	Science	Com.Sc/Phy.Ed

Note:

1. Respective subject teacher to take periodic test of 10 marks in their periods.

Examination Date-Sheet for Term – II, Exam 2020-21 :
10 to 22 March, 2021

Sl No.	Date	V	VI	VII	VIII	IX	XI
1	10/03/2021	Odia	Science	Math	English	Social Science	Math/Bio/IP
2	12/03/2021	EVS	English	Social Science	Social Science	English	Eng.
3	15/03/2021	----	Com. Science	Odia	Hindi	Hindi/Odia	Phy. Ed
4	17/03/2021	Math	Odia	English	Com. Science	Math ₆	Chem/Pol. Sc.
5	19/03/2021	Hindi	Math	Science	Science	Inform. Techno.	Physics
6	20/03/2021	Eng.	Social Science	Hindi	Math	Science	Com. Sc./Geo
7	22/03/2021	----	Hindi	Com. Science	Odia	-----	-----

Timing of Examination

Classes V to IX & XI – 09:00 AM to 12:00 NOON

Venue of Examination

Classes V to IX & XI – RKM Ashrama School, Hatamuniguda

**Curriculum Plan of English Core
(Session: 2020-2021)**

Month Topic	Theme/Audio Visual Inputs	Assignment /Discussion	Listening, Speaking, Reading and Writing Skills	Core Skills/Art Integration/ Interdisciplinary Linkages
May Topic: The Portrait of a Lady No. of Periods: 06	Understanding the Genre Literary appreciation Central Idea Plot, Protagonists, Characters	<ul style="list-style-type: none"> • Assignment on The Portrait of a Lady (Different meanings of words in different contexts, synonyms, Past perfect tense) • Discussion of Scoring Points/ Marking Scheme/Sample Questions 	Short review/ dramatization of the story	Selflessness, Kindness, Respect & Acceptance.
Topic: A Photograph No. of Periods: 05	Poetic Appreciation Rhyme Scheme Poetic Devices Central Idea	<ul style="list-style-type: none"> • Assignment on: A Photograph • Discussion of Scoring Points/ Marking Scheme/Sample Questions 	Critical evaluation of the theme conveyed by the poet	Transience of human life, death, and mysteries surrounding them.
Topic: The Summer of the Beautiful White Horse No. of Periods: 06	Understanding the Genre Literary appreciation Central Idea Plot, Protagonists, Characters	<ul style="list-style-type: none"> • Assignment on The Summer of the Beautiful White Horse • Discussion of Scoring Points/ Marking Scheme/Sample Questions 	Extrapolating the story read or life of characters after the story ends/ defending the characters' actions in the story	Truthfulness, Pure Conscience & Integrity.
June				
Topic: We're Not Afraid to Die...If We Can All Be Together No. of Periods: 06	Understanding the Genre Literary appreciation Central Idea Plot, Protagonists, Characters	<ul style="list-style-type: none"> • Assignment on We're Not Afraid to Die...If we Can All Be Together (Synonyms, Terms, Compound words, Phrasal verbs, Identification of parts of a Yacht) • Discussion of Scoring Points/ Marking Scheme/Sample Questions 	Comparing and contrasting the characters within the story and with other characters in stories by the same author or by the other authors	Virtue of courage, optimism & togetherness in the face of adversity.
Topic: The Laburnum Top No. of Periods: 06	Poetic Appreciation Rhyme Scheme Poetic Devices Central Idea	<ul style="list-style-type: none"> • Assignment on The Laburnum Top • Discussion of Scoring Points/ Marking Scheme/Sample Questions 	Commentary on the central idea conveyed through the poem	Challenges of life.

Month Topic	Theme/Audio Visual Inputs	Assignment /Discussion	Listening, Speaking, Reading and Writing Skills	Core Skills/Art Integration/ Interdisciplinary Linkages
Topic: The Address No. of Periods: 06	Understanding the Genre Literary appreciation Central Idea Plot, Protagonists, Characters	<ul style="list-style-type: none"> • Assignment on The Address • Discussion of Scoring Points/ Marking Scheme/Sample Questions 	Silent reading of prescribed/ selected texts for comprehension	Destruction, pain & loss of lives caused by War.
Topic: Writing Section No. of Periods: 04	Notice Writing, Formal Letter – Letter to the Editor	<ul style="list-style-type: none"> • Assignment on Notice & Letter • Discussion of Scoring Points/ Marking Scheme/Sample Questions 	Write notices & letters for school events/processes to develop writing skills.	Art of writing & clarity of thoughts.
July Topic: Discovering Tut: the Saga Continues No. of Periods: 06	Understanding the Genre Literary appreciation Central Idea Plot, Protagonists, Characters	<ul style="list-style-type: none"> • Assignment on Discovering Tut: the Saga Continues • Discussion of Scoring Points/ Marking Scheme/Sample Questions 	Language learning activities such as role-play, dramatization, group discussion, writing, etc.	Mystery surrounding the life and death of Egyptian ruler Tutankhamun.
Topic: The Voice of the Rain No. of Periods: 06	Poetic Appreciation Rhyme Scheme Poetic Devices Central Idea	<ul style="list-style-type: none"> • Assignment on The Voice of the Rain • Discussion of Scoring Points/ Marking Scheme/Sample Questions 	Silent reading of prescribed/ selected texts for comprehension	Rain and its natural-cycle for the benefit of earth and the life it supports
Topic: Albert Einstein at School No. of Periods: 06	Understanding the Genre Literary appreciation Central Idea Plot, Protagonists, Characters	<ul style="list-style-type: none"> • Assignment on Albert Einstein at School • Discussion of Scoring Points/ Marking Scheme/Sample Questions 	Encouraging students to role- play as various characters to interact with one another	Unconventional education system.
Topic: Writing Section No. of Periods: 03	Article Writing	<ul style="list-style-type: none"> • Assignment on Article • Discussion of Scoring Points/ Marking Scheme/Sample Questions 	Express opinions, facts & arguments	Art of writing & clarity of thoughts
		PERIODIC TEST - 1		
August Topic: Landscape of the Soul No. of Periods: 06	Understanding the Genre Literary appreciation Central Idea Plot, Protagonists, Characters	<ul style="list-style-type: none"> • Assignment on Landscape of the Soul • Discussion of Scoring Points/ Marking Scheme/Sample Questions 	Critical evaluation of the plot, storyline and characters	Study of European and Chinese paintings & subtleties of reality and art.
Topic: Childhood No. of Periods: 06	Poetic Appreciation Rhyme Scheme Poetic Devices Central Idea	<ul style="list-style-type: none"> • Assignment on Childhood • Discussion of Scoring Points/ Marking Scheme/Sample Questions 	Appreciating the idea conveyed through the poem.	Innocence of Childhood and rationality & hypocrisy of adulthood.

Month Topic	Theme/Audio Visual Inputs	Assignment /Discussion	Listening, Speaking, Reading and Writing Skills	Core Skills/Art Integration/ Interdisciplinary Linkages
Topic: Ranga's Marriage No. of Periods: 06	Understanding the Genre Literary appreciation Central Idea Plot, Protagonists, Characters	<ul style="list-style-type: none"> • Assignment on Ranga's Marriage • Discussion of Scoring Points/Marking Scheme/Sample Questions 	Group and pair activities like group discussion etc.	Conflict between tradition & modernity.
Topic: Writing Section No. of Periods: 03	Advertisements, Debate Writing	<ul style="list-style-type: none"> • Assignment on Debate • Discussion of Scoring Points/Marking Scheme/Sample Questions 	Express opinions, facts, arguments in the form of a debate	Art of writing & clarity of thoughts
Topic: Reading Section No. of Periods: 02	Unseen Passage (Note Making)	<ul style="list-style-type: none"> • Assignment on Reading Comprehension • Discussion of Scoring Points/ Marking Scheme/Sample Questions 	Reading of prescribed/selected text for comprehension	Skill of Reading & Comprehension
September				
Topic: The Ailing Planet - The Green Movement's Role No. of Periods: 06	Understanding the Genre Literary appreciation Central Idea Plot, Protagonists, Characters	<ul style="list-style-type: none"> • Assignment on The Ailing Planet- The Green Movement's Role • Discussion of Scoring Points/ Marking Scheme/Sample Questions 	Role playing as authors/ poets/ dramatists to defend their works and characters	Man's greed & exploitation of earth's resources.
Topic: Mother's Day No. of Periods: 06	Poetic Appreciation Rhyme Scheme Poetic Devices Central Idea	<ul style="list-style-type: none"> • Assignment on Mother's Day • Discussion of Scoring Points/Marking Scheme/Sample Questions 	General discussion of the theme conveyed by the poet	Status of women in a household and her love, devotion & sincerity towards the members of her family.
	TERM- I EXAMINATION AND ASL			
October Topic: The Browning Version No. of Periods: 06	Understanding the Genre Literary appreciation Central Idea Plot, Protagonists, Characters	<ul style="list-style-type: none"> • Assignment on The Browning Version • Discussion of Scoring Points/Marking Scheme/Sample Questions 	Dramatizing incidents from the story	National identity of a person.
Topic: Writing Section No. of Periods: 02	Speech Writing	<ul style="list-style-type: none"> • Assignment on Speech • Discussion of Scoring Points/Marking Scheme/Sample Questions 	Develop writing skills & creativity in students.	Art of writing & clarity of thoughts

Month Topic	Theme/Audio Visual Inputs	Assignment /Discussion	Listening, Speaking, Reading and Writing Skills	Core Skills/Art Integration/ Interdisciplinary Linkages
Topic: Reading Section No. of Periods: 02	Unseen Passage (Note Making)	<ul style="list-style-type: none"> • Assignment on Reading Comprehension • Discussion of Scoring Points/Marking Scheme/Sample Questions 	Reading of prescribed/ selected text for comprehension	Skill of Reading & Comprehension
November Topic: The Adventure No. of Periods: 06	Understanding the Genre Literary appreciation Central Idea Plot, Protagonists, Characters	<ul style="list-style-type: none"> • Assignment on The Adventure • Discussion of Scoring Points/Marking Scheme/Sample Questions 	Critical evaluation of the plot, storyline and characters	History of British India.
Topic: Father to Son No. of Periods: 06	Poetic Appreciation Rhyme Scheme Poetic Devices Central Idea	<ul style="list-style-type: none"> • Assignment on Father to Son • Discussion of Scoring Points/Marking Scheme/Sample Questions 	Extrapolating the theme conveyed by the poet	Generation gap and lack of communication
Topic: Birth No. of Periods: 06	Understanding the Genre Literary appreciation Central Idea Plot, Protagonists, Characters	<ul style="list-style-type: none"> • Assignment on Birth • Discussion of Scoring Points/Marking Scheme/Sample Questions 	Making an audio story out of the text to be read aloud	Significance of Call of Duty in one's life.
Topic: Writing Section No. of Periods: 02	Report Writing	<ul style="list-style-type: none"> • Assignment on Report • Discussion of Scoring Points/Marking Scheme/Sample Questions 	Express opinions, facts, arguments in the form of a report	Art of writing & clarity of thoughts
		PERIODIC TEST – 2		
December Topic: Silk Road No. of Periods: 06	Understanding the Genre Literary appreciation Central Idea Plot, Protagonists, Characters	<ul style="list-style-type: none"> • Assignment on Silk Road • Discussion of Scoring Points/Marking Scheme/Sample Questions 	Short review/ dramatization of the story	Ancient trade routes
Topic: The Tale of Melon City No. of Periods: 06	Understanding the Genre Literary appreciation Central Idea Plot, Protagonists, Characters	<ul style="list-style-type: none"> • Assignment on The Tale of Melon City • Discussion of Scoring Points/Marking Scheme/Sample Questions 	Critical evaluation of the theme conveyed by the poet	Ancient system of Kingdom rule.

Month Topic	Theme/Audio Visual Inputs	Assignment /Discussion	Listening, Speaking, Reading and Writing Skills	Core Skills/Art Integration/ Interdisciplinary Linkages
Topic: Ghat of the Only World No. of Periods: 06	Understanding the Genre Literary appreciation Central Idea Plot, Protagonists, Characters	<ul style="list-style-type: none"> • Assignment on Ghat of the Only World • Discussion of Scoring Points/Marking Scheme/Sample Questions 	Extrapolating the story read or life of characters after the story ends/ defending the characters' actions in the story	Friendship & Commitment
Topic: Writing Section No. of Periods: 02	Poster Making	<ul style="list-style-type: none"> • Assignment on Poster • Discussion of Scoring Points/Marking Scheme/Sample Questions 	Develop writing skills & creativity in students.	Art of writing & clarity of thoughts
Topic: Reading Section No. of Periods: 02	Unseen Passage (Note Making)	<ul style="list-style-type: none"> • Assignment on Reading Comprehension • Discussion of Scoring Points/Marking Scheme/Sample Questions 	Reading of prescribed/selected text for comprehension	Skill of Reading & Comprehension
January	REVISION & PRACTICE			
February	REVISION & PRACTICE			
March	TERM - II EXAMINATION AND ASL			

Curriculum Plan of Geography
(Session: 2020-21)

Month Topic	Sub Topic	Activities/ Audio Visual Inputs	Assignment / Discussion / Project	Learning Outcomes After the completion of this chapter, students will be able to-
May Topic: 1. India-Location 2. Structure & Physiography No. of Periods: 27	<ul style="list-style-type: none"> Location, size of India and its neighbors Peninsular block Major physiography division i) Himalayan mountain ii) Northam plain iii) Deccan Platteland iv) Desert v) coastal vi) Island 	Video on Location, size of India and its neighbors Make list of major Himalayan peak according to height	<ul style="list-style-type: none"> Assignment Map based actives Discussion of Scoring Points/ Marking Scheme/ Sample Questions Project <ul style="list-style-type: none"> Topic selection Draw different types of Indian physiographic map 	<ul style="list-style-type: none"> To learn about Indian's administrative boundary local time. To know about our geographical features in India.
June Topic: 3. Drainage System 4. Climate No. of periods: 28	<ul style="list-style-type: none"> Important drainage pattern. Drainage system of India i) Ganga, ii) Indus, iii) Brahmaputra Peninsular Drainage Usability of river water Unity & diversity in the monsoon Factor of climate in India Mechanism of Seasons Climate Region of India Monsoon related to economic life 	Video and chart on Drainage system of India i) Ganga, ii) Indus, iii) Brahmaputra Find out the catchment area of Himalayan river & peninsular river	<ul style="list-style-type: none"> Assignment <ul style="list-style-type: none"> Map on monsoon Discussion of Scoring Points/ Marking Scheme/ Sample Questions Project <ul style="list-style-type: none"> Make a bar diagram to show the length of the courses of the Indian river. 	<ul style="list-style-type: none"> To learn about our different drainage system Why river water important To know about season, monsoon Importance of monsoon Our climate region relation with economic life

Month Topic	Sub Topic	Activities/ Audio Visual Inputs	Assignment / Discussion / Project	Learning Outcomes After the completion of this chapter, students will be able to-
July Topic: 5. Natural Vegetation 6. Soil No. of periods: 27 1. Practical work Fundamental of Map	<ul style="list-style-type: none"> Type of forest- evergreen, Deciduous, Thorn, Montane Forest cover in India Conservation Wild life, Conservation Classification of soil Soil erosion, Degradation Conservation on Method Geo spatial data ,concept of geographical data matrix Scale-scale type, construction of simple linear scale, measuring distance Finding direction and use of symbol 	<ul style="list-style-type: none"> Video on Wild life, Conservation Soil erosion, Degradation Collect sample of various type of soil. 	<ul style="list-style-type: none"> Assignment reasons of soil erosion and method to conserve <ul style="list-style-type: none"> Discussion of Sample Questions Project Make a list of different kind of natural vegetation and wild life found around our school. 	<ul style="list-style-type: none"> To create the knowledge about vegetation. Importance of wildlife resource To understand the Relation of all compartment. To create practical base knowledge
	Periodic Test - 1			
August Topic: 7. Natural Hazard and disasters No. of periods: 26 Practical work Topographic Maps	<ul style="list-style-type: none"> What is Hazard disasters Classification of Natural disasters in India i) Earthquake ii) Tsunami, iii) Flood, iv) Drought Disaster management Study of topographic map(1:50000) Contour cross section and identification of landform, hill,, valley 	Video on Natural disasters in India	<ul style="list-style-type: none"> Assignment <ul style="list-style-type: none"> Safety measures during disaster Discussion of Scoring Points/ Marking Scheme/ Sample Questions Project <ul style="list-style-type: none"> Hazard map 	<ul style="list-style-type: none"> To understood about natural phenomena 1. To create practical base knowledge 2. To learn about different type of knowledge

Month Topic	Sub Topic	Activities/ Audio Visual Inputs	Assignment / Discussion / Project	Learning Outcomes After the completion of this chapter, students will be able to-
September Topic: Part II 1. Geography as discipline 2. evolution of the earth 3. Interior of the earth No. of Periods: 27	<ul style="list-style-type: none"> • Geography – Integrating discipline • Branches of Geography • Big- Bang Theory • Origin of the universe • Interior structure 	Video on Big-Bang Theory & Origin of the universe Video on interior structure of the earth	<ul style="list-style-type: none"> • Assignment <ul style="list-style-type: none"> ○ To make a flow chart of different branches of geography • Discussion of Sample Questions 	<ul style="list-style-type: none"> • Relation with geography • Creation of universe • To know about our interior part of world
	TERM- I EXAMINATION			
October Topic: 4. Distribution of ocean and continent No. of periods: 12	<ul style="list-style-type: none"> • Earthquake, Structure of the earth • Continental drift theory • Plate movement sea- floor spreading 	Video on Continental drift theory Video on sea-floor spreading	<ul style="list-style-type: none"> • Assignment Prepare a collage related to damages caused by earthquake 	<ul style="list-style-type: none"> • To know about natural calamities • Pangia, Panthalasa • To know the creation of consistent, ocean
November Topic: 5. Minerals and rock 6. Geomorphic Processes 7. Landforms their evolution	<ul style="list-style-type: none"> • Types of minerals, Rock, Rock cycle • Exogenic and endogenic process • Weathering, Erosion, • Soil • Landform by Nature, Glacial, wind • Composition of Atmosphere • Structure of Atmosphere 	To show different sample of rock. Video on Exogenic and endogenic process	<ul style="list-style-type: none"> • Assignment To collect different types of rocks from the school campus • Discussion of Sample Questions 	<ul style="list-style-type: none"> • To understand about our resource • Different process of Erosion, by nature wind • How atmosphere made. • Importance of different gases

Month Topic	Sub Topic	Activities/ Audio Visual Inputs	Assignment / Discussion / Project	Learning Outcomes After the completion of this chapter, students will be able to-
8. Composition structure of atmosphere No. of periods: 26 Practical work 1 Projection	<ul style="list-style-type: none"> Map projection-Latitude longitude and time Construction of Projection: Conical with one standard parallel 	Collect the data of temperature and rainfall in the month of june-september.	<ul style="list-style-type: none"> Identify the landform of river, wind, ground water around your area. 	<ul style="list-style-type: none"> To know about Ozone
December Topic: 9. Solar radiation, Heat balance, Temperature 10. Atmospheric Circulation of weather system 11. Water in the atmosphere 12. World Climate & change No. of periods: 21 Practical work 1. Aerial Photograph 2. Satellite image 3. Use of Weather instrument	Periodic Test - 2			
	<ul style="list-style-type: none"> Insolation, heat budget, Temperature, Inversion of Temperature Atmosphere pressure, world distribution of sea level pressure Evaporation & condensation, type of Rainfall Koppen classification , Global Warming 	<p>Video on effect on Global Warming Video on heat budget of the planet earth. Draw the different type of weather phenomena.</p> <p>Different type of instrument Photo Map Stereoscope</p>	<ul style="list-style-type: none"> Assignment To learn the important definition Discussion of Sample Questions Collect weather information over media such as news paper, tv, internet. 1. Project on different Practical. 2. Make a Record book. 	<ul style="list-style-type: none"> To bring a knowledge about temperature, Pressure Importance of Rainfall To know about Global warming <p>1. To learn about different practical sense. 2. To create practical base knowledge</p>

Month Topic	Sub Topic	Activities/ Audio Visual Inputs	Assignment / Discussion / Project	Learning Outcomes After the completion of this chapter, students will be able to-
January Topic: 13. Water (Ocean) 14. Movement of Ocean 15. Life on the Earth 16. Biodiversity and Conservation No. of periods: 24	<ul style="list-style-type: none"> Hydrological cycle, Division of the ocean Floors, Horizontal and vertical distribution of temperature Waves tides, current. Ecology, Biogeochemical cycle, Ecosystem, Diversity Conservation of Biodiversity 	Video on Biodiversity and Biodiversity parks	<ul style="list-style-type: none"> Assignment Map pointing Discussion of Sample Questions Collect the name of national park, sanctuaries, and biosphere reserve of our country.	<ul style="list-style-type: none"> To understand about ocean floor, wave, tide current How they create Importance of ecosystem Importance of conservation of Biodiversity
February	REVISION			
March	TERM- II EXAMINATION			

Curriculum Plan of Political Science
(Session: 2020-21)

Month Topic	Sub Topic	Audio Visual Inputs	Miscellaneous	Core Skills/Art Integration/ Interdisciplinary Linkages
May Topic: Constitution Why and How and Philosophy of the Constitution No. of Periods: 18	<ul style="list-style-type: none"> Constitution: Why and How, The making of the Constitution, the Constituent Assembly, Procedural achievements and Philosophy of the Constitution. 	Video: <ul style="list-style-type: none"> Samvidhaan- The making of the Constitution of India 	<ul style="list-style-type: none"> Assignment <ul style="list-style-type: none"> Constitution Why and How and Philosophy of the Constitution Constitution as a Living Document Rights in the Indian Constitution 	<ul style="list-style-type: none"> Core Skills <ul style="list-style-type: none"> Critical thinking, Logical thinking, Problem solving, Decision Making, Effective communication, Dealing with stress Art Integration- <ul style="list-style-type: none"> Group Discussion Interdisciplinary Linkages <ul style="list-style-type: none"> History, Sociology, Economics
Topic: Constitution as a Living Document No. of Periods: 08	<ul style="list-style-type: none"> Are Constitutions static? The procedure to amend the Constitution. Why have there been so many amendments? Basic Structure and Evolution of the Constitution. Constitution as a Living Document 	Video: <ul style="list-style-type: none"> The Constitution- a living document 	<ul style="list-style-type: none"> Discussion of Scoring Points/Marking Scheme/Sample Questions Timeline / Concept Mapping Project: Topic Selection 	<ul style="list-style-type: none"> Core Skills <ul style="list-style-type: none"> Critical thinking, Logical thinking, Problem solving, Decision Making Art Integration- <ul style="list-style-type: none"> Find out the amendment about the right to education. What do you think is the importance of this amendment? Interdisciplinary Linkages <ul style="list-style-type: none"> History
June Topic: Rights in the Indian Constitution No. of Periods: 18	<ul style="list-style-type: none"> The importance of Rights, Fundamental Rights in the Indian Constitution, Directive Principles of State Policy, Relationship between Fundamental Rights and Directive Principles 	Video: <ul style="list-style-type: none"> Fundamental Rights in the Indian Constitution PPT on Fundamental Rights 		<ul style="list-style-type: none"> Core Skills <ul style="list-style-type: none"> Critical thinking, Logical thinking, Problem solving, Decision Making Self Awareness, Empathy Art Integration <ul style="list-style-type: none"> Make a list of public religious activities that take place in your village or city Interdisciplinary Linkages <ul style="list-style-type: none"> History

Month Topic	Sub Topic	Audio Visual Inputs	Miscellaneous	Core Skills/Art Integration/ Interdisciplinary Linkages
Topic: Political Theory: An Introduction No. of Periods: 10	<ul style="list-style-type: none"> • What is Politics? • What do we study in Political Theory? • Putting Political Theory to practice. • Why should we study Political Theory? 	Video: <ul style="list-style-type: none"> • Politics- Who Gets What When and How? • Introduction to Political Science 	<ul style="list-style-type: none"> • Assignment <ul style="list-style-type: none"> ○ Political Theory: An Introduction ○ The ideal of Freedom • Discussion of Scoring Points/Marking Scheme/Sample Questions • Timeline / Concept Mapping • Project: Research 	<ul style="list-style-type: none"> • Core Skills <ul style="list-style-type: none"> ○ Critical thinking, Logical thinking, Problem solving, Decision Making, Effective communication • Art Integration <ul style="list-style-type: none"> ○ Debate, Collect the cartoons • Interdisciplinary Linkages <ul style="list-style-type: none"> ○ History
July Topic: Freedom No. of Periods: 11	<ul style="list-style-type: none"> • The Ideal of Freedom. What is Freedom? • Why do we need constraints? • Harm principle. • Negative and Positive Liberty 	Video: <ul style="list-style-type: none"> • What is Freedom? • Who is Aung San Suu Kyi? • Nelson Mandela - Mini Biography 	<ul style="list-style-type: none"> • Timeline / Concept Mapping • Project: Research 	<ul style="list-style-type: none"> • Core Skills <ul style="list-style-type: none"> ○ Critical thinking, Logical thinking, Problem solving, Decision Making, Self-Awareness • Art Integration <ul style="list-style-type: none"> ○ Debate, Role play • Interdisciplinary Linkages <ul style="list-style-type: none"> ○ History
Topic: Election and Representation No. of Periods: 11	<ul style="list-style-type: none"> • Elections and Democracy, Election System in India, Reservation of Constituencies, Free and Fair Elections, Electoral Reforms. 	Video: <ul style="list-style-type: none"> • Indian Electoral System Why should I VOTE? • How to cast your vote using EVM and VVPAT • First past the post 	<ul style="list-style-type: none"> • Assignment <ul style="list-style-type: none"> ○ Election and Representation ○ Election system in India. ○ Equality 	<ul style="list-style-type: none"> • Core Skills <ul style="list-style-type: none"> ○ Creative thinking, Logical thinking, Problem solving, Decision Making • Art Integration <ul style="list-style-type: none"> ○ Mock elections in class to elect class representatives. • Interdisciplinary Linkages <ul style="list-style-type: none"> ○ History, Sociology
Topic: Equality No. of Periods: 11	<ul style="list-style-type: none"> • Significance of Equality. • What is Equality? Various dimensions of Equality. • How can we promote Equality? 	Video: <ul style="list-style-type: none"> • Do One Thing For Diversity and Inclusion – Different. • Close the Gap- Why Equality for Girls and Women Matters. • Economic Equality 	<ul style="list-style-type: none"> • Discussion of Scoring Points/Marking Scheme/Sample Questions • Timeline / Concept Mapping • Project: Data collection 	<ul style="list-style-type: none"> • Core Skills <ul style="list-style-type: none"> ○ Critical thinking, Logical thinking, Problem solving, Decision Making Self Awareness, Empathy • Art Integration <ul style="list-style-type: none"> ○ Debate, Search for quotations from different religious scriptures that affirm the ideal of equality. • Interdisciplinary Linkages <ul style="list-style-type: none"> ○ History, Sociology, Economics

Month Topic	Sub Topic	Audio Visual Inputs	Miscellaneous	Core Skills/Art Integration/ Interdisciplinary Linkages
Topic: Legislature No. of Periods: 11	<ul style="list-style-type: none"> Why do we need a Parliament? Two Houses of Parliament. Functions and Power of the Parliament, Legislative functions, control over Executive. Parliamentary committees. Self- regulation 	Video: <ul style="list-style-type: none"> How a Bill Becomes an Act What Is Parliament? What is Lok Sabha? What is Rajya Sabha? 	<ul style="list-style-type: none"> Assignment <ul style="list-style-type: none"> Legislature 1.Parliamentary committees Discussion of Scoring Points/Marking Scheme/Sample Questions Timeline / Concept Mapping 	<ul style="list-style-type: none"> Core Skills <ul style="list-style-type: none"> Critical thinking, Logical thinking, Problem solving, Decision Making, Interpersonal Relationship Art Integration <ul style="list-style-type: none"> Prepare a chart, Make a wallpaper Interdisciplinary Linkages <ul style="list-style-type: none"> History
	•	PERIODIC TEST – 2	•	•
August Topic: Executive No. of Periods: 11	<ul style="list-style-type: none"> What is an Executive? Different Types of Executive. Parliamentary Executive in India, Prime Minister and Council of Ministers. Permanent Executive: Bureaucracy. 	Video <ul style="list-style-type: none"> Political Executive How is the president of India elected? Different types of Executives 	<ul style="list-style-type: none"> Assignment <ul style="list-style-type: none"> Executive Justice with special reference to Social Justice Rights Discussion of Scoring Points/Marking Scheme/Sample Questions Timeline / Concept Mapping Project <ul style="list-style-type: none"> First Draft 	<ul style="list-style-type: none"> Core Skills <ul style="list-style-type: none"> Critical thinking, Logical thinking, Problem solving, Decision Making Art Integration <ul style="list-style-type: none"> Procure a photograph of the SAARC summit meeting or the meeting of G-8 countries and list those who attended the meeting. Interdisciplinary Linkages <ul style="list-style-type: none"> History
Topic: Justice with special reference to Social Justice No. of Periods: 12	<ul style="list-style-type: none"> What is Justice? Just Distribution. Justice as fairness. Pursuing Social Justice. 	Video <ul style="list-style-type: none"> What is Social Justice? Social justice in India (documentary) What is Justice what is Social Justice? An Introduction to John Rawls's A Theory of Justice John Rawls Two Principles of Justice The Veil Of Ignorance 	<ul style="list-style-type: none"> Timeline / Concept Mapping Project <ul style="list-style-type: none"> First Draft 	<ul style="list-style-type: none"> Core Skills <ul style="list-style-type: none"> Logical thinking, Problem solving, Decision Making, Empathy Art Integration <ul style="list-style-type: none"> Search the minimum requirement of food, income, water and such facilities have been made by government agencies and U.N Interdisciplinary Linkages <ul style="list-style-type: none"> History, Sociology, Economics

Month Topic	Sub Topic	Audio Visual Inputs	Miscellaneous	Core Skills/Art Integration/ Interdisciplinary Linkages
Topic: Rights No. of Periods: 11	<ul style="list-style-type: none"> • What are Rights? • Where do Rights come from? • Legal Rights and the State. • Kinds of Rights. Rights and Responsibilities. 	Video <ul style="list-style-type: none"> • What Are Rights? • The Universal Declaration of Human Rights. • What are human rights? • Children's and Young People's Rights 	1. Kinds of rights.	<ul style="list-style-type: none"> • Core Skills <ul style="list-style-type: none"> ○ Critical thinking, Logical thinking, Problem solving, Decision Making, Self-Awareness, Empathy • Art Integration <ul style="list-style-type: none"> ○ Let's Debate • Interdisciplinary Linkages <ul style="list-style-type: none"> ○ History, Sociology, Economics
September				
Topic: Citizenship No. of Periods: 11	<ul style="list-style-type: none"> • What is citizenship? • Citizen and Nation, Universal Citizenship, Global Citizenship 	Video <ul style="list-style-type: none"> • What does it mean to be a citizen? • Learning to live together in peace through Global Citizenship Education 	<ul style="list-style-type: none"> • Assignment <ul style="list-style-type: none"> ○ Citizenship • Discussion of Scoring Points/ Marking Scheme/ Sample Questions • Timeline / Concept Mapping 	<ul style="list-style-type: none"> • Core Skills <ul style="list-style-type: none"> ○ Logical thinking, Decision Making, Self-Awareness, Empathy, Interpersonal Relationship • Art Integration <ul style="list-style-type: none"> ○ Survey • Interdisciplinary Linkages <ul style="list-style-type: none"> ○ History, Sociology
	•	TERM- I EXAMINATION	•	•
October Topic: Judiciary No. of Periods: 11	<ul style="list-style-type: none"> • Why do we need an Independent Judiciary? • Structure of the Judiciary, Judicial Activism, Judiciary and Rights, Judiciary and Parliament 	Video <ul style="list-style-type: none"> • The Judiciary • Indian Judicial System 	<ul style="list-style-type: none"> • Assignment <ul style="list-style-type: none"> ○ Federalism ○ Independent judiciary. • Discussion of Scoring Points/ Marking Scheme/ Sample Questions 	<ul style="list-style-type: none"> • Core Skills <ul style="list-style-type: none"> ○ Logical thinking, Problem solving, Decision Making • Art Integration <ul style="list-style-type: none"> ○ Debate • Interdisciplinary Linkages <ul style="list-style-type: none"> ○ History

November Topic: Nationalism No. of Periods: 11	<ul style="list-style-type: none"> Nations and Nationalism, National Self-determination, Nationalism and Pluralism 	Video <ul style="list-style-type: none"> What is Nationalism? Nationalism Explained In Simple Terms 	<ul style="list-style-type: none"> Assignment <ul style="list-style-type: none"> Nationalism Secularism The western and Indian approach to secularism. Peace Discussion of Scoring Points/ Marking Scheme/ Sample Questions Timeline / Concept Mapping 	<ul style="list-style-type: none"> Core Skills <ul style="list-style-type: none"> Critical thinking, Decision Making, Self-Awareness, Empathy Art Integration <ul style="list-style-type: none"> Cut out clippings from various newspapers and magazines related to the demands of various groups in India and abroad Interdisciplinary Linkages <ul style="list-style-type: none"> History
Topic: Secularism No. of Periods: 11	<ul style="list-style-type: none"> What is Secularism? What is Secular State? The Western and the Indian approaches to Secularism. Criticisms and Rationale of Indian Secularism 	Video <ul style="list-style-type: none"> Secularism in India. The Making of Nation - Part IX- Secularism and the Nation. 		<ul style="list-style-type: none"> Core Skills <ul style="list-style-type: none"> Logical thinking, Self-Awareness, Empathy, Managing Emotions Art Integration <ul style="list-style-type: none"> Watch any of the following films (like Bombay/ Garam Hawa) Interdisciplinary Linkages <ul style="list-style-type: none"> History, Sociology
Topic: Peace No. of Periods: 11	<ul style="list-style-type: none"> What is Peace? Can violence ever promote peace? Peace and the State. Different Approaches to the pursuit of peace. Contemporary challenges to peace. 	Video <ul style="list-style-type: none"> What is Peace? Gandhi's Non-Violence speech 		<ul style="list-style-type: none"> Core Skills <ul style="list-style-type: none"> Critical thinking, Problem solving, Decision Making, Empathy, Managing Emotions Art Integration <ul style="list-style-type: none"> Design a peace award with a symbol(s). Interdisciplinary Linkages <ul style="list-style-type: none"> History, Sociology, Economics
			PERIODIC TEST – 2	
December Topic: Development	<ul style="list-style-type: none"> What is development? Dominant, development Model and alternative conceptions of development 	Video <ul style="list-style-type: none"> The World's Largest Lesson The sustainable development 	<ul style="list-style-type: none"> Assignment <ul style="list-style-type: none"> Development Discussion of Scoring Points/ Marking Scheme/ Sample Questions Timeline / Concept Mapping 	<ul style="list-style-type: none"> Core Skills <ul style="list-style-type: none"> Critical thinking, Problem solving, Decision Making Art Integration <ul style="list-style-type: none"> Make a presentation on India is changing HDI rank? Interdisciplinary Linkages <ul style="list-style-type: none"> History, Sociology, Economics

Month Topic	Sub Topic	Audio Visual Inputs	Miscellaneous	Core Skills/Art Integration/ Interdisciplinary Linkages
Topic: 1. Federalism 2. Local Governm ents 3. No. of Periods: 15	<ul style="list-style-type: none"> • What is federalism • Federalism in Indian constitution • Why do we need Local Governments? • Growth of Local Government in India, 73rd and 74th Amendments, implementation of 73rd and 74th Amendments 	Video <ul style="list-style-type: none"> • Federalism with strong central government. • Panchayati Raj - How India's Villages Work • In Depth – 73rd and 74th Constitution Amendment 	<ul style="list-style-type: none"> • Assignment <ul style="list-style-type: none"> ○ Federalism ○ Local Governments • Discussion of Scoring Points/ Marking Scheme/ Sample Questions • Timeline / Concept Mapping • Project <ul style="list-style-type: none"> ○ Final Submission 	<ul style="list-style-type: none"> • Core Skills <ul style="list-style-type: none"> ○ Critical thinking, Problem solving, Decision Making, Interpersonal Relationship • Art Integration <ul style="list-style-type: none"> ○ Identify some of the powers that your State government has delegated to panchayats. • Interdisciplinary Linkages <ul style="list-style-type: none"> ○ History, Sociology, Economics
January	REVISION			
February	REVISION			
March	TERM- II EXAMINATION			

Curriculum Plan of Informatics Practices
(Session: 2020-2021)

Month/Topic	Theory	Practical/Project	Miscellaneous
June Topic: Basic Computer Organization No. of periods: 10	<ul style="list-style-type: none"> ➤ Basic computer organization: description of a computer system and mobile system, CPU, memory, hard disk, I/O, battery. ➤ Types of software: application, System, utility. ➤ Memory Units: bit, byte, MB, GB, TB, and PB 	<ul style="list-style-type: none"> • Demonstration of computer showing different parts of CPU. 	<ul style="list-style-type: none"> • Assignment <ul style="list-style-type: none"> ○ Computer fundamentals • Discussion of Scoring Points/ Marking Scheme/ Sample Questions • Art Integration <ul style="list-style-type: none"> ○ Draw the block diagram of computer IPO cycle • Video <ul style="list-style-type: none"> ○ Software • Core Skills <ul style="list-style-type: none"> ○ Problem solving
June Topic: Getting Started with Python and its' Fundamentals, Data Handling No. of periods: 33	<ul style="list-style-type: none"> ➤ Basics of Computational Thinking: Decomposition, Pattern Recognition/ Data representation, Generalization/ Data Abstraction and algorithm. ➤ Familiarization with the basics of Python programming: a simple “hello world” program, process of writing a program (Interactive & Script mode), running it, and print statements; simple data-types: integer, float, string 	Write a program to <ul style="list-style-type: none"> • display “hello world” on screen • print the successor, predecessor, half, double of a given number 	<ul style="list-style-type: none"> • Assignment <ul style="list-style-type: none"> ○ Computational Thinking ○ Python Programming • Discussion of Scoring Points/ Marking Scheme/ Sample Questions • Video <ul style="list-style-type: none"> ○ Computational Thinking

Month/Topic	Theory	Practical/Project	Miscellaneous
July Topic: Getting Started with Python and its' Fundamentals, Data Handling No. of periods: 30	<ul style="list-style-type: none">➤ Features of Python, Python Character Set, Token & Identifiers, Keywords, Literals, Delimiters, operators.➤ Comments: (Single line & Multiline/ Continuation statements), Clarity & Simplification of expression.➤ Introduce the notion of a variable, and methods to manipulate it (concept of Lvalue and R-value even if not taught explicitly).➤ Knowledge of data types and operators: accepting input from the console, assignment statement, expressions, operators and their precedence.➤ Operators & types: Binary operators – Arithmetic, Relational operators, Logical Operators, Augmented Assignment operators.	Write programs in Python to <ul style="list-style-type: none">• Find the sum of two numbers• Find the average of three numbers• Accept values in four variables from use. Divide the sum of first two numbers by the difference of last two numbers and display the result• Find whether a given number is positive/ negative• Find whether a given number is even/ odd• Find the bigger/smaller of two numbers• Find the biggest/smallest of three numbers	<ul style="list-style-type: none">• Assignment<ul style="list-style-type: none">○ Python Programming• Discussion of Scoring Points/ Marking Scheme/ Sample Questions• Core Skills<ul style="list-style-type: none">○ Problem solving○ Critical thinking○ Creative thinking○ Decision making○ Empathy○ Interpersonal relationship○ Self-awareness
July Topic: Conditional and Iterative statements No. of periods: 30	<ul style="list-style-type: none">➤ Conditional statements: if, if-else, if-elf-else; simple programs: e.g.: absolute value, sort 3 numbers, and divisibility.➤ Notion of iterative computation and control flow: for(range(), len()), while, flowcharts, suggested programs: interest calculation and factorials, etc.	<ul style="list-style-type: none">• Find the factorial of a given number.• Accept values for Principle, Rate of Interest and Time. Calculate Simple Interest.• Find x^n.• Print first N natural/whole numbers in forward/reverse order• Print even/odd numbers between 1 and N.• Find whether a given number is prime or not• Find if a number is equal to the sum of the cubes of its digits.• Find the reverse of a given number• Find the sum of digits of a given number• Find LCM and HCF of two numbers	
PERIODIC TEST – 1			

Month/Topic	Theory	Practical/Project	Miscellaneous
August Topic: Introducing Python Modules No. of Periods:20	<ul style="list-style-type: none"> ➤ Functions ➤ Structure of Python module ➤ Importing Modules in a Python Program 	<ul style="list-style-type: none"> • Program for addition of two numbers by using a function • Program to find out area of a circle by using a user defined function 	<ul style="list-style-type: none"> • Assignment <ul style="list-style-type: none"> ○ Python Programming • Discussion of Scoring Points/ Marking Scheme/ Sample Questions • Core Skills <ul style="list-style-type: none"> ○ Problem solving ○ Critical thinking ○ Creative thinking ○ Decision making ○ Empathy ○ Self-awareness
Month/Topic	Theory	Practical/Project	Miscellaneous
August Topic: Introducing Python Pandas and Python Pandas-II No. of Periods:50	<ul style="list-style-type: none"> ➤ Using Pandas ➤ Numpy Arrays ➤ Pandas Data Structures ➤ Data Frame Data Structures ➤ Data Frame Attributes ➤ Selecting or Accessing data ➤ Assigning/ Modifying Data Values in Data Frames ➤ Adding and Deleting Columns in Data Frame ➤ Iterating over a Data Frame ➤ Binary operations in a Data Frame ➤ Some other essential functions ➤ Matching and Broadcasting Operations ➤ Handling Missing Data ➤ Boolean Reductions ➤ Combining Data Frames 	<ul style="list-style-type: none"> • Creation of numpy arrays • Numpy array manipulation • Creation of Data Frames • Manipulating data from Data Frames 	<ul style="list-style-type: none"> • Assignment <ul style="list-style-type: none"> ○ Python Programming • Discussion of Scoring Points/ Marking Scheme/ Sample Questions • Core Skills <ul style="list-style-type: none"> ○ Problem solving ○ Critical thinking ○ Creative thinking ○ Decision making ○ Empathy ○ Self-awareness

September Topic: Data Management No. of periods: 26	<ul style="list-style-type: none"> ➤ Relational databases: Concept of a database, relations, attributes and tuples, keys- candidate key, primary key, alternate key, foreign key, Degree and cardinality of a table. ➤ Use SQL – DDL/ DML commands to CREATE TABLE, INSERT INTO, UPDATE TABLE, DELETE FROM, ALTER TABLE, MODIFY TABLE, DROP TABLE, keys, and foreign keys; to view content of a table: SELECT-FROM WHERE-ORDER BY along with BETWEEN, IN, LIKE (Queries only on single table) 	<ul style="list-style-type: none"> • Create a student table with the student id, name, and marks as attributes where the student id is the primary key. • Add a new column in the above table. • Modify the details of a particular column • Delete a particular column • Insert the details of a new student in the above table. • Delete & update the details of a particular student in the above table. • Use the select command to manipulate data. • Create a new table (name, date of birth) by joining two tables (student id, name) and (student, date of birth). 	<ul style="list-style-type: none"> • Assignment <ul style="list-style-type: none"> ○ Python Programming • Discussion of Scoring Points/ Marking Scheme/ Sample Questions • Core Skills <ul style="list-style-type: none"> ○ Problem solving ○ Critical thinking ○ Creative thinking ○ Decision making
TERM – I EXAMINATION			
Half of October Topic: Data Management No. of periods: 14	<ul style="list-style-type: none"> ➤ Aggregate functions – MIN, MAX, AVG, COUNT, SUM ➤ Basics of MySQL databases. 		
November Topic: Cyber safety, Online Access and Computer Security No. of periods: 10	<ul style="list-style-type: none"> ➤ Cyber safety: safely browsing the web, identity protection, confidentiality, social networks, cyber trolls and bullying ➤ Appropriate usage of social networks: spread of rumors, and common social networking sites (Twitter, LinkedIn, and Facebook) and specific usage rules. ➤ Safely accessing web sites: adware, malware, viruses, Trojans ➤ Safely communicating data: secure connections, eavesdropping, phishing and identity verification. 		<ul style="list-style-type: none"> • Assignment <ul style="list-style-type: none"> ○ Cyber Safety • Discussion of Scoring Points/ Marking Scheme/ Sample Questions • Video <ul style="list-style-type: none"> ○ Cyber Safety ○ Usage of Social Networking

Month/Topic	Theory	Practical/Project	Miscellaneous
			<ul style="list-style-type: none"> ○ Malware, Virus, Trojans etc. ○ Phishing ● Core Skills <ul style="list-style-type: none"> ○ Self-awareness ○ Interpersonal relationship ○ Empathy
Topic: Data Transfer between Files, SQL Databases and Data Frames No. of periods: 10	<ul style="list-style-type: none"> ➤ Transferring Data between .csv Files and Data Frames ➤ Transferring Data between Data Frames and SQL Databases 	<ul style="list-style-type: none"> ● Loading data from CSV to Data frames ● Storing Data frame's data to CSV file ● Storing Data frame's data as a table in an SQL database 	<ul style="list-style-type: none"> ● Assignment <ul style="list-style-type: none"> ○ Cyber Safety ● Discussion of Scoring Points/ Marking Scheme/ Sample Questions ● Video <ul style="list-style-type: none"> ○ Cyber Safety ○ Usage of Social Networking ○ Malware, Virus, Trojans etc. ○ Phishing
PERIODIC TEST – II			
December	REVISION		
January	REVISION		
February	REVISION		
March	TERM- II EXAMINATION		

Curriculum Plan of Physical Education
(Session: 2020-21)

Month Topic	Sub Topic	Audio Visual Inputs	Practical	Miscellaneous
May Topic: Changing Trends & Career in Physical Education No. of periods: 16	<ul style="list-style-type: none"> ➤ Meaning & Definition of Physical Education ➤ Aims & Objectives of Physical Education ➤ Career Options in Physical Education ➤ Competitions in various sports at national & international level ➤ Khelo- India Program 	Video on Khelo –India Program		1. Assignment 2. Discussion of Scoring Points/ Marking Scheme/ Sample Questions
June Topic: Olympic Value Education No. of periods: 20	<ul style="list-style-type: none"> ➤ Olympics, Paralympics & Special Olympics ➤ Olympics Symbols Ideas Objectives & Values of Olympics ➤ International Olympic Committee ➤ Indian Olympics Association 	Video on Olympics, Paralympics & Special Olympics	Labelled diagram of 400 M Track & Field with computations	
Topic: Physical Fitness, Wellness & Lifestyle No. of periods: 13	<ul style="list-style-type: none"> ➤ Meaning & Importance of Physical Fitness, Wellness & Lifestyle ➤ Components of physical fitness and Wellness ➤ Components of Health related fitness 		Computation of BMI from family or neighborhood & graphical representation of the data.	
July Topic: Physical Education & Sports for CWSN No. of periods: 16	<ul style="list-style-type: none"> ➤ Aims & objectives of Adaptive Physical Education ➤ Organization promoting Adaptive Sports (Special Olympics Bharat; Paralympics; Deaflympics) ➤ Concept of Inclusion, its need and Implementation ➤ Role of various professionals for children with special needs (Counsellor, Occupational Therapist, Physiotherapist, Physical Education Teacher, Speech Therapist & Special Educator) 	Video on Special Olympic Bharat, Deaflympics	Labelled diagram of field & equipment of any one game of your choice out of the above list.	

Month Topic	Sub Topic	Audio Visual Inputs	Practical	Miscellaneous
Topic: Yoga No. of periods: 20	<ul style="list-style-type: none">➤ Meaning & Importance of Yoga➤ Elements of Yoga➤ Introduction - Asanas, Pranayam, Meditation & Yogic Kriyas➤ Yoga for concentration & related Asanas (Sukhasana; Tadasana; Padmasana & Shashankasana, Naukasana, Vrikshasana (Tree pose), Garudasana (Eagle pose)➤ Relaxation Techniques for improving concentration – Yog-nidra	Video on Procedure of yoga and yogic kriyas	Volley ball – fundamental skills: service, passing and placing, spicking, boosting, blocking.	1. Assignment 2. Discussion of Scoring Points/ Marking Scheme/ Sample Questions
	PERIODIC TEST – 1			
August Topic: Physical Activity & Leadership Training No. of periods: 15	<ul style="list-style-type: none">➤ Leadership Qualities & Role of a Leader➤ Creating leaders through Physical Education➤ Meaning, objectives & types of Adventure Sports (Rock Climbing, Tracking, River Rafting, Mountaineering, Surfing and Para Gliding)➤ Safety measures to prevent sports injuries	Video on Adventure sports	List of current National Awardees (Dronacharya Award, Arjuna Award & Rajiv Gandhi Khel Ratna Award)	
Topic: Test, Measurement & Evaluation No. of periods: 16	<ul style="list-style-type: none">➤ Define Test, Measurement & Evaluation➤ Importance of Test, Measurement & Evaluation In Sports➤ Calculation of BMI & Waist - Hip Ratio➤ Somato Types (Endomorphy, Mesomorphy & Ectomorphy)➤ Measurement of health related fitness	Video on Test & Measurment		
September Topic: Fundamentals of Anatomy, Physiology & Kinesiology in Sports No. of periods: 18	TERM- 1 EXAMINATION			
	<ul style="list-style-type: none">➤ Definition and Importance of Anatomy, Physiology & Kinesiology➤ Function of Skeleton System, Classification of Bones & Types of Joints➤ Properties and Functions of Muscles➤ Function & Structure of Respiratory System and Circulatory System➤ Equilibrium – Dynamic & Static And Centre of Gravity and its application in sports	Video on Function of all System in our body	Football: fundamental skills, kicking, ball control, dribbling, tackling, trapping, passing.	

Month Topic	Sub Topic	Audio Visual Inputs	Practical	Miscellaneous
October Topic: Psychology & Sports No. of periods: 14	<ul style="list-style-type: none"> ➤ Definition & Importance of Psychology in Physical Edu. & Sports ➤ Define & Differentiate Between Growth & Development ➤ Developmental Characteristics at Different Stages of Development ➤ Adolescent Problems & Their Management 	Video on Growth & Development of children	Pictorial presentation of any five Asanas for improving concentration.	
November Topic: Training and Doping in Sports No. of periods: 12	<ul style="list-style-type: none"> ➤ Meaning & Concept of Sports Training ➤ Principles of Sports Training ➤ Warming up & limbering down ➤ Skill, Technique & Style ➤ Concept & classification of doping ➤ Prohibited Substances & their side effects ➤ Dealing with alcohol and substance abuse 	Video on Sports training in sports		1. Assignment 2. Discussion of Scoring Points/ Marking Scheme/ Sample Questions
	PERIODIC TEST – 2			
December	REVISION			
January	REVISION			
February	REVISION			
March	TERM -2 EXAMINATION			