

ANNUAL **CURRICULUM** **PLAN**

CLASS XII 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



RAMAKRISHNA MISSION ASHRAMA SCHOOL

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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	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.

Time Table For First Mock Test : 23 to 28 November, 2020

Date	Class X	Class XII
23/11/2020	Science	English
24/11/2020	Social Science	Physics/ Geography
25/11/2020	English	Mathematics/ Biology / Political Science
26/11/2020	Odia / Hindi	Computer Science / Physical Education
27/11/2020	Mathematics	Informative Practices/ Chemistry
28/11/2020	Informative Technology	-----

Time Table For Second Mock Test : 14 to 19 December, 2020

Date	Class X	Class XII
14/12/2020	English	Informative Practices/ Chemistry
15/12/2020	Mathematics	Computer Science / Physical Education
16/12/2020	Science	Mathematics/ Biology / Political Science
17/12/2020	Odia / Hindi	Physics/ Geography
18/12/2020	Informative Technology	English
19/12/2020	Social Science	-----

Time Table For Third Mock Test : 08 to 13 February, 2021

Date	Class X	Class XII
08/02/2021	Social Science	Physics/ Geography
09/02/2021	Science	English
10/02/2021	Mathematics	Informative Practices/ Chemistry
11/02/2021	English	Computer Science / Physical Education
12/02/2021	Odia / Hindi	Mathematics/ Biology/ Political Science
13/02/2021	Informative Technology	-----

BOARD EXAM.

As per time table provided by CBSE Board.

Curriculum Plan of English Core
(Session: 2020-21)

Month Topic	Theme/Audio Visual Inputs	Assignment /Discussion	Listening, Speaking, Reading and Writing Skills	Core Skills/Art Integration/ Interdisciplinary Linkages
April Topic: The Last Lesson No. of Periods: 06	Understanding the Genre Literary appreciation Central Idea Plot, Protagonists, Characters	<ul style="list-style-type: none"> • Assignment on The Last Lesson • Discussion of Scoring Points/ Marking Scheme/Sample Questions 	Short review/ dramatization of the story	Patriotism, freedom of language and the love for one's mother tongue
Topic: My Mother at Sixty Six No. of Periods: 05	Poetic Appreciation, Rhyme Scheme Poetic Devices Central Idea	<ul style="list-style-type: none"> • Assignment on My Mother at Sixty Six • Discussion of Scoring Points/ Marking Scheme/Sample Questions 	Critical evaluation of the theme conveyed by the poet	Eternal law of ageing & complex subtleties of human relationship.
Topic: The Tiger King No. of Periods: 06	Understanding the Genre Literary appreciation Central Idea Plot, Protagonists, Characters	<ul style="list-style-type: none"> • Assignment on The Tiger King • 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	Transience of life & power.
Topic: Writing Section No. of Periods: 06	Notice Writing, Advertisement	<ul style="list-style-type: none"> • Assignment on Notice & Advertisement • Discussion of Scoring Points/ Marking Scheme/Sample Questions 	Write notices for school events/processes to develop writing skills.	Freedom of expression & clarity of thoughts.
June				
Topic: Lost Spring No. of Periods: 06	Understanding the Genre Literary appreciation Central Idea Plot, Protagonists, Characters	<ul style="list-style-type: none"> • Assignment on Lost Spring • 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	Child exploitation through child labour. Power of optimism & hope.

Month Topic	Theme/Audio Visual Inputs	Assignment /Discussion	Listening, Speaking, Reading and Writing Skills	Core Skills/Art Integration/ Interdisciplinary Linkages
Topic: An Elementary School Classroom in a Slum No. of Periods: 05	Poetic Appreciation Rhyme Scheme Poetic Devices Central Idea	<ul style="list-style-type: none"> • Assignment on An Elementary School Classroom in Slum • Discussion of Scoring Points/Marking Scheme/Sample Questions 	Commentary on the central idea conveyed through the poem	Poverty, Social injustice & Social inequality.
Topic: Deep Water No. of Periods: 06	Understanding the Genre Literary appreciation Central Idea Plot, Protagonists, Characters	<ul style="list-style-type: none"> • Assignment on Deep Water • Discussion of Scoring Points/Marking Scheme/Sample Questions 	Silent reading of prescribed/selected texts for comprehension	Power of determination to overcome any adversity.
Topic: Writing Section No. of Periods: 05	Letter Writing (Formal)	<ul style="list-style-type: none"> • Assignment on Letter Writing • Discussion of Scoring Points/Marking Scheme/Sample Questions 	Write on various issues to institutions seeking relevant information, lodge complaints, express thanks or tender apology	Freedom of expression & clarity of thoughts.
July Topic: The Rattrap No. of Periods: 05	Understanding the Genre Literary appreciation Central Idea Plot, Protagonists, Characters	<ul style="list-style-type: none"> • Assignment on The Rattrap • Discussion of Scoring Points/Marking Scheme/Sample Questions 	Language learning activities such as role-play, dramatization, group discussion, writing, etc.	Importance of human companionship & community.
Topic: Keeping Quiet No. of Periods: 05	Poetic Appreciation Rhyme Scheme Poetic Devices Central Idea	<ul style="list-style-type: none"> • Assignment on Keeping Quiet • Discussion of Scoring Points/Marking Scheme/Sample Questions 	Silent reading of prescribed/selected texts for comprehension	Peace, humanity and self-actualization. Power of introspection.
Topic: Indigo No. of Periods: 05	Understanding the Genre Literary appreciation Central Idea Plot, Protagonists, Characters	<ul style="list-style-type: none"> • Assignment on Indigo • Discussion of Scoring Points/Marking Scheme/Sample Questions 	Encouraging students to role-play as various characters to interact with one another	Leadership & Social justice.

Month Topic	Theme/Audio Visual Inputs	Assignment /Discussion	Listening, Speaking, Reading and Writing Skills	Core Skills/Art Integration/ Interdisciplinary Linkages
Topic: The Third Level No. of Periods: 05	Understanding the Genre Literary appreciation Central Idea Plot, Protagonists, Characters	<ul style="list-style-type: none"> • Assignment on The Third Level • Discussion of Scoring Points/Marking Scheme/Sample Questions 	Short review/ dramatization of the story	Time Travel & Escapism
Topic: Writing Section No. of Periods: 04	Article Writing, Report Writing	<ul style="list-style-type: none"> • Assignment on Articles & Reports • Discussion of Scoring Points/Marking Scheme/Sample Questions 	Express opinions, facts & arguments	Freedom of speech & clarity of thoughts.
		PERIODIC TEST - 1		
August Topic: Poets & Pancakes No. of Periods: 05	Understanding the Genre Literary appreciation Central Idea Plot, Protagonists, Characters	<ul style="list-style-type: none"> • Assignment on Poets & Pancakes • Discussion of Scoring Points/Marking Scheme/Sample Questions 	Critical evaluation of the plot, storyline and characters	Knowledge about cosmetics & film industry.
Topic: A Thing of Beauty No. of Periods: 05	Poetic Appreciation Rhyme Scheme Poetic Devices Central Idea	<ul style="list-style-type: none"> • Assignment on A Thing of Beauty • Discussion of Scoring Points/Marking Scheme/Sample Questions 	Appreciating the idea conveyed through the poem.	Beauty and its different forms. Worldly attachment & its consequences.
Topic: The Interview No. of Periods: 05	Understanding the Genre Literary appreciation Central Idea Plot, Protagonists, Characters	<ul style="list-style-type: none"> • Assignment on The Interview • Discussion of Scoring Points/Marking Scheme/Sample Questions 	Group and pair activities like group discussion etc.	Different career skills.
Topic: Journey to the end of the Earth No. of Periods: 05	Understanding the Genre Literary appreciation Central Idea Plot, Protagonists, Characters	<ul style="list-style-type: none"> • Assignment on Journey to the end of the Earth • Discussion of Scoring Points/Marking Scheme/Sample Questions 	Commentary on the characters.	Geological history of the world.
Topic: Writing Section No. of Periods: 04	Speech, Debate	<ul style="list-style-type: none"> • Assignment on Speech & Debate • Discussion of Scoring Points/Marking Scheme/Sample Questions 	Express opinions, facts, arguments in the form a speech or debates	Freedom of expression & clarity of thoughts.

Month Topic	Theme/Audio Visual Inputs	Assignment /Discussion	Listening, Speaking, Reading and Writing Skills	Core Skills/Art Integration/ Interdisciplinary Linkages
September Topic: Going Places No. of Periods: 05	Understanding the Genre Literary appreciation Central Idea Plot, Protagonists, Characters	<ul style="list-style-type: none"> • Assignment on Going Places • Discussion of Scoring Points/Marking Scheme/Sample Questions 	Role playing as authors/ poets/ dramatists to defend their works and characters	Fantasies of adolescence versus Reality of life.
TERM- I EXAMINATION AND ASL				
October Topic: A Roadside Stand No. of Periods: 05	Poetic Appreciation Rhyme Scheme Poetic Devices Central Idea	<ul style="list-style-type: none"> • Assignment on A Roadside Stand • Discussion of Scoring Points/Marking Scheme/Sample Questions 	Discussion of the theme conveyed by the poet	Social inequality.
Topic: Should Wizard Hit Mommy No. of Periods: 05	Understanding the Genre Literary appreciation Central Idea Plot, Protagonists, Characters	<ul style="list-style-type: none"> • Assignment on Should Wizard Hit Mommy • Discussion of Scoring Points/Marking Scheme/Sample Questions 	Commentary on the characters	Issues of parenting. Perspective of an adult.
Topic: On the face of it No. of Periods: 05	Understanding the Genre Literary appreciation Central Idea Plot, Protagonists, Characters	<ul style="list-style-type: none"> • Assignment on On the face of it • Discussion of Scoring Points/Marking Scheme/Sample Questions 	Dramatizing incidents from the story	Problems associated with the physical disability.
Topic: Writing Section No. of Periods: 04	Application Writing, Invitation	<ul style="list-style-type: none"> • Assignment on Application & Invitation • Discussion of Scoring Points/Marking Scheme/Sample Questions 	Write applications, fill in application forms, prepare a personal bio-data for admission into colleges, universities, entrance tests and jobs	Freedom of expression & clarity of thoughts.
November Topic: Evans Tries an O-Level No. of Periods: 05	Understanding the Genre Literary appreciation Central Idea Plot, Protagonists, Characters	<ul style="list-style-type: none"> • Assignment on Evans Tries an O-Level • Discussion of Scoring Points/Marking Scheme/Sample Questions 	Short review/ dramatization of the story	Life in a prison.

Month Topic	Theme/Audio Visual Inputs	Assignment /Discussion	Listening, Speaking, Reading and Writing Skills	Core Skills/Art Integration/ Interdisciplinary Linkages
Topic: Aunt Jennifer's Tigers No. of Periods: 05	Poetic Appreciation Rhyme Scheme Poetic Devices Central Idea	<ul style="list-style-type: none"> • Assignment on Aunt Jennifer's Tigers • Discussion of Scoring Points/Marking Scheme/Sample Questions 	Extrapolating the theme conveyed by the poet	Male chauvinism. Women empowerment.
Topic: Memories of Childhood No. of Periods: 05	Understanding the Genre Literary appreciation Central Idea Plot, Protagonists, Characters	<ul style="list-style-type: none"> • Assignment on: Memories of Childhood • Discussion of Scoring Points/Marking Scheme/Sample Questions 	Making an audio story out of the text to be read aloud	Racial discrimination & caste discrimination.
Topic: The Enemy No. of Periods: 05	Understanding the Genre Literary appreciation Central Idea Plot, Protagonists, Characters	<ul style="list-style-type: none"> • Assignment on: The Enemy • Discussion of Scoring Points/Marking Scheme/Sample Questions 	Critical evaluation of the plot, storyline and characters	Ethics of medical profession. Power of peace, love & humanism.
Topic: Writing Section No. of Periods: 04	Poster Making	<ul style="list-style-type: none"> • Assignment on: Poster Making • Discussion of Scoring Points/Marking Scheme/Sample Questions 	Develop writing skills & creativity in students.	Freedom of expression & clarity of thoughts.
	PERIODIC TEST - 2			
December	REVISION & Mock Test			
January	REVISION & Mock Test			
February	REVISION & Mock Test			
March	ANNUAL EXAMINATION			

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. The world population distribution , density and growth 5. Primary Actives	<ul style="list-style-type: none"> • Patterns of Populations distribution in the world • Populations growth • Migration • Demographic transition • Different agriculture • Mining 	<ul style="list-style-type: none"> • Video on Populations growth and • Demographic transition 	<ul style="list-style-type: none"> • Assignment To collect pictures of primary actives • Discussion of Scoring Points/ Marking Scheme/ Sample Questions 	a) To understand human geography b) To learn about trend & populations c) Basic knowledge of census d) To learn about family planning awareness e) Know about production, economic condition
June Topic: 3. Population Composition	<ul style="list-style-type: none"> • Sex composition • Age- Sex Pyramid • Rural- Urban Composition, Literacy, Occupation structure • Manufacturing 	Video on Chat models on Secondary Actives	<ul style="list-style-type: none"> • Assignment to make a flow chat different type of work • Discussion of Scoring Points/Marking Scheme/Sample Questions 	a) To understand the ratio of male & female which is most important. b) Classification of Work
July Topic: 3. Population compositing 4. Human development 6. Secondary Actives 7. Tertiary & Quaternary Activities	<ul style="list-style-type: none"> • Literacy, Occupational structure • Growth & development • Four pillars of knowledge • Approaches to human development • International comparisons • Classification of Industries • Type of tertiary Actives, trade & communication, retail trading • Quaternary Actives, Quandary actives, Digital device 	Audio, Video clip on Human development & Secondary Actives	<ul style="list-style-type: none"> • Assignment map work on Industries • Discussion of Scoring Points/ Marking Scheme/ Sample Questions 	<ul style="list-style-type: none"> • To know about economic condition • Contrives development • To learn about human development • Social welding to know about human development index • Industrial condition of different countries
• PERIODIC TEST - 1				

Month Topic	Sub Topic	Activities/ Audio Visual Inputs	Assignment / Discussion / Project	Learning Outcomes After the completion of this chapter, students will be able to-
August Topic: 10. Human Settlement 8. Transport & Communication 9. International Tread 1. Practical work 2. data Its source and complication	<ul style="list-style-type: none"> • Classification of Rural, Settlement • Types & pattern of Settlement • Urban settlement, Function, occupations. Types Migrations, Megacity, Problem of Settlement • Different type of transport • Trams- continental, Railway, Water transport. • Historical of trade, Basis of trade .imports aspect type regional trade block, WTO, different port • General Rules for driving graphs, diagram, and map • Construction of diagram- line, bar diagram • Data source 	Video on Transport & Communication Video on Panama canal	<ul style="list-style-type: none"> • Assignment map work of important rail, air sea route and megacities 	a) To learn about our settlement pattern type b) How urban settlement formed. c) What is the social- economic conditions? d) Transport route , interline with and then country, communication e) To learn about countries development by trade Development countries condition f) to create practical base knowledge g) to learn about different type of data
September Topic: Practical Representation on data Data Processing	<ul style="list-style-type: none"> • Pie diagram, flow diagram, dot map • Isopleth map & corporate map • Computing Graph & ungroup data • Mean, median, mode co- efferent of variation 	Showing chat of pica- diagram, flow diagram and video clip on data processing	<ul style="list-style-type: none"> • Assignment calculate mean, median ,mode • Draw flow diagram and pica diagram • Discussion of Scoring Points/ Marking Scheme/ Sample Questions 	a) To understand the basic different between diagram b) To learn how to create proper class by the data
TERM- I EXAMINATION				

Month Topic	Sub Topic	Activities/ Audio Visual Inputs	Assignment / Discussion / Project	Learning Outcomes After the completion of this chapter, students will be able to-
October Topic: Part-II 1. Population distribution, density 2. Migration type, cause & Consequences 3. Mineral & energy resource 4. Manufacturing industries	<ul style="list-style-type: none"> • Distribution of population, Density Growth Regional variation in population growth, population composition, working population • Streams of migration course • Type of mineral resource, distribution of India • Type of industries, tern & steel industries LPG 	Video on Population distribution, density & Manufacturing industries	<ul style="list-style-type: none"> • Assignment make chart on Mineral & energy resource • Discussion of Scoring Points/ Marking Scheme/ Sample Questions 	a) To understand the population explosion in India, effect b) To Understand the male female ratio c) Recognize the need of mineral d) To learn mineral is important for countries development e) Important of secondary actives to link with other countries
November Topic: 5. Land resource and agriculture 6. water resource 9. Planning and sustainable development in India 10. transport & commination	<ul style="list-style-type: none"> • Land use categories, land use in India CPR, type of forming agricultural development in India, Problem in agricultural • Water resource in India, Deterioration of water quality, water shed management, rainwater harvest • Over view of planning in India, case study- sustainable development. • Different type of transport, communication 	Audio & Video clip on Land resource and agriculture Video on Indira Gandhi canal	<ul style="list-style-type: none"> • Assignment on water resource (water shed management, rainwater harvest) • Discussion of Scoring Points/ Marking Scheme/ Sample Questions 	<ul style="list-style-type: none"> • Create thinking power why land is important in India. • Importance of Water in our life • To understand how to plan for India • What is the right method • Importance of transport, communication
PERIODIC TEST - 2				

December Topic: 3.Human Development 4. human Settlement 11. International Trade 12. geographical Perspective On settlement Practical work: Field survey	<ul style="list-style-type: none"> • What is human development, human development of India, Human Development index • Type of rural settlement, urban settlement Evolution of town in India, classification of town • Charging pattern of the composition of India's Exports, gate way of International Trade • Environmental population water, air , Noise, urban, waste Migration, land degradation, case study • Field visit and study, household survey. 	Audio &Video clip on human Settlement	<ul style="list-style-type: none"> • Assignment making modal of rural & urban settlement • Discussion of Scoring Points/ Marking Scheme/ Sample Questions 	<ul style="list-style-type: none"> • How to develop, how to grow, why peoples development are Important • To gain knowledge about house type in different part of our India • To learn the important of India export for any countries , port system • It create awareness about our environment
January	REVISION & MOCK TEST			
February	REVISION & MOCK TEST			
March	ANNUAL 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: Challenges of Nation-Building No. of Periods: 13	<ul style="list-style-type: none"> Nehru's approach to nation-building; Legacy of partition: challenge of 'refugee' resettlement, the Kashmir problem. Organization and reorganization of states; Political conflicts over language. 	Video: <ul style="list-style-type: none"> Partition– 'The Day India Burned'. Tryst with Destiny by Pandit Nehru. Epitome of a Republic-1st elections in independent India The Great Experiment Samvidhaan 	<ul style="list-style-type: none"> Assignment <ul style="list-style-type: none"> Challenges of Nation-Building on Era of One-Party Dominance Cold War Era Discussion of Scoring Points/Marking Scheme/Sample Questions Timeline / Concept Mapping Project <ul style="list-style-type: none"> Topic Selection 	<ul style="list-style-type: none"> Core Skills Problem Solving, Decision Making, Self-Awareness, Dealing with Stress Art Integration 'Let's Research' Stories of Partition Interdisciplinary Linkages History, Psychology
Topic: Era of One-Party Dominance No. of Periods: 12	<ul style="list-style-type: none"> First three general elections, nature of Congress dominance at the national level, uneven dominance at the state level, coalitional nature of Congress. Major opposition parties. 	Video: <ul style="list-style-type: none"> History of the Indian National Congress 		<ul style="list-style-type: none"> Core Skills Decision Making Art Integration Make a chart of elections and governments in your State since 1952. Interdisciplinary Linkages History
Topic: Cold War Era No. of Periods: 14	<ul style="list-style-type: none"> Emergence of two power blocs after the Second World War. Arenas of the cold war. Challenges to Bipolarity: Non Aligned Movement, quest for new international economic order. India and the cold war. 	Video: <ul style="list-style-type: none"> Cold War-Documentary on Berlin, Korea, Cuba and Vietnam. Cold War in 9 Minutes HD The history of the Cuban Missile Crisis. 		<ul style="list-style-type: none"> Core Skills Problem Solving, Decision Making, Critical Thinking Art Integration Event Profile presentation in the class. Interdisciplinary Linkages History

Month Topic	Sub Topic	Audio Visual Inputs	Miscellaneous	Core Skills/Art Integration/ Interdisciplinary Linkages
June Topic: The End of Bipolarity No. of Periods: 10	<ul style="list-style-type: none"> • New entities in world politics: Russia, Balkan states and Central Asian states. • Introduction of democratic politics and capitalism in post-communist regimes. • India's relations with Russia and other post-communist countries 	Video: <ul style="list-style-type: none"> • Collapse of Soviet Union. Discovery Channel End of the USSR Part 1 • India Russia- Friends Forever 	<ul style="list-style-type: none"> • Assignment <ul style="list-style-type: none"> ○ The End of Bipolarity ○ US Hegemony in World Politics ○ Politics of Planned Development ○ Alternative Centre's of Power 	Core Skills Problem Solving, Decision Making, Critical Thinking • Art Integration <ul style="list-style-type: none"> ○ Group presentation • Interdisciplinary Linkages History, Economics
Topic: US Hegemony in World Politics No. of Periods: 13	<ul style="list-style-type: none"> • Growth of unilateralism: Afghanistan, first Gulf War, response to 9/11 and attack on Iraq. • Dominance and challenge to the US in economy and ideology. • India's renegotiation of its relationship with USA. 	Video: <ul style="list-style-type: none"> • 9/11 attack on U.S.A. • The US invasion on Iraq. • Special Report - Indo-US relations (1) 	<ul style="list-style-type: none"> • Discussion of Scoring Points/Marking Scheme/Sample Questions • Timeline / Concept Mapping • Project: Research 	Core Skills Interpersonal relationship, Critical Thinking • Art Integration <ul style="list-style-type: none"> ○ Each group is to present their fact-file before the class. • Interdisciplinary Linkages History, Economics
Topic: Politics of Planned Development No. of Periods: 11	<ul style="list-style-type: none"> • Five year plans, expansion of state sector and the rise of new economic interests. • Famine and suspension of five year plans. • Green Revolution and its political fallouts. 	Video: <ul style="list-style-type: none"> • Green Revolution. • Five Year Plans • Bipin Chandra -India Since Independence - Land Reforms Part 2 - Bhoodan Movement 		• Core Skills Problem Solving, Decision Making, Critical Thinking • Art Integration <ul style="list-style-type: none"> ○ Let's re-search Visit to ration shop • Interdisciplinary Linkages History, Economics
Topic: Alternative Centre's of	<ul style="list-style-type: none"> • Rise of China as an economic power in post-Mao era, creation and expansion of European Union, ASEAN. 	Video <ul style="list-style-type: none"> • Benefits and Opportunities of Regional Cooperation in 		• Core Skills Interpersonal relationship, Decision Making, Critical Thinking

Month Topic	Sub Topic	Audio Visual Inputs	Miscellaneous	Core Skills/Art Integration/ Interdisciplinary Linkages
Power No. of Periods:11	<ul style="list-style-type: none">India’s changing relations with China.	<p>South Asia</p> <ul style="list-style-type: none">Red Dragon Rising- China to overtake US as top economic superpower.Seven unresolved disputes- India and China.	<ul style="list-style-type: none">Assignment<ul style="list-style-type: none">Contemporary South Asia in the Post-Cold War EraInternational Organizations -role of international organization on world peaceDiscussion of Scoring Points/Marking Scheme/Sample QuestionsTimeline / Concept MappingProject: ResearchImportance of SAARC	<ul style="list-style-type: none">Art Integration<ul style="list-style-type: none">Each group is to present their fact-file before the class EU, ASEAN and SAARCInterdisciplinary Linkages<ul style="list-style-type: none">History, Economics
July Topic: Contemporary South Asia in the Post-Cold War Era No. of Periods: 13	<ul style="list-style-type: none">Democratisation in Pakistan and Nepal.Ethnic conflict in Sri Lanka, Impact of economic globalization on the region.Conflicts and efforts for peace in South Asia.India’s relation with its neighbours.	<p>Video</p> <ul style="list-style-type: none">Development in Pakistan, Nepal and Sri Lanka.Benefits and Opportunities of Regional Cooperation in South Asia		<ul style="list-style-type: none">Core Skills<ul style="list-style-type: none">Decision Making, Critical Thinking, Interpersonal relationshipArt Integration<ul style="list-style-type: none">Role play on the countries of South AsiaInterdisciplinary Linkages<ul style="list-style-type: none">History, Economics
Topic: International Organizations No. of Periods: 13	<ul style="list-style-type: none">Restructuring and the future of the UN.India’s position in the restructured UN.Rise of new international actors: new international economic organizations, NGOs.How democratic and accountable are the new institutions of global governance?	<p>Video</p> <ul style="list-style-type: none">United Nations Security Council - Lex Animata - He sham ElrafeiWhat is United Nations and what does it Do- Mini Documentary.India will become permanent member of united nations security council.India and the UN		<ul style="list-style-type: none">Core Skills Problem Solving, Decision Making, Critical Thinking, Interpersonal relationshipArt Integration<ul style="list-style-type: none">Group PresentationInterdisciplinary LinkagesHistory, Economics
PERIODIC TEST - 1				<ul style="list-style-type: none">

Month Topic	Sub Topic	Audio Visual Inputs	Miscellaneous	Core Skills/Art Integration/ Interdisciplinary Linkages
August Topic: India's External Relations No. of Periods: 13	<ul style="list-style-type: none"> Nehru's foreign policy. Sino-Indian war of 1962, Indo-Pak war of 1965 and 1971. India's nuclear programme. Shifting alliance in world politics. 	Video <ul style="list-style-type: none"> Clippings from the movie 'Haqeequat' Based on Indo China war. Clippings from the movie – 'Lakshay'. Based on Kargil Conflict. Indo Pak stance on Kashmir Issue 	<ul style="list-style-type: none"> Assignment <ul style="list-style-type: none"> India's External Relations Challenges to the Congress System 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, Decision Making, Interpersonal relationship, Problem Solving, Dealing with stress Art Integration <ul style="list-style-type: none"> Make a cartoon Interdisciplinary Linkages <ul style="list-style-type: none"> History, Economics
Topic: Challenges to the Congress System No. of Periods: 13	<ul style="list-style-type: none"> Political succession after Nehru. Non-Congresses and electoral upset of 1967, Congress split and reconstitution, Congress' victory in 1971 elections, politics of 'garibi hatao' 	<ul style="list-style-type: none"> Video on Congress split and reconstitution, 		<ul style="list-style-type: none"> Core Skills <ul style="list-style-type: none"> Problem Solving, Decision Making, Critical Thinking Art Integration <ul style="list-style-type: none"> Make a list of slogans coined by political parties Interdisciplinary Linkages <ul style="list-style-type: none"> History, Economics
September Topic: Crisis of the Democratic Order No. of Periods: 13	<ul style="list-style-type: none"> Search for 'committed' bureaucracy and judiciary. Navnirman movement in Gujarat and the Bihar movement. Emergency: context, constitutional and extra-constitutional dimensions, resistance to emergency. 1977 elections and the formation of Janata Party. Rise of civil liberties organizations. 	Video <ul style="list-style-type: none"> The Emergency- Darkest era of independent India. 	<ul style="list-style-type: none"> Assignment <ul style="list-style-type: none"> Crisis of the Democratic Order Impact of emergency on Indian democracy Discussion of Scoring Points/ Marking Scheme/ Sample Questions Timeline / Concept Mapping Project: First Draft 	<ul style="list-style-type: none"> Core Skills <ul style="list-style-type: none"> Critical Thinking, Decision Making, Problem Solving Interdisciplinary Linkages <ul style="list-style-type: none"> History, Economics

Month Topic	Sub Topic	Audio Visual Inputs	Miscellaneous	Core Skills/Art Integration/ Interdisciplinary Linkages
Topic: Rise of Popular Movements in India No. of Periods: 11	<ul style="list-style-type: none">• Farmers’ movements, Women’smovement, Environment and Development-affected people’s movements.• Implementation of Mandal Commission report and its aftermath.	Video <ul style="list-style-type: none">• Chipko movement and Narmada Bachaoo Andolan	<ul style="list-style-type: none">• Assignment<ul style="list-style-type: none">○ Popular Movements in India○ Security in Contemporary World○ Environment and Natural Resources○ Globalization and its impact on Indian politics.• Discussion of Scoring Points/ Marking Scheme/ Sample Questions• Timeline / Concept Mapping• Project: Presentation Environmental concerns in global politics	<ul style="list-style-type: none">• Core Skills<ul style="list-style-type: none">○ Critical Thinking, Decision Making, Problem Solving, Managing Emotions• Interdisciplinary Linkages<ul style="list-style-type: none">○ History, Economics and Geography
TERM- I EXAMINATION				•
October Topic: Security in Contemporary World No. of Periods: 11	<ul style="list-style-type: none">• Traditional concerns of security and politics of disarmament.• Non-traditional or human security: global poverty, health and education.• Issues of human rights and migration.	Video <ul style="list-style-type: none">• Human security.• Climate change as a non-traditional security treat.		<ul style="list-style-type: none">• Core Skills<ul style="list-style-type: none">○ Critical Thinking, Decision Making, Problem Solving, Interpersonal relationship• Art Integration<ul style="list-style-type: none">○ Skit• Interdisciplinary Linkages<ul style="list-style-type: none">○ History, Biology, Economics
Topic: Environment and Natural Resources No. of Periods: 11	<ul style="list-style-type: none">• Environment movement and evolution of global environmental norms.• Conflicts over traditional and common property resources.• Rights of indigenous people. India’s stand in global environmental debates.	Video <ul style="list-style-type: none">• Rio 20 – The Future we want• UNEP - What we do		<ul style="list-style-type: none">• Core Skills<ul style="list-style-type: none">○ Empathy, Critical Thinking, Problem Solving• Art Integration<ul style="list-style-type: none">○ Make the poster on conservation of resources• Interdisciplinary Linkages<ul style="list-style-type: none">○ History, Economics, Geography and Science
Topic: Globalization No. of Periods: 11	<ul style="list-style-type: none">• Economic, cultural and political manifestations.• Debates on the nature of consequences of globalization.• Anti-globalization movements.• India as an arena of globalization and struggle against it.	Video <ul style="list-style-type: none">• *WTO		<ul style="list-style-type: none">• Core Skills<ul style="list-style-type: none">○ Critical Thinking, Decision Making, Interpersonal relationship, Problem Solving• Interdisciplinary Linkages<ul style="list-style-type: none">○ History, Economics

Month Topic	Sub Topic	Audio Visual Inputs	Miscellaneous	Core Skills/Art Integration/ Interdisciplinary Linkages
November Topic: Regional Aspirations No. of Periods: 11	<ul style="list-style-type: none"> • Rise of regional parties. Punjab crisis and the anti-Sikh riots of 1984. • The Kashmir situation. • Challenges and responses in the North East. 	Video <ul style="list-style-type: none"> • Talks about the Kashmir crisis • Operation Blue star in 1984 • Insurgency of ULFA in Assam • Clippings showing agitation by mizo national front. 	<ul style="list-style-type: none"> • Assignment <ul style="list-style-type: none"> ○ Regional Aspirations ○ Recent Developments in Indian Politics • Discussion of Scoring Points/ Marking Scheme/ Sample Questions • Timeline / Concept Mapping • Project: Final Submission • Regional demands are linked with unity with diversities. 	<ul style="list-style-type: none"> • Core Skills <ul style="list-style-type: none"> ○ Critical Thinking, Decision Making, Interpersonal relationship, Problem Solving • Interdisciplinary Linkages <ul style="list-style-type: none"> ○ History, Economics
Topic: Recent Developments in Indian Politics No. of Periods: 11	<ul style="list-style-type: none"> • Participatory upsurge in 1990s. • Rise of the JD and the BJP. Increasing role of regional parties and coalition politics. • Coalition governments: NDA (1998-2004) UPA (2004-2014) NDS (2014 onwards) 	Video <ul style="list-style-type: none"> • The advent of coalition era in Indian politics. Mandal Commission and the fall of V.P Singh Government. • Adhoya issue 	<ul style="list-style-type: none"> • Regional demands are linked with unity with diversities. 	<ul style="list-style-type: none"> • Core Skills <ul style="list-style-type: none"> ○ Critical Thinking, Decision Making, Problem Solving • Art Integration <ul style="list-style-type: none"> ○ Let's re-search • Interdisciplinary Linkages <ul style="list-style-type: none"> ○ History, Economics
PERIODIC TEST - 2				
December	REVISION & MOCK TEST			
January	REVISION & MOCK TEST			
February	REVISION & MOCK TEST			
March	ANNUAL EXAMINATION			

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

Month Topic	Sub Topic	Audio Visual Inputs	Practical	Miscellaneous
May Topic: Planning in Sports No. of periods:2 0	<ul style="list-style-type: none"> ➤ Meaning & Objectives of Planning ➤ Various Committees & its Responsibilities (pre; during & post) ➤ Tournament – Knock-Out, League Or Round Robin & Combination ➤ Procedure to Draw Fixtures – Knock-Out (Bye & Seeding) & League (Staircase & Cyclic) ➤ Intramural & Extramural – Meaning, Objectives & Its Significance ➤ Specific Sports Programme (Sports Day, Health Run, Run For Fun, Run For Specific Cause & Run For Unity) 	Video on Knock out & League tournament. Specific sports Programme.	Modified AAHPER administratio n for all items	<ul style="list-style-type: none"> • Assignment • Discussion of Scoring Points/ Marking Scheme/ Sample Questions
Topic: Sports & Nutrition No. of periods:1 2	<ul style="list-style-type: none"> ➤ Balanced Diet & Nutrition: Macro & Micro Nutrients ➤ Nutritive & Non-Nutritive Components of Diet ➤ Eating for Weight Control – A Healthy Weight, The Pitfalls of Dieting, Food Intolerance & Food Myths 	Video on Balanced Diet	Pull-ups(For Boys) And Flexed arm hang(for girls)	
Topic: Yoga & Lifestyle No. of periods:14	<ul style="list-style-type: none"> ➤ Asanas as preventive measures ➤ Obesity: Procedure, Benefits & contraindications for Vajrasana, Hastasana, Trikonasana, Ardh Matsyendrasana ➤ Diabetes: Procedure, Benefits & contraindications for Bhujangasana, Paschimottasana, Pavan Muktasana, Ardh Matsyendrasana ➤ Asthema: Procedure, Benefits & contraindications for Sukhasana, Chakrasana, Gomukhasana, Parvatasana, Bhujangasana, Paschimottasana, Matsyasana ➤ Hypertension: Tadasana, Vajrasana, Pavan Muktasana, ArdhaChakrasana, Bhujangasana, Sharasana ➤ Back Pain: Tadasana, Ardh Matsyendrasana, Vakrasana, Shalabhasana, Bhujangasan 	Video on Procedure, Benefits on yoga with lifetime disease	Flexed –leg sit-ups And Shuttle run	

Month Topic	Sub Topic	Audio Visual Inputs	Practical	Miscellaneous
Topic: Physical Education & Sports for CWSN (Children With Special Needs - Divyang) No. of periods:12	<ul style="list-style-type: none"> ➤ Concept of Disability & Disorder ➤ Types of Disability, its causes & nature (cognitive disability, intellectual disability, physical disability) ➤ Types of Disorder, its cause & nature (ADHD, SPD, ASD, ODD, OCD) Disability Etiquettes ➤ Advantage of Physical Activities for children with special needs ➤ Strategies to make Physical Activities assessable for children with special need 	Video on Differentiations Between Disability & Disorder	Standing long jump And 50-Yard dash	<ul style="list-style-type: none"> • Assignment • Discussion of Scoring Points/ Marking Scheme/ Sample Questions
June Topic: Children & Women in Sports No. of periods:15	<ul style="list-style-type: none"> ➤ Motor development & factors affecting it ➤ Exercise Guidelines at different stages of growth & Development ➤ Common Postural Deformities - Knock Knee; Flat Foot; Round Shoulders; Lordosis, Kyphosis, Bow Legs and Scoliosis and their corrective measures ➤ Sports participation of women in India ➤ Special consideration (Menarch & Menstrual Disfunction) ➤ Female Athletes Triad (Oestoperosis, Amenoria, Eating Disorders) 	Video on Common Postural deformities in children	600-yard run and walk	<ul style="list-style-type: none"> • Assignment • Discussion of Scoring Points/ Marking Scheme/ Sample Questions
Topic Test & Measurement in Sports No. of periods:15	<ul style="list-style-type: none"> ➤ Motor Fitness Test – 50 M Standing Start, 600 M Run/Walk, Sit & Reach, Partial Curl Up, Push Ups (Boys), Modified Push Ups (Girls), Standing Broad Jump, Agility – 4x10 M Shuttle Run ➤ General Motor Fitness – Barrow three item general motor ability (Standing Broad Jump, Zig Zag Run, Medicine Ball Put – For Boys: 03 Kg & For Girls: 01 Kg) ➤ Measurement of Cardio Vascular Fitness – Harvard Step Test/Rockport Test - Computation of Fitness Index: Duration of the Exercise in Seconds x 100 5.5 x Pulse count of 1-1.5 Min after Exercise ➤ Rikli & Jones - Senior Citizen Fitness Test <ol style="list-style-type: none"> 1. Chair Stand Test for lower body strength 2. Arm Curl Test for upper body strength 3. Chair Sit & Reach Test for lower body flexibility 4. Back Scratch Test for upper body flexibility 5. Eight Foot Up & Go Test for agility 6. Six Minute Walk Test for Aerobic Endurance 	Video on Test & Measurement	Procedure for Asanas, Benefits & Contra-indication for any two Asanas for each lifestyle disease	<ul style="list-style-type: none"> • Assignment • Discussion of Scoring Points/ Marking Scheme/ Sample Questions

Month Topic	Sub Topic	Audio Visual Inputs	Practical	Miscellaneous
July Topic: Physiology & Injuries in Sports No. of periods:20	<ul style="list-style-type: none">➤ Physiological factor determining component of Physical Fitness➤ Effect of exercise on Cardio Respiratory System➤ Effect of exercise on Muscular System➤ Physiological changes due to ageing➤ Sports injuries: Classification (Soft Tissue Injuries:(Abrasion, Contusion, Laceration, Incision, Sprain & Strain) Bone & Joint Injuries: (Dislocation, Fractures: Stress Fracture, Green Stick, Communated, Transverse Oblique & Impacted) Causes, Prevention & treatment➤ First Aid – Aims & Objectives	Video on Sports injuries	Conduct barrow 3 item test on 10 students	<ul style="list-style-type: none">• Assignment• Discussion of Scoring Points/ Marking Scheme/ Sample Questions
	PERIODIC TEST - 1			<ul style="list-style-type: none">•
August Topic: Biomechanics & Sports No. of periods:16	<ul style="list-style-type: none">➤ Meaning and Importance of Biomechanics in Sports➤ Types of movements (Flexion, Extension, Abduction & Adduction)➤ Newton’s Law of Motion & its application in sports➤ Friction & Sports	Video on Components of biomechanics	Procedure for administering Senior Citizen Fitness Test for 5 elderly family members.	<ul style="list-style-type: none">• Assignment• Discussion of Scoring Points/ Marking Scheme/ Sample Questions
September Topic: Psychology & Sports No. of periods:16	<ul style="list-style-type: none">➤ Personality; its definition & types – Trait & Types (Sheldon & Jung Classification) & Big Five Theory➤ Motivation, its type & techniques➤ Exercise Adherence; Reasons to Exercise, Benefits of Exercise➤ Strategies for Enhancing Adherence to Exercise➤ Meaning, Concept & Types of Aggressions in Sports	Video on Big five theory, Aggressions in sports	Any one game of your choice out of the list above. Labelled diagram of field & equipment (Rules, Terminologies & Skills).	<ul style="list-style-type: none">• Assignment• Discussion of Scoring Points/ Marking Scheme/ Sample Questions
	TERM- I EXAMINATION			
October Topic: Training in Sports	<ul style="list-style-type: none">➤ Strength – Definition, types & methods of improving Strength – Isometric, Isotonic & Isokinetic➤ Endurance - Definition, types & methods to develop Endurance – Continuous Training, Interval Training & Fartlek Training	Video on all types of sports training	Volley ball – fundamental skills: service, passing and placing, spicking, boosting, blocking.	

Month Topic	Sub Topic	Audio Visual Inputs	Practical	Miscellaneous
Topic: Training in Sports No. of periods:13	➤ Speed – Definition, types & methods to develop Speed – Acceleration Run & Pace Run ➤ Flexibility – Definition, types & methods to improve flexibility ➤ Coordinative Abilities – Definition & types ➤ Circuit Training - Introduction & its importance	Video on all types of sports training	Football: fundamental skills, kicking, ball control, dribbling, tackling, trapping, passing.	<ul style="list-style-type: none"> • Assignment • Discussion of Scoring Points/ Marking Scheme/ Sample Questions
November	PERIODIC TEST – 2			
December	REVISION & MOCK TEST			
January	REVISION & MOCK TEST			
February	REVISION & MOCK TEST			
March	ANNUAL EXAMINATION			

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

Month/Topic	Theory	Practical/Project	Miscellaneous
May Topic: Working with Numpy No. of Periods: 30	<ul style="list-style-type: none"> ➤ Numpy Arrays ➤ Creating Numpy Arrays ➤ Working with Numpy Arrays ➤ Application of Numpy Arrays 	<ul style="list-style-type: none"> • Creation of numpy arrays • Manipulating Numpy array elements • Use of inbuilt functions available in Numpy arrays 	<ul style="list-style-type: none"> • Assignment Python Programming <ul style="list-style-type: none"> • Discussion of Scoring Points/ Marking Scheme/ Sample Questions • Core Skills Problem solving Critical thinking Creative thinking Decision making Empathy <ul style="list-style-type: none"> • Self-awareness
June Topic: Python Pandas No. of Periods: 45	<ul style="list-style-type: none"> ➤ Descriptive Statistics with Pandas ➤ Advanced operations on Data frame ➤ Creating Histogram ➤ Function Application ➤ Reindexing and altering labels 	<ul style="list-style-type: none"> • Use of pandas statistics functions in program • Applying Pivoting, Sorting and Aggregation techniques • Program to create histogram from data frame's data • Use of pipe(), apply map(), group by() etc. 	<ul style="list-style-type: none"> • Assignment Python Programming <ul style="list-style-type: none"> • Discussion of Scoring Points/ Marking Scheme/ Sample Questions • Core Skills Problem solving Critical thinking Creative thinking Decision making Empathy <ul style="list-style-type: none"> • Self-awareness

Month/Topic	Theory	Practical/Project	Miscellaneous
July Topic: Plotting with Pyplot-I and II No. of Periods: 45	<ul style="list-style-type: none"> ➤ Pyplot of matplotlib library ➤ Creating bar chart, line chart ➤ Customizing the plot ➤ Creating histograms with Pyplot ➤ Creating frequency Polygons ➤ Creating Box Plots 	<ul style="list-style-type: none"> • Working with pyplot methods • Line chart using plot function • Creating multiple bar charts • Adding a title, labels, legends into a chart • Creation of histograms • Creation of box plots 	<ul style="list-style-type: none"> • Assignment • Python Programming • Discussion of Scoring Points/ Marking Scheme/ Sample Questions • Core Skills Problem solving Critical thinking Creative thinking Decision making Empathy • Self-awareness
August Topic: Introduction to Software Engineering No. of Periods: 20	<ul style="list-style-type: none"> ➤ Definition of S/W engineering ➤ Software process activities ➤ Software process models ➤ Delivery models 		Assignment: selective questions from the chapter <ul style="list-style-type: none"> • Discussion of Scoring Points/ Marking Scheme/ Sample Questions
September Topic: Agile methods and practical aspects of software engineering No. of Periods: 15	<ul style="list-style-type: none"> ➤ Pair programming ➤ Scrum ➤ Version control systems ➤ Business use-case Diagrams 	<ul style="list-style-type: none"> • GIT and do case studies of software systems and build use-case diagrams • Pair programming 	Assignment: selective questions from the chapter <ul style="list-style-type: none"> • Discussion of Scoring Points/ Marking Scheme/ Sample Questions Business Use-case diagram
September	Term-I Examination		

Month/Topic	Theory	Practical/Project	Miscellaneous																								
October No. of periods: 30 Topic: MySQL revision Tour, SQL	<ul style="list-style-type: none"> • Introduction to database concepts and its need. • Relational data model: Concept of domain, tuple, relation, key, primary key, alternate key, candidate key. • Relational algebra: Selection, Projection, Union and Cartesian product • General Concepts: Advantages of using SQL, DDL and DML • Data Types: Number/Decimal, Character/ Varchar/ Varchar2, Date • SQL Commands: Create Table, Drop Table, Alter Table 	Write SQL commands for the following: 1. Create following table: items with Itemno as primary key. Iname should not be blank. <table> <tr> <th>Itemno</th><th>Iname</th><th>Price</th><th>Quantity</th></tr> <tr> <td>101</td><td>Soap</td><td>50</td><td>100</td></tr> <tr> <td>102</td><td>Powder</td><td>100</td><td>50</td></tr> <tr> <td>103</td><td>Cream</td><td>150</td><td>25</td></tr> <tr> <td>104</td><td>Pen</td><td>50</td><td>200</td></tr> <tr> <td>105</td><td>Soap box</td><td>20</td><td>100</td></tr> </table> 2. add a column date_purchase of type 'date' 3. change the width of Iname to 25 characters. 4. remove field date_purchase. 5. remove the structure of Items table.	Itemno	Iname	Price	Quantity	101	Soap	50	100	102	Powder	100	50	103	Cream	150	25	104	Pen	50	200	105	Soap box	20	100	<ul style="list-style-type: none"> • Assignment <ul style="list-style-type: none"> ○ Database Concepts ○ SQL • Audio / Video <ul style="list-style-type: none"> ○ PPT on Relational Data Model • Discussion of Scoring Points/ Marking Scheme/ Sample Questions • Art integration <ul style="list-style-type: none"> ○ Draw diagrams to show relational data model • Inter disciplinary linkage: Mathematics • Core Skills: Problem solving, Creative thinking
Itemno	Iname	Price	Quantity																								
101	Soap	50	100																								
102	Powder	100	50																								
103	Cream	150	25																								
104	Pen	50	200																								
105	Soap box	20	100																								

Month/Topic	Theory	Practical/Project	Miscellaneous																																																																																																																																																												
	<ul style="list-style-type: none">SQL COMMANDS: UPDATE...SET, INSERT, DELETE, SELECT, DISTINCT, FROM, WHERE, IN, BETWEEN, GROUP BY, HAVING, ORDER BYSQL functions: SUM (), AVG(), COUNT(), MAX() and MIN()Obtaining results (SELECT query) from 2 tables using equi-join, Cartesian Product and Union	<p>1. Create a table flight with following structure: Table: FLIGHT</p> <table><tr><th>FL_NO (90 characters)</th><th>STARTING (90 characters)</th><th>ENDING (90 characters)</th><th>NO_FLIGHTS (Integer)</th><th>NO_STOPS (Integer)</th></tr><tr><td>IC301</td><td>Mumbai</td><td>Delhi</td><td>8</td><td>0</td></tr><tr><td>IC799</td><td>Bangalore</td><td>Delhi</td><td>2</td><td>1</td></tr><tr><td>MC101</td><td>Indore</td><td>Mumbai</td><td>3</td><td>0</td></tr><tr><td>IC302</td><td>Delhi</td><td>Mumbai</td><td>8</td><td>0</td></tr><tr><td>AM812</td><td>Kanpur</td><td>Bangalore</td><td>3</td><td>1</td></tr><tr><td>IC899</td><td>Mumbai</td><td>Kochi</td><td>1</td><td>4</td></tr><tr><td>AM501</td><td>Delhi</td><td>Trivandrum</td><td>1</td><td>5</td></tr><tr><td>MU499</td><td>Mumbai</td><td>Madras</td><td>3</td><td>3</td></tr><tr><td>IC701</td><td>Delhi</td><td>Ahmedabad</td><td>4</td><td>0</td></tr></table> <p>2. Insert 9 records in above table with following values:</p> <table><tr><th>FL_NO</th><th>STARTING</th><th>ENDING</th><th>NO_FLIGHTS</th><th>NO_STOPS</th></tr><tr><td>IC301</td><td>Mumbai</td><td>Delhi</td><td>8</td><td>0</td></tr><tr><td>IC799</td><td>Bangalore</td><td>Delhi</td><td>2</td><td>1</td></tr><tr><td>MC101</td><td>Indore</td><td>Mumbai</td><td>3</td><td>0</td></tr><tr><td>IC302</td><td>Delhi</td><td>Mumbai</td><td>8</td><td>0</td></tr><tr><td>AM812</td><td>Kanpur</td><td>Bangalore</td><td>3</td><td>1</td></tr><tr><td>IC899</td><td>Mumbai</td><td>Kochi</td><td>1</td><td>4</td></tr><tr><td>AM501</td><td>Delhi</td><td>Trivandrum</td><td>1</td><td>5</td></tr><tr><td>MU499</td><td>Mumbai</td><td>Madras</td><td>3</td><td>3</td></tr><tr><td>IC701</td><td>Delhi</td><td>Ahmedabad</td><td>4</td><td>0</td></tr></table> <p>3. Create another table fares with following structure: TABLE: FARES</p> <table><tr><th>FL_NO (90 characters)</th><th>AIRLINES (90 characters)</th><th>FARE (integer)</th><th>TAX (integer)</th></tr><tr><td>IC701</td><td>Indian Airlines</td><td>6500</td><td>10</td></tr><tr><td>MU499</td><td>Sahara</td><td>10400</td><td>5</td></tr><tr><td>AM501</td><td>Jet Airways</td><td>13450</td><td>8</td></tr><tr><td>IC302</td><td>Indian Airlines</td><td>4300</td><td>10</td></tr><tr><td>IC799</td><td>Indian Airlines</td><td>10500</td><td>10</td></tr><tr><td>MC101</td><td>Deccan Airlines</td><td>3500</td><td>4</td></tr></table> <p>4. Insert 7 records in above table with following values:</p> <table><tr><th>FL_NO</th><th>AIRLINES</th><th>FARE</th><th>TAX</th></tr><tr><td>IC701</td><td>Indian Airlines</td><td>6500</td><td>10</td></tr><tr><td>MU499</td><td>Sahara</td><td>10400</td><td>5</td></tr><tr><td>AM501</td><td>Jet Airways</td><td>13450</td><td>8</td></tr><tr><td>IC302</td><td>Indian Airlines</td><td>4300</td><td>10</td></tr><tr><td>IC799</td><td>Indian Airlines</td><td>10500</td><td>10</td></tr><tr><td>MC101</td><td>Deccan Airlines</td><td>3500</td><td>4</td></tr></table>	FL_NO (90 characters)	STARTING (90 characters)	ENDING (90 characters)	NO_FLIGHTS (Integer)	NO_STOPS (Integer)	IC301	Mumbai	Delhi	8	0	IC799	Bangalore	Delhi	2	1	MC101	Indore	Mumbai	3	0	IC302	Delhi	Mumbai	8	0	AM812	Kanpur	Bangalore	3	1	IC899	Mumbai	Kochi	1	4	AM501	Delhi	Trivandrum	1	5	MU499	Mumbai	Madras	3	3	IC701	Delhi	Ahmedabad	4	0	FL_NO	STARTING	ENDING	NO_FLIGHTS	NO_STOPS	IC301	Mumbai	Delhi	8	0	IC799	Bangalore	Delhi	2	1	MC101	Indore	Mumbai	3	0	IC302	Delhi	Mumbai	8	0	AM812	Kanpur	Bangalore	3	1	IC899	Mumbai	Kochi	1	4	AM501	Delhi	Trivandrum	1	5	MU499	Mumbai	Madras	3	3	IC701	Delhi	Ahmedabad	4	0	FL_NO (90 characters)	AIRLINES (90 characters)	FARE (integer)	TAX (integer)	IC701	Indian Airlines	6500	10	MU499	Sahara	10400	5	AM501	Jet Airways	13450	8	IC302	Indian Airlines	4300	10	IC799	Indian Airlines	10500	10	MC101	Deccan Airlines	3500	4	FL_NO	AIRLINES	FARE	TAX	IC701	Indian Airlines	6500	10	MU499	Sahara	10400	5	AM501	Jet Airways	13450	8	IC302	Indian Airlines	4300	10	IC799	Indian Airlines	10500	10	MC101	Deccan Airlines	3500	4	<ul style="list-style-type: none">Assignment<ul style="list-style-type: none">SQL (writing SQL commands for the given queriesFinding output of SQL commandsDiscussion of Scoring Points/ Marking Scheme/ Sample QuestionsInter disciplinary linkage: MathematicsCore Skills: Problem solving, Creative thinking
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		5. Display FL_NO and number of flights from Kanpur to Bangalore from table Flight. 6. Arrange the contents of the table flight in ascending order of flight no. 7. Display the details of those Flights whose destination is Mumbai. 8. Display the details of those Flights which are not stopping in-between. 9. Display details of Flights where no_flights are not more than 5 in descending order of FL_NO. 10. Display the minimum fare offered by “Indian Airlines”. 11. Display the FL_NO and fare to be paid for the flights from DELHI using the tables FLIGHT and FARE, where fare to be paid = FARE + FARE x TAX/100 12. Count number of flights from Delhi. 13. Find the average fare of Indian Airlines. 14. Count number of flights whose FL_NO starts with “I”. 15. Increase the fare of “Sahara” Airlines by 1000. 16. Delete the record of “India Airlines”. 17. Display FL_NO, STARTING, ENDING from FLIGHT table, AIRLINES, FARE from FARE table according to their matching FL_NO.	<ul style="list-style-type: none"> • Assignment <ul style="list-style-type: none"> ○ SQL (writing SQL commands for the given queries) ○ Finding output of SQL commands • Discussion of Scoring Points/ Marking Scheme/ Sample Questions • Inter disciplinary linkage: Mathematics • Core Skills: Problem solving, Creative thinking, Interpersonal Relationship
November Topic: Creating a Django Based Basic Web Application No. of periods: 30	<ul style="list-style-type: none"> ➤ Web Framework ➤ Introduction Django ➤ Installing Django ➤ Django Basics and project structures ➤ Creating Models, Views and templates 	<ul style="list-style-type: none"> • Installing Django • Creating models • Creation of templates • Creation of views • Creation of URL confs 	<ul style="list-style-type: none"> • Assignment Programming <ul style="list-style-type: none"> • Discussion of Scoring Points/ Marking Scheme/ Sample Questions • Core Skills Problem solving Critical thinking Creative thinking Decision making Empathy Self-awareness

Month/Topic	Theory	Practical/Project	Miscellaneous
November Topic: Interface Python with MySQL No. of periods: 10	<ul style="list-style-type: none"> Connecting to MySQL from Python Parameterized queries Performing insert and update queries 	Data accessing from a table by python Insertion of data to a table from Python environment Update data from Python environment	<ul style="list-style-type: none"> Assignment <ul style="list-style-type: none"> important questions for connectivity Discussion of Scoring Points/ Marking Scheme/ Sample Questions Inter disciplinary linkage: Mathematics Core Skills: Problem solving, Creative thinking, Interpersonal Relationship
November No. of Periods: 15 Topic: Society Law and Ethics	<ul style="list-style-type: none"> Ethical issues Open source Philosophy and Software Licenses Privacy Online fraud Cyber crime Computer forensics Cyber law and IT Act Technology and Society E-Waste management Identity theft Gender issues while Teaching computers 		<ul style="list-style-type: none"> Assignment <ul style="list-style-type: none"> Selected questions from reference books Discussion of Scoring Points/ Marking Scheme/ Sample Questions
December	REVISION & MOCK TEST		
January	REVISION & MOCK TEST		
February	REVISION & MOCK TEST		
March	ANNUAL EXAMINATION		