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# RADHA GOVNID PUBLIC SCHOOL

Anuyogipuram , Garh Road, Meerut

CLASS – XI

SYLLABUS : SESSION 2025-26

CLASS NAME –SCIENCE & COMMERCE

Name: \_\_\_\_\_

Class: \_\_\_\_\_

Admn.NO: \_\_\_\_\_

Phone No: \_\_\_\_\_



LEARN

*“Optimism is the faith that leads to achievements. Nothing can be done without hope and confidence”*

*Note: Kindly preserve this syllabus in the student's personal file for the entire session 2025-26. In case it is lost or destroyed a duplicate copy will be available for Rs.30/-.*



	प्रथम आवधिक मूल्यांकन	जनसंचार एवं अभियक्ति अनीपचारिक पत्र	जनसंचार
अगस्त		अपठित	अपठित गद्यांश
		आरोह गद्य खंड	गलता लोहा
		आरोह काव्य खंड	त्रिलोक चंपा काले करके अच्छर नही चीन छति
		वितान	राजस्थान की रजत बुँदे (अनुपम मिश्र)
		जनसंचार एवं अभियक्ति अनीपचारिक पत्र	जनसंचार + कथा पटकथा
सितम्बर	अर्द्धवार्षिक परीक्षा		
अक्टूबर		रचनात्मक गतिविधि	
		आरोह गद्य खंड	जामुन का पेड़ (कृन् चंदर)
		आरोह काव्य खंड	गजल (दुष्यंत कुमार)
		जन संचार एवं अभियक्ति	डायरी लेखन
नवंबर	द्वितीय आवधिक मूल्यांकन	रचनात्मक गतिविधि	
		आरोह गद्य खंड	रजनी
		आरोह काव्य खंड	अक्क महादेवी + वाश
		जन संचार एवं अभियक्ति	पत्रकारिता के विविध आयाम
दिसम्बर	द्वितीय आवधिक मूल्यांकन	अपठित	अपठित पद्यांश
		आरोह गद्य खंड	भारत माता (ज. ल. नेहरू)
		आरोह काव्य खंड	आओ मिलकर बचाए (निर्मला पुतुल)
		वितान	आलो आँधारी (बेबी हालदार)
		जन संचार एवं अभियक्ति	जनसंचार

## MATHS (Code- 041)

Months		Chapter	Practicals/ Activities
April & May		Ch 1 Sets	1. To verify that for two sets A and B, $n(A \times B) = pq$ and total number of relation from A to B is $2^{pq}$
		Ch 2 Relational and Function	2 To represent set theoretic operations using venn diagram
July	PA- I Examination	Ch 3 Trigonometric Functions Ch 4 Complex Number	3. Distinguish between a relation and a function. 4. To identify a relation and a function.
		Ch 5 Linear Inequalities Ch 6 Permutation and Combination Ch 7 Binomial Theorem	5. To plot the graph of $\sin x$ , $\sin 2x$ , $\sin x/2$ using same coordinate axes.
August			
September	Half Yearly Examination		6. To find the values of sine and cosine functions in second, third and fourth quadrant using their given values in I quadrant.
October		Ch 8 Sequence and Series	7. To verify the relation between the degree measure and the radian measure of an angle.
		Ch 9 Straight lines	
November		Ch 10 Conic Section	8. To verify distributive law of for three given non-empty sets A, B and C, that is $A \cup (B \cap C) = (A \cup B) \cap (A \cup C)$
		Ch 11 3-D Geometry	
		Ch 13 Statistics	
December	PA-III Examination	Ch 12 Limits and Derivatives	
		Ch 14 Probability	
January	Revision		Revision for PA-III Examination
February			Revision
			Annual Examination

## PHYSICS (Code -042)

Name of the Book	Publisher	
PART - I II	PART - LAB MANUAL NCERT Practical Notebook	
Months	Chapter	Practical & Activity

April		1: Units & Measurements 2: Motion in a Straight Line	1. To measure diameter of a small spherical/cylindrical body and to measure internal diameter and depth of a given beaker/calorimeter using Vernier Callipers and hence find its volume.
May		3: Motion in a Plane	2. To measure diameter of a given wire and thickness of a given sheet using screw gauge. Sec A (Activity-1) To make a paper scale of given least count, e.g., 0.2cm, 0.5 cm
June	P.A-I Examination		
July	Half Yearly Examination	4: Laws of Motion 5: Work, Energy & Power 6: System of Particles and Rotational Motion	3.To determine the mass of two different objects using a beam balance. 4. Using a simple pendulum, plot its L-T <sup>2</sup> graph and use it to find the effective length of second's pendulum Sec A (Activity-2) To determine mass of a given body using a metre scale by principle of moments.
August		7: Gravitation 8: Mechanical Properties of Solids	5. To study variation of time period of a simple pendulum of a given length by taking bobs of same size but different masses and interpret the result. 6. To study the relationship between force of limiting friction and normal reaction and to find the co- efficient of friction between a block and a horizontal surface. SecA (Activity.3) To measure the force of limiting friction for rolling of a roller on a horizontal plane.
September		9: Mechanical Properties of Fluids	7. To determine the surface tension of water by capillary rise method. 8. To determine the coefficient of viscosity of a given viscous liquid by measuring terminal velocity of a given spherical body. SecB(Activity-2)To study the effect of detergent on surface tension of water by observing capillary rise
October		10: Thermal Properties of Matter 11: Thermodynamics	6. To observe the decrease in pressure with increase in velocity of a fluid. SecB(Activity2) To not the change label of liquid in a contaner on heating and interpret the observations.
November	PA-III Examination	12: Kinetic Theory 13: Oscillations	
December		14: Waves	
January	Revision classes		
February	Annual Examination		
Chemistry (Code -043)			
Name of the Book		Publisher	
PART - I II	PART - LAB MANUAL	NCERT Laxmi Publication	
Months		Chapter	Practical

April & May		Ch 1 Some basic concept of Chemistry	Preperation of standard solution of oxalic acid, basic laboratoy techniques
			1. Determination of strength of a given solution of sodium hydroxide by titrating it against standard solution of oxalic acid. 2. Determination of anion and cation in a given salt.
		Ch 2 Structure of Atom	Preperation of standard solution of sodium carbonate.
		Ch 3 Classification of elements.	Determination of strength of a given solution of hydroChloric acid by titrating it against standard sodium carbonate solution.
June	PA- I Examination		
August & September	Half Yearly Examination	Ch 4 Chemical Bonding Ch 5 Thermodynamic	Crystallization of impure sample of alum. Determination of anion and cation in a given salt.
October		Ch 6 Equilibrium	Crystallization of impure salt of copper sulphate.
November		Ch 6 Equilibrium	Experiements based on ph
		Ch 7 Redox reactions	
December	PA- III Examination	Ch 8 organic Chemistry	Determination of anion and cation in a given salt.
		Ch 9 Hydrocarbons	Determination of anion and cation in a given salt.
January	Revision		
February	Annual Examination		

## Biology (Code -044)

Name of the Book		Publisher	
BIOLOGY TEXT BOOK MANUAL		LAB	NCERT Laxmi Publication
Months		Chapter	Practical
April & May	PA-I Examination	Unit -1 Diversity in the living world Ch 1- The living world Ch 2- Biological classification Ch 3- Plant kingdom	
June		Ch 4- Animal kingdom  Unit-2 Structural organization in plants and animals Ch 5- Morphology of flowering plants	1- Ovserve the parts of compound microscope
			2- Identify the specimens/slides - bacteria, oscillatoria,spirogyra,rhizopus,mushroom,moss,pine,fern and lichen
July	Half Yearly Examination	Ch 6- Anatony of flowering plants. Ch 7- Structural organization in animals Unit-3 Cell: structure and function Ch 8- Cell: The unit of life	3-.Identify the specimens/ slides- amoeba, hydra, liverfnuke,ascaris,leech,earthworm,prawn,honeybee,starfish ,shark,rohu,frog,lizard
			4- Test for the presence of sugar,starch,protiens and facts in sutiable plants and animal materials
August		Ch 9- Biomolecules Ch 10- Cell cycle and cell division Unit-4 Plant Physiology	
			5- Study of osmosis by potato osmometer
			6- Study of distridution of stomata in the uppar and lower surfaces in leaves
			7- Study of the rate the transpiration in the uppar and lower surfaces of leaves

			8- Preparation and study of T.S. of dicot and monocot root
September		Mid term Examination	
October		Ch 13- Photosynthesis in higher plants Ch 14- Respiration in plants Ch 15- Plants growth and development Unit-5 Human physiology	9- Preparation and study of T.S. dicot and monocot stem
			10- Separation of plants pigments through paper Chromatography
			11- Observation of permanent slides of tissues
November		Ch 17- Breathing and ExChange of gases Ch 18- Body fluids and circulation	12- Mitosis in onion root tip cells
December	PA-III Examination	Ch 19- Excretory fluids and their elimination Ch 20- Locomotion and movement Ch 21- Neural control and cordination Ch 22- Chemical coordination and integration	13 - Study of the rate of respiration in germinating seeds
January		Revision	15- Human skeleton and different joints with the help of model
February	Annual Examination		

## Painting (Code -049)

Name of the Book		Publisher	
An Introduction to Indian Art Part I		NCERT/Panoramic	
Months		Chapter	Practicals/ Activities
April & May	P A -I Examination Unit - 1	Unit 1 -1.Pre Historic Rock Painting 2.Art of Indus valley civilization	Landscape
June		Unit 2: -3.Gupta Period 4.Art of Ajanta	Still life Object Landscape
July	Half yearly Examination Unit - 1,2,3,4	Unit 3: 5.Indian Temple Sculpture 6.Indian Bronze	Landscape Composition (Dancing)
August		7.Indo -Islamic ArChitecture	Composition (working)
September		Revision:-1.Prehistoric Rock Painting 2.Indus Valley civilization	Landscape
October		Revision:-3.Gupta period 4.Art of Ajanta	Composition(worship)
November	P A -III Examination Unit - 1,2,3,4,5,6,7	Revision:-5.Indian Temple 6.Indian Bronze	Still life object
December		Revision:-7.Indo islamic Architecture	
January			Revision
February	Annual Examination		

## Physical Education (Code -048)

Name of the Book		Publisher	
Physical & Healthy Education		NB	
Months		Chapter	Practical
April & May		Changing Trends and Career in Physical Education olympism value education	Football

June	PA-1 EXAMINATION	Yoga	Yoga
July & August		Physical Education and Sports for CWSN	Badminton
		Physical fitness, wellness and lifestyle	
		test measurement & Evaluation	
September	Half Yearly Examination	Fundamental of Anatomy,Physiology in sports	Sai Khelo India Test, Flamingo Test
October		Fundamental of Kinesiology & Biomchanics in sports	Kho-Kho
November		PsyChology & sports	Cricket
December	PA-III Examination	Training and Doping in sports	Volleyball
January		Revision	
February	Annual Examination		

## Hindustani Music Vocal (034)

Name of the Book		Publisher	
Sangeet Manjusha		New Saraswati House	
Months		Chapter	Practical
April & May		Unit-1 Brief study of the following, Nada, Shruti, Swar, Saptak, Thaata, Jati, Raag,Khyal and Tarana, Teen Taal	भैरवी, मीम पलासी, मार्गी, देशी संगीत
July	PA-1 EXAMINATION	Unit-2 Brief study of the following Dhrupad, Brief study of various gharanas, Laya, Tala, Margi-desi	
August		Unit-3 Breif study of the musical elements in natyashastra, Life sketCh and contriution of tansen, V.N. Bhartkhande and V.D. Paluskar	चार ताल, एक ताल ,Knowledge of structure of Tanpura
September	Half Yearly Examination	Unit-4 Description of prescribed talas with along tala notation with Thah, Dugun and Chaugun.	
October		Unit-5 Critical study of prescribed ragas along with recognizing raga.from pharese of swara and ellborating them. Writing in notation the composition of prescribed ragas	लय, ताल
November		Detail study of all Ragas and Talas	
December	PA-III Examination	Revision	
January			
February	Annual Examination		

## IP(065)

Name of the Book		Publisher	
Informatics Practices		NCERT	CBSE
Months	P.A	Section	Chapter
April & May	P A -I Examination Unit - 1,2	Unit 1: Introduction to Computer System	Make a powerpoint presentation on "Types of Software"
		Unit 2: Introduction to Python	
July	Half yearly Examination Unit - 1,2,3,4	Unit 2: Introduction to Python (Cont.)	Project 1 (Python Programs)
August		Unit 3: Data Handling using NumPy	Project 2 (NumPy Functions)
September		Unit 3: Data Handling using NumPy (Cont.)	
		Unit 4: Database concepts and the Structured Query Language	Project 3 (Database query)

October		Unit 4: Database concepts and the Structured Query Language (Cont.)	
November	P A -III Examination Unit - 1,2,3,4,5	Unit 5: Introduction to the Emerging Trends	Create a Powerpoint Presentation on "Emerging Trends"
December		Unit 5: Introduction to the Emerging Trends (Cont.)	
January			Revision
February	Annual Examination		

## Economics (Code -030)

Name of the Book	Publisher	
Statistics for Economics	NCERT/SANDEEP GARG	

Months	PA	Section	Chapter
April (24 Days) May (25 Days)			Micro- Ch- 1 Economics & Economy Ch- 2 Central problem of an economy Statistics- Ch- 1 Concept of Economics & Significance of statistics Ch- 2 Collection of data Ch- 3 Organisation of data
July (23 Days)	P A -I Examination Ch- 1,2 of Micro and Ch- 1, 2 of Statistics		Micro- Ch- 3 Consumer's Equilibrium Ch- 4 Theory of Demand Statistics- Ch- 4 Presentation of data Ch- 5 Diagrammatic Presentation of data
August (22 Days)			Micro- Ch- 5 Price elasticity of demand Ch- 6 Production function and returns to a factor Statistics- Ch- 6 Frequency diagram
September (23 Days)	Half yearly Examination Ch- 1,2,3,4 ,5 & 6 of Micro and Ch- 1,2,3,4&5 of Statistics		Revision
October (22 Days)			Micro- Ch- 7 Concepts of cost Ch- 8 Concepts of revenue ch-9 Producer's Equilibrium Statistics- Ch- 8 Measure of central tendency - Median and Mode
November (20 Days)	PA -III Examination Ch- 7,8,9 Of micro and Median and mode		Micro- Ch-10 Theory of supply Ch-11 Forms of market Statistics- Ch- 9 Correlation Ch-10 Index Number
December (24 Days)			Micro Ch- 12 Market equilibrium under perfect competition and effects of shifts in demand and supply
January (20 Days)		Revision	
February (24 Days)	Annual Examination		

## Business Studies (Code -054)

Name of the Book	Publisher	
Business Studies	NCERT/SANDEEP GARG	

Months		Section	Chapter
April (24 Days)			Ch- 1 Nature and Purpose of Business, Ch-2 Forms of Business Organisations
July (23 Days)	P A -I Examination Ch - 1& 2		Ch- 3 Public, Private and Global enterprises, Ch-4 Business Services
August (22 Days)			Ch-5 Emerging Modes of Business Ch-6 Social Responsibility of business and business ethics
September (23 Days)	Half yearly Examination Ch- 1, 2, 3, 4 & 5		Revision



October (22 Days)			Ch- 7 Sources of business finance, Small business and Enterprises	Ch-8
November (20 Days)			Ch- 9 Internal trade, International Trade	Ch-10
December (24 Days)	PA -III Examination Ch- 6,7 & 8			
January (20 Days)		Revision		
February (24 Days)		Annual Examination		

## Accountancy (Code -055)

Name of the Book		Publisher	
Financial Accounting Part I & II		NCERT	
Months	PA	Section	Chapter
April (24 Days)			Ch 1 : Meaning and Objectives of Accounting Ch 2 : Basic Accounting Terms Ch 3 : Accounting Principles Ch 4 : Process and Bases of Accounting
May (25 Days)			Ch 5 : Accounting Standards Ch 6 : Accounting Equations Ch 7 : Double Entry system
July (23 Days)	P A -I Examination Ch - 1,2,3,4		Ch 8 : Origin of transactions : Source documents of Accountancy Ch 9 : Books of original Entry - Journal Ch 10 : Accounting for Goods and Service Tax(GST)
August (22 Days)			Ch 11 : Books of original Entry - Cash Book Ch 12 : Books of original Entry - Special Purpose Subsidiary Books
September (23 Days)	Half yearly Examination Unit - 1,2,3,4,5,6,7,8,9,10		Ch 13 : Ledger Ch 14 : Trial Balance and Errors Ch 15 : Bank Reconciliation Statement Ch 16 : Depreciation Ch 17 : Provisions and Reserves

October (22 Days)			Ch 18 : Rectification of Errors Ch 19 : Capital and Revenue
November (20 Days)	PA -III Examination Unit - 1,2,3,4,5,		Ch 20 : Financial Statements Ch: 21 Financial Statements - With Adjustments
December (24 Days)			
January (20 Days)			Revision
February (24 Days)	Annual Examination		

## Applied MATHS (Code- 241)

Months		Chapter	Practicals/ Activities
April & May		Ch 1 Numbers	Activity Related to Numbers and Logarithms
		Ch 2 Indices and Logarithms	
July	PA- I Examination	Ch 3 Quantitative aptitude Ch 4 Mensuration Ch 5 Sets and Relations Ch 9 Function	Activity Related to Mensuration
August		Ch 6 Sequences and series Ch 7 Permutations and Combinations Ch 8 Logical Reasoning Ch 10 Limits and Continuity	Activity Related to Logical Reasoning and Sequences
September	Half Yearly Examination		
October		Ch 11 Differentiation	Activity Related to Probability
		Ch 12 Probability	
		Ch 13 Descriptive Statistics	

November		Ch 14 Compund Interest and Annuity	Activity Releated to Principels and Intrest
		Ch 15 Taxation	
		Ch 16 Utility Bills	
December	PA-III Examination	Ch 17 Straight Line	Activity Releated to Circle and Parabola
		Ch 18 Circle and Parabola	
January	Revision		Revision for PA-III Examination
February			Revision
			Annual Examination