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### Annual Syllabus Session : 2023-24 Class : XII [Arts & Humanities]

SUBJECT : English (301)

SUBJECT . Eligiisii (SUL)		
Books Prescribed : NCERT Class XII		
Month	Chapter No. and Name	Activity / Project/ Practical
March/April	1. The Last Lesson 2. Lost	Draft an interview that Franz takes of hi
	Spring 3 My Mother at Sixty	parents ,where they share their feelings
	Six (Poem) 4. Deep Water	when the prussians took control of
		Alsace and Lorraine
May/June	5. The Rattrap 6. An	A comic strip of child procrastinating and
	Elementary School	later regretting for not having paid
	Classroom in a Slum(Poem)	attention to the lessons .
	7. The Third Level Writing-	
	Notice, Article writing	
July	8. Indigo 9. Keeping Quiet	Creative Writing
	(Poem) 10. A Thing of	
	Beauty(Poem) 11. The Tiger	
	King Writing-Poster,Debate	
August	12. Poets and Pancakes 13.	PPT on A Roadside Stand
	Journey to the End of the	
	Earth 14. A Roadside Stand	
	(Poem) 15. Aunt Jennifer's	
	Tigers (Poem	
September	16 .The Enemy 17. The	Extempore
	Interview 18. Going Places	
	Writing- Job Application.	
October	19. Should Wizard hit	Jam -Just a minute
	mommy 20.On the face of it	
	Writing-Speech,	
	Advertisements, Report	
November	21. Evans tries O-level 22.	ASL
	Memories of Childhood	
December	Revision for Boards	ASL
January	Preboards, Revision for	ASL
	Boards	
February	Preboards, Revision for	Group Discussion
	Boards	

## Syllabus for Assessment (English)

	Assessment	Syllabus of Assessment	Practical/Project
	PT-1	The Last Lesson , My Mother at	presentation
		Sixty Six (Poem) Third Level ,	
		Notice	
	Half Yearly	The Rattrap, An Elementary	Extempore
		School Classroom in a	
		Slum(Poem), Deep Water ,	
		Writing-Notice, Article writing	
		JULY, Indigo, Keeping Quiet	
Term - 1		(Poem), A Thing of Beauty(Poem)	
		, The Tiger King Writing-	
		Poster, Debate AUGUST Poets and	
		Pancakes, Journey to the End of	
		the Earth , A Roadside Stand	
		(Poem), Aunt Jennifer's Tigers	
		(Poem) , The Enemy , The	
		Interview , Going Places Writing-	
		Job Application	
	PT-2	Should Wizard hit mommy, .On	Group Discussion
		the face of it Writing-Speech,	
Term - 2		Advertisements, Report	
1em - 2	PT-3	Evans tries O-level, Memories of	Creative Writing
		Childhood	
	Annual Exam	Full Syllabus	ASL

SUBJECT : HINIDI (302) ooks Prescribed : NCERT 1.आरोह 2.वितान 3		
March / April	· · · · · · · · · · · · · · · · · · ·	भक्तिन ००० , के ००००००० ०००
•		
	पाठ २ ०००००० ००००	
May/June	आरोह पाठ्यपुस्तक भाग-2	कविता ०० ००००० ००००० ००
	काव्य भाग	
	पाठ-3 कविता 💷 💷 💷 💷	
	पाठ -4 कैमरे ००० ००० ००००००	
	गद्य भाग	
	पाठ -13 ०००० ०००० ०००० ००	
	वितान पाठ्यपुस्तक	
	पाठ ४ ००००००० ००००	
	आरोह पाठ्यपुस्तक भाग-2	अपनी ००००० ००००० ०००००
	काव्य भाग	
July		
	वितान पाठ्यपुस्तक	
	पाठ -3 अतीत 💷 💷 💷 🗆	
	अभिव्यक्ति और माध्यम पाठ्यपुस्तक	
	पाठ -5 ०००००० ००००	
August	आरोह पाठ्यपुस्तक भाग-2	
	काव्य भाग	
	पाठ-7 बादल □□□	
	पाठ -८ कवितावलीकवितावली	
	वितान पाठ्यपुस्तक	

	पाठ -8 ०००० ००००	
September	आरोह पाठ्यपुस्तक भाग-2	श्रवण
	काव्य भाग	
	पाठ -10 छोटा 💷 🗆 🗆 🗆	
October	आरोह पाठ्यपुस्तक भाग-2	श्रवण
	गद्य भाग	
	पाठ 17 शिरीष के फूल	
	पाठ 18 श्रम विभाजन और जाति प्रथा	
November	दोहरान 🗆 🗆 🗆 🗆	A. S. L.
December	दोहरान 🗆 🗆 🗆 🗆	A. S. L.
January	दोहरान 🗆 🗆 🗆 🗆	A. S. L.
February	दोहरान 🗆 🗆 🗆 🗆	A. S. L.

# Syllabus for Assessment (Hindi)

Assessment	Syllabus of Assessment	Practical/Project
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	PT-1		ए .एस.एल.श्रवण व वाचन प्रतियोगिता
		आरोह पाठ्यपुस्तक भाग-2	
		काव्य भाग	
		पाठ–1 आत्मपरिचय	
		<b>2</b>	
		वितान पाठ्यपुस्तक	
		००० -1 ००००० ००००० अभिव्यक्ति और माध्यम पाठ्यपुस्तक	
		जामव्याक्त जार माध्यम पाठयपुस्तक पाठ -1अनुच्छेद लेखन	
		410 - 199999 (1997) 	
	Half Yearly	रोह पाठ्यपुस्तक भाग-2	ए .एस.एल.श्रवण व वाचन प्रतियोगिता
Term - 1		काव्य भाग	
		पाठ-3 कविता के बहाने बात	
		सीधी थी पर	
		पाठ -4 कैमरे में बंद अपाहिज	
		पाठ -६ उषा	
		गद्य भाग	
		पाठ -13 काले मेघा पानी दे	
		पाठ १४ पहलवान की ढोलक	
		वितान पाठ्यपुस्तक	
		पाठ -2 जूझ अभिव्यक्ति और माध्यम	
		पाठ्यपुस्तक पाठ 3 जनसंचार माध्यम प्रिंट	
		पाठ उ जनसंचार माध्यम प्रिट माध्यम	
		पाठ ४ संपादकीय लेखन	
	PT-2	आरोह पाठ्यपुस्तक भाग-2	ए .एस.एल.श्रवण व वाचन प्रतियोगिता
		काव्य भाग	
		पाठ-7 बादल राग पाठ -8 कवितावली	
Term - 2		अभिव्यक्ति और माध्यम	
		पाठ्यपुस्तक	
		पाठ -7 पुस्तक समीक्षा	
		पाठ -४ फीचर लेखन	
	1		

PT-3		श्रवण व वाचन प्रतियोगिता
	आ रोह पाठ्यपुस्तक भाग-2	
	काव्य भाग	
	००० -10 ०००० ०००० ००० ०००० ०० ००० वितान पाठ्यपुस्तक	
	पाठ -२ जूझ	
	अभिव्यक्ति और माध्यम	
	पाठ्यपुस्तक	
	पाठ -7 पुस्तक समीक्षा	
Annual Exam	समस्त 🗆 🗆 🗆 🗆 🗆	

SUBJECT : HISTORY (027 )			
Books Prescribed : THEME	Books Prescribed : THEMES IN INDIAN HISTORY PART-1, THEMES IN INDIAN HISTORY PART -II		
THEMES IN INDIAN HISTORY PAR	T-III		
Month Chapter No. and Name Activity / Project / Practical			
March/April	Theme 1 Bricks, Beads and		
	Bones		
	Theme 2 Kings, Farmers and		
Towns			
May/June	Theme 3 Kinship, Caste and		
	Class		

July	Theme 4 Thinkers, Beliefs and	Project report
July	Buildings	1. The Indus Valley Civilization-Archeological
	Theme 5 Through the Eyes of	Excavations and New Perspectives 2. The
	Travellers	History and Legacy of Mauryan Empire 3.
	Theme 6 Bhakti –Sufi Traditions	"Mahabharat"- The Great Epic of India 4. The
		History and Culture of the Vedic period 5.
		Buddha Charita 6. A Comprehensive History
		of Jainism 7. Bhakti Movement- Multiple
		interpretations and commentaries. 8. "The
		Mystical Dimensions of Sufism 9. Global
		legacy of Gandhian ideas 10.The Architectural
		Culture of the Vijayanagar Empire 11.Life of
		women in the Mughal rural society
		12.Comparative Analysis of the Land Revenue
		Systems introduced by the Britishers in India
		13. The Revolt of 1857- Causes; Planning &
		Coordination; Leadership, Vision of Unity
		14.The Philosophy of Guru Nanak Dev 15.The
		Vision of Kabir 16.An insight into the Indian
		Constitution
August	Theme 7 An Imperial Capital:	
	Vijayanagar	
	Theme 8 – Peasants, Zamindars	
	and the State	
	Theme 10 Colonialism and The	
Contombor	Countryside Theme 11 Rebels and the Raj	
September	Theme 13 Mahatma Gandhi	
	and the Nationalist Movement	
October	Revision for Half Yearly	
	Exams	
November	Theme 15 Framing the	
	Constitution	
Deservebar		
December	Full Syllabus Revision	
January	Full Syllabus Revision	
February	Full Syllabus Revision	

### Syllabus for Assessment (History)

Assessment	Syllabus for Assessment
PT-1	Theme 1 Bricks, Beads and
	Bones
	Theme 2 Kings, Farmers and
	Towns
	Theme 3 Kinship, Caste and
	Class

Term-1	PT-2	Theme 4 Thinkers, Beliefs and Buildings Theme 5 Through the Eyes of Travellers Theme 6 Bhakti –Sufi Traditions
Term-2	Half yearly	Theme 2 Kings, Farmers and Towns Theme 3 Kinship, Caste and Class Theme 7 An Imperial Capital: Vijayanagar Theme 8 – Peasants, Zamindars and the State Theme 10 Colonialism and The Countryside Theme 11 Rebels and the Raj
	PT-3	Theme 11 Rebels and the Raj Theme 13 Mahatma Gandhi and the Nationalist Movement Theme 15 Framing the Constitution
	Annual Exam	Full Syllabus

SUBJECT: POLITICAL SCIENCE (028)			
BOOKS PRESCRIBED: Part A: Contemporary World Politics			
Part B: Politics in India since Independence			
MONTH Chapter no and name Activity/Project/file			
March CH-1 The End of Bipolarity			
April			
CH-2 New Centres of Power			

May	CH-3 Contemporary South Asia		
July	CH-4 United Nations and its Organizations	Project report	
	CH-5 Security in Contemporary World	"Any topic relevant to syllabus"	
	CH-6 Environment and Natural Resources		
August	CH-7 Globalization		
	CH-8 Challenges of Nation-Building		
	CH-9 Planned Development		
September	CH-10 India's Foreign Policy		
-	CH-11 Parties and Party System in India		
	CH-12 Democratic Resurgence		
October	Revision for Half Yearly		
	Exams		
November	CH-13 Regional Aspirations		
	CH-14 Indian Politics: Recent Trends and		
	Development		
December	Full Syllabus Revision		
January	Full Syllabus Revision		
February	Full Syllabus Revision		

### Syllabus for assessment (Political Science)

	Assessment	Syllabus for Assessment
	PT-1	CH-1 The End of Bipolarity
		CH-2 New Centres of Power
Term-1		CH-3 Contemporary South Asia
	PT-2	CH-4 United Nations and its
		Organizations

		CH-5 Security in Contemporary
		World
		CH-6 Environment and Natural
		Resources
	Half yearly	CH-7 Globalization
		CH-8 Challenges of Nation-
		Building
		CH-9 Planned Development
Term-2		CH-10 India's Foreign Policy
		CH-11 Parties and Party System
		in India
		CH-12 Democratic Resurgence
	PT-3	CH-13 Regional Aspirations
		CH-14 Indian Politics: Recent
		Trends and Development
	Annual Exam	Full Syllabus

SUBJECT : Physical Education(048)			
Books Prescribed :			
Month	Chapter No. and Name	Activity / Project/ Practical	
April	Unit I: Planning in Sports		
May	Unit II: Sports & Nutrition		
July	Unit II: Sports & Nutrition	Project File (About one sport/game of choice )	

		Demonstration of Fitness Activity
		Viva Voce (From Project File; Fitness)
August	Unit V: Children & Women	
	in Sports	
September	Unit VIII: Biomechanics &	
	Sports	
October	Unit III: Yoga & Lifestyle	
	Unit IV: Physical Education &	
	Sports for CWSN	
	(Children With Special Needs	
	– Divyang)	
November	Unit VII: Physiology &	Project File (Yoga and General Motor
	Injuries in Sports	Fitness Test)
		Demonstration of Fitness Activity/Yoga
		Viva Voce (From Project File; General
		Motor Fitness; Yoga)
December	Unit IX: Psychology & Sports	
January	Unit X: Training in Sports	
February	Revision	

# Syllabus for Assessment (Physical Education)

Assessment	Syllabus of Assessment	Practical/Project
PT-1	Unit I: Planning in Sports	

Term - 1	Half Yearly	Unit I: Planning in Sports Unit II: Sports & Nutrition Unit 5 : Children and women in Sports	Project File (About one sport/game of choice ) Demonstration of Fitness Activity Viva Voce (From Project File; Fitness)
		Unit 8:Biomechanics & Sports	
	PT-2	Unit III: Yoga & Lifestyle	
Term - 2	РТ-3	Unit IV: Physical Education & Sports for CWSN (Children With Special Needs – Divyang)	
	Annual Exam	Full syllabus	Project File (Yoga and General Motor Fitness Test) Demonstration of Fitness Activity/Yoga Viva Voce (From Project File; General Motor Fitness; Yoga)





### Annual Syllabus Session : 2023-24 Class : XII [Science]

Books Prescribed : N	SUBJECT : English (3 CERT Class XII	,
Month	Chapter No. and Name	Activity / Project/ Practical
March/April	1. The Last Lesson 2. Lost	Draft an interview that Franz takes of his
	Spring 3 My Mother at Sixty	parents ,where they share their feelings
	Six (Poem) 4. Deep Water	when the prussians took control of
		Alsace and Lorraine
May/June	5. The Rattrap 6. An	A comic strip of child procrastinating and
	Elementary School	later regretting for not having paid
	Classroom in a Slum(Poem)	attention to the lessons .
	7. The Third Level Writing-	
	Notice, Article writing	
July	8. Indigo 9. Keeping Quiet	Creative Writing
	(Poem) 10. A Thing of	
	Beauty(Poem) 11. The Tiger	
	King Writing-Poster, Debate	
August	12. Poets and Pancakes 13.	PPT on A Roadside Stand
	Journey to the End of the	
	Earth 14. A Roadside Stand	
	(Poem) 15. Aunt Jennifer's	
	Tigers (Poem	
September	16 .The Enemy 17. The	Extempore
	Interview 18.Going Places	
	Writing- Job Application.	
October	19. Should Wizard hit	Jam -Just a minute
	mommy 20.On the face of it	
	Writing-Speech,	
	Advertisements, Report	
November	21. Evans tries O-level 22.	ASL
	Memories of Childhood	
December	Revision for Boards	ASL
January	Preboards, Revision for	ASL
	Boards	
February	Preboards, Revision for	Group Discussion
	Boards	

# Syllabus for Assessment (English)

	Assessment	Syllabus of Assessment	Practical/Project
	PT-1	The Last Lesson , My Mother at	presentation
		Sixty Six (Poem) Third Level ,	
		Notice	
	Half Yearly	The Rattrap, An Elementary	Extempore
		School Classroom in a	
		Slum(Poem), Deep Water ,	
		Writing-Notice, Article writing	
		JULY, Indigo, Keeping Quiet	
Term - 1		(Poem) , A Thing of Beauty(Poem)	
		, The Tiger King Writing-	
		Poster, Debate AUGUST Poets and	
		Pancakes, Journey to the End of	
		the Earth , A Roadside Stand	
		(Poem), Aunt Jennifer's Tigers	
		(Poem) , The Enemy , The	
		Interview , Going Places Writing-	
		Job Application	
	PT-2	Should Wizard hit mommy, .On	Group Discussion
		the face of it Writing-Speech,	
Term - 2		Advertisements, Report	
161111 - 2	РТ-3	Evans tries O-level , Memories of	Creative Writing
		Childhood	
	Annual Exam	Full Syllabus	ASL

### SUBJECT : Physics (042)

#### Books Prescribed : NCERT - Physics part I and II \* Laboratory manual of Physics for class 12th published by NCERT

Month	Chapter No. and Name	Activity / Project / Practical	
March/April	Unit 1- Electrostatics Chapter 1- Electric charges and fields Chapter 2 -Electrostatic potential and capacitance	<ol> <li>To determine the resistance per cm of a given wire by plotting a graph between voltage and current.</li> <li>To find the resistance of a given wire using a meter bridge.</li> </ol>	
Мау	Unit 1 -Electrostatics Chapter 2 -Electrostatic potential and capacitance Unit 2 - Current electricity Chapter 3- Current electricity	<ul> <li>3. To compare the EMF of given primary cellsusing a potentiometer.</li> <li>4. To determine the resistance of a galvanometer by half deflection method.</li> </ul>	
July	Unit 3- Magnetic effects of current and magnetism Chapter 4 -Moving charges and magnetism Chapter 5- Magnetism and matter	5. To verify the laws ofcombination of resistances by ohm's law.	
August	Unit 4- Electromagnetic induction and alternating current Chapter 6 -Electromagnetic induction Chapter 7 -Alternating current	<ul> <li>6. To identify a resistor ,capacitor and inductor and diode from a mixed collection of such items.</li> <li>7. a. To observe the difference between a convex lens and a concave lens.</li> <li>b. Two observe the difference between aconvex mirror and a concave mirror and two estimate the lightly difference between the power of two given convex/ concave lenses</li> </ul>	
September	Unit 5-Electromagnetic waves Chapter 8 Electromagnetic waves Unit 6- optics Chapter 9 -Ray optics and optical	<ul> <li>8. a. To design an inductor coil and to know the effect of change in the number of turns.</li> <li>b. Introduction of ferromagnetic material as its core material on the inductance of the coil.</li> </ul>	
October	Chapter 9 -Ray optics and optical instruments Chapter 10 -wave optics	9. To design a step up and step down transformer on a given transformer on a given core and know the relation between its	

		input and output voltages.
November	Unit 7- dual nature of radiation and matter Chapter 11- dual nature of radiation and matter Unit 8 -atoms and nuclei Chapter 12- atoms Chapter 13 -nuclei Unit 9- electronic devices Chapter 14- semiconductor devices	
December	Revision	
January	Revision	
February	Revision	

	Assessment	Syllabus of Assessment	Practical/Activity
Term - 1	PT-1	Unit 1 -electrostatics Chapter 1 -electric charges andfields Chapter 2 - electrostatic potential and capacitance.	<ol> <li>To determinethe resistance per CM of a given wire by plotting a graph between voltage and current.</li> </ol>
	PT- 2	magnetism Chapter 5 –magnetism and matter	<ol> <li>To compare the EMF of two given primary cells using a potentiometer</li> </ol>
Term – 1	Half Yearly	Chapter 1 -electric charges andfields Chapter 2 -electrostatic potential and capacitance Chapter3 – Current electricity	<ol> <li>To find the resistance of a given wire using meter bridge.</li> </ol>
Term - 2	PT-3	Chapter 6- electromagnetic induction Chapter 9 -ray optics	4. To observe the difference between a convex lens and a concave lens.
	Annual Exam	Chapter 10 -wave optics Chapter 11 -dual nature ofradiation and matter Chapter 13- nuclei Chapter 14- semiconductorelectronics	External practical examination.

# Syllabus for Assessment (Physics)

	SUBJECT : Chemistry (055) Books Prescribed : NCERT and Pradeep's Chemistry			
Books Prescr				
Month	Chapter No. and Name	Activity / Project / Practical		
March/April	Chapter 1: fundamentals of partnership Chapter 2: Valuation of goodwill Chapter 3: Change in Profit sharing ratio	<ul> <li>Assignments of these topics.</li> <li>Multiple choice questions.</li> <li>Revision tests</li> </ul>		
Мау	Chapter 4: Admission of partners	<ul> <li>Assignments of these topics.</li> <li>Multiple choice questions.</li> <li>Revision tests</li> </ul>		
July	Chapter 5: Retirement and death of a partner Chapter 6: Dissolution of firm.	<ul> <li>Assignments of these topics.</li> <li>Multiple choice questions.</li> <li>Revision tests</li> </ul>		
August	Vol 2 part A Chpater1 : Issue of Shares Chapter 2 : issue of debentures	<ul> <li>Assignments of these topics.</li> <li>Multiple choice questions.</li> <li>Revision tests</li> </ul>		
		<ul> <li>Assignments of these topics.</li> <li>Multiple choice questions.</li> <li>Revision tests</li> </ul>		
September	Part B Chapter 1: financial statements of companies Chapter 2: analysis of financial statements.	<ul> <li>Assignments of these topics.</li> <li>Multiple choice questions.</li> <li>Revision tests</li> </ul>		
October	Chapter 3: accounting ratios Chapter 4: cash flow statements	<ul> <li>Assignments of these topics.</li> <li>Multiple choice questions.</li> <li>Revision tests</li> </ul>		
November	Chapter 4: cash flow statements	<ul> <li>Assignments of these topics.</li> <li>Multiple choice questions.</li> <li>Revision tests</li> </ul>		
December	Remedial classes Practical File Activity file			
January				
February				

Synabus for Assessment (Chemistry)			Y/
	Assessment	Syllabus of Assessment	Practical/Activity
Term - 1	PT-1	Chapter 1 fundamentals of partnership Chapter 2: valuation of goodwill	Viva and practical
	Half Yearly	PT 1 syllabus and Chapter 3 change in Profit sharing Ratio Chapter 4 Admission of partner Chapter 5 Retirement and death Chapter 6 dissolution	Viva and practical
Term - 2	PT-2	Issue of shares	Viva and practical
	РТ-3	Issue of debentures Financial statement of companies Liquidity and solvency ratios	Viva and practical
	Annual Exam	Part A Vol 1 Vol 2 Part B	External practical examination.

### Syllabus for Assessment (Chemistry)

De alta Drasa	SUBJECT : Maths (041)			
	ribed : NCERT (PART I AND PART II)	Activity / Ducient / Ducient		
Month	Chapter No. and Name	Activity / Project/ Practical		
March	Unit-II: Algebra CH 1. Matrices Concept, notation, order, equality, types of matrices, zero and identity matrix, transpose of a matrix,			
	symmetric and skew symmetric matrices. Operation on matrices: Addition and multiplication and multiplication with a scalar. Simple properties of addition, multiplication and scalar multiplication. On commutativity of multiplication of matrices and existence of non- zero matrices whose product is the zero matrix (restrict to square matrices of order 2). Invertible matrices and proof of the uniqueness of			
	inverse, if it exists; (Here all matrices will have			
	real entries).			
April	<ul> <li>CH 4. Determinants</li> <li>Determinant of a square matrix (up to 3 x 3 matrices), minors, co-factors and applications of determinants in finding the area of a triangle.</li> <li>Adjoint and inverse of a square matrix.</li> <li>Consistency,</li> <li>inconsistency and number of solutions of system of linear equations by examples, solving system of linear equations in two or three variables (having unique solution) using inverse of a matrix.</li> </ul>			
Мау	<ul> <li>Unit-I: Relations and Functions</li> <li>CH 1. Relations and Functions</li> <li>Types of relations: reflexive, symmetric, transitive and equivalence relations. One to one and onto functions.</li> <li>CH 2. Inverse Trigonometric Definition, range, domain, principal value branch. Graphs of inverse trigonometric functions.</li> </ul>	<ol> <li>To verify that the relation R in the set L of all lines in a plane, defined by R = {(I, m) : I ⊥m} is symmetric but neither reflexive nor transitive.</li> <li>To verify that the relation R in the set L of all lines in a plane, defined by R = {(I, m) : I    m} is an equivalence relation.</li> <li>To demonstrate a function that is not one-one but is</li> </ol>		
		onto. 4. To demonstrate a function that is one-one but not onto. 5. To draw the graph of $\frac{1}{ \mathbb{D} \mathbb{Z} ^2}$ , using the graph of sin x and demonstrate the concept of mirror reflection (about the line y = x). 6. To explore the principal value of the function $\mathbb{D} \mathbb{D} ^{-1}$ x using a unit circle.		

July	Unit-III: Calculus	7. To sketch the graphs of
	CH 5. Continuity and Differentiability	$\mathbb{P}^2$ and $\mathbb{PPP}_2$ ? , a > 0, a ≠ 1 and to
	Continuity and differentiability, chain rule,	examine that they are mirror
	derivative of inverse trigonometric functions,	images of each other.
	$\mathbb{PPP} \mathbb{PP}^{-1} \mathbb{P}$ , $\mathbb{PPP}^{-1} \mathbb{P}$ and $\mathbb{PPP}^{-1} \mathbb{P}$ , derivative of	8. To establish a
	implicit functions. Concept of exponential and	relationship between common
	logarithmic functions.	logarithm (to the base 10)
	Derivatives of logarithmic and exponential	and natural logarithm (to the base
	functions. Logarithmic differentiation, derivative	e) of the number x.
	of functions expressed in parametric forms.	9. To find analytically
	Second order derivatives.	the limit of a function f (x) at x = c
		and also to check the continuity of
		the function at that point.
		<b>10.</b> To verify that for a
		function f to be continuous at
		given point $\mathbb{P}_0$ ,
		$\Delta \mathbf{y} =  \mathbf{f}(\mathbb{P}_0 + \Delta \mathbb{P}) - \mathbb{P}(\mathbb{P}_0)  \text{ is }$
		arbitrarily small provided. $\Delta x$ is
		sufficiently small.
		<b>11.</b> To verify Rolle's Theorem.
		<b>12.</b> To verify Lagrange's
		Mean Value.
		<b>13.</b> To understand the
		concepts of decreasing and
		increasing functions.
	CH 6. Applications of Derivatives	<b>14.</b> To understand the
	Applications of derivatives: rate of change of	concepts of local maxima, local
	bodies, increasing/decreasing functions, maxima	minima and point of inflection.
	and minima (first derivative test motivated	15. To understand the
	geometrically and second derivative test given as	concepts of absolute maximum
	a provable	and minimum values of a function
	tool). Simple problems (that illustrate basic	in a given closed interval through
	principles and understanding of the subject as	its graph.
	well as reallife situations).	16. To construct an open
		box of maximum volume from a
		given rectangular sheet by cutting
		equal squares from each
		corner.
		<b>17.</b> To find the time when
		the area of a rectangle of given
		dimensions become maximum, if
		the length is decreasing
		and the breadth is increasing at given rates
		given rates. 18. To verify that amongst
		all the rectangles of the same
		perimeter, the square has the
		maximum area.

August	CH 7 Integrals	10 To ovaluate the
August	CH 7. Integrals Integration as an inverse process of	<b>19.</b> To evaluate the definite integral
	differentiation. Integration of a variety of	
		$\int_{\mathbb{Z}}^{\mathbb{Z}} \sqrt{(1-\mathbb{Z}^2)}  dx \text{ as the limit of a}$
	functions by substitution, by partial fractions and	sum and verify it by actual
	by parts, Evaluation of simple integrals of the	integration.
	following types and problems based on them.	
	$\int \frac{\mathrm{d}x}{x^2 \pm a^{2_i}} \int \frac{\mathrm{d}x}{\sqrt{x^2 \pm a^2}}, \int \frac{\mathrm{d}x}{\sqrt{a^2 - x^2}},$	
	$\int \frac{dx}{ax^2 + bx + c}, \int \frac{dx}{\sqrt{ax^{2+bx+c}}}$	
	$\int \frac{px+q}{ax^2+bx+c} dx, \int \frac{px+q}{\sqrt{ax^{2+bx+c}}} dx,$	
	$\int \sqrt{a^2 \pm x^2}  dx, \qquad \int \sqrt{x^2 - a^2}  dx$	
	Fundamental Theorem of Calculus (without	
	proof).Basic properties of definite integrals and	
	evaluation of definite integrals.	
September	CH 8. Applications of the Integrals Applications in	
-	finding the area under simple curves, especially	
	lines, parabolas; area of circles /ellipses (in	
	standard form only) (the region should be clearly	
	identifiable).	
	CH 9. Differential Equations	
	Definition, order and degree, general and	
	particular solutions of a differential equation.	
	Solution of differential equations by method of	
	separation of variables, solutions of	
	homogeneous differential equations of first order	
	and first degree. Solutions of linear differential	
	equation of the type:	
	dy/dx + py = q, where p and q are functions of x	
	or constants.	
	d  / d  + px = q, where p and q are functions of y	
	or constants.	

October	Unit-IV: Vectors and Three-Dimensional	<b>20.</b> To verify geometrically
	Geometry	that:
	CH 10: Vectors	$\vec{c} \times (\vec{a} + \vec{b}) = \vec{c} \times \vec{a} + \vec{c} \times \vec{b}$
	Vectors and scalars, magnitude and direction of a	$\vec{c} \times (\vec{a} + \vec{b}) = \vec{c} \times \vec{a} + \vec{c} \times \vec{b}$
	vector. Direction cosines and direction ratios of a	<b>21.</b> To verify that angle in
	vector. Types of vectors (equal, unit, zero, parallel	a semicircle is a right angle, using
	and collinear vectors), position vector of a point,	the vector method.
	negative of a vector, components of a vector,	<b>22.</b> To locate the points to
	addition of vectors, multiplication of a vector by a	give coordinates in space, measure the distance between two points
	scalar, position vector of a point dividing a line segment in a given ratio. Definition, Geometrical	in space and then to verify the
	Interpretation, properties and application of	distance using
	scalar (dot) product of vectors, vector (cross)	distance formula.
	product of vectors.	<b>23.</b> To demonstrate the
		equation of a plane in normal
	CH 11: Three - dimensional Geometry	form.
	Direction cosines and direction ratios of a line	<b>24.</b> To verify that the angle
	joining two points. Cartesian equation and vector	between two planes are the same
	equation of a line, skew lines, shortest distance	as the angle between
	between two lines. Angle between two lines.	their normals.
		<b>25.</b> To find the distance of a
		given point (in space) from a plane
		(passing through three non-
		collinear points) by actual
		measurement and also
		analytically.
		<b>26.</b> To measure the
		shortest distance between two
		skew lines and verify it analytically.
November	Unit-V: Linear Programming	
	CH 12: Linear Programming	
	Introduction, related terminology such as	
	constraints, objective function, optimization, graphical method of solution for problems in two	
	variables, feasible and infeasible regions	
	(bounded or unbounded), feasible and infeasible	
	solutions, optimal feasible solutions (up to three	
	non-trivial constraints).	
	Unit-VI: Probability	
	CH 13: Probability	
	Conditional probability, multiplication theorem	
	on probability, independent events, total	
	probability, Bayes' theorem, Random variable and	
	its probability distribution, mean of random	<b>27.</b> To explain the
	variable	computation of the conditional
		probability of a given event A,
		when event B has already
		occurred, through an example of throwing a pair of dice.
December	Pre Boards, Revision for Boards	
January	Pre Boards, Revision for Boards Boards	—
February	buaius	—

# Syllabus for Assessment (Maths)

	Assessment	Syllabus of Assessment	Practical/Project
	PT-1	CH 3: Matrices CH 4: Determinants	To verify that the relation R in the set L of all lines in a plane, defined by R = $\{(I, m) : I \perp m\}$ is symmetric but neither reflexive nor transitive.
Term - 1	Half Yearly	CH 1: Relations & Functions CH 2: Inverse Trigonometric Functions CH 3: Matrices CH 4: Determinants CH 5: Continuity and Differentiability CH 6: Application of Derivatives CH 7. Integrals	To find analytically the limit of a function f (x) at x = c and also to check the continuity of the function at that point.
	PT-2	CH 8. Applications of the Integral CH 9. Differential Equations	To construct an open box of maximum volume from a given rectangular sheet by cutting equal squares from each corner.
Term - 2	PT-3	CH 10. Vectors CH 11. Three - dimensional Geometry	To measure the shortest distance between two skew lines and verify it analytically.
	Annual Exam	Full syllabus	Every student will be asked to do at least one project based on the concepts learnt in the classroom.

	SUBJECT : BIOLOGY ( 044)				
	Books Prescribed : NCERT * Laboratory manual of Biology for class 12th published by NCERT				
Month Chapter No. and Name Activity / Project/ Practical					
March / April	<u>Unit-VI Reproduction</u> Chapter-2: Sexual Reproduction in Flowering Plants	<ul> <li>Practical 1- Isolate DNA from available plant material such as spinach, green pea seeds, papaya, etc.</li> <li>Prepare a temporary mount to observe pollen germination.</li> <li>Spotting- Flowers adapted to pollination by different agencies (wind, insects, birds).</li> <li>Meiosis in onion bud cell or grasshopper testis through permanent slides.</li> <li>Prepare a temporary mount of onion root tip to study mitosis.</li> </ul>			
Мау	Chapter-3: Human Reproduction Chapter-4: Reproductive Health	<ul> <li>Identification of stages of gamete development, i.e., T.S. of testis and T.S. of ovary through permanent slides (from grasshopper/mice).</li> <li>T.S. of blastula through permanent slides (Mammalian).</li> </ul>			
July	Unit-VII Genetics and EvolutionChapter-5: Principles of Inheritance and VariationChapter-6: Molecular Basis of InheritanceChapter-7 Evolution	Spotting- Prepared pedigree charts of any one of the genetic traits such as rolling of tongue, blood groups, ear lobes, widow's peak and colour blindness			
August	Unit-VIII Biology in Human Welfare Chapter- 8: Human Health and Diseases Chapter-10: Microbes in Human Welfare	<ul> <li>Spotting- Common disease - causing organisms like Ascaris, Entamoeba, Plasmodium, any fungus causing ringworm through permanent slides, models or virtual images. Comment on symptoms of diseases that they cause.</li> </ul>			
September	<u>Unit-IX Biotechnology</u> Chapter- 11: Biotechnology - Principles and Processes Chapter-12: Biotechnology and its Application				

October	Unit-X Ecology Chapter-13: Organisms and Populations Chapter-14 : Ecosystem Chapter-15: Biodiversity and its Conservation	<ul> <li>Collect water from two different water bodies around you and study them for pH, clarity and presence of any living organism</li> <li>Collect and study soil from at least two different sites and study them for texture, moisture content, pH and water holding capacity. Correlate with the kinds of plants found in them.</li> </ul>
November	Revision	
December	Revision	
January	Revision	
February	Revision	

# Syllabus for Assessment (Biology)

	Assessment	Syllabus of Assessment	Practical/Project
	PT-1	CH-2: Sexual Reproduction in Flowering Plant	1- Isolate DNA from available material such as spinach, green seeds, papaya, etc.
Term - 1	Half Yearly	CH-2: Sexual Reproduction in Flowering Plants CH-3: Human Reproduction CH-4: Reproductive Health CH-5: Principles of Inheritance and Vari iation CH- 6: Molecular Basis of Inheritance	<ul> <li>Identification of stages of gamete development, i.e., T.S. of testis and T.S. of ovary through permanent slides (from grasshopper/mice).</li> </ul>
Term - 2	PT-2	CH- 8: Human Health and Diseases CHr-10: Microbes in Human Welfare	<ul> <li>Spotting- Common disease         <ul> <li>causing organisms like</li> <li>Ascaris, Entamoeba,</li> <li>Plasmodium, any fungus</li> <li>causing ringworm through</li> <li>permanent slides, models</li> <li>or virtual images. Comment</li> <li>on symptoms of diseases</li> <li>that they cause.</li> </ul> </li> </ul>
	PT-3	CH-13: Organisms and Populations CH-15: Biodiversity and its Conservation	<ul> <li>Collect and study soil from at least two different sites and study them for texture, moisture content, pH and water holding capacity. Correlate with the kinds of plants found in them.</li> </ul>
	Annual Exam	Complete syllabus	

Books Prescribed : NCERT - Computer Science with Python Computer Science with Python (Sumita Arora, Preeti Arora)			
Month	Chapter No. and Name	Activity / Project/ Practical	
April	UNIT-1 (Computational Thinking and Programming - II) Revision of Python topics covered in Class XI. Introduction Features of PythonKeywords Data Handling, Data Types, Type Conversion Operators, Expressions,Comments in Python Control Statements: Decision Making Statements, Iteration Statements, Jump Statements Strings, Lists, Tuples, DictionarySorting Techniques	• Python Programs based on Lists, Strings, Tuples and Dictionary	
May	UNIT-1 (Computational Thinkingand Programming - II) Data File Handling: Introduction, Why use filesData File Operations Opening and Closing Files withopen() and close() method Reading from file, Writing to afile, Appending to a file Relative and Absolute Paths Standard File Streams Binary File Operations Reading and Writing data from binaryfile Seek() and Tell() methods CSV files CSV file handling in Python Reading and Writing in CSV file	<ul> <li>File Handling Programs in :</li> <li>Text File</li> <li>Binary File</li> <li>CSV File</li> </ul>	

July	UNIT-1 (Computational Thinking and Programming - II) Functions in Python Introduction Difference b/w built-in and user defined functions Returning a value from functionParameters and Arguments in functions Passing Array/Lists in functions Flow of execution Scope of variable in function Using Main() as a function Recusrion	• Python programs related to Functions
August	Unit I: Computational Thinking and Programming – II Data Structure: Stack, operations on stack (push & pop), implementation of stack using list	<ul> <li>Data Structures         Programs on             following:         </li> <li>Stack, Queue</li> </ul>
September	Unit II: Computer NetworksEvolution of networking: introduction to computernetworks, evolution of networking(ARPANET, NSFNET,INTERNET) Datacommunication terminologies: concept ofcommunication, components of datacommunication (sender, receiver, message,communication media, protocols), measuringcapacity of communication media(bandwidth,data transfer rate), IP address, switchingtechniques (Circuit switching, Packetswitching) Transmission media: Wiredcommunication media (Twisted pair cable,Co-axial cable, Fiber-optic cable), Wirelessmedia (Radio waves, Micro waves, Infraredwaves	<ul> <li>Practical of Computer Network and</li> <li>Network Architecture</li> </ul>
October	<ul> <li>Unit II: Computer Networks         <ul> <li>Network devices (Modem, Ethernet card, RJ45, Repeater, Hub, Switch, Router, Gateway, WIFI card)</li> <li>Network topologies and Network types: types of networks (PAN,LAN, MAN, WAN), networking topologies (Bus, Star, Tree) • Network protocol: HTTP, FTP, PPP, SMTP, TCP/IP, POP3, HTTPS,</li> <li>TELNET, VoIP • Introduction to web services:WWW, Hyper Text Markup Language (HTML), Extensible Markup Language (XML),domain names, URL, website, web browser, web servers, web hosting</li> </ul> </li> </ul>	<ul> <li>Practical of Computer Network and</li> <li>Network Architecture</li> </ul>
November	Database concepts: introduction to database concepts and its need Relationaldata model: relation, attribute, tuple, domain, degree, cardinality, keys (candidate key,• primary key, alternate key,foreign key) Structured Query Language: introduction, Data Definition Language and Data Manipulation Language, data type (char(n), varchar(n), int, float, date), constraints (not null,	<ul> <li>Database interface with Python</li> <li>MySQL Practical</li> </ul>

	unique, primary key), create database, use database, show databases, drop database, show tables, create table, describe table, alter table (add and remove an attribute, add and remove primary key), drop table, insert, delete, select, operators (mathematical, relationaland logical), aliasing, distinct clause, where clause, in, between, order by, meaning of null, is null, is not null, like, update command, delete command Aggregate functions (max, min, avg, sum, count), group by, having clause, joins : Cartesian product on two tables, equi join and natural join Interface of python with an SQL database: connecting SQL with Python, performing insert, update, delete queries using cursor, display data by using fetchone(), fetchall(), rowcount, creating database connectivity applications
December	RevisionTests Project Work Practical File
January	
February	

## Syllabus for Assessment 2023-24

	Assessment	Syllabus of Assessment	Practical/Project
Term - 1	PT-1	UNIT- 1 (Computational Thinking and Programming - II) Python Revision Tour Data File Handling	• Data File Handling Programs in Python
	РТ-2	Unit -II (Computer Networks)	<ul> <li>Practical of Computer Network and Network Architecture</li> </ul>
MID TERM		UNIT- 1 (Computational Thinking and Programming - II) Python Revision Tour Data File Handling Functions Data Structure	<ul> <li>Programs based on following:</li> <li>Data file handling</li> <li>Functions</li> <li>Data Structures</li> </ul>
	PT-3	UNIT - III (Database Management)	Database Queries
			• Database interface with Python • MySQL Practical
Term - 2	Annual Exam	Unit -II (Computer Networks) UNIT-III (Database	<ul> <li>Practical of Computer Network and Network Architecture</li> </ul>
		Management)	• Database Queries • Database interface with
			Python • MySql Practical

	SUBJECT : Physical Educa	ation (048)
Books Prescribed :	<u>_</u>	
Month	Chapter No. and Name	Activity / Project/ Practical
April	Unit I: Planning in Sports	
May	Unit II: Sports & Nutrition	
July	Unit II: Sports & Nutrition	Project File (About one sport/game of choice )
		Demonstration of Fitness Activity
		Viva Voce (From Project File; Fitness)
August	Unit V: Children & Women	
	in Sports	
September	Unit VIII: Biomechanics &	
	Sports	
October	Unit III: Yoga & Lifestyle	
	Unit IV: Physical Education &	
	Sports for CWSN	
	(Children With Special Needs	
	– Divyang)	
November	Unit VII: Physiology &	Project File (Yoga and General Motor
	Injuries in Sports	Fitness Test)
		Demonstration of Fitness Activity/Yoga
		Viva Voce (From Project File; General
		Motor Fitness; Yoga)
December	Unit IX: Psychology & Sports	
January	Unit X: Training in Sports	
February	Revision	

# Syllabus for Assessment (Physical Education)

	Assessment	Syllabus of Assessment	Practical/Project
	PT-1	Unit I: Planning in Sports	
	Half Yearly	Unit I: Planning in Sports	Project File (About one sport/game of choice ) Demonstration of Fitness
Term - 1		Unit II: Sports & Nutrition	Activity
		Unit 5 : Children and women in	Viva Voce (From Project File;
		Sports	Fitness)
		Unit 8:Biomechanics & Sports	
	PT-2	Unit III: Yoga & Lifestyle	
	PT-3	Unit IV: Physical Education & Sports for CWSN	
		(Children With Special Needs –	
Term - 2		Divyang)	
Term - 2	Annual Exam	Full syllabus	Project File (Yoga and General Motor Fitness Test) Demonstration of Fitness Activity/Yoga Viva Voce (From Project File;
			General Motor Fitness; Yoga)
			, , , , , , , , , , , , , , , , , , , ,





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### Annual Syllabus Session : 2023-24 Class : XII [Commerce]

SUBJECT : English (301)

	SOBJECT . Eligiisii (S	301 /
Books Prescribed : N	CERT Class XII	
Month	Chapter No. and Name	Activity / Project/ Practical
March/April	1. The Last Lesson 2. Lost	Draft an interview that Franz takes of hi
	Spring 3 My Mother at Sixty	parents ,where they share their feelings
	Six (Poem) 4. Deep Water	when the prussians took control of
		Alsace and Lorraine
May/June	5. The Rattrap 6. An	A comic strip of child procrastinating an
	Elementary School	later regretting for not having paid
	Classroom in a Slum(Poem)	attention to the lessons .
	7. The Third Level Writing-	
	Notice, Article writing	
July	8. Indigo 9. Keeping Quiet	Creative Writing
	(Poem) 10. A Thing of	
	Beauty(Poem) 11. The Tiger	
	King Writing-Poster,Debate	
August	12. Poets and Pancakes 13.	PPT on A Roadside Stand
	Journey to the End of the	
	Earth 14. A Roadside Stand	
	(Poem) 15. Aunt Jennifer's	
	Tigers (Poem	
September	16 .The Enemy 17. The	Extempore
	Interview 18. Going Places	
	Writing- Job Application.	
October	19. Should Wizard hit	Jam -Just a minute
	mommy 20.On the face of it	
	Writing-Speech,	
	Advertisements, Report	
November	21. Evans tries O-level 22.	ASL
	Memories of Childhood	
December	Revision for Boards	ASL
January	Preboards, Revision for	ASL
	Boards	
February	Preboards, Revision for	Group Discussion
	Boards	

## Syllabus for Assessment (English)

	Assessment	Syllabus of Assessment	Practical/Project
	PT-1	The Last Lesson , My Mother at	presentation
		Sixty Six (Poem) Third Level ,	
		Notice	
	Half Yearly	The Rattrap, An Elementary	Extempore
		School Classroom in a	
		Slum(Poem), Deep Water ,	
		Writing-Notice, Article writing	
		JULY, Indigo, Keeping Quiet	
Term - 1		(Poem), A Thing of Beauty(Poem)	
		, The Tiger King Writing-	
		Poster, Debate AUGUST Poets and	
		Pancakes, Journey to the End of	
		the Earth , A Roadside Stand	
		(Poem), Aunt Jennifer's Tigers	
		(Poem) , The Enemy , The	
		Interview , Going Places Writing-	
		Job Application	
	PT-2	Should Wizard hit mommy, .On	Group Discussion
		the face of it Writing-Speech,	
Term - 2		Advertisements, Report	
1em - 2	PT-3	Evans tries O-level, Memories of	Creative Writing
		Childhood	
	Annual Exam	Full Syllabus	ASL

SUBJECT : Accounts(055) Books Prescribed : DK Goel Part A and Part B			
			Month
March/April	Chapter 1: fundamentals of partnership Chapter 2: Valuation of goodwill Chapter 3: Change in Profit sharing ratio	<ul> <li>Assignments of these topics.</li> <li>Multiple choice questions.</li> <li>Revision tests</li> </ul>	
Мау	Chapter 4: Admission of partners	<ul> <li>Assignments of these topics.</li> <li>Multiple choice questions.</li> <li>Revision tests</li> </ul>	
July	Chapter 5: Retirement and death of a partner Chapter 6: Dissolution of firm.	<ul> <li>Assignments of these topics.</li> <li>Multiple choice questions.</li> <li>Revision tests</li> </ul>	
August	Vol 2 part A Chpater1 : Issue of Shares Chapter 2 : issue of debentures	<ul> <li>Assignments of these topics.</li> <li>Multiple choice questions.</li> <li>Revision tests</li> </ul>	
		<ul> <li>Assignments of these topics.</li> <li>Multiple choice questions.</li> <li>Revision tests</li> </ul>	
September	Part B Chapter 1: financial statements of companies Chapter 2: analysis of financial statements.	<ul> <li>Assignments of these topics.</li> <li>Multiple choice questions.</li> <li>Revision tests</li> </ul>	
October	Chapter 3: accounting ratios Chapter 4: cash flow statements	<ul> <li>Assignments of these topics.</li> <li>Multiple choice questions.</li> <li>Revision tests</li> </ul>	
November	Chapter 4: cash flow statements	<ul> <li>Assignments of these topics.</li> <li>Multiple choice questions.</li> <li>Revision tests</li> </ul>	
December	Remedial classes Practical File Activity file		
January			
February			

Syllabus für Assessment (Accounts)			5/
	Assessment	Syllabus of Assessment	Practical/Activity
Term - 1	PT-1	Chapter 1 fundamentals of partnership Chapter 2: valuation of goodwill	Viva and practical
	Half Yearly	PT 1 syllabus and Chapter 3 change in Profit sharing Ratio Chapter 4 Admission of partner Chapter 5 Retirement and death Chapter 6 dissolution	Viva and practical
Term - 2	PT-2	Issue of shares	Viva and practical
	РТ-3	Issue of debentures Financial statement of companies Liquidity and solvency ratios	Viva and practical
	Annual Exam	Part A Vol 1 Vol 2 Part B	External practical examination.

## Syllabus for Assessment (Accounts)

# SUBJECT : BUSINESS STUDIES ( 054 )

Month	Chapter No. and Name	Activity / Project/ Practical
March/April	Chapter 1: nature and significance of management Chapter 2: principles of management	<ul> <li>Assignments of these topics.</li> <li>Multiple choice questions.</li> <li>Revision tests</li> </ul>
Мау	Chapter 3: business environment Chapter 4: planning	<ul> <li>Assignments of these topics.</li> <li>Multiple choice questions.</li> <li>Revision tests</li> </ul>
July	Chapter 5: organising Chapter 6: staffing	<ul> <li>Assignments of these topics.</li> <li>Multiple choice questions.</li> <li>Revision tests</li> </ul>
August	Chapter 7: directing Chapter 8 : controlling	<ul> <li>Assignments of these topics.</li> <li>Multiple choice questions.</li> <li>Revision tests</li> </ul>
September	Chapter 9: financial management	<ul> <li>Assignments of these topics.</li> <li>Multiple choice questions.</li> <li>Revision tests</li> </ul>
October	Chapter 10: financial markets Chapter 11: marketing management	<ul> <li>Assignments of these topics.</li> <li>Multiple choice questions.</li> <li>Revision tests</li> </ul>
November	Chapter 12: consumer protection	<ul> <li>Assignments of these topics.</li> <li>Multiple choice questions.</li> <li>Revision tests</li> </ul>
December	Revision Tests Project Work Practical File	
January		
February		

# Syllabus for Assessment (Business Studies)

	Assessment	Syllabus of Assessment	Practical/Project
	PT-1	Chapter 1: nature and significance of management Chapter 2 : principles of henry fayol.	Viva and practical
Term - 1	PT-2	Chapter 2: principles of taylor Chapter 3 business environment Chapter 4: planning	Viva and practical
MID TERM		PT 1 PT 2 syllabus and Chapter 5 organising Chapter 6 staffing Chapter 7 directing	Viva and practical
	PT-3	Chapter 8 controlling Chapter 9 financial management	Viva and practical
Term - 2	Annual Exam	Chapter 4 planning Chapter 5 organising Chapter 6 staffing Chapter 7 directing Chapter 11 marketing management Chapter 12 consumer protection	Viva and practical

### SUBJECT : Economics (030)

# Books Prescribed : sandeep garg macro eco and indian ecoMonthChapter No. and NameActivity / Project/ PracticalMarch/AprilUnit 1<br/>Chapter 1 circular flow of income<br/>Chapter2 basic concepts<br/>Chapter 3 calculation of national<br/>income• Assignments of these topics.<br/>• Multiple choice questions.<br/>• Revision testsMayUnit 2<br/>Chapter 4 money<br/>Chapter 5 banking• Assignments of these topics.<br/>• Multiple choice questions.<br/>• Revision tests

Мау	Unit 2 Chapter 4 money Chapter 5 banking	<ul> <li>Assignments of these topics.</li> <li>Multiple choice questions.</li> <li>Revision tests</li> </ul>
ylut	Unit 3 Chapter 6 aggregate demand and aggregate supply Chapter 7 income determination Chapter 8 excess and deficient demand Unit 4 government budget	<ul> <li>Assignments of these topics.</li> <li>Multiple choice questions.</li> <li>Revision tests</li> </ul>
August	Unit 5 Chapter 10 forex Chapter 11 Balance of payment Indian eco Chapter 1 Indian economy on the eve of independence	<ul> <li>Assignments of these topics.</li> <li>Multiple choice questions.</li> <li>Revision tests</li> </ul>
September	Chapter 2 Indian eco 1950 to 1990 Chapter 3 new economic policy	<ul> <li>Assignments of these topics.</li> <li>Multiple choice questions.</li> <li>Revision tests</li> </ul>
October	Chapter 4: human capital formation Chapter 5 rural development Chapter 6 employment	<ul> <li>Assignments of these topics.</li> <li>Multiple choice questions.</li> <li>Revision tests</li> </ul>
November	Chapter 7 : environment and sustainable development Chapter 8 India China and Pakistan	<ul> <li>Assignments of these topics.</li> <li>Multiple choice questions.</li> <li>Revision tests</li> </ul>
December	Remedial classes Practical File Activity file	
January		
February		

Syllabus for Assessment (Econon	nics)
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	Assessment	Syllabus of Assessment	Practical/Activity
	PT-1	Unit 1 Chapter 1 circular flow of income Chapter 2 basic concepts Chapter 3 calculation of national income	Viva and practical
Term - 1	Half Yearly	PT 1 syllabus and Unit 2 Chapter 4 money Chapter 5 banking Unit 3 Chapter 6 ad and as Chapter 7 income determination Chapter 8 excess and deficient demand Unit 4 government budget Unit 5	Viva and practical
	PT-2	Chapter 1 Indian economy on the eve of independence Chapter 2 Indian economy 1950-1990	Viva and practical
Term - 2	PT-3	Chapter 3 new economic policy Chapter 4 human capital formation	Viva and practical
	Annual Exam	Full Indian eco	External practical examination.

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Month	scribed : NCERT (PART I AND PART II) Chapter No. and Name	Activity / Project/ Practical
March	Unit-II: Algebra CH 1. Matrices Concept, notation, order, equality, types of matrices, zero and identity matrix, transpose of a matrix, symmetric and skew symmetric matrices. Operation on matrices: Addition and multiplication and multiplication with a scalar. Simple properties of addition, multiplication and scalar multiplication. On commutativity of multiplication of matrices and existence of non-zero matrices whose product is the zero matrix (restrict to square matrices of order 2). Invertible matrices and proof of the uniqueness of inverse, if it exists; (Here all matrices will have real entries).	
April	<b>CH 4. Determinants</b> Determinant of a square matrix (up to 3 x 3 matrices), minors, co- factors and applications of determinants in finding the area of a triangle. Adjoint and inverse of a square matrix. Consistency, inconsistency and number of solutions of system of linear equations by examples, solving system of linear equations in two or three variables (having unique solution) using inverse of a matrix.	
Мау	Unit-I: Relations and Functions CH 1. Relations and Functions Types of relations: reflexive, symmetric, transitive and equivalence relations. One to one and onto functions. CH 2. Inverse Trigonometric Definition, range, domain, principal value branch. Graphs of inverse trigonometric functions.	<ol> <li>To verify that the</li> <li>relation R in the set L of all lines in a plane, defined by</li> <li>R = {(I, m) : I ⊥ m} is symmetric but neither reflexive nor transitive.</li> <li>To verify that the</li> <li>relation R in the set L of all lines in a plane, defined by</li> <li>R = {(I, m) : I    m} is an equivalence relation.</li> <li>To demonstrate a function that is not one-one but is onto.</li> <li>To demonstrate a function that is one one but not onto.</li> <li>To draw the</li> </ol>

		<ul> <li>1 P≥P ≥, using the graph of sin x and demonstrate the concept of mirror reflection (about the line y = x). 6. To explore the principal value of the function ≥P≥<sup>-1</sup> x using a unit circle.</li> </ul>
July	Unit-III: Calculus         CH 5. Continuity and Differentiability.         Continuity and differentiability, chain rule, derivative of inverse trigonometric functions,         DIDE DIDE <sup>-1</sup> (Derivative)         Image: Second order derivative of exponential and logarithmic functions.         Derivatives of logarithmic and exponential functions.         Derivatives of logarithmic and exponential functions.         Logarithmic forms.         Second order derivatives.	7. To sketch the graphs of 2 <sup>o</sup> and 222 <sub>o</sub> 2, $a > 0$ , $a \neq 1$ and to examine that they are mirror images of each other. 8. To establish a relationship between common logarithm (to the base 10) and natural logarithm (to the base e) of the number x. 9. To find analytically the limit of a function f (x) at x = c and also to check the continuity of the function at that point. 10. To verify that for a function f to be continuous at given point $\mathbb{Z}_0$ , $\Delta y =  f(\mathbb{Z}_0 + \Delta \mathbb{Z}) - \mathbb{Z}(\mathbb{Z}_0) $ is arbitrarily small provided. $\Delta x$ is
	test given as a provable tool). Simple problems (that illustrate basic principles and understanding of the subject as well as reallife situations).	sufficiently small. <b>11.</b> To verify Rolle's Theorem. <b>12.</b> To verify Lagrange's Mean Value. <b>13.</b> To understand the concepts of decreasing and

increasing functions.	
14. To understand	d
the	
concepts of local	
maxima, local minima	а
and point of	
inflection.	
15. To understand	d
the	
concepts of absolute	
maximum and	
minimum values of a	
function in a given	
closed interval	
through its graph.	
16. To construct	
an open	
box of maximum	
volume from a given	
rectangular sheet by	
cutting equal squares	;
from each	
corner.	
17. To find the	
time when	
the area of a	
rectangle of given	
dimensions become	
maximum, if the	
length is decreasing	
and the breadth is	
increasing at given	
rates.	
18. To verify that	
amongst	
all the rectangles of	
the same perimeter,	
the square has the	
maximum area.	

August	CH 7. Integrals	<b>19.</b> To evaluate
	Integration as an inverse process of differentiation. Integration of a variety of functions by substitution, by partial fractions and by parts, Evaluation of simple integrals of the following types and problems based on them. $\int \frac{dx}{x^2 \pm a^2} \int \frac{dx}{\sqrt{x^2 \pm a^2}}, \int \frac{dx}{\sqrt{a^2 - x^2}},$ $\int \frac{dx}{\sqrt{ax^2 + bx + c}}, \int \frac{dx}{\sqrt{ax^{2+bx+c}}}$ $\int \frac{px + q}{ax^2 + bx + c} dx, \int \frac{px + q}{\sqrt{ax^{2+bx+c}}} dx,$ $\int \sqrt{a^2 \pm x^2} dx,  \int \sqrt{x^2 - a^2} dx$ Fundamental Theorem of Calculus (without proof).Basic properties of definite integrals and evaluation of definite integrals.	the definite integral $\int_{\mathbb{Z}}^{\mathbb{Z}} \sqrt{(1 - \mathbb{Z}^2)} dx$ as the limit of a sum and verify it by actual integration.
September	<b>CH 8. Applications of the Integrals</b> Applications in finding the area under simple curves, especially lines, parabolas; area of circles /ellipses (in standard form only) (the region should be clearly identifiable). <b>CH 9. Differential Equations</b> Definition, order and degree, general and particular solutions of a differential equation. Solution of differential equations by method of separation of variables, solutions of homogeneous differential equations of first order and first degree. Solutions of linear differential equation of the type: dy/dx + py = q, where p and q are functions of x or constants. d\[2]/ d\[2] + px = q, where p and q are functions of y or constants.	b
October	<ul> <li>Unit-IV: Vectors and Three-Dimensional Geometry CH 10: Vectors</li> <li>Vectors and scalars, magnitude and direction of a vector.</li> <li>Direction cosines and direction ratios of a vector. Types of vectors (equal, unit, zero, parallel and collinear vectors), position vector of a point, negative of a vector, components of a vector, addition of vectors, multiplication of a vector by a scalar, position vector of a point dividing a line segment in a given ratio. Definition, Geometrical Interpretation, properties and application of scalar (dot) product of vectors, vector (cross) product of vectors.</li> <li>CH 11: Three - dimensional Geometry Direction cosines and direction ratios of a line joining two points. Cartesian equation and vector equation of a line, skew lines, shortest distance between two lines. Angle between two lines.</li> </ul>	1. To verify geometrically that: $\vec{c} \times (\vec{a} + \vec{b}) = \vec{c} \times \vec{a} + \vec{c} \times \vec{c}$ 2. To verify that angle in a semicircle is a right angle, using the vector method. 3. To locate the points to give coordinates in space, measure the distance between two points in space and then to verify the distance using distance formula. 4. To demonstrate the

November	Unit-V: Linear Programming CH 12: Linear Programming Introduction, related terminology such as constraints, objective function, optimization, graphical method of solution for problems in two variables, feasible and infeasible regions (bounded or unbounded), feasible and infeasible regions (bounded or unbounded), feasible and infeasible solutions, optimal feasible solutions (up to three non-trivial constraints). Unit-VI: Probability CH 13: Probability Conditional probability, multiplication theorem on probability, independent events, total probability, Bayes' theorem, Random variable and its probability distribution, mean of random variable	equation of a plane in normal form. 5. To verify that the angle between two planes are the same as the angle between their normals. 6. To find the distance of a given point (in space) from a plane (passing through three non- collinear points) by actual measurement and also analytically. 7. To measure the shortest distance between two skew lines and verify it analytically. 8. To explain the computation of the conditional probability of a given event A, when event B has already occurred, through an example of throwing a pair of dice.
December	Pre Boards, Revision for Boards	—
January	Pre Boards, Revision for Boards	_
February	Boards	—

# Syllabus for Assessment (Maths)

	Assessment	Syllabus of Assessment	Practical/Project
	PT-1	CH 3: Matrices CH 4: Determinants	To verify that the relation R in the set L of all lines in a plane, defined by R = {(I, m) : I ⊥m} is symmetric but neither reflexive nor transitive.
Term - 1	Half Yearly	CH 1: Relations & Functions CH 2: Inverse Trigonometric Functions CH 3: Matrices CH 4: Determinants CH 5: Continuity and Differentiability CH 6: Application of Derivatives CH 7. Integrals	To find analytically the limit of a function f (x) at x = c and also to check the continuity of the function at that point.
	PT-2	CH 8. Applications of the Integral CH 9. Differential Equations	To construct an open box of maximum volume from a given rectangular sheet by cutting equal squares from each corner.
Term - 2	PT-3	CH 10. Vectors CH 11. Three - dimensional Geometry	To measure the shortest distance between two skew lines and verify it analytically.
	Annual Exam	Full syllabus	Every student will be asked to do at least one project based on the concepts learnt in the classroom.

	SUBJECT : Physical Educa	ation(048)
Books Prescribed :		
Month	Chapter No. and Name	Activity / Project/ Practical
April	Unit I: Planning in Sports	
May	Unit II: Sports & Nutrition	
July	Unit II: Sports & Nutrition	Project File (About one sport/game of choice )
		Demonstration of Fitness Activity
		Viva Voce (From Project File; Fitness)
August	Unit V: Children & Women in Sports	
September	Unit VIII: Biomechanics &	
	Sports	
October	Unit III: Yoga & Lifestyle Unit IV: Physical Education & Sports for CWSN (Children With Special Needs – Divyang)	
November	Unit VII: Physiology & Injuries in Sports	Project File (Yoga and General Motor Fitness Test) Demonstration of Fitness Activity/Yoga
		Viva Voce (From Project File; General Motor Fitness; Yoga)
December	Unit IX: Psychology & Sports	
January	Unit X: Training in Sports	
February	Revision	

# Syllabus for Assessment (Physical Education)

	Assessment	Syllabus of Assessment	Practical/Project
	PT-1	Unit I: Planning in Sports	
	Half Yearly		Project File (About one
		Unit I: Planning in Sports	sport/game of choice )
			Demonstration of Fitness
Term - 1		Unit II: Sports & Nutrition	Activity
		Unit 5 : Children and women in	Viva Voce (From Project File;
		Sports	Fitness)
		Unit 8:Biomechanics & Sports	
	PT-2	Unit III: Yoga & Lifestyle	
	PT-3	Unit IV: Physical Education &	
		Sports for CWSN	
		(Children With Special Needs –	
		Divyang)	
Term - 2			
	Annual Exam	Full syllabus	Project File (Yoga and General
			Motor Fitness Test)
			Demonstration of Fitness
			Activity/Yoga Viva Voce (From Project File;
			General Motor Fitness; Yoga)