

**ARMY PUBLIC SCHOOL MEERUT CANTT**  
**SYLLABUS BIFURCATION 2023-24**  
**CLASS X**

**SUBJECT – English**

**BOOKS –BOOKS: 1. First Flight**  
**2. Footprints without feet (Supplementary Reader)**  
**3.Applied English Grammar & Composition**

**PUBLISHER – NCERT**

ASSESSMENTS	% SYLLABUS TO BE COVERED	MONTH	TOPICS	PERIODS REQUIRED	ACTIVITIES
	15%	APRIL	<ol style="list-style-type: none"> <li>1. FF- A Letter to God( 03)</li> <li>2. FF- Dust of Snow ( 02)(Poem)</li> <li>3. FF - Fire and Ice ( 02) (Poem)</li> <li>4. FF-Nelson Mandela (05 )</li> <li>5. WS-Letter to Editor( 03 )</li> <li>6. GR- Tenses (03)</li> </ol>	18	Activity: Portfolio(Descriptive Unseen Passage )
	10%	MAY	<ol style="list-style-type: none"> <li>1. FWF - A Triumph of Surgery ( 03)</li> <li>2.FWF - The Thief’s Story( 03)</li> <li>3.FF - Two stories about Flying I.His First Flight (02) II. Black Aeroplane (02)</li> <li>4.FF - A Tiger in the Zoo( 02)(Poem)</li> <li>5.WS- Letter of Complaint ( 03)</li> </ol>	15	Multiple Assessment- Prepare a poster on how natural calamities play havoc in the lives of people with reference to Ch- A Letter to God. (Activity)
	10%	JUNE	<ol style="list-style-type: none"> <li>1. FF - The Ball Poem (02)(Poem)</li> <li>2. FF - Amanda (02)(Poem)</li> <li>3. FF - How to tell Wild Animals (03)(Poem)</li> <li>4. FWF -The Midnight Visitor (03)</li> </ol>	10	Subject Enrichment- Listening Activity from Smart Board.
<b>SYLLABUS 1<sup>ST</sup> UNIT</b>					
	15%	JULY	<ol style="list-style-type: none"> <li>1. FWF - A Question of Trust (02)</li> <li>2. FF - From the Diary of Anne Frank (03)</li> <li>4. WS- Letter of placing an order and Inquiry (04 )</li> <li>5. WS- Analytical Paragraph (4)</li> <li>6. FWF - Footprints without feet (03)</li> <li>7. FWF - The Making of a Scientist (04)</li> </ol>	20	Subject Enrichment Activity- SS -Group Discussion on given topics.
	10%	AUG	<ol style="list-style-type: none"> <li>1. FF - Glimpses of India –(I,II,III) (06)</li> <li>2. FF - Madam Rides the Bus (03)</li> <li>3. FWF - The Necklace (04)</li> <li>4. GR-Active Passive Voice (02)</li> <li>5. GR- Subject-Verb Agreement (02)</li> <li>6. GR- Prepositions (02)</li> <li>7. FWF- Bholi (04)</li> </ol>	23	Portfolio-Self AssessmentActivity

	10%	SEP	<ol style="list-style-type: none"> <li>1. FF -- The Tale of Custard the Dragon (03) (Poem)</li> <li>2. GR- Modals (03)</li> <li>3. GR - Reported Speech( 03)</li> <li>4. GR - Determiners (02)</li> </ol>	10	Multiple Assessment-Activity : to prepare a collage of different types of tickets explaining the need of buying a ticket.
<b>HALF YEARLY EXAMINATION</b>			All topics covered till September		
	10%	OCT	<ol style="list-style-type: none"> <li>1. FF- The Sermon at Benares (04)</li> <li>2. FF -The Proposal (06)</li> <li>3. FF- The Trees (03) (Poem)</li> <li>4. FF -Fog (03) (Poem)</li> </ol>	16	Subject Enrichment SS-Role Play by the students.
	10%	NOV	<ol style="list-style-type: none"> <li>1. FF- For Anne Gregory (Poem) (02)</li> <li>2. FWF -The Book That Saved the Earth</li> <li>3. (03)</li> <li>4. FF- Mijbil The Otter (03)</li> </ol>	08	Subject Enrichment LS –worksheet based Activity.
<b>DECEMBER</b>			<b>REBOARD I</b>		
<b>JANUARY</b>			<b>PREBOARD II</b>		
<b>FEBRUARY</b>			<b>ANNUAL PRACTICAL EXAMINATION</b>		
<b>TERM 2</b>			<b>BOARD EXAMINATION</b>		

SIGN OF SUBJECT TEACHER

SIG OF HOD

**ARMY PUBLIC SCHOOL MEERUT CANTT**  
**SYLLABUS BIFURCATION 2023-24**  
**CLASS X**

Subject: <b>:mathematics</b>			Session 20		
<b>BOOKS: 1. NCERT</b> <b>2. R.S. AGRAWAL</b>			<b>PUBLISHER -N.C.E.R.T.</b>		
<b>EXAM S</b>	<b>% SYLL ABUS TO BE COVE RED</b>	<b>MONTH &amp; NO OF WORKIN G DAYS</b>	<b>TOPICS</b>	<b>PDS. REQ UIRE D</b>	<b>ACTIVITIES</b>
<b>UT1</b>	19%	APRIL (18 DAYS)	<b>CHAPTER-2: POLYNOMIALS</b> <b>CHAPTER-3: PAIR OF LINEAR EQUATIONS IN TWO VARIABLES</b>	17+10 +5+5	THROUGH THE GRAPHICAL METHOD CHECKING THE CONDITION OF CONSISTENCY OR INCONSISTENCY IN A PAIR OF LINEAR EQUATION HAVING TWO VARIABLES
	10%	MAY 15 DAYS	<b>CHAPTER-1: REAL NUMBERS</b> <b>CHAPTER-4: QUADRATIC EQUATIONS</b>	7+5	TO OBTAIN THE PRODUCT OF PRIMES OF ANY COMPOSITE NUMBER USING FUNDAMENTAL THEOREM OF ARITHMETIC.
<b>UT1</b>	4%	JUNE 10 DAYS	<b>CHAPTER-5: ARITHMETIC PROGRESSION</b>	10	TO VERIFY THAT THE GIVEN SEQUENCE IS AN ARITHMETIC PROGRESSION BY PAPER CUTTING AND PASTING METHOD

	14%	JULY 20 DAYS	<b>CHAPTER-7: COORDINATE GEOMETRY</b>	+5+5+ 7	
<b>UT1 EXAMINATION 2023-24 (42%)</b>					
<b>HALF YEAR LY EXAM S</b>	19%	AUG 20 DAYS	<b>CHAPTER-6: TRIANGLES CHAPTER-10: CIRCLES</b>	8+8+6 +10	TO VERIFY THE THALES THEOREM, THAT IS, THE BASIC PROPORTIONALITY THEOREM.
	19%	SEP 22 DAYS	<b>CHAPTER-8: INTRODUCTION TO TRIGONOMETRY CHAPTER-9: SOME APPLICATION OF TRIGONOMETRY</b>	7+5+7 +5	: MAKE THE CHART OF TRIGONOMETRIC RATIO OF $0^{\circ}$ , $30^{\circ}$ , $45^{\circ}$ , $60^{\circ}$ , $90^{\circ}$ .
<b>80% HALF YEARLY EXAMS 2023-24</b>					
	14.0%	OCT 16 DAYS	<b>CHAPTER-12: AREAS RELATED TO CIRCLES CHAPTER-13: SURFACE AREAS AND VOLUMES</b>	8+8+5	TO FIND THE CURVED SURFACE AREA AND TOTAL SURFACE AREA OF A CYLINDER EXPERIMENTALLY.

	5%	NOV 18 DAYS	<b>CHAPTER-14: STATISTICS</b> <b>CHAPTER-15:PROBABILITY</b>	10	: TO SET THE IDEA OF PROBABILITY OF AN EVENT THROUGH A DOUBLE COLOUR CARDS EXPERIMENT
		DEC 18 DAYS	REVISION		Recapitulation
<b>PRE-BOARD-1</b>					
		JAN 24 DAYS	REVISION		Recapitulation
<b>PRE-BOARD-2</b>					
<b>ANNUAL EXAMS</b>	-	FEBRUARY 23 DAYS	REVISION <b>ANNUAL EXAMS 2023-24</b>		Recapitulation

**ARMY PUBLIC SCHOOL MEERUT CANTT  
SYLLABUS BIFURCATION 2023-24  
CLASS X**

**SUBJECT – SCIENCE**

**BOOKS – NCERT**

**PUBLISHER – NCERT**

ASSESSMENTS	% SYLLABUS TO BE COVERED	MONTH	TOPICS	PERIODS REQUIRED	ACTIVITIES
	15%	APRIL	<ol style="list-style-type: none"> <li>1. Chemical reactions and Equations</li> <li>2. Light</li> <li>3. Life Processes ( Autotrophic and Heterotrophic Nutrition)</li> </ol>	21	<ol style="list-style-type: none"> <li>1. Types of Reactions( Practical)</li> <li>2. Refraction through Glass Slab ( Practical)</li> <li>3. Preparing a temporary mount of a leaf peel to show stomata)</li> </ol>
	10%	MAY	<ol style="list-style-type: none"> <li>1. Life Processes ( Heterotrophic Nutrition)</li> <li>2. Acid Bases and Salt ( Acids And Bases)</li> <li>3. Light (Continued)</li> </ol>	15	<ol style="list-style-type: none"> <li>1. To determine the pH of unknown solution using pH paper.</li> <li>2. To determine focal length using Convex lens</li> <li>3.To test the presence of starch in leaves</li> </ol>
	10%	JUNE	<ol style="list-style-type: none"> <li>1. Life Processes ( Excretion, Respiration, Circulation))</li> <li>2. Acids, Bases and Salts (Continued)</li> <li>3. Human Eye and colorful world(Human Eye)</li> </ol>	10	1 Identification of different parts of an embryo of a dicot seed 9 pea gram or red kidney bean)
<b>SYLLABUS 1<sup>ST</sup> UNIT</b>					
	15%	JULY	<ol style="list-style-type: none"> <li>1. Acids, Bases and Salts (Continued)</li> <li>2. Human Eye and colorful world(Continued))</li> <li>3. Control and Coordination</li> </ol>	14	<ol style="list-style-type: none"> <li>1. To observe refraction through Glass Prism.</li> <li>2. To show carbon dioxide is given out during respiration.</li> </ol>
	15%	AUG	<ol style="list-style-type: none"> <li>1. Metals and Non Metals</li> <li>2. Electricity</li> <li>3. Reproduction</li> </ol>	23	<ol style="list-style-type: none"> <li>1. Verification of Ohms Law.</li> <li>2. To determine the resultant resistance of Series and parallel combination.</li> <li>3. Studying               <ol style="list-style-type: none"> <li>a) Binary fission in Amoeba</li> <li>b) Budding in yeast and Hydra with the help of prepared slides</li> </ol> </li> </ol>
	15%	SEP	<ol style="list-style-type: none"> <li>1. Heredity</li> <li>2. Carbon and its Compounds</li> <li>3. Magnetic effects of current</li> </ol>	12	1. Study the properties of acetic acid.
<b>HALF YEARLY EXAMINATION</b>			All topics covered till September		
	10%	OCT	<ol style="list-style-type: none"> <li>1. Carbon and its Compounds (Continued)</li> <li>2. Magnetic effects of current ( Continued)</li> </ol>	13	1. To study the comparative cleaning capacity of a sample of soap in soft and hard water.

	10%	NOV	1. Magnetic effects of current (Continued) 2. Our Environment	7	-
<b>DECEMBER</b>			<b>REBOARD I</b>		
<b>JANUARY</b>			<b>PREBOARD II</b>		
<b>FEBRUARY</b>			<b>ANNUAL PRACTICAL EXAMINATION</b>		
<b>TERM 2</b>			<b>BOARD EXAMINATION</b>		

SIGN OF SUBJECT TEACHER

SIG OF HOD

**ARMY PUBLIC SCHOOL MEERUT CANTT**  
**SYLLABUS BIFURCATION 2023-24**  
**CLASS X**

Subject: Social Science Books

1. **India and Contemporary World(II)**
2. **Democratic Politics(II)**
3. **Understanding Developments of Economics II**
4. **Contemporary India (II)**

**PUBLISHER -N.C.E.R.T.**

<b>EXAM S</b>	<b>% SYLL ABUS TO BE COVERED</b>	<b>MONTH &amp; NO OF WORKING DAYS</b>	<b>TOPICS</b>	<b>PDS. REQUIRE D</b>	<b>ACTIVITIES</b>
<b>UT1</b>	19%	APRIL (18 DAYS)	H1 The Rise of Nationalism in Europe G1 Resources and Development C1 Power – sharing	17+10 +5+5	H1 Drawing and Description of-1. The symbols related to Nationalism in Europe, 2. Four prints of Fredric Sorrieu 3. Timeline-1797-1905 G1 Flowchart on Types of Resources/Case study-Earth Summit 1992 Agenda-21, Bruntland Comission report./Analytical Report on Land Use Catogaries of 2 years Soil Map of India/Tabular Presentation of soil Features and Distribution C1 Analyze the Cartoons on power sharing in the chapter and describe.
	10%	MAY 15 DAYS	E1-DEVELOPMENT C2 FEDERALISM	7+5	E1 Tabular presentation on-Different Developmental Goals/ comparative data on Education Goals /Calculate BDI of your family members. Source Based Questions Average Income and Mixed Goals/Exhaustion of Groundwater and natural Resources C2 Comprehend the theory and Practice of Federalism in India.3Analyse the policies and politics that has strengthened federalism inpractice C2 Listing in Table about State List Union List Concurrent List Residuary list



UT1	4%	JUNE 10 DAYS	H2 NATIONALISM IN INDIA	10	H2 Map work of congress session and satyagraha Timeline -1918-1932 /Concept map of NCM&CDM
	14%	JULY 20 DAYS	G2 WATER RESOURCES G3 FOREST AND WILDLIFE E2 SECTORS OF ECONOMY	+5+5+7	G2 Map work of dams. 2Framing of questions on facts of water 3.Source based questions on dams/ Narmada Bachao Andolans. 4.Comparative study on rain water harvesting Rajasthan/Meghalya  G3 Article on Conservation Strategies of flora and fauna adopted by government and community involved and Tabular Presentation of contribution of community in conserving biodiversity  E2 TBQ Completion of table 2.1 on economic activities. Graph 1,2&3 based comparative analysis of Primary, secondary and tertiary sectors in India. Source Based question on Right to work. Comparitive Chart of Organised and Unorganised Sectors/public and private sectors
<b>UT1 EXAMINATION 2023-24 (42%)</b>					
HALF YEARLY EXAM S	19%	AUG 20 DAYS	G4 Agriculture E3.Money and Credit C3 Gender, Religion andCaste H3 Making of the Global World	8+8+6+10	G4 Preparation of table to show the distribution and idea geographical conditions of food crop and cash crop. Map work of food and cash crops. E3.Make a brochure on loan facilities extended by banks.Paste a blank cheque and fill the entries. Also write the steps to fill it. Role play on any transaction by means of Barter System OR Demand Deposits. Find out more about the changes in print technology in the last 100 years. Write a report about the changes, explaining why and their consequence in medium exchange.H3.Preparation of Mind Map of The British government's decision to abolish the Corn Laws. The coming of rinderpest to Africa. The death of men of working age in Europe because of the World War. The Great Depression on the Indian economy. The decision of MNCs to relocate production to Asian

					countries. <b>For Inter Disciplinary Project:</b> Sub topics 2 to 4.4The nineteenth century (1815-1914) to End of Bretton woods& the beginning of“Globalisation
	19%	SEP 22DAYS	G5 Minerals and Energy Resources.4PDS C4.Political Parties 5PDS E4 Globalization 7pds C5 Outcomes of Democracy 5pds REVISION	7+5+7 +5	G5.Flow chart to differentiate between the conventional and non-conventional sources of energy. Identify different types of minerals and energy resources and places of their availability. Feel the need for their judicious utilization .Tabular Presentation of minerals and power Features and Distribution. Map work of minerals and power resources. C4.Preparation of symbols of present different parties of India and description of their objectives. Analyze the Cartoons on in the chapter and describe Political Parties Oral test Worksheet on Federalism E4.For Inter Disciplinary project. Production across the countries Chinese toys in India. World trade organisation.The Struggle For a Fair Globalisation. Examines the significance ofrole of G20 and its significance in the light of
<b>80% HALF YEARLY EXAMS 2023-24</b>					
	14.%	OCT 16 DAYS	G6.Manufacturing Industries H4 The Age of Industrialisation G7.Life Lines of NationalEconomy	8+8+5	H7.Slip test, Worksheet and concept map of Preand Post Industrialization. <b>G7.Inter disciplinary Project:</b> From Pipelines to Tourism as a Trade . Map work of Express highways and National Highways 1, 2, 7 and 15 with terminal stations. Inter disciplinary Project withchapter 7 of Geography: Life lines of National Economy,and chapter 4 of Economics Globalization and the Indian Economy

	5%	NOV 18 DAYS	H5.Print Culture and the Modern World.8PDS	10	H5.Mind Map of the chart to depict the development of Print Culture. Interpret and infer from pictures, cartoons, extracts from propaganda literature on important events and issues with focus on print culture. Compare and contrast the old tradition of hand written manuscripts versus the print technology
		DEC 18 DAYS	REVISION		Recapitulation
<b>PRE-BOARD-1</b>					
		JAN 24 DAYS	REVISION		Recapitulation
<b>PRE-BOARD-2</b>					
<b>ANNUAL EXAMS</b>	-	FEBRUARY 23 DAYS	REVISION <b>ANNUAL EXAMS 2023-24</b>		Recapitulation

**ARMY PUBLIC SCHOOL , MEERUT CANTT.**

**SYLLABUS BIFURCATION , 2023-24**

**CLASS: X**

**SUBJECT: INFORMATION TECHNOLOGY (VOCATIONAL) 402**

<b>BOOKS: NCERT</b>		<b>PUBLISHER: CENTRAL BOARD OF SECONDARY EDUCATION</b>	
<b>MONTH</b>	<b>TOPIC &amp;</b>	<b>PERIODS REQUIRED</b>	<b>ACTIVITIES PLANNED</b>
<b>APRIL 2023</b> [18 Days]	<b>UNIT-1 Digital Documentation(Advanced)</b> 1. Create and Apply Styles in the document 2. Insert and use images in document 3. Create and use template 4. Implement Mail Merge  <b>Unit 1 Communication Skills – II</b>	10	: 1.Create a pamphlet on Cyber Awareness. Apply different styles on it  2.Create your own template for any topic of your subject.
<b>MAY2023</b> [15 Days]	<b>UNIT-1 Digital Documentation(Advanced) Contd.</b> 1. Create and customize table of contents  <b>Unit 1 Communication Skills – II (contd)</b>	10	1.Create a table of contents for topics of any subject of your choice.  2. Type a letter inviting friends and/or family to a party you are hosting using Mail Merge
<b>JUNE2023</b> [10 Days]	<b>UNIT-2 – Electronic Spreadsheet (Advanced)</b>	05	1. Problems of Goal Seek 2. Create a set of worksheets for storing records of marks of different classes and compare all these on a separate worksheet
<b>JULY2023</b> [20 Days]	<b>UNIT-2 – Electronic Spreadsheet (Advanced)</b> 1. Analyze data using scenarios and goal seek. 2. Link data and spreadsheets 3. Share and review a spreadsheet 4. Create and Use Macros in spreadsheet  <b>UNIT 2 – Self Management Skills – II (Employability Skills)</b> 1. Apply stress management techniques 2. Demonstrate the ability to work independently	10	1. Problems of Goal Seek 2. Create a set of worksheets for storing records of marks of different classes and compare all these on a separate worksheet
<b>AUGUST2023</b> [23 Days]	<b>UNIT 3 – Information and Communication Technology Skills – II</b>	10	1. Role play on avoiding stressful situation

	<p><b>(Employability Skills)</b></p> <ol style="list-style-type: none"> <li>1. Distinguish between different operating systems</li> <li>2. Apply basic skills for care and maintenance of computer</li> </ol> <p><b>UNIT 3 – Database management system (Basic)</b></p> <ol style="list-style-type: none"> <li>1. Appreciate the concept of Database Management System</li> <li>2. Create and edit tables using wizard and SQL commands</li> </ol>		<ol style="list-style-type: none"> <li>2. Group demonstration on how to use a computer.</li> </ol>
<p><b>SEPTEMBER 2023</b> [22 Days]</p>	<p><b>UNIT 3 – Database management system (Basic)</b></p> <ol style="list-style-type: none"> <li>1. Appreciate the concept of Database Management System</li> <li>2. Create and edit tables using wizard and SQL commands</li> </ol> <p><b>UNIT 4 – Entrepreneurial Skills – II (Employability Skills)</b></p> <ol style="list-style-type: none"> <li>1. List the characteristics of successful entrepreneur</li> </ol> <p><b>REVISIONS OF HALF YEARLY SYLLABUS</b></p>	10	<ol style="list-style-type: none"> <li>1. Analyze database requirements for Your School; visit different departments such as library, student admission center, to gather requirements. Document the business requirement.</li> <li>2. Create a database for a stationery shop.</li> </ol> <p>Hint: Create fields for items, price, colour, vendor, etc.</p>
<p><b>Half Yearly</b></p>	<p><b>Main Book:</b></p> <ul style="list-style-type: none"> <li>● UNIT-1 Digital Documentation(Advanced)</li> <li>● UNIT-2 – Electronic Spreadsheet (Advanced)</li> <li>● UNIT 3 – Database management system (Basic) (Session I and II)</li> </ul> <p><b>Emp Skills Book:</b></p> <ul style="list-style-type: none"> <li>● UNIT 1 – Communication Skills – II</li> <li>● UNIT 2 – Self Management Skills – II</li> <li>● UNIT 3 – Information and Communication Technology Skills – II</li> <li>● UNIT 4 – Entrepreneurial Skills – II (Employability Skills)</li> </ul>		
<p><b>OCTOBER 2023</b> [16 Days]</p>	<p><b>UNIT-4 - Web application and security</b></p> <ol style="list-style-type: none"> <li>1. Working with Accessibility Options</li> <li>2. Understand Networking Fundamentals</li> <li>3. Introduction to Instant Messaging</li> <li>4. Chatting with a Contact – Google Talk</li> <li>5. Creating and Publishing Web Pages – Blog</li> <li>6. Using Offline Blog Editors</li> <li>7. Online Transaction</li> <li>8. Internet Security</li> <li>9. Maintain workplace safety</li> </ol>	05	<ol style="list-style-type: none"> <li>1. Using queries display the data of items present in the database.</li> <li>2. Create a form for the academic database created in the above activity. Populate the table with mark results using the form.</li> </ol>

	10. Prevent Accidents and Emergencies 11. Protect Health and Safety at work		
<b>NOVEMBER 2023</b> [19 Days]	<b>UNIT 5 – Green Skills – II (Employability Skills)</b> 1. Demonstrate the knowledge of importance, problems and solutions related to sustainable development  <b>Project Work (DBMS)</b>	10	<b>Activity</b> : Discussion on how to prevent wastage.
<b>DECEMBER 2023</b> [18 Days]			
<b>JANUARY 2024</b> [21 Days]	Revision for Board Examination Project Work		
<b>FEBRUARY 2024</b> [ Days]	Revision for Board Examination Project Work Submission		

**ARMY PUBLIC SCHOOL MEERUT CANTT**  
**SYLLABUS BIFURCATION 2023-24**  
**CLASS X**

**SUBJECT – ARTIFICIAL INTELLIGENCE (417)**

**BOOKS –**

**PUBLISHER – NCERT**

ASSESSMENTS	MONTH	TOPICS	PERIODS REQUIRED	ACTIVITIES
	APRIL	Unit 1: Introduction to Artificial Intelligence (AI) <ul style="list-style-type: none"> <li><input type="checkbox"/> Foundational concepts of AI</li> <li><input type="checkbox"/> Decision Making-how do you make decisions?</li> <li><input type="checkbox"/> What is Artificial Intelligence and what is not?</li> <li><input type="checkbox"/> Introducing AI, ML &amp; DL.</li> <li><input type="checkbox"/> Introduction to AI Domains (Data, CV &amp; NLP)</li> <li><input type="checkbox"/> Applications of AI – A look at Real-life AI implementations</li> <li><input type="checkbox"/> AI Ethics</li> <li><input type="checkbox"/> AI Bias</li> <li><input type="checkbox"/> AI Access</li> <li><input type="checkbox"/> AI for Kids</li> <li><input type="checkbox"/> AI creates unemployment</li> </ul>	09	1.Decision making 2.Game based activities to revise the topics 2.Tools including (Rock-Paper-Scissors, Quick Draw, Semantris) 3.Create a model that can identify the object by visualizing it (teachable machine)
	MAY	Employability Skills - II <ul style="list-style-type: none"> <li><input type="checkbox"/> Unit-1 Communication Skills</li> </ul> Unit-2 AI Project Cycle <ul style="list-style-type: none"> <li><input type="checkbox"/> Introduction to the complete process</li> <li><input type="checkbox"/> Real life examples to understand the requirement of data</li> <li><input type="checkbox"/> brief overview of problem scoping, data acquisition, data exploration, modeling, evaluation</li> </ul>	08	1. Class Presentation, Discussion, Quiz, QA session 2.Research on SDGs and create a presentation explaining the problems being faced in society 3.Identification of the user’s moral concern using Moral Machine tool 4.Create a guideline for your own AI Project
	JUNE	Unit-2 AI Project Cycle <ul style="list-style-type: none"> <li><input type="checkbox"/> Problem Scoping (4 W problem canvas)</li> </ul>	05	1.Explanation, Presentation, real life learning comparison with

		<input type="checkbox"/> Data Acquisition (Data features) <input type="checkbox"/> Data Exploration (Graphical Representation)		machine learning types QA session
	JULY	Unit-2 AI Project Cycle <input type="checkbox"/> Modeling (model selection and training) <input type="checkbox"/> Evaluation (Accuracy, Precision, Recall and F1 Score) Unit-3 Advance Python <input type="checkbox"/> Recap of class IX <input type="checkbox"/> Introduction to Jupyter notebook <input type="checkbox"/> Introduction to Python and Python Basics	10	1.Demonstration of python IDLE and giving hands on for revision of class 9 basics of AI 2.Usage of online websites to show learning-based models 3.Programs on looping and control structures
•	AUG	Unit-3 Advance Python <input type="checkbox"/> Python Packages <input type="checkbox"/> CV Notebook <input type="checkbox"/> Revision Unit-6 Natural Language Processing <input type="checkbox"/> Introduction to NLP <input type="checkbox"/> Revisiting AI project cycle considering NLP <input type="checkbox"/> Chatbots <input type="checkbox"/> Human Language V/S Computer Language <input type="checkbox"/> Difficulties in Human Language Employability Skills - II <input type="checkbox"/> Unit-2 Self-Management Skills	12	1. Demonstration and hands on on Jupyter notebook/Python IDLE/Google Colab 2. Installation of packages 3.Identification of the applications in smart phone that are making use of NLP 4.Binary language 4.Identification of the challenges that might occur while programming NLP model 6.Working on chatbots including cleverbot, mitsuku 7.Representation of Google Duplex, designing of guidelines for a chatbot
	SEP	Half Yearly		
	OCT	Unit-6 Natural Language Processing: <input type="checkbox"/> Data Processing (Text normalization, Bag of words) <input type="checkbox"/> TF-IDF Unit-7 Evaluation <input type="checkbox"/> Introduction <input type="checkbox"/> Model evaluation terminologies	08	1.Practice session and questions on BOW and TF-IDF 2.Data processing and training of NLP based model WEVI (Word embedding visualization inspector)



		<input type="checkbox"/> Confusion Matrix  Employability Skills <input type="checkbox"/> Unit 4: Entrepreneurship Skills		3. Calculate different evaluation metrics and identification of best score identifying the and avoiding overfitting and underfitting models 4. Establish the guidelines to be followed to create a venture
	NOV	Unit-7 Evaluation: <input type="checkbox"/> Evaluation Methods including Accuracy, Precision, Recall, F1 Score  Unit- 4 Data Science <input type="checkbox"/> Introduction <input type="checkbox"/> Revisiting AI Project cycle <input type="checkbox"/> Basic Statistics <input type="checkbox"/> Data Visualization <input type="checkbox"/> Data Science Model: Classification, K-Nearest Neighbour	10	1. Identify the performance of the model 2. Identification of the best evaluation metric depending of the purpose of the model 3. Types of graphs using the online tool 4. Identification of the suitable graph depending upon the data and creating it for the visualization 5. Enlisting of examples of classification model 6. Python library to work with and the functions used to create different graphs
	DEC	Employability Skills Unit 3: Information and Communication Technology Unit-5 Computer Vision <input type="checkbox"/> Introduction <input type="checkbox"/> Computer Vision Tasks <input type="checkbox"/> Image Features <input type="checkbox"/> Introduction to the CV libraries <input type="checkbox"/> Convolution Neural Network  Employability Skills: <input type="checkbox"/> Unit 5: Green Skills	09	1. Usage of Python libraries and the functions available to visualize the image and perform different modifications 2. Usage of Python functions to understand the mechanism of feature extraction 3. Working with CNN model
<b>JANUARY</b>	<b>PRE BOARD I and II</b>			
<b>FEBRUARY</b>	<b>ANNUAL PRACTICAL EXAMINATION</b>			
<b>TERM 2</b>	<b>BOARD EXAMINATION</b>			

**ARMY PUBLIC SCHOOL MEERUT CANTT**  
**SYLLABUS BIFURCATION 2023-24**  
**CLASS X**

**SUBJECT – FMM**

**BOOKS –**NSE handbook for FMM class X

**PUBLISHER –** NATIONAL STOCK EXCHANGE (NSE) ACADEMY

ASSESSMENTS	% SYLLABUS TO BE COVERED	MONTH	TOPICS	PERIODS REQUIRED	ACTIVITIES
1. Class test 2. Assignment.	15%	APRIL	<b>Unit 1: Investment Basics</b> <ul style="list-style-type: none"> <li>• Saving Vs Investment</li> <li>• Stock Exchange</li> <li>• Electronic Shares</li> </ul>	9	<b>Activities Planned</b> Nsmart software training
Class test and Assignment.	5%	MAY	<b>Unit 2: Securities</b> Securities Market Regulators Market Participants	9	<b>Activities Planned</b> Nsmart software training
Class test and Assignment.	15%	JUNE	<b>Unit 3: Primary Market</b> <ul style="list-style-type: none"> <li>• New Issue Market</li> <li>• Issue of Shares</li> </ul>	06	<b>Activities Planned</b> Nsmart software training
<b>SYLLABUS 1<sup>ST</sup> UNIT</b>					
Class test and Assignment.	15%	JULY	<b>Unit 4 : Secondary Market</b> <ul style="list-style-type: none"> <li>• Securities Market</li> <li>• Stock Exchange</li> <li>• Trading</li> <li>• Equity Investment</li> </ul> <b>Unit 5: Derivatives</b> <ul style="list-style-type: none"> <li>• Futures and Options Market</li> <li>• Commodity</li> </ul>	12	<b>Activities Planned</b> Nsmart software training
Class test and Assignment.	15%	AUG	<b>Unit 6: Depository</b> <ul style="list-style-type: none"> <li>• Holding of Securities</li> <li>• Ownership</li> <li>• Dematerialization</li> </ul> <b>Unit 7: Mutual Funds</b> <ul style="list-style-type: none"> <li>• Basics of Mutual Fund</li> <li>• Active/Passive Fund</li> </ul>	12	<b>Activities Planned</b> Nsmart software training
Class test and Assignment.	10%	SEP	<b>Unit 8: Miscellaneous</b> <ul style="list-style-type: none"> <li>• Corporate Actions</li> <li>• Index</li> <li>• Clearing &amp; Settlement</li> </ul> Post Market Activities	12	<b>Activities Planned</b> Nsmart software training

<b>HALF YEARLY EXAMINATION</b>			All topics covered till September		
Class test and Assignment.	15%	OCT	<b>Unit 9: Concepts &amp; Modes of Analysis</b> <ul style="list-style-type: none"> <li>• Time Value of Money</li> <li>• Annual Report</li> <li>• Accounting terms and Technologies</li> </ul> 1.	09	<b>Activities Planned</b> Nsmart software training
Class test and Assignment.	10%	NOV	<b>Unit 10: Ratio Analysis</b> <ul style="list-style-type: none"> <li>• Liquidity Ratio</li> <li>• Leverage/Capital Structure</li> <li>• Profitability Ratio</li> </ul>	12	<b>Activities Planned</b> Nsmart software training
<b>DECEMBER</b>			<b>REBOARD I</b>		
<b>JANUARY</b>			<b>PREBOARD II</b>		
<b>FEBRUARY</b>			<b>ANNUAL PRACTICAL EXAMINATION</b>		
<b>TERM 2</b>			<b>BOARD EXAMINATION</b>		

SIGN OF SUBJECT TEACHER

SIG OF HOD

**ARMY PUBLIC SCHOOL MEERUT CANTT**  
**SYLLABUS BIFURCATION 2023-24**  
**CLASS- X**

**SUBJECT – ART**

**ART PRACTICAL**

**PAINTING CODE -049**

ASSESSMENTS	% SYLLABUS TO BE COVERED	MONTH	TOPICS	PERIODS REQUIRED	ACTIVITIES
EXAMINATION OF THE ELEMENTS OF ART	15%	APRIL	Unit -1 COMPOSITION ON LIFE AND NATURE ( LANDSCAPE)	04	DRAW A STILL LIFE AND LANDSCAPE IN YOUR ART FILE USING THE FANDAMENTALS OF ART
EXAMINATION OF NATURAL COLOURING AND REFLECTION	15%	MAY	Unit -2 COMPOSITION ON LIFE AND NATURE ( MOODS OF NATURE )	04	CREATE A COMPOSITION ON NATURE BY USING METHODS AND MATERIAL OF ART
<b>SYLLABUS 1<sup>ST</sup> UNIT</b>					
EXAMINE BY THEIR THEME OR SUBJECT	15%	JULY	Unit -3 COMPOSITION BASED ON IMAGINATION	04	CREATE A PICTURE BY OWN IMAGINATION USING SHADING PENCIL
EXAMINATION OF SKETCHING AND THEIR CREATIVITY	15%	AUG	Unit -3 COMPOSITION BASED ON IMAGINATION	04	DRAW SUBJECT BASED COMPOSITION BY OWN IMAGINATION AND DO SHADING OR COLOURING
EXAMINATION OF LINES AND PATTERN	10%	SE	Unit -3 COMPOSITION BASED ON FOLK ART	02	MAKE A PAINTING ON ANY FOLK ART AND FRAME IT
<b>HALF YEARLY EXAMINATION</b>			All topics covered till September		
EXAMINATION OF SKETCHING AND COLOURING	10%	OCT	Unit -3 COMPOSITION BASED ON INDIAN ARTISTS PAINTING	04	DRAW OR SKETCH THE COMPOSITION BASED ON ANY ARTIST'S PAINTING
CHECKING AND EVALUATION	10%	NOV	Revesion and practice	04	DESIGN YOUR PORTPHOLIOO BEAUTIFULLY
<b>DECEMBER</b>			<b>PRE BOARD EXAM -1</b>		
<b>JANUARY</b>			<b>PRE BOARD EXAM-2</b>		
<b>FEBRUARY</b>			<b>ANNUAL EXAMINATION</b>		
<b>TERM 2</b>			<b>BOARD EXAMINATION</b>		

SIGN OF SUBJECT TEACHER

SIG OF HOD

**ARMY PUBLIC SCHOOL MEERUT CANTT**  
**SYLLABUS BIFURCATION 2023-24**  
**CLASS- X**

**SUBJECT – ART**

**PAINTING THEORY AND PRACTICAL  
CWSN**

**PANTING CODE -049**

ASSESSMENTS	% SYLLABUS TO BE COVERED	MONTH	TOPICS	PERIODS REQUIRED	ACTIVITIES
EXAMINATION OF THE ELEMENTS OF ART	15%	APRIL	Unit -1 Fundamentals of visual arts	04	DRAW A STILLIFE IN YOUR ART FILE USING THE FANDAMENTALS OF ART
EXAMINATION OF COLOURING AND SHADING	15%	MAY	Unit -2 Methods and materials of painting	04	CREATE A COMPOSITION ON NATURE BY USING METHODS AND MATERIAL OF ART
<b>SYLLABUS 1<sup>ST</sup> UNIT</b>					
EXAMINE BY ASKING SOME QUESTIONS	15%	JULY	Unit - 3 Story of Indian art/ painting	04	VISIT THE NEARBY ART GALLERIES AND PAINTINGS OF ARTIST
EXAMINATION OF SKETCHING AND COLOURING	15%	AUG	Unit -3 Story of Indian art / sculpture	04	DRAW THE TWO SCULPTURE OF ANY ARTIST AND DO SHADING OR COLOURING
EXAMINATION OF MANIGNMENT	10%	SE	Unit -3 Story of Indian art/ sculpture and architecture	02	SEARCH THE PICTURES OF ARCHITECTURE AND CREATE A COLLEGE
<b>HALF YEARLY EXAMINATION</b>			All topics covered till September		
EXAMINATION OF THE RULES OF PERSPECTIVE	10%	OCT	Unit -3 Story of Indian art/ architecture	04	DRAW AN ARCHITECTURE OF ANY ARTIST BY USING PERSPECTIVE
CHECKING AND EVALUATION	10%	NOV	Revesion and practice	04	DESIGN YOUR PORTPHOLIO BEAUTIFULLY
<b>DECEMBER</b>			<b>PRE BOARD EXAM -1</b>		
<b>JANUARY</b>			<b>PRE BOARD EXAM-2</b>		
<b>FEBRUARY</b>			<b>ANNUAL EXAMINATION</b>		
<b>TERM 2</b>			<b>BOARD EXAMINATION</b>		

SIGN OF SUBJECT TEACHER

SIG OF HOD

**ARMY PUBLIC SCHOOL MEERUT CANTT**  
**SYLLABUS BIFURCATION 2021-2022**  
**CLASS X**

**SUBJECT- हिंदी**

**BOOKS** : स्पर्श – भाग २ **PUBLICATION** एन.सी.ई. आर.टी.

संचयन - भाग २ **PUBLICATION** एन.सी.ई.आर.टी.

व्याकरण - व्याकरण परिचय **PUBLICATION** फुल मार्क्स प्राइवेट लि.

ASSESSMENTS	MONTH	TOPICS	PERIODS REQUIRE D	ACTIVITIES
	APRIL 2023 18 दिवस	स्पर्श -बड़े भाईसाहब (गद्य) स्पर्श - साखी (पद्य) व्याकरण – मुहावरे, पदबंध - परिभाषा, भेद एवं उदाहरण पत्र लेखन (औपचारिक) श्रवण कौशल अपठित गद्यांश	7 4 1 2  2 1 1	गतिविधि- पाठ में किताबी ज्ञान तथा अनुभव में से किसे महत्वपूर्ण माना है विषय पर परिचर्चा
	MAY2023 15दिवस	स्पर्श - पद (मीरा, पद्य) संचयन - हरिहर काका (कहानी) व्याकरण - रचना के आधार पर वाक्य भेद एवं रचनांतरण गायन (गतिविधि)	4 7 2  2	दोहा गायन गतिविधि गतिविधि :- (SE-1)श्रवण कौशल ग्रीष्मावकाश गृहकार्य (SE-2)कला

				समेकित गतिविधि 'कर चले हम फ़िदा 'कविता एकल/समूह में गाकर विडीओ तैयार करें।
	JUNE2023 10 दिवस	स्पर्श - डायरी का एक पन्ना (गद्य) मनुष्यता (पद्य) रचनात्मक लेखन - * सूचना लेखन , *अनुच्छेद	4 4 1 1	गतिविधि- 'समाज की संकीर्ण रूढ़ियोंको समय के अनुसार बदलना कितना आवश्यक है' विषय पर कक्षा में चर्चा की जाएगी। 'परतंत्र एवं स्वतंत्र भारत में अंतर'विषय पर चर्चा। गतिविधि :- (SE-1) वाचन कौशल(क्रमशः)





		संचयन - सपनों के से दिन रचनात्मक लेखन - * सूचना लेखन, * इ-मेल लेखन *विज्ञापन लेखन	5 1 2 1	मानचित् *अनुच्छेद- सैनिक जीवन की चुनौतियों ।*
	SEPTEMBER 2023 22 दिवस	पत्र लेखन (औपचारिक) पुनरावृत्ति (उपरोक्त समस्त कार्य)	2 10	MA-1)- पुस्तक/फ़िल्म समीक्षा

**PT-2(80 MARKS).** 18 सितंबर से 30 सितंबर

**पाठ्यक्रम :-** स्पर्श -बड़े भाईसाहब, साखी,मीरा के पद ,डायरी का एक पन्ना, मनुष्यता, तोप, ततारा वामीरो कथा , कर चले हम फ़िदा, पर्वत प्रदेश में पावस,तीसरी कसम

संचयन - हरिहर काका, सपनों के से दिन

**व्याकरण** – मुहावरे, पदबंध , रचना के आधार पर वाक्य भेद एवं रचनांतरण, समास

**रचनात्मक लेखन** - सूचना ,पत्र (औ),अनुच्छेद, लघुकथा , इ-मेल लेखन ,विज्ञापन लेखन

	OCT-2023 16 दिन	स्पर्श - अब कहाँ दूसरों के दुख से दुखी होने वाले (गद्य) स्पर्श - पतझर में टूटी पत्तियाँ (गद्य) संचयन - टोपी शुक्ला (कहानी)	5 5 6	*वन्य संरक्षण केंद्रों में हो रही पशुओं की देख-रेख के विषय में जानकारी एकत्र करें। बहु-विषयक गतिविधि (मनोविज्ञान) छात्रों में तनाव के कारण व निवारण पर विद्यालय के
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				परामर्शदाता द्वारा सम्बोधन।
	NOV-2023 19 दिवस	स्पर्श - कारतूस (एकांकी गद्य) संचयन - आत्मत्राण रचनात्मक लेखन- *लघु कथा लेखन *विज्ञापन लेखन *अनुच्छेद लेखन *इ-मेल लेखन	5 6  2 2 2 2	MA-2:- प्रश्नोत्तरी (SE-2)कला समेकित गतिविधि एकांकी मंचन गतिविधि, *एकांकी व नाटक में अंतर स्पष्ट करते हुए नाटकों व एकांकियों की सूची बनाए व अभिनय प्रस्तुत करें।
<b>PT-3(80 MARKS)</b> <b>PB-I</b> 1 DEC.'23 TO 15 DEC.'23	DEC-2023	18दिवस पुनरावृत्ति कार्य <b>प्री बोर्ड परीक्षा - I</b> 80 MARKS पाठ्यक्रम - बोर्ड द्वारा निर्धारित समस्त पाठ्यक्रम		
<b>PB-II</b> 5 JAN'24 TO 18 JAN'24	JAN-2024	पुनरावृत्ति कार्य <b>प्री बोर्ड परीक्षा -II</b> 80 MARKS) पाठ्यक्रम - बोर्ड द्वारा निर्धारित समस्त पाठ्यक्रम		

ANNUAL EXAMINATION 2023- 2024	FEB-2024	<b>वार्षिक परीक्षा</b> पाठ्यक्रम - बोर्ड द्वारा निर्धारित समस्त पाठ्यक्रम		
		<b>*केवल पठन हेतु पाठ :-</b> -बिहारी के दोहे -गिरगिट -मधुर मधुर मेरे दीपक जल		

