

SHADLEY PUBLIC SR. SEC. SCHOOL

Press Colony, Rajouri Garden, New Delhi - 110027

ANNUAL SYLLABUS 2020 – 21

Class XII

Dear Parents,

Syllabus of class XII encompasses general objectives of learning, course of study, subject wise instructional objective content and guidelines by CBSE and NCERT. Students can manage the course effectively and efficiently.

The syllabus will be completed by the month of November. Syllabus once covered will not be repeated. Therefore it is very important to be regular in the school. Shortage of attendance can debar the child from appearing in the board examination.

Nature of Exam	Max.Marks	Commences From	Syllabus Covered
UNIT TEST-I	50 MARKS	FIRST WEEK OF MAY	MARCH TO APRIL
FIRST TERM EXAM	80+20=100	THIRD WEEK OF AUGUST	MARCH TO AUGUST
UNIT TEST –II	50 MARKS	THIRD WEEK OF OCTOBER	SEPTEMBER TO OCTOBER
PRACTICALS		DECEMBER FIRST WEEK	
PRE-BOARD I	80+20=100	DECEMBER	WHOLE SYLLABUS
PRE-BOARD II	80+20=100	SECOND WEEK	WHOLE SYLLABUS

The curriculum encompass two major learning areas

CURRICULUM AREAS & PROJECT SUBMISSION SCHEDULE

CO-SCHOLASTIC AREAS	<ul style="list-style-type: none">• PHYSICAL EDUCATION• GENERAL STUDIES• WORK EXP. PROJECTS	1 ST WEEK OF JULY 2020
SCHOLASTIC AREAS(PROJECTS/FILES/P ORTFOLIO)	PHYSICS/CHEMISTRY/COMPUTER SC./ACCOUNTANCY/B.STUDIES/ECONOMICS/I.P/PAINTING/POLITICAL SCIENCE	2 ND WEEK OF NOVEMBER 2020

Please note the eligibility criteria laid down by CBSE sit in board examination.

1. **At least 76%** (Separately in theory and practical) of attendance is required to be allowed to sit for pre-board exam held at school and CBSE Board Exams.
2. It is mandatory to get **qualifying grades in all internal assessments** (General studies, Work experience and Physical education) otherwise the result is withheld by the board for not obtaining qualifying grades i.e. minimum D grade.

3. Irregularity in attending school reflects in the performance of child. Tips for handling board is a continuous process during classroom.

Teaching session throughout the year. Parents need to be analytical about their wards leave. With parent Corporation and teacher's dedication we hope the children will sail through the board examination without any stress and pressure.

CO-SCHOLASTIC/ INTERNAL ASSESSMENT

1. GENERAL STUDIES

Mode of assessment

S.No	Marks Division	Marks
1	Term-I Paper	40
2	Term-II Paper	50
3	Project (only I Term)	10

General studies, physical education & Work experience are mandatory and form part of Internal Assessment. All the grades are uploaded in CBSE mark sheet. Timely submission and appearance in exam and getting qualifying Grade D is important.

TERM - 1 (SYLLABUS) (APRIL TO SEPTEMBER)

1. Scientific method
2. Scientific Spirit
3. Importance of Rationalism
4. Science and Economy
5. Removal of Poverty
6. Removal of Illiteracy
7. Eradication of Superstition
8. Science and Religion
9. Population Education
10. Social inequalities
11. Planning Process in India
12. Meaning of culture
13. Evolution of Indian culture
14. Features of Indianess

TERM 2 SYLLABUS OCTOBER TO MARCH

15. Guiding principles of Indian Constitution.
16. Democratic living
17. Secularism in a Religious Society
18. Concept of Socialistic Republic
19. History upto 1947
20. Great Leaders
21. Nurturing Freedom
22. Historical Perspective
23. Declaration of Human Rights
24. Human right as means of Harmonious World order

PROJECT WORK:

1. " The article 370- which comes under part(XXI), deals with" temporary, transitional and special provision" grants' Jammu and Kashmir' special autonomous states". Article 370 and 35(A) scrapped : State its "Timing and Impact Analysis".

- How it would change the future/face of 'Kashmir'?
- Has the Modi government time through write article 370 promulgation in "Jammu and Kashmir"?
- What did Article 370 say? Justify by giving brief history of it.
- What is CAA and is it correct to implement in India?

Note: Your project should contain all the relevant material and pictures.

2. PHYSICAL EDUCATION

Mode of assessment

S.NO	AREAS	MARKS
1	SPORTS PLAYED(Proficiency, Participation In Individual, Team Game, Swimming /Horse Riding)	10
2	PHYSICAL ENDURANCE(Testing Strength/ Stamina In Track And Field Events)	10
3	PROJECT(as Specified)	10

PROJECT: CHILDREN AND PHYSICAL FITNESS

- Motor development and factors affecting it
- Exercise guidelines different stages of growth and development
Concept and advantage of correct posture
- Causes of bad posture

3. WORK EXPERIENCE

Children will be guided to make three items with the following techniques in

- 1) Mosaic pot(with waste material and waste tile)
- 2) Magazine and newspaper stand(with waste carton and POP)
- 3) Cutlery stand(with old ceramic mug and POP)

SCHOLASTIC AREAS

SYLLABUS 2020-21

CLASS XII

ENGLISH

Marks: 80+ 20= 100

Prescribed books

Flamingo: English reader published by NCERT

Vistas: Supplementary reader published by NCERT.

UNIT TEST -I MARCH TO MAY

Flamingo

- 1) The Lost Lesson
- 2) The Lost Spring
- 3) Deep Water, Road Side Stand(Poem)

Vistas

- 1) The Third Level
- 2) The Tiger King
- 3) Journey To The End Of The Earth

Writing Skills Notice Invitations Seeking Information Making Enquiries Placing Order Article And Debate

FIRST TERM, (MARCH TO AUGUST)

Flamingo

- 1) The Rat Trap
- 2) Indigo
- 3) Poets And Pancakes

Poems

- 1) My Mother At Sixty Six
- 2) An Elementary School Classroom In A Slum
- 3) A Thing Of Beauty
- 4) Keeping Quite

Vistas: Enemy, should wizard hit mummy

Writing Skills: Advertisements/ Letter of Complaint/ Letter To The Editor/ Poster Writing) Speech.

Unit-1 Syllabus Will Be Tested In First Term Examination

Unit- II (October)

Flamingo: The Interview

Going places

Vistas: Evan's tries on 'O', level / memories of my childhood / on the face of it / Aunt Jennifer's tigers

Pre-board examination: (Complete syllabus will be tested)

Note: Reading Skills (Unseen Passage And Note Making) ASL will be tested In(Term And Pre Board) all Examinations.

SYLLABUS 2020-2021
CLASS XII
MATHEMATICS

TEXT BOOK:-NCERT

REF.BOOK: - R.D.SHARMA

UNIT 1(MAXIMUM MARKS 40 +10= 50)

- 1) Inverse Trigonometry
- 2) Matrices
- 3) Determinants
- 4) Continuity and Differentiability

FIRST TERM (MAXIMUM MARKS 80+20=100)

- 1) Application of Derivatives
- 2) Integration
- 3) Application of Integration
- 4) Linear Programming
- 5) Five Activities from Prescribed Maths Manual

* Syllabus of Unit 1 Will Be Included In the First Term

UNIT-2 (MAXIMUM MARKS :50)

- 1) Vector
- 2) Three Dimensional Geometry
- 3) Differential Equations
- 4) Probability
- 5) Relation and Functions

PRE BOARDS (I AND II)

Full Syllabus Will Be Included

NOTE:

- 1) Do At Least 50 Questions from Each Chapter for Practice from Prescribed Refresher Book.
 - 2) Internal Assessment Marks Will Be Awarded On The Basis Of Assignments, Homework, Class Test And Maths Activities, Which Will Be Held At Regular Intervals.
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SYLLABUS 2020-2021

CLASS XII

PHYSICS

BOOKS

M.M-100

1. NCERT
2. S.L.Arora

Scheme of Evaluation: Theory Paper: 70 Marks+ Practical: 30 Marks = 100 Marks

Evaluation scheme for Practical's:-

1. Two experiment one from each section	8+8 Marks
2. Practical record (Experiment and activities)	06 Marks
3. Investigatory Project	03 Marks
4. Viva on Project, experiments and activities	05 Marks
TOTAL	30 Marks

UNIT-I(MAXIMUM MARKS 40+10=50)

CH-1 Electrostatic charge and Field
CH-2 Electrostatic Potential
CH-3 Capacitance
CH-4 Current Electricity

FIRST TERM (MAXIMUM MARKS 70+30=100)

All Chapters of Unit I and
CH-5 Magnetic effect of Current
CH-6 Magnetism
CH-7 Electromagnetic Induction and A.C (Half Chapter)

UNIT-II(MAXIMUM MARKS =50)

CH-7 Remaining Part of Electromagnetic Induction and AC
CH-8 Electromagnetic waves
CH-9 Optics (Ray and wave optics)
CH-10 Dual Nature of Matter.
CH-11 Atom and Nuclei
CH-12 Semiconductor Devices and Digital Circuits.

Pre-Board (I and II) –Whole Syllabus

A guideline for Practical's /Project:

The record to be submitted by the students at the time of Preboard Examination should include the following experiments/ activities:

1. Record of at least 15 experiments (with a minimum of 6 from each section A and B).
2. Record at least 5 activities (with a minimum of two (2) from each section A and B).

3. The Report of the project to be submitted at the end of NOV 2020.
4. Project should be working and of low cost. It should be properly presented in project report.
Project report can be hand written or Computer printed.

SYLLABUS 2020-2021

CLASS XII

CHEMISTRY

BOOKS NAME:

Theory(70 Marks)

1. ABC
2. NCERT

FIRST UNIT (MAXIMUM MARKS 40+10=50)

CH 10: Haloalkane and Haloarene

CH 11: Alcohol, Phenol, ether

CH 15: Polymer

CH 03: Electrochemistry

CH 13: Organic Compounds Containing Nitrogen

FIRST TERM(MAXIMUM MARKS 70+30=100)

CH 12: Aldehyde, Ketone and Carboxylic Acids

CH 01: Solid State

CH07: P-Block

CH05: Surface Chemistry

CH02: Solutions

CH09: Co-ordination Compounds

CH14: Biomolecules

Note-First UT Syllabus will be tested in First Term.

SECOND UNIT(MAXIMUM MARKS =50)

CH 08: D and F block Elements

CH 06: General Principles of Isolation of elements

CH 04: Chemical Kinetics

CH 16: Chemistry in everyday life

Preboard- I and II Whole Syllabus of UT I, UT II and First Term

PRACTICAL

Evaluation Scheme for Practical's

Time allotted: 3 Hours

Max. Marks: 30

Volumetric Analysis 08 Marks

Salt Analysis	08 Marks
Content Based Experiments	06 Marks
Project Work	04Marks
Class record and viva	04 Marks
Total	30 Marks

PROJECT

Scientific investigations involving laboratory testing and collection information from other sources.

A few Suggested projects :-

1. Study of the presence of oxalate ions in guava fruit at different stages of ripening.
2. Study of quantity of casein present in different samples of milk.
3. Preparation of Soyabean milk and its comparison with the natural milk with respect to curd formation effect of temperature etc.
4. Study of the effect of Potassium Bisulphate as food preservative under various conditions (Temperature, concentration and time).
5. Comparative study of the rate of fermentation of following materials: Wheat flour, Gram flour, Potato Juice, Carrot, Juice etc.
6. Extraction of essential oils present in Saunf (aniseed), Ajwain (carum), Illacichi (Cardamom).
7. Study of Common food adulterants in fat, oil butter, Sugar turmeric powder chilli powder and pepper.
8. Study of digestion of starch by salivary amylase and effect of pH and temperature on it.
9. To test presence of Ni in Chocolates.

Project should be performed in lab and required to be submitted in September last week. It should be hand written.

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SYLLABUS 2020-21
CLASS XII
COMPUTER SCIENCE

BOOK NAME: INTER SCIENCE WITH PYTHON
AUTHOR: PRITI ARORA
PUBLISHER: SULTAN CHAND

SCHEME OF EVALUATION: THEORY (70 MARKS) + PRACTICAL (30) =100 MARKS

UNIT TEST-1 (MAXIMUM MARKS 40+10=50)

Chapter 1: Review Of Python Basics
Chapter 2: Functions
Chapter 3: Using Python Libraries
Chapter 4: Data File Handling

TERM-1(MAXIMUM MARKS 70+30=100)

Chapter 5: Program Efficiency
Chapter 6: Data Structure In Python
Chapter 7 Data Visualization Using Pyplot
Chapter 9: Web Development With Django
Note: All Chapters Covered In Unit-I Will Be Included

UNIT TEST-2 (MAXIMUM MARKS=50)

Chapter 10: Interface Python With SQL
Chapter 11: More On SQL
Chapter 12: Society Law And Ethics
Chapter 8: Computer Networks

PRE BOARD- I AND II

- Whole Syllabus

Guidelines for Project/ Practical's:

1) Students are required to submit project work developed in python with Mysql as backend in anyone of the following areas like e-governance, e-business and e-learning by the last week of October.

2) A practical record file is also required to be created during the entire academic session. The practical file must contain:

- | | |
|--------------------------|----------------|
| a) Python programs | -21 programs |
| b) Web files with Django | - 2 files |
| c) SQL with Python | -4 programs |
| d) Network concepts | - 10 questions |
| e) SQL commands | - 20 commands |

SYLLABUS 2020-2021
CLASS XII
ACCOUNTANCY

UNIT TEST-1(MAXIMUM MARKS 40+10=50)

- 1) Financial Statements of a Company
- 2) Financial Statement Analysis: - Meaning, Significance and Limitations.
- 3) Tools of Financial Statements Analysis: - Comparative Statements and Common Size Statements.
- 4) Accounting Ratio
- 5) Cash Flow Statements

FIRST TERM(MAXIMUM MARKS 80+20=100)

- 1) Non Profit Organization
 - 2) Accounting For Partnership Firm Fundamentals
 - 3) Valuation Of Goodwill
 - 4) Reconstitution Of Partnership Firm: Change In Profit Sharing Ratio
 - 5) Reconstitution Of Partnership Firm: Admission Of A Partner
 - 6) Reconstitution Of Partnership Firm: Retirement And Death of Partners
- Note: Whole Of UT-I Syllabus Will Be Included In 1stTerm.**

UNIT 2(MAXIMUM MARKS =50)

- 1) Dissolution Partnership Firm.
- 2) Company Accounts- Accounting for Share Capital
- 3) Company Accounts- Issue of Debentures
- 4) Company Accounts- Redemption of Debenture

PRE BOARD I AND II

- Full Syllabus

GUIDELINES FOR PROJECT:

A project is a wholehearted purposeful activity proceeding in social environment. The project work that a student may have to undertake shall be of the following nature.

- 1) Comprehensive problems: - A student may collect transaction vouchers and prepare voucher books of accounts, trial balance and financial statement or may be provided trial balance and may have to draw financial statement.

2) Analysis: - A student shall have to analyse the accounting data using analytical tool such as ratio analysis and cash flow statement etc.

Presentation and submission of project work at the end of stipulated term; each student will prepare and submit his/ her project.

Following essentials are required to be fulfilled for its preparation and submission.

- 1) The Total Project will be in the file format consisting of the recording of the value of shares and the graphs.
- 2) The Project Will Be Handwritten
- 3) The Project Report Will Be Develop In The Following Sequence
 - i) Cover Page Should Be The Project Title, Student Information, School And Year.
 - ii) List of Contents.
 - iii) The Project Report Will Be Develop in the Following Sequence
 - iv) Introduction
 - v) Topic And Suitable Heading
 - vi) Planning And Activities Done During The Project If Any.
 - vii) Observation and Findings While Conducting the Project.
 - viii) Conclusion
 - ix) Appendix (If needed)
 - x) Teachers Report

ASSESSMENT

The marks will be allocated under the following headings:

S.No.	Marks division	Marks
1	Practical File	4 Marks
2	Viva	4 Marks
3	Practical Assignments	6 Marks
	A) Accounting Ratios	
	B) Cash Flow Statement	6 Marks
	Total	20 Marks

Note: Date of submission of project second week of October.

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SYLLABUS 2020-2021

CLASS XII

BUSINESS STUDIES

BUSINESS STUDIES (PART A AND PART B BOOKS)

Author: Subhash Dey

Allocation of marks: 80(Theory) + 20(practical) =100 marks

UNIT TEST 1(MAXIMUM MARKS 40+10=50)

Chapter 1: Nature And Significance Of Management

Chapter 2: Principles Of Management: General And Scientific

Chapter 3: Business Environment- Five Dimensions- Economic, Political, Social, Technological, Political

Chapter 11: Marketing Management

Chapter 12: Consumer Protection

FIRST TERM (MAXIMUM MARKS 80+20=100)

Complete Syllabus Of Unit Test -I And

Chapter 4: Planning- Steps, Types, Advantages And Limitations Planning Process.

Chapter 5: Organising- Delegation, Decentralization, Formal And Informal Organization.

UNIT TEST 2(MAXIMUM MARKS =50)

Chapter 6: Staffing - Human Resource Management, Process Of Staffing, Source Of Recruitment, On The Job And Off The Job Training.

Chapter 7: Directing- Elements Of Directing, Formal And Informal Communications, Communication Barriers. Semantic, Organizational, Personal And Psychological And Measures To Improve It.

Chapter 8: Controlling Process, KRA, CPC

Chapter 9: Financial Management- Concept Of Capital Structure

PRE BOARD I AND II

Complete Syllabus Completed So Far And

Chapter 10: Financial Market- Primary And Secondary, Stock Exchange Procedure For D-MAT Account, Role Of SEBI.

CBSE Guidelines For Project Study:

→SINGLE PROJECT FOR 20 MARKS

- To develop a practical approach by using modern technologies in the field of business and management through getting involved in the process of research work.
- To explore the different dimension of the project in an innovative way, collecting supportive articles and data using various statistical tools, its interpretation with conclusion and suggestion, if any.

NOTE: Marking Scheme for Project Work:

S.No	HEADING	MARKS
1	Initiative	2
2	Presentation	2
3	Content, Observation and research	4
4	Analysis	4
5	Viva	8
	TOTAL	20

Project Topics→ As Per C.B.S.E norms and Guidelines.

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SYLLABUS 2020-2021

CLASS XII

ECONOMICS

BOOKS:

Part A: Macro Economics

Part B: Indian economic development

Author: Sandeep Garg

ALLOCATION OF MARKS:-

Theory: 80 Marks + Practical: 20 Marks = Total: 100 Marks

UNIT TEST 1(MAXIMUM MARKS 40+10=50)

Part A:

Chapter 1: National income and related aggregates: Basic concepts, circular flow of income, aggregates related to national income

Part B

Chapter 1: Indian economy on the eve of independence.

Chapter 2: Indian economy (1950- 1990)

FIRST TERM (MAXIMUM MARKS 80+20=100)

*** Complete syllabus of Unit Test 1 and**

Part A:

Chapter 1: (to be continued...) GDP and welfare, nominal and real GDP.

Chapter 2: Money and banking

Part B

Chapter 3: Liberalization, privatization and globalization (new economic policy, 1991)

Chapter 4: Poverty

UNIT TEST -2(MAXIMUM MARKS =50)

Part A

Chapter 3: Government budget, its objective, deficits (types)

Chapter 4: Foreign exchange and balance of payment account- current and capital account

Part B:

Chapter 6: Rural development

Chapter 7: Employment, Growth, Informalisation.

Chapter 8: Infrastructure

PREBOARD I AND II

Full syllabus till date and

Part A:

Chapter 5: Income determination and employment. Investment multiplier concept

Part B:

Chapter 9: Environment and sustainable development

Chapter 10: A Comparison between neighbouring countries (India, Pakistan and china)

Guidelines for project study (one project for 20 marks)

* The objective of the project work should be to probe deeper into theoretical concepts studied in classroom teaching learning process, to analyse and evaluate further relating it with real world economic scenario.

* To do the research work in terms of sources for the relevant data and arrange a presentation in a systematic approach.

Project topics: As per CBSE norms and guidelines

Marking scheme :-(For project assessment)

S.No	HEADING	MARKS ALLOTTED
1	Relevance of the topic	03
2	Research Work	06
3	Presentation Technique	03
4	Viva-Voce	08
	Total	20

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SYLLABUS 2020-2021
CLASS XII
INFORMATICS PRACTICES

BOOK NAME: Informatics practices
PUBLISHER: Dhanpat Rai and Company
AUTHOR: Sumita Arora

SCHEME OF EVALUATION: Theory (70 marks) + practical (30 marks) =100 marks

UNIT TEST 1(MAXIMUM MARKS 40+10=50)

Chapter 7: MYSQL revision tour
Chapter 8: More on SQL
Chapter 10: Interface python with Mysql
Chapter 9: Creating Django based web application

FIRST TERM (MAXIMUM MARKS 70+30=100)

All chapters covered in unit test I
Chapter 1: Working with Numpy
Chapter 2: Python Pandas
Chapter 3: Plotting with Pyplot-I (Bar Graph And Scatter Plots)
Chapter 4: Plotting with Pyplot-II (Histograms, Frequency Distribution, Boxplots)

UNIT TEST 2(MAXIMUM MARKS =50)

Chapter 5: Introduction to Software engineering.
Chapter 6: Agile methods and practical aspects of software engineering.
Chapter 11: Society law and ethics

PREBOARD 1 AND 2

Whole syllabus

GUIDELINES FOR PRACTICAL'S/ PROJECT

- 1) students are required to submit project work developed in python with MYSQL in any following areas like e-governance, e-business and e- learning with complete report.
- 2) A practical record file is also required to be created during the entire academic session.

The practical file must contain

- | | |
|---|---------------|
| A) Python Programs. | -20 Programs |
| B) Python with SQL: | -4 Programs |
| C) Implementation of web server to write user data: | -1 file |
| D) SQL commands: | - 20 commands |

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SYLLABUS 2020-2021
CLASS XII
POLITICAL SCIENCE

PRESCRIBE TEXTBOOKS

Part A: Contemporary world politics by NCERT: 40 marks

Part B: India since Independence by NCERT: 40 marks

UNIT 1(MAXIMUM MARKS 40+10=50)

BOOK 1

Chapter 1: Cold war era in world politics

Chapter 2: Disintegration of the Soviet Union

Chapter 3: US Hegemony in the world politics

Chapter 4: Alternative centres of world politics

FIRST TERM (MAXIMUM MARKS 80+20=100)

BOOK 1

Chapter 5: South Asia in the post cold War Era

Chapter 6: International Organisation in a unipolar world

BOOK 2

Chapter 1: Challenges of nation building

Chapter 2: Era of one party dominance

Chapter 3: Politics of planned development

Chapter 4: India's External relations

Note: First unit syllabus will be tested in first term.

UNIT 2(MAXIMUM MARKS =50)

BOOK 1

Chapter 7: Security in Contemporary world

Chapter 8: Environment and natural resources

Chapter 9: Globalisation

BOOK 2

Chapter 5: Challenges and restoration of congress system

Chapter 6: Crisis of the democratic order

Chapter 7: Rise of popular movement

Chapter 8: Regional aspiration

Chapter 9: Recent developments in Indian politics

PRE BOARD

Full syllabus (book 1 and book 2)

Note: Practical exam will be conducted in first term and Pre board.

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SYLLABUS 2020-2021

CLASS XII

PAINTING

Scheme of evaluation: Theory (30 marks) + practical (70 marks) =100 marks

UNIT TEST 1(MAXIMUM MARKS 20+30=50)

Chapter 1: Introduction to Indian miniature school
Chapter 2: Rajasthani school of miniature painting
Chapter 3: Pahari school of miniature painting

FIRST TERM (MAXIMUM MARKS 30+70=100)

All the chapters of unit 1 send the following
Chapter 4: Mughal school of miniature painting
Chapter 5: Deccan school of miniature painting
Chapter 6: New Era in Indian art
Chapter 7: Evolution of The Indian National Flag

UNIT TEST 2(MAXIMUM MARKS =50)

Chapter 8: The Bengal School of painting
Chapter 9: Paintings of Bengal School
Chapter 10: Contribution by the Indian artist towards national freedom movement
Chapter 11: Introduction to modern trends in Indian art
Chapter 12: Painting of contemporary (modern) Indian artist
Chapter 13: Graphic prints of contemporary Indian artist
Chapter 14: Sculptures of contemporary Indian artist

PREBOARD 1 AND 2

Whole syllabus
Contents of Portfolio for Final Submission/ Evolution

Total sheets: 28

- | | |
|--------------------------------|------------------|
| 1) Nature Study And Still Life | --18 Sheets |
| 2) Composition | --8 Sheets |
| 3) Experimental Work. | -- 4 to 5 sheets |