

VISVA-BHARATI

Semester-wise syllabus of Batik works (**Vocational**) under NEP Course Structure of class 11(Two Semesters) and class 12 (Two semesters).

- 1) Nomenclature of the (**Vocational**) subject of **Batik** works.
- 2) Syllabus has been modified.
- 3) Theory and practical have been divided into two semesters per class.
- 4) Division of mark is as follows for each semester :

Internal Assessment	Semester Assessment
Theory – 03	Theory – 10
Practical - 07	Practical -30

Atanu Mukherjee
23/04/2025

Sudhi Ranjan Mukherjee^{Page}
23/04/2025

VISVA-BHARATI
Class 11 (1st Semester)

Semester-wise syllabus of Batik works (Vocational) under NEP Course Structure.

Division of mark is as follows for each semester :

Internal Assessment	Semester Assessment
Theory – 03	Theory – 10
Practical - 07	Practical -30

1st Semester

➤ **Theory**

Basic concept of Batik

- a) What is Batik?
- b) Materials.
 - i) (Wax + Resin + Lantern + Brush + Cloth)
 - ii) Proportion of wax and resin.
 - iii) Use of wax with resin.

➤ **Practical Work**

- i) Study of Traditional Santiniketani batik design and pattern.
- ii) Special emphasis on bird motif, animal, flower, foliage and fish. (Outdoor Study)

Mode of Assessment

Theory: Internal Assessment will be based on viva voce.

Practical: Internal Assessment will be assignment-based.

Semester Assessment will be conducted by Internal Examiners for class 11.

Atanu Mukherjee
23/04/2025

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23/04/2025

VISVA-BHARATI
Class 11 (2nd Semester)
Semester-wise syllabus of Batik works (Vocational) under NEP Course Structure.

Division of mark is as follows for each semester :

Internal Assessment	Semester Assessment
Theory – 03	Theory – 10
Practical - 07	Practical -30

2nd Semester

➤ **Theory**

- i) Preparation of color and salt (Naphtal + Indigo)
- ii) Method of coloring.
- iii) De-waxing.
- iv) Finishing

➤ **Practical Work**

- i) copy
copied from Jamini Roy's Painting and Nandalal Bose's Linocut etc.
- ii) Table Cover, Cushion Cover/Head Scurf, Wall hanging.

Napthol/Indigo Colour.

Mode of Assessment

Theory: Internal Assessment will be based on viva voce.

Practical: Internal Assessment will be assignment-based.

Semester Assessment will be conducted by Internal Examiners for class 11.

Atanu Mukherjee
23/04/2025

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23/04/2025

VISVA-BHARATI

Class 12 (1st Semester)

Semester-wise syllabus of Batik works (Vocational) under NEP Course Structure.

Division of mark is as follows for each semester :

Internal Assessment	Semester Assessment
Theory – 03	Theory – 10
Practical - 07	Practical -30

1st Semester

➤ Theory

i) Santiniketani Batik

➤ Practical Work

- Study of the contemporary pattern Design available books and journals and preparation of scrap book.
- Develop a design with the help of bird motif, animal, flower, foliage and fish.

Mode of Assessment

Theory: Internal Assessment will be based on viva voce.

Practical: Internal Assessment will be assignment-based.

Atanu Mukherjee
23/04/2025

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23/04/2025

VISVA-BHARATI
Class 12 (2nd Semester)

Semester-wise syllabus of Batik works (Vocational) under NEP Course Structure.

Division of mark is as follows for each semester :

Internal Assessment	Semester Assessment
Theory – 03	Theory – 10
Practical - 07	Practical -30

2nd Semester

➤ **Theory**

- i) Java and Indonesian Batik.
- ii) Contemporary Indian Batik.

➤ **Practical Work**

- i) copy
Design from Ajanta, Javanese, Ceylonese Motifs.
- ii) Practical execution of the subjects studied in class 12 (Semester 1)
- iii) Practices of Batik in Santiniketan and Sriniketan.
- iv. Full size Uttoriya, Curtain, Bed sheet.

Mode of Assessment

Theory: Internal Assessment will be based on viva voce.

Practical: Internal Assessment will be assignment-based.

2nd Semester of class 12 will be based on a submission/display of semester work for practical only.

Atanu Mukherjee
23/04/2025

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23/04/2025

ELEMENTS OF COMPUTER SCIENCE (VOC)
VISVA - BHARATI
SEMESTER WISE SYLLABUS (6 – MONTHS EACH)
CLASS- XI

SEMESTER I:

THEORY:

Basic computer organization: Introduction to Computer System, hardware, software, input device, output device, CPU, memory(primary, cache and secondary), units of memory(bit, byte, KB, MB, GB, TB, PB).

Types of software: System software (Operating system, functions of the operating system, O/S user interface, system utilities, device drives), language translator (assembler, compiler and interpreter), application software.

PRACTICAL:

Introduction to windows, file and folder.

Introduction to Microsoft Word : Overview of Microsoft Word's purpose and features.

Introduction to Microsoft Excel : Overview of Microsoft Excel's purpose and features.

SEMESTER II

THEORY:

Number system: Decimal, binary, Octal, and Hexadecimal number system, conversion between number system, binary arithmetic, binary complements, encoding schemes: ASCII, BCD.

Networking and Internet Basics:

Introduction to computer network, evolution of networking (ARPANET, INTERNET).Data communication terminologies, network topologies, network protocol, preliminary ideas of LAN, MAN, WAN, transmission media, network devices, Electronic Mail etc. Cyber safety, Malware, Digital Footprints, Data Protection.

PRACTICAL:

Introduction to Microsoft PowerPoint : Overview of Microsoft PowerPoint's purpose and features.

Introduction to Microsoft Access : Overview of Microsoft Access's purpose and features.

Approved by V. D. S.
23/09/25

ELEMENTS OF COMPUTER SCIENCE (VOC)
VISVA - BHARATI
SEMESTER WISE SYLLABUS (6 – MONTHS EACH)
CLASS- XII

SEMESTER I

THEORY:

Logic Gates: AND, OR, NOT, XOR, NOR, NAND, truth table representation. De Morgan's Theorem.

Planning the computer program: purpose of program planning Algorithm and Flowchart.
Programming languages generation, low-level and high-level languages,

PRACTICAL:

Introduction to HTML and basic Tags and Document structure.

C Programming: variables, constants and data types, operators and expressions, input / output statements, conditional statements (if, if-else, switch), looping constructs (for, while, do while)

SEMESTER II

THEORY:

Database concepts: introduction to database concepts and its need. **Relational data model:** relation, attribute, tuple, primary key, candidate key, foreign key.

Introduction to Artificial Intelligence: Definition and scope of AI.

PRACTICAL:

Brief Introduction to Python: Introduction to Python features of Python, executing a simple program, execution mode, python character set, keyword, identifier, literal, and operator, variable. Data types mutable and immutable data types, flow of control, conditional statements (if, if-else, if-elseif-else), iterative statement, strings.

Approved K. Das
23/04/25
23/04/25

Patha Bhavana
Revised Syllabus for Class XI
Subject:- Esraj/Sitar (Vocational)
Semester-I

Theory

Time- 1 Hour


Full Marks: 20(16+4)

1. Description of different parts of Esraj/ Sitar in detail.
2. Theoretical knowledge of following Ragas:-
Yaman, Kafi, Bhupali, Khamaj, Bhairav
3. Definition of Gats(Masitkhani & Razakhani)

Practical

Full Marks: 30(24+6)

1. Exercise of Alankars.
2. Razakhani Gat with Tana and Jhala of the following Ragas:-
Yaman, Kafi, Bhupali
3. Knowledge of the following talas:-
Trital, Jhaptala


24/09/2024

विभागाध्यक्ष / Head
हिन्दुस्तानी शास्त्रीय संगीत विभाग
Deptt. of Hindusthani Classical Music
संगीत भवन, विश्वभारती, शान्तिनिकेतन
Sangit-Bhavana, Visva-Bharati, Santiniketan


24/09/2024


24.09.24

Patha Bhavana
Revised Syllabus for Class XI
Subject:- Esraj/Sitar (Vocational)
Semester-II

Theory

Time- 1 Hour

Full Marks: 20(16+4)

1. Definitions of the following musical term:
Nada, Shruti, Swar, Saptak, Thata, Raga, Vadi, Sambadi, Bibadi, Anubadi, Pakad, Sthayee, Antara, Tala, Laya, Matra.
2. Writing notation of Gats in Bhatkhande notation system.
3. Life history and contributions of following personalities:
Tansen, Amir Khusru, Alauddin Khan.
4. Writing notation of following talas:
Trital, Jhaptal, Dadra, Kaharwa.

Practical

Full Marks: 30(24+6)

1. Exercise of advance Alankars.
2. Razakhani Gat with Tana and Jhala of the following ragas:
Bhairav, Khamaj
3. Knowledge of the following talas:
Rupak, Dadra, Kaharwa

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24/09/2024

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24/09/2024
अध्यक्ष
संगीत भवन
विश्वभारती
Principal
Sangit Bhavana
Visva-Bharati

[Signature]
24.09.2024



Visva-Bharati
Semester-wise Syllabus in Library Science Group-B-Elective
For Patha Bhavana & Siksha Satra
(As per National Education Policy 2020)

1. Rationale:

The present society is driven by technology, where tech-based occupations have increased. The tech-based society involves identifying reliable sources of information, accessing them, selecting the requisite information, and synthesizing and communicating it effectively. Searching, locating, and using such information is only possible if one can use the available tools to access the required information/resources. Library and Information Science (LIS) teaches an individual about information resources and their effective use. LIS teaching imparts the necessary skills to an individual to be an independent learner. The course will impart some of the basics of LIS to those aspiring to pursue higher studies in Library and Information Science.

2. Objectives:

The basic objectives of this course are to: -

- Offer primary ideas on collection development, resource sharing, information processing & storage, dissemination, and searching as the basics of LIS.
- Develop information-related skills among the learners, which will help them access resources in both print and electronic forms.
- Inculcate the interest of the learners in LIS, which may help them opt for the subject as a career.

To achieve the above basic objectives, the course in LIS will have the following training objectives:

- To introduce the concept of LIS
- To familiarize the learners with the organization of library sources
- To create awareness among the learners about various information sources and their use
- To develop necessary skills among learners for utilizing the library and information services to supplement studies
- To inculcate ethical use of information among the learners; and
- To familiarize the learners with recent advancements in LIS

3. Course Structure:

The course will consist of eight modules, designed to impart foundational knowledge in key areas of Library and Information Science. The modules will be distributed across four semesters as follows:

- **Semester I:** Modules 1 & 2
- **Semester II:** Modules 3 & 4
- **Semester III:** Modules 5 & 6
- **Semester IV:** Modules 7 & 8

Each module is intended to progressively build upon the knowledge gained in the previous semesters, ensuring a comprehensive understanding of the subject.

Module - 1: Library, Information, and Society

Module - 2: Collection Development of Library Resources and Management of Libraries

Module - 3: Library and Information Sources

Module - 4: Computer Applications in Libraries

Module - 5: Organisation of Library Resources (Library Classification Theory)

Module - 6: Organisation of Library Resources (Library Classification Practice)

Module - 7: Description of Library Resources (Library Cataloguing Theory)

Module - 8: Description of Library Resources (Library Cataloguing Practice)

XI - SEMESTER-I

Module-1: Library, Information and Society. This module has been further segmented as follows:

Unit-1 Definition, Objectives, Purpose and Role of Library in the development of modern Society

Unit-2 Tagore: The founder of Visva-Bharati and its Library

Unit-3 Library and Information Centres: Concepts and Role in Society.

Unit-4 Types of Libraries :Public, Academic, Special and National, Types of Information Centres

Unit-5 The Law's of Library Science with reference to Ranganathan's Five Laws

Module -2: Collection Development of Library Resources and Management of Libraries.

This module has been further segmented as follows:

Unit-1 Resource Selection and Acquisition, Accessioning of Library Materials and Stock Verification

Unit- 2 Different stages of e-resource selection and procurement

Unit- 3 Functions of different sections of a Library, Human Resources of the Library

Unit-4 Library Committee, Library Rules, Annual Report and Library Finance

Unit-5 Librarianship as a Career

XI - SEMESTER-II

Module- 3: Library and Information Sources. This module has been further segmented as follows:

- Unit-1 Definition, Need and Purpose of Reference & Information Service
- Unit-2 Reference Service: Types of Reference Service (both print and e-resources)
- Unit-3 Study and Evaluation of Essential Reference Tools
- Unit-4 Traditional and Modern Library Services (Library Services in the Electronic Era)
- Unit-5 E-resources

Module- 4: Computer Application in Libraries. This module has been further segmented as follows:

- Unit-1 Computer: Definition, Need and Generation
- Unit-2 Software, Hardware and Networking
- Unit-3 Study of Integrated Library Management Software (ILMS)
- Unit-4 Library Infrastructure (including ICTs) to facilitate library services
- Unit-5 Orientation to VBLN (Visva-Bharati Library Network) website (<https://vblibrarynetwork.in/>)

XII SEMESTER-I

Module-5: Organisation of Library Resources. (Library Classification Theory)

This module has been further segmented as follows:

- Unit-1 Need, Purpose, Definition and Development of Library Classification
- Unit-2 Concept of Main Classes & APUPA Pattern for arrangement of documents
- Unit-3 Definition, Need & Functions of Notation

Module-6: Organisation of Library Resources. (Library Classification Practice)

- Unit-1 Study of Major Classification Scheme: Main Classes, Tables and Relative Index
- Unit- 2 Classification of documents representing simple subjects as per the Major Classification Scheme
- Unit-3 Classification of documents representing multiple subjects as per the Major Classification Scheme

XII SEMESTER-II

Module-7: Description of Library Resources. (Library Cataloguing Theory)

This module has been further segmented as follows:

- Unit-1 Need, Purpose, and Importance of Library Cataloguing
- Unit-2 Forms & Types of Library Catalogue
- Unit-3 Kinds of Entries, Parts of Entries, Idea of Subject Heading

Module-8: Description of Library Resources. (Library Cataloguing Practice)

This module has been further segmented as follows:

- Unit-1 Preparation of Entries as per Major Cataloguing Codes
- Unit-2 Single authorship. Shared responsibility. Mixed responsibility. Pseudonyms, Uniform Titles
- Unit-3 Corporate body.
- Unit-4 Continuing resources

4. Distribution of Marks

This paper will carry 50 marks in each of the semesters. 10 marks will be for the Internal Assessment, and the remaining 40 marks will be for the final examination (a combination of theory and practice). Duration of the Examination: two hours for 40 marks.

Semester	Theory	Practical	Internal	Total
Sem I (XI)	10	30	10	50
Sem II (XII)	10	30	10	50
Sem I (XI)	10	30	10	50
Sem II (XII)	10	30	10	50

5. Question Pattern and Evaluation:

Theory (10 Marks)

- MCQ \longrightarrow 1 (Mark) X 2 (Questions) = 2 Marks
 - Short Answer \longrightarrow 2 (Marks) X 2 (Questions) = 4 Marks
 - Descriptive \longrightarrow 4 (Marks) X 1 (Questions) = 4 Marks
- (For SEM I, II, III & IV)

Practical (30 Marks)

- 10 Marks x 3 Questions = 30 Marks (SEM-I, Preparation of Accession Register, Book Labelling, Pasting, Model Library Rules & Annual Reports)
- 10 Marks x 3 Questions = 30 Marks (SEM-II, Reference Query, Evaluation of Reference Tools, Evaluation of Library Websites)
- 5 Marks x 6 Questions = 30 Marks (SEM-III, Classification Practice)
- 10 Marks x 3 Questions = 30 Marks (SEM-IV, Cataloguing Practice)

For internal assessment (10 marks for each semester) – Assignments and Practical tests (Cataloguing, Classification, Website Demonstration, Seminar, etc.) may be conducted by the teachers concerned.

Bairam Khan
16/05/2025

BAIRAM KHAN
LIBRARIAN
BOLPUR COLLEGE
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Nityamanda Das
16/5/2025

In-charge
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Joynish Ghosh 16.05.25
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विश्वभारती / Visva-Bharati

Asish Thakur 16/5/25
In-charge
RATHINDRA PATHAGAR
SIKSHA-SATRA
VISVA-BHARATI, SRINIKETAN



Visva-Bharati
Semester-wise Model Questions in Library Science Group-B Elective
For Patha Bhavana & Siksha Satra
(As per National Education Policy 2020)

XI-SEMESTER-1

Module-1

1. What is a library? **1 mark**
2. What is an information centre?
3. Where is the National Library of India located?
4. In which year Five Laws of Library Science introduced?
5. Who is Prabhat Kumar Mukhopadhyay in the Visva-Bharati Library System?

1. Write down two objectives of an academic library. **2 marks**
2. Write down two services of NIScPR, (Formerly NISCAIR)
3. What is open and closed access?
4. Difference between libraries and information centres?
5. What is the concept of a mobile library as introduced by Rabindranath Tagore?

4 marks

1. Elucidate Rabindranath Tagore's ideas for the development of libraries.
2. Give an idea of the Five Laws of Library Science.
3. Discuss briefly the role of the library for the development of a society.
4. Discuss briefly the reason for setting up an information centre.
5. Write a short note about the IFLA-UNESCO School Library Manifesto 2025.

Module-2

1. What is library management
2. What is the accession number in the library? **1 mark**
3. What is e-resources?
4. What is a budget?
5. What is an annual report?

1. What is a shelving arrangement? **2 marks**
2. Mention two important functions of the circulation section.

3. Write down two important book selection principles in the library.
4. Name the different sections of a library.
5. What is librarianship?

4 marks

1. Describe briefly the various methods of stock taking in the library.
2. Mention different sources of funds in the library.
3. Discuss the importance of library statistics.
4. Mention the utility of the library committee.
5. Discuss the staff planning required in the library.

Practical

Answer any three questions

(3x10= 30 marks)

1. Prepare an accession register with the bibliographical details of five books, with the bill/invoice no.
2. Prepare a model library rules to run a library very effectively & efficiently.
3. Prepare a draft annual report format for a library, reflecting general data and activities from the previous year.
4. Prepare at least two data formats to collect data from different sections of the library for preparing library statistics.
5. Prepare a model library budget.

XI - SEMESTER-II
Module-3

1. What is a reference service?
2. What is a textbook?
3. What is a reference book?
4. "Contact between the right book and the right reader at the right time", who quoted the sentence?
5. Which institution is responsible for publishing the Indian National Bibliography (INB)?

1 mark

1. Difference between short-range & long-range reference service.
2. What are the types of information sources?
3. What is the information service?
4. Give two examples of traditional library services.
5. Give two examples of modern library services.

2 marks

1. What is CAS? Discuss features and methods of CAS.
2. Discuss primary, secondary & tertiary sources.
3. What is SDI? Discuss the steps of SDI.
4. Discuss the criteria to evaluate a reference tool.
5. Discuss the importance of e-resources in the library.

4 marks

Module-4

1. What is a computer?
2. What is hardware?
3. What is software?
4. What is an operating system?
5. What is ILMS?

1 mark

2 marks

1. What are CDs & DVDs?
2. Difference between primary storage device & secondary storage device
3. Give two examples of open-source operating systems.
4. Give two examples of open-source ILMS.
5. What is a library network?

4 marks

1. Discuss the generation of computers.
2. Discuss the functions of input & output devices with examples.
3. Discuss the benefits of the use of ILMS in libraries.
4. Discuss the key aspects of ICT infrastructure in the libraries.
5. Discuss the activities of DELNET & INFLIBNET.

Practical

Question No. 1 & 2 are mandatory and answer any one from Question No. 3 to 5
(3x10=30 marks)

1. Write down the titles of the appropriate reference tools to find the answer to the following reference queries.
(1x10=10 marks)

- i. To know the year of establishment of Visva Bharati
- ii. To know the name of the present Vice-Chancellor of Visva Bharati
- iii. To know the tourist places of Bolpur Santiniketan, Birbhum
- iv. To know the origin of the word "computer"
- v. To know the year of the award of the Nobel Prize to Kabiguru Rabindranath Tagore.
- vi. To know the length, latitude and longitude of Pangong Lake
- vii. To get the list of members of the United Nations Organization.
- viii. To know the kinetic theory of gases.
- ix. To know the current production of rice in Bangladesh
- x. To know the name of the present governor of RBI.
- xi. To know the full form of IFLA.
- xii. To get a list of books by Mahasweta Devi.
- xiii. To know the publisher of 'Current Science'.

- xiv. To know the country profile of Greenland.
 - xv. The role of Netaji Subhas Chandra Bose in the Indian Freedom Struggle.
2. Fill up the practice sheets, consulting the following reference books:(Any Two)
(5x2=10 marks)
- i. Oxford English Dictionary
 - ii. Encyclopaedia Britannica
 - iii. India who's who
 - iv. Indian National Bibliography
 - v. India: A Reference Annual
 - vi. District Gazetteer
 - vii. Universities Hand Book (By Association of Indian Universities)
- (1x10=10 marks)
3. What types of information are typically available on library websites to support users' academic and research needs?"
(1x10=10 marks)
4. What key checkpoints should be considered to effectively evaluate the overall quality of library websites?
(1x10=10 marks)
5. Discuss the important modules of ILMS.

SEMESTER-I
Module-5

- 1. What is a class no? 1 mark
- 2. What is a category?
- 3. What is library classification?
- 4. What is a relative index?
- 5. "Classification made an ape to man". Who quoted this?

- 1. What is the main class? 2 marks
- 2. What is the APUPA arrangement?
- 3. What is notation?
- 4. Difference between natural & artificial classification.
- 5. What is the call number?

4 marks

- 1. Discuss the purpose of library classification.
- 2. What are the species of classification schemes?

3. Write a short note on DDC.
4. Discuss the qualities of notation.
5. What are the methods of arranging books on shelves?

Practical

Answer any five questions

Module-6

(5x6 = 30 marks)

(Classify the following titles according to DDC, 11th Ed.)

1. Public libraries in India.
2. Library building in Torrid Zones.
3. Directories of child psychology.
4. Outline of folk literature.
5. Women workers of China.
6. Guide books of bank and banking.
7. Handbooks of mechanics.
8. Laboratory manuals of organic chemistry.
9. Elementary education in India.
10. Gitanjali by Kabiguru Rabindranath Tagore.
11. Photography of Deserts.

XII SEMESTER-1 **Module-7**

1 mark

1. What is a catalogue?
2. What is the physical form of the library catalogue?
3. What is the inner form of a library catalogue?
4. What is the main entry?
5. What is tracing?

2 marks

1. What is a subject heading?
2. What is catalogue code?
3. What is an authority file?
4. What is a catalogue card?
5. What is a shelf list?

4 marks

1. What are the objectives of the library catalogue?
2. What are the functions of the library catalogue?
3. Discuss the different types of inner form of the library catalogue.
4. Give the idea of OPAC & Web-OPAC.
5. Discuss the eight areas of cataloguing as per AACR2R.

(Prepare the main entry and tracing according to AACR2R.)

1. T.P.: Dr. Ambedkar: Life and Mission/ Dhananjay Kerr/ Bombay/Popular Prakashan.

V.T.P.: Indian History education, no.1

Other Information: Acc. No-4330/ Call No.-923.254/KER 23/Publication: 1st Publication 1979/ Size: 22cm x12 cm./ Pages;-XXI, 532 p./ISBN-81-7835-565-5000/ Includes bibliography in the back of the book. / Price Rs.540/-

Subject Heading: Ambedkar, B.R. - Biography

2. T.P.: Citation Analysis in Research Evaluation/ W.J. Goode and P. K. Hatt/ Mc. Graw-Hill Book Company/New Delhi.

Other Information: c1981/ ISBN-0-07692-456-9000/ Call No. 001.42 G 613 C/ Accession No. 57582/ The book contains 12 preliminary pages and 380 textual pages/ It has bibliography and index/ Size-18.8x13.5 cm./Price of the book Rs. 400

Subject Heading: Methodology and research

3. T.P.: পাঠ্যপ্রচয়/রবীন্দ্রনাথ ঠাকুর/বিশ্বভারতী গ্রন্থন বিভাগ/১৩৯২

Other Information: Call No. T6/12/Acc. No. 6209/Page - 131 পৃ./Price - Rs. 8.00

Subject Heading (বিষয় শিরোনাম): রবীন্দ্রনাথ - পাঠ্যপুস্তক

4. T.P.: আমার কথা/তারাশঙ্কর বন্দ্যোপাধ্যায়/অনামিকা পাবলিশার্স/১০/২ বি রমানাথ মজুমদার স্ট্রীট/কলিকাতা - ৭০০০০৯

Other Information: Acc. No. - 5698/Year of Publication - পৌষ ১৪০২

বঙ্গাব্দ/Page - 258/Price - 50 টাকা

বর্তমান গ্রন্থটি তারাশঙ্কর বন্দ্যোপাধ্যায়ের শেষ দিকের ঘটনা সমৃদ্ধ

Subject Heading (বিষয় শিরোনাম) - তারাশঙ্কর বন্দ্যোপাধ্যায় - আত্মজীবনী

Nityananda Das
16/5/2025

Semester-wise Syllabus of Painting(Elective)under NEP

Course Structure of Class 11 (Two Semesters)

(Theory & Practical)

Total Marks=50 (Practical=30, Theory=20)

SEMESTER-1					
Course	Course Title	Course Content	Course Objective	Course Outcome	Marks(50)
Theory	1)Indus Valley Civilization	Brief History(Mohenjodaro Seals, Mother Goddess, Bearded Priest, Dancing Girl, Harappan Male Torso	Introduction to Early Indian Art and Classical Art Traditions of India	To develop an understanding of Indian art and its approach to visual representation	Internal=05 External= 15 Total= 20
	2)Maurya	Ashokan Pillar (Sarnath), Yaksha and Yakshi sculpture			
Practical	Study Based Composition-I	Study from Nature Study from Life Medium: Pencil/ Pen& Ink No. of Works: Minimum One	Explore methods of studying the flora and fauna and develop a close relationship with the natural environment	Learn to engage with our environment and reflect one's experience Learn different process of representation	Internal=10 External= 20 Total=30

Mode of Assessment

Theory: Internal Assessment will be assignment-based

External Assessment will be a combination of MCQ, Short /Broad Questions

Practical: Internal Assessment will be assignment-based

External Assessment (End Semester Exam) will be a Submission/Display of Semester works

Semester Assessment will be made by Internal Examiners

External Member Present

Rati Basu

1. Ms. Rati Basu(Rtd. Asst. Lecturer, Patha Bhavana)

Internal Members from Patha Bhavana and Siksh Satra

1. *Faranda*

2. *Biswadipta Das*

विभागाध्यक्ष / HEAD of the Department of Painting, Kala Bhavana

चित्रकला विभाग / Deptt. of Painting

कला-भवन / Kala Bhavana

विश्वभारती, शान्तिनिकेतन

Visva-Bharati, Santiniketan

2. Arghya Priya Majumdar(HOD, Deptt. of Painting,KB)

Arghya Priya Majumdar

एसोसिएट प्रोफेसर / ASSCT. PROFESSOR

चित्रकला विभाग / Deptt. of Painting

कला-भवन / Kala Bhavana

विश्वभारती, शान्तिनिकेतन

Visva-Bharati, Santiniketan

Semester-wise Syllabus of Painting(Elective)under NEP

Course Structure of Class 11 (Two Semesters)

(Theory & Practical)

Total Marks=50 (Practical=30, Theory=20)

SEMESTER-2					
Course	Course Title	Course Content	Course Objective	Course Outcome	Marks(50)
Theory	1)Bharut	Introduction to relief works of Buddhist Stupa Medallion(Dream of Maya Devi)	Learn the themes and characteristic features of Buddhist art	To develop an understanding of Indian art and its approach to visual representation	Internal=05 External= 15 Total= 20
	2)Sanchi stupas	Introduction to Toranas & Relief works	Introduction to Jataka stories and Shilpabhanjikas		
	3) Gupta Period	Introduction to Buddhist sculptures Seated Buddha in Sarnath, Mathura Standing Buddha	Introduction to classical Buddhist Art		
Practical	Outdoor/ Indoor Composition-I	Study from surroundings Study from Life/Still Life Medium: Water Colour & Pastel No. of Works: Minimum Two	Explore methods of studying the flora and fauna and develop a close relationship with the natural environment	Learn to engage with different social spaces Learn different process of representation	Internal=10 External= 20 Total=30

Mode of Assessment

Theory: Internal Assessment will be assignment-based

External assessment will be a combination of MCQ, Short /Broad Questions

Practical: Internal Assessment will be assignment-based

External Assessment (End Semester Exam) will be a Submission/Display of Semester works

Semester Assessment will be made by Internal Examiner

External Member Present

Rati Basu

1. Ms. Rati Basu(Rtd. Asst. Lecturer, Patha Bhavana)

Internal Members from Patha Bhavana and Siksh Satra

1. *Fayadur*

2. *Biswasip Das*

विभागाध्यक्ष / HEAD
चित्रकला विभाग / Deptt. of Painting
कला-भवन / Kala Bhavana
विश्वभारती, शान्तिनिकेतन
Visva-Bharati, Santiniketan

2. Arghya Priya Majumdar(HOD, Deptt. of Painting, KB)

3. Sanchayan Ghosh(Asstt. Professor, Deptt. of Painting, KB)

एसोसिएट प्रोफेसर / ASSCT. PROFESSOR
चित्रकला विभाग / Deptt. of Painting
कला-भवन / Kala Bhavana
विश्वभारती, शान्तिनिकेतन
Visva-Bharati, Santiniketan

Semester-wise Syllabus of Painting(Elective)under NEP

Course Structure of Class 12(Two Semesters)

(Theory & Practical)

Total Marks=50 (Practical=30, Theory=20)

SEMESTER- 1					
Course	Course Title	Course Content	Course Objective	Course Outcome	Marks(50)
Theory	1)Ajanta	Brief Introduction to the Art 6 th BC in Indian subcontinent	Introduction to Early Indian Art and initiation of Indian Modern Art	Understanding the evolution of Indian art and modernity Learn to analyse different approach to visual representation	Internal=05 External=15 Total= 20
	b) Early Artists of Santiniketan	Learn about the characteristics of art practise in early Santiniketan			
	c)Nandalal Bose	Brief biography and his Mural at Santiniketan & Sriniketan			
Practical	Study Based Composition-II	Study from Life/Still Life Medium: Mixed Media/Water Colour No. of Works: Minimum Two	Explore methods of engaging with one's surroundings and interpret with multiple materials	Learn to engage with our environment and Learn different process of representation using recycling materials	Internal=10 External=20 Total=30
	Outdoor Composition				

Mode of Assessment

Theory: Internal Assessment will be assignment-based

External Assessment will be a combination of MCQ, Short /Broad Questions

Practical: Internal Assessment will be assignment-based

External Assessment (End Semester Exam) will be a Submission/Display of

Semester works

Semester Assessment will be made by Internal Examiner

External Member Present

Rati Basu

1. Ms. Rati Basu(Rtd. Asst. Lecturer, Patha Bhavana)

2. Arghya Priya Majumdar(HOD, Deptt. of Painting,KB)

3. Sanchayan Ghosh(Asstt. Professor, Deptt. of Painting,KB)

Internal Members from Patha Bhavana and Siksha Satra

1. *Fayader*

2. *Bismadip Das*

विभागध्यक्ष / HEAD

चित्रकला विभाग / Deptt. of Painting

कला-भवन / Kala Bhavana

विश्वभारती, सानिकेतन

Visva-Bharati, Santiniketan

एसोसिएट प्रोफेसर / ASST. PROFESSOR

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विश्वभारती, सानिकेतन

Visva-Bharati, Santiniketan

Semester-wise Syllabus of Painting(Elective)under NEP

Course Structure of Class 12(Two Semesters)

(Theory & Practical)

Total Marks=50 (Practical=30, Theory=20)

SEMESTER- 2					
Course	Course Title	Course Content	Course Objective	Course Outcome	Marks(50)
Theory	1)Mughal Miniature	Brief Introduction to Mughal Painting(Royal Portraits, Battle scenes/Hunting scenes, Birds & Animals	Introduction to Early Indian Art and Masters of Modern Indian Art	Understanding the evolution of Indian art and modernity Learn to analyse different approach to visual representation	Internal=05 External=15 Total= 20
	b) Rabindranath Tagore c)Binode Behari Mukherjee d) Ram Kinkar Baiz	b)Portrait & Landscapes c)Brief Biography and Murals d)Brief Biography and Outdoors sculptures in Santiniketan			
Practical	Outdoor/ Indoor Composition-II	Study from Life/Still Life Medium: Any medium No. of Works: Minimum One	Explore methods of engaging with one's own ideas and interpret with any material and medium	Learn to engage with your personal experience Learn different process of representation using multiple mediums	Internal=10 External=20 Total=30

Mode of Assessment

Theory: Internal Assessment will be assignment-based

External Assessment will be a combination of MCQ, Short and Broad Questions

Practical: Internal Assessment will be assignment-based

External Assessment (End Semester Exam) will be a submission/Display of Semester works

Semester Assessment will be made by One External Examiner and one Internal Examiner

External Examiner may be any practicing artist with minimum qualification of BFA from a recognised University

External Member Present *Rati Basu*

1. Ms. Rati Basu(Rtd. Asst. Lecturer, Patha Bhavana)

2. Arghya Priya majumdar(HOD, Deptt. of Painting, KB)

3. Sanchayan Ghosh(Asst. Professor, Deptt. of Painting, KB)

Sanchayan Ghosh एसोसिएट प्रोफेसर / ASSCT. PROFESSOR

चित्रकला विभाग / Deptt. of Painting

कला-भवन / Kala Bhavana

विश्वभारती, शान्तिनिकेतन

isva-Bharati, Santiniketan

Internal Members from Patha Bhavana and Siksh Satra

1. *Rayada*

2. *Biswadiip Das*

विभागाध्यक्ष / HEAD
चित्रकला विभाग / Deptt. of Painting
कला-भवन / Kala Bhavana
विश्वभारती, शान्तिनिकेतन
isva-Bharati, Santiniketan

Syllabus

Pre-Degree Examination

Class – XI semester - I

Subject – Rabindra sangit(vocational)

Theory full marks-(10+3)=13

১. আকার মাত্রিক স্বরলিপি পদ্ধতির প্রথম চারটি নিয়মাবলী।
২. নিম্নলিখিত তালগুলির ঠেকাসহ বিবরণ এবং তালগুলির মধ্যে সাদৃশ্য ও বৈসাদৃশ্য আলোচনা :-
 - i. ঝম্পক
 - ii. অর্ধঝাঁপতাল
 - iii. দাদরা
 - iv. ষষ্ঠী
৩. কবিতার আকারে একটি রবীন্দ্র সংগীত মুখস্থ লেখার অভ্যাস (পূজা অথবা প্রকৃতি পর্যায়ের)
৪. গীতবিতানের বিভিন্ন পর্যায় সম্পর্কে ধারণা।

Practical (30+7)=37

১. যে সকল পর্যায়ের রবীন্দ্রসংগীত শিখতে হবে:-
 - i. পূজা
 - ii. বিচিত্র
 - iii. স্বদেশ
২. যে সকল তালের রবীন্দ্র সংগীত শিখতে হবে:-
 - i. ঝম্পক
 - ii. অর্ধঝাঁপতাল
 - iii. দাদরা
 - iv. ষষ্ঠী
৩. ক্লাসে শেখা তালগুলির হাতে তালি খালি দিয়ে বলার অভ্যাস করা।
৪. একটি ধ্রুপদাগের রবীন্দ্র সংগীত

Syllabus

Pre-Degree Examination

Class – XI semester - II

Subject – Rabindra sangit(vocational)

Theory Full Marks-(10+3)=13

১. আকার মাত্রিক স্বরলিপি পদ্ধতির নিয়মাবলী(পঞ্চম থেকে অষ্টম)।
২. নিম্নলিখিত তালগুলির ঠেকাসহ বিবরণ এবং তালগুলির মধ্যে সাদৃশ্য ও বৈসাদৃশ্য আলোচনা :-
 - i. তেওড়া
 - ii. কাহারবা
 - iii. রূপকড়া
 - iv. নবতাল
৩. কবিতার আকারে একটি রবীন্দ্র সংগীত মুখস্ত লেখার অভ্যাস (স্বদেশ ও বিচিত্র পর্যায়ের)
৪. রবীন্দ্রসংগীতে কীর্তনের প্রভাব।

Practical (30+7)=37

১. যে সকল পর্যায়ের রবীন্দ্রসংগীত শিখতে হবে:-
 - i. প্রকৃতি
 - ii. প্রেম
 - iii. আনুষ্ঠানিক
২. যে সকল তালের রবীন্দ্রসংগীত শিখতে হবে:-
 - i. তেওড়া
 - ii. কাহারবা
 - iii. রূপকড়া
 - iv. নবতাল
৩. ক্লাসে শেখা তালগুলির হাতে তালি খালি দিয়ে বলার অভ্যাস করা।
৪. একটি কীর্তনঙ্গের রবীন্দ্রসংগীত।

Syllabus

Pre-Degree Examination

Class – XII semester - I

Subject – Rabindra sangit(vocational)

Theory Full Marks:-(10+3)=13

- ১.আকার মাত্রিক স্বরলিপি পদ্ধতির নিয়মাবলী(নবম থেকে দ্বাদশ)।
- ২.নিম্নলিখিত তালগুলির ঠেকাসহ বিবরণ এবং তালগুলির মধ্যে সাদৃশ্য ও বৈসাদৃশ্য আলোচনা :-
 - i. একাদশী
 - ii. নবপঞ্চ
 - iii. ত্রিমাত্রিক একতাল
 - iv. চৌতাল
৩. ক্লাসে শেখা যেকোনো একটি রবীন্দ্রসঙ্গীতের স্থায়ী অংশের স্বরলিপি মুখস্ত লিখতে হবে।
৪. রবীন্দ্রনাথের বাল্যজীবনে সংগীতের প্রভাব।

Practical (30+7)=37

১. প্রত্যেকটি পর্যায়ের একটি করে রবীন্দ্রসংগীত শিখতে হবে।
২. যে সকল তালের রবীন্দ্রসংগীত শিখতে হবে:-
 - i. একাদশী
 - ii. নবপঞ্চ
 - iii. ত্রিমাত্রিক একতাল
 - iv. চৌতাল
৩. ক্লাসে শেখা তালগুলির হাতে তালি খালি দিয়ে বলার অভ্যাস করা।
৪. একটি খেয়ালঙ্গের রবীন্দ্রসংগীত।

Syllabus

Pre-Degree Examination

Class – XII semester - II

Subject – Rabindra sangit(vocational)

Theory Full Marks:- (10+3)=13

১. আকার মাত্রিক স্বরলিপি পদ্ধতির যে-কোনো আট(৮)টি নিয়মাবলী।
২. নিম্নলিখিত তালগুলির ঠেকাসহ বিবরণ এবং তালগুলির মধ্যে সাদৃশ্য ও বৈসাদৃশ্য আলোচনা :-
 - i. ঝাঁপতাল
 - ii. সুরাফাঁক তাল
 - iii. ত্রিতাল
 - iv. ধামার তাল
৩. শান্তিনিকেতন ও শ্রীনিকেতনে অনুষ্ঠিত বিভিন্ন উৎসব-অনুষ্ঠান সম্বন্ধে সংক্ষিপ্ত ধারণা (হলকর্ষণ, বৃক্ষরোপণ, শিল্পোৎসব, বসন্ত উৎসব)।
৪. ক্লাসে শেখা যেকোনো একটি রবীন্দ্রসঙ্গীতের অন্তরা অংশের স্বরলিপি মুখস্থ লিখতে হবে।
৫. রবীন্দ্রসংগীতে বাউল গানের প্রভাব।

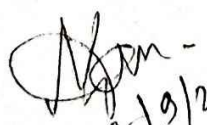
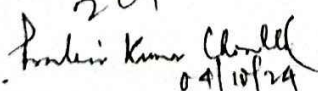
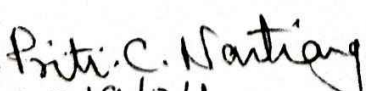
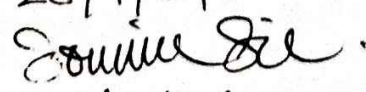
Practical (30+7)=37

১. প্রত্যেকটি পর্যায়ের একটি করে রবীন্দ্রসংগীত শিখতে হবে।
২. যে সকল তালের রবীন্দ্রসংগীত শিখতে হবে:-
 - i. ঝাঁপতাল
 - ii. সুরাফাঁক তাল
 - iii. ত্রিতাল
 - iv. ধামার তাল
৩. ক্লাসে শেখা তালগুলির হাতে তালি খালি দিয়ে বলার অভ্যাস করা।
৪. একটি বাউলাঙ্গের রবীন্দ্রসংগীত।

Meeting organized for subject –

SPINNING AND WEAVING (Vocational) for NEP on 09.08.2024

1. Nomenclature of the vocational subject of **SPINNING AND WEAVING (Vocational)** into **"TEXTILE WEAVING" (Vocational)**.
2. Syllabus has been modified.
3. Division of theory and practical has been divided into two semesters.
4. Marks have been divided into MCQ and descriptive as given below
5. Internal Marks is 20%
Theory for 1st semester – Full marks: 20
 - (i) [MCQ – 10 (8+2)]
 - (ii) [Descriptive: 10 (8+2)]**Theory for 2nd semester** – Full marks: 20
 - (i) [MCQ – 10 (8+2)]
 - (ii) [Descriptive: 10 (8+2)]
6. Marks have been divided for **PRACTICAL** as given below
 - (i) 1st Semester [Practical – 30 (24+6)]
 - (ii) 2nd Semester [Practical – 30 (24+6)]
7. Sample of question paper has been made.

1.  (EXTERNAL MEMBER)
28/9/24
2.  HEAD OF DEPARTMENT
04/10/24
SILPA-SADANA
3.  (PATHA BHAVANA)
28/9/24.
4.  (SIKHA CHATRA)
04/10/24.

Textile Weaving (Vocational) Theory Syllabus for class XI

Full Marks: 40 (32+8)

[External:32 Internal:08]

1. Brief introduction of Textile Fibres and its classifications.
2. Properties of natural fibres like
 - (i) Cotton,
 - (ii) Jute,
 - (iii) Wool,
 - (iv) Silk.
3. Types of basic looms & their functions –
 - (i) Hobby looms, Back strap loom
4. Types of handlooms & their functions
 - (i) Primitive loom
 - (ii) Pit loom
 - (iii) Frame loom
5. Basic knowledge on count of yarns.
6. Basic weaves;
 - (i) Plain,
 - (ii) Twill,
 - (iii) Satin.
7. Graphical representation of fabric structure and drafting, lifting plan.

Practical

Full marks: 60 (External: 48 Internal: 12)
(for first and second semester) 30 (External: 24 Internal: 6)

1. Warping, drafting, denting, lifting and weaving.
2. Weaving of Plain, Twill and Satin.
3. Products (Muffler, Table mats, Cushion cover, Bag etc.)

① *[Signature]* 28/9/24 (External Member)

② *[Signature]* 04/10/24 Head of Department
Silpa Sadana.

③ *[Signature]* 28/9/24 (Patha Bhavana)

④ *[Signature]* 04/10/24 (Sikha Chitra)

Syllabus of Textile Weaving (Vocational)

[Full marks: 20]

MCQ- 10(8+2)

Descriptive- 10 (External: 8 Internal: 2)

Theory (under NEP Curriculum)

1st Semester

1. Brief introduction of Textile Fibres and its classifications.
2. Properties of natural fibres like;
 - (i) Cotton,
 - (ii) Jute,
 - (iii) Wool,
 - (iv) Silk.
3. Types of basic looms & their functions-
 - (i) Hobby looms, back strap loom
4. Types of handlooms & their working
 - (i) Primitive loom
 - (ii) Pit loom
 - (iii) Frame loom

Reference:

Tant-O-Rang by Trailokyanath Basu

① *Aman* 28/9/24 (External Member)

② *Prabir Kumar Choudhary* 04/10/24 (Head of Department)
Silpa-Sedana.

③ *Priti C. Nanthang* (Patna Bhavana)
28/9/24

④ *Soumitra S.* 04/10/24 (Sikha Chakra)

Syllabus of Textile Weaving (Vocational)

[Full marks: 20]

MCQ- 10(8+2)

Descriptive- 10 (External: 8 Internal: 2)

Theory (under NEP Curriculum)

2nd Semester

1. Basic knowledge on count of yarns.
2. Basic weaves;
(i) Plain,
(ii) Twill,
(iii) Satin.
3. Graphical representation of fabric structure and denting, drafting, lifting plan.

Reference:

Tant-O-Rang by Trailokyanath Basu

- ① ~~AAm~~ 28/9/24 (External member)
- ② Lalit Kumar Choudhary 09/10/24 (Head of Department)
Sikha - Sikha
- ③ Priti - C. Naitiang 28/9/24 (Patha Bhavana)
- ④ Soumi Sre 09/10/24 (Sikha chakra)

সেমিস্টার ১

১০০ উত্তরটি বেছে নিয়ে লেখ

১০×১=১০

- ক) ভিসকোজ (VISCOSE) হল- (১) কৃত্রিম তন্তু (২) প্রাণীজ তন্তু (৩) উদ্ভিজ্জ তন্তু
খ) কুমিল্লা কটন হল (১) ভারতবর্ষের (২) বাংলাদেশের (৩) ইন্দোনেশিয়ার
গ) রেশম কোন শব্দ (১) চৈনিক (২) ফরাসি (৩) রোমান
ঘ) কার্পাস এক ধরনের (১) বৃক্ষ তন্তু (২) বীজ তন্তু (৩) প্রাণীজ তন্তু
ঙ) শানার নম্বর কিভাবে প্রকাশ করা হয়- (১) 40^m (২) 40° (৩) 40'
চ) কাপড় বোনার জন্য কমপক্ষে কয়টি ঝাঁপের প্রয়োজন হয়- (১) ১টি (২) ২টি (৩) ৪টি
ছ) 'ব' বাদ দিয়ে শানার সহিত হিন্ডের সমসূত্র বজায় রাখাকে বলে- (১) SKIPPING (২) ARRANGE (৩) WEAVING
জ) সর্বপ্রথম জুটমিল তৈরী হয় কত সালে (১) ১৮৩২ (২) ১৮৩০ (৩) ১৮৭০
ঝ) কৃত্রিম তন্তু বা মনুষ্য নির্মিত তন্তু হল (১) কার্পাস (২) নাইলন (৩) বীজ তন্তু
ঞ) কোনটি তাঁতের সাথে যুক্ত নয় (১) শানা (২) মাকু (৩) রং

২) প্রশ্নগুলির সংক্ষিপ্ত উত্তর দাও। (যে কোন ২টি)

২×২=৪

- ক) টানা দেওয়ার সময় লিজ রড (LEASE) রাখা হয় কেন?
খ) টানার সুতো ছেঁড়ার ৪টি কারণ লেখ।
গ) তাঁত কি কাজে ব্যবহার করা হয় এবং ৩ ধরনের তাঁতের নাম লেখ।
ঘ) শানা কাকে বলে এবং ইহার ব্যবহার সম্পর্কে দু-চার কথা লেখ।

৩)

(ক) তোমার জানা যে কোন একটি তাঁত সম্পর্কে বিস্তারিত আলোচনা কর।

৩

খ) যেকোন একটি বিষয়ে টীকা লেখ।

৩×১=৩

(১) উদ্ভিজ্জ তন্তু (২) প্রিমিটিভ লুম (৩) 'ব' গাঁথা (৪) রেশম

③ Priti C. Nontiang
28/9/24

① Mr. A. K. M. A. K.
28/9/24

② Lohir Kumar Choudhary
04/10/24
(Head of Department)
Silpa Sadana

④ Sumeet K. C. 04/10/24

(External member)

155/169/2024-25
a2-c - 24/9/24

Date: 24/09/2024

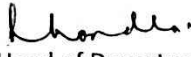
To,
The Principal,
Patha-Bhavana,
Visva-Bharati,
Santiketan

Subject: Nomenclature of Vocational Subject in Pre-degree course

Dear Madam,

In reference to the above cited subject, the undersigned is in the opinion that, the nomenclature of the subject Spinning and Weaving should be changed to TEXTILE WEAVING.

Regards,


Head of Department 24/09/24,
Silpa-Sadana, PSV
Sriniketan

प्रधान / Head
शिल्प-सदन / Silpa-Sadana
विश्वभारती / Visva-Bharati
श्रीनिकेतन / Sriniketan

दिनांक: 24/09/2024

सेवा में,
प्रधानाचार्य,
पाठ-भवन,
विश्व-भारती,
शांतिनिकेतन

विषय: पूर्व-डिग्री पाठ्यक्रम में व्यावसायिक विषय के नामकरण के संबंध में

महोदया,

उपरोक्त विषय के संदर्भ में, हस्ताक्षरकर्ता का यह मत है कि स्पिनिंग और वीविंग विषय का नाम बदलकर टेक्सटाइल वीविंग किया जाना चाहिए।

धन्यवाद,
प्रवीर कुमार चौधरी
विभागाध्यक्ष

शिल्प-सदन, पीएसवी
श्रीनिकेतन

प्रधान / Head
शिल्प-सदन / Silpa-Sadana
विश्वभारती / Visva-Bharati
श्रीनिकेतन / Sriniketan

✓
PCW
24/9/24

PRE – DEGREE EXAMINATION

VISVA – BHARATI

SUBJECT - SURVEY TRAINING (VOCATIONAL)

SYLLABUS FOR CLASS - XI
(As per NCERT Guidelines for NEP – 2020)

Chandran K. S.
Tripti Ghosh
Pranjan 08/11/25

विभागाध्यक्ष / Head
भूगोल विभाग
Department of Geography
विश्वभारती
Visva-Bharati
शान्तिनिकेतन-731235
Santiniketan-731235

CLASS XI (Semester I)
Learning Objectives

This course is designed for the student to form a preliminary idea as to how to prepare a map or design a plan by using different survey instruments.

Surveying is the art of representing the relative positions of various objects in the field correctly on a map or a plan. Its primary object is the preparation of a map or a plan. The position of various objects on the earth's surface includes linear and angular measurements and the determination of the relative level or heights.

A surveyor will use different Survey instruments according to the purpose of survey.

The result of the survey is plotted on a paper to a certain scale which is called a plan if the scale is large and map if the scale is small. A plan usually relates to Engineering design, where as the map is generally concerned with Geographical concept.

Develop the competence to analyse, evaluate, interpret and apply the acquired knowledge to understand man-environment relationship and all environmental issues effectively.

CLASS XI (Semester I)
Learning Outcomes

After completion of the course the students will be able to prepare a map or a plan as well as they will get a firsthand knowledge to handle the different Survey instruments which will be helpful to them for higher studies in Geography and Civil Engineering.

M. Pravin
Chandana K. S.
Dr. Jyoti Jyoti

विभागाध्यक्ष / Head
भूगोल विभाग
Department of Geography
विश्वभारती
Visva-Bharati
शान्तिनिकेतन-731235
Santiniketan-731235

CLASS – XI
SEMESTER – I

COURSE CONTENT

Chapter No.	Chapter Name
1	Introduction of Survey

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Department of Geography
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Visva-Bharati
मालिनीकेतन-731235
Santaliketan-731235

28/6/25
Daudan K. A.
Triplilghosh.

CLASS XI
Semester – I
Detailed Semester wise Syllabus

FULL MARKS – 50 [Theory – 13 (10+3) + Practical – 37 (30+7)]

TIME – 2 Hr.

Unit No	Unit Content – I Introduction	Periods
1.1	Definition & Object of Survey	05
1.2	Primary Division & Classification	06
1.3	Units of Measurement	04
1.4	Scales: Statement Scale; Representative Fraction; Linear Scale; Vernier Scale	20

TOTAL

Mangamth
Sanjay K. S.
Sanjay K. S.

विभागाध्यक्ष / Head
विभाग
Department of Geography
विश्वभारती
Visva-Bharati
शांतिनिकेतन-731235
Santiniketan-731235

Pre-Degree Examination
Survey Training (Vocational) Theory
First Semester

Time : 2 hours

Full Marks : 10

Questions are of value as indicated in the margin

Write short notes about any three :

2×3=6

যে কোন তিনটি সহজে টিকা লেখ।

a) What do you understand by surveying ?

(জরিপ পদ্ধতি বলতে কি বোঝ ?)

b) Geodetic Survey (বহুতল জরিপ পদ্ধতি)

c) Representative Fraction (ভগ্নাংশ স্কেল)

d) Disadvantages of Statement Scale (বিবৃতিমূলক স্কেলের অসুবিধা বিবৃত কর)

e) Describe features of Vernier Scale (ভার্নিয়ার স্কেলের বৈশিষ্ট্য বর্ণনা কর)

2. Convert the following Statement Scale to R.F.

(নিম্নলিখিত বিবৃতিমূলক স্কেলটি R.F.-এ রূপান্তরিত কর)

Two inches to a mile. (দুই ইঞ্চিতে এক মাইল)

3. Describe the maps according to the Scale.

(স্কেল অনুযায়ী মানচিত্রের বর্ণনা দাও)

Signature / Head
কৃষ্ণেন্দ্র বিশ্বাস
Department of Geography
বিশ্ববিদ্যালয়
Mava-Sharadi
ফোন: ৩৩৩৩৩৩
Santipur-731235

Yipti lyhash.

CLASS XI (Semester I)
Theory Question Pattern

Sl. No	Types of Question	Marks
1.	Two Question of 3 Marks	$3 * 2 = 6$
2.	One Question of 2 Marks	$2 * 1 = 2$
3.	One Question of 2 Marks	$2 * 1 = 2$

TOTAL - 10

Reference Book : Snatak Byabaharik Bhugol (Hons.)
By Dulal Das & Dr. Judhistir Hazra

Manjima Das
Chandru K. K.
Tripti Ghosh

विभागाध्यक्ष / Head
भूगोल विभाग
Department of Geography
विश्वभारती
Visva-Bharati
शांतिनिकेतन-731235
Santiniketan-731235

CLASS XI (Semester II)
Learning Objectives

This course is designed for the student to form a preliminary idea as to how to prepare a map or design a plan by using different survey instruments.

Surveying is the art of representing the relative positions of various objects in the field correctly on a map or a plan. Its primary object is the preparation of a map or a plan. The position of various objects on the earth's surface includes linear and angular measurements and the determination of the relative level or heights.

A surveyor will use different Survey instruments according to the purpose of survey.

The result of the survey is plotted on a paper to a certain scale which is called a plan if the scale is large and map if the scale is small. A plan usually relates to Engineering design, where as the map is generally concerned with Geographical concept.

Develop the competence to analyse, evaluate, interpret and apply the acquired knowledge to understand man-environment relationship and all environmental issues effectively.

CLASS XI (Semester II)
Learning Outcomes

After completion of the course the students will be able to prepare a map or a plan as well as they will get a firsthand knowledge to handle the different Survey instruments which will be helpful to them for higher studies in Geography and Civil Engineering.

M. Pragna
Davidson K.
Tripti
26/11/25
Yash.
विभागाध्यक्ष / विभागाध्यक्ष
भूगोल विभाग
Department of Geography
विश्वभारती
Visva-Bharati
शान्तिनिकेतन-731235
Santiniketan-731235

CLASS – XI
SEMESTER – II

COURSE CONTENT

Chapter No.	Chapter Name
1	Prismatic Compass

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Department of Geography
विश्वभारती
Visva-Bharati
शान्तिनिकेतन-731235
Santiniketan-731235

[Signature]
26/11/15
Chandra K. S.
Dipti Ghosh

CLASS XI
Semester – II
Detailed Semester wise Syllabus

FULL MARKS – 50 [Theory – 13 (10+3) + Practical – 37 (30+7)]

TIME – 2 Hr.

Unit No.	Unit Content – I Prismatic Compass Traversing	Periods
1.1	Study of Prismatic Compass	05
1.2	Definition Regarding Compass Traversing	05
1.3	Calculating on Angles from Bearings	15
1.4	Plotting of Close Traverse	10

Total

विभागाध्यक्ष / Head
भूगोल विभाग
Department of Geography
संतति भारती
Visva-Bharati
Kolkata-731235
Santibharati-731235
Mangam
Chandra
Sripti Ghosh

Model Question

Pre-Degree Examination
Survey Training (Vocational) Theory
Second Semester

Time : 2 hours

Full Marks : 10

Questions are of value as indicated in the margin

1. Write short notes about any three :

2×3=6

যে কোন তিনটি সম্বন্ধে টীকা লেখ।

- Open Traverse and Closed Traverse (মুক্ত ও বদ্ধ ট্রাভার্স)
- Forward Bearing and Backward Bearing (সন্মুখ দিগ্ংশ ও পশ্চাৎ দিগ্ংশ)
- What are the sources of errors in Prismatic Compass Survey.
(প্রিজম্যাটিক কম্পাস জরিপের ভুলের উৎস কি কি ?)
- Describe whole circle bearing and reduced bearing.
(পূর্ণবৃত্তীয় দিগ্ংশ ও হ্রাসপ্রাপ্ত দিগ্ংশ বর্ণনা কর)

2. How to correct or adjust the error in bearings.

2

(কিভাবে দিগ্ংশের ভ্রম সংশোধন বা সমন্বয়সাধন করা হয়)।

3. Adjust the error of bearings from the table.

2

(নিম্নলিখিত সারণীর দিগ্ংশের ভ্রম সংশোধন কর)।

Line রেখা	Distance (m) দূরত্ব (মিঃ)	Observed Bearings নিরীক্ষিত দিগ্ংশ	
		Fore সন্মুখ	Back পশ্চাৎ
PQ	9 m	181°	1°30'
QR	13 m	72°45'	254°45'
RP	10.5 m	328°30'	149°

বিশ্বনাথপুর / Head
মুখ্য অধ্যাপক
Department of Geography
বিশ্বভারতী
Visva-Bharati
শান্তিনিকেতন-731235
Santiniketan-731235

Handwritten signatures and marks:
Chandran
Sripti Ghosh

CLASS XI (Semester II)
Theory Question Pattern

Sl. No	Types of Question	Marks
1.	Two Question of 3 Marks	$3 * 2 = 6$
2.	One Question of 2 Marks	$2 * 1 = 2$
3.	One Question of 2 Marks	$2 * 1 = 2$

TOTAL - 10

विभागाध्यक्ष / Head
भूगोल विभाग
Department of Geography
विश्वभारती
Visva-Bharati
शान्तिनिकेतन-731235
Santiniketan-731235

Pradyumn
02/4/23
Chandran R. X
Jyoti Ghosh.

Reference Book : Snatak Byabaharik Bhugol (Hons.)
By Dulal Das & Dr. Judhistir Hazra

PRE – DEGREE EXAMINATION

VISVA – BHARATI

SUBJECT - SURVEY TRAINING (VOCATIONAL)

SYLLABUS FOR CLASS - XII
(As per NCERT Guidelines for NEP – 2020)

विभागाध्यक्ष / Head
भूगोल विभाग
Department of Geography
विश्वभारती
Visva-Bharati
शान्तिनिकेतन-731235
Santiniketan-731235

[Signature]
08/11/25
Santanu K. S.
Tripti Ghosh.

CLASS XII (Semester I)
Learning Objectives

This course is designed for the student to form a preliminary idea as to how to prepare a map or design a plan by using different survey instruments.

Surveying is the art of representing the relative positions of various objects in the field correctly on a map or a plan. Its primary object is the preparation of a map or a plan. The position of various objects on the earth's surface includes linear and angular measurements and the determination of the relative level or heights.

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The result of the survey is plotted on a paper to a certain scale which is called a plan if the scale is large and map if the scale is small. A plan usually relates to Engineering design, where as the map is generally concerned with Geographical concept.

Develop the competence to analyse, evaluate, interpret and apply the acquired knowledge to understand man-environment relationship and all environmental issues effectively.

CLASS XII (Semester III)
Learning Outcomes

After completion of the course the students will be able to prepare a map or a plan as well as they will get a firsthand knowledge to handle the different Survey instruments which will be helpful to them for higher studies in Geography and Civil Engineering.

विभागाध्यक्ष / Head
भूगोल विभाग
Department of Geography
विश्वभारती
Visva-Bharati
शान्तिनिकेतन-731235
Santiniketan-731235

28/4/15
Sanatan K. X
Tripti Ghosh.

CLASS – XII
SEMESTER – I

COURSE CONTENT

Chapter No.	Chapter Name
1	Levelling Survey
2	Plane Table Survey

विभागाध्यक्ष / Head
भूगोल विभाग
Department of Geography
विश्वभारती
Visva-Bharati
शान्तिनिकेतन-731235
Santiniketan-731235

Manish Kumar
Head of the Department
Dr. Manish Kumar
Dr. Manish Kumar

CLASS XII
Semester – I
Detailed Semester wise Syllabus

FULL MARKS – 50 [Theory – 13 (10+3) + Practical – 37 (30+7)]

Theory

TIME – 2 Hrs

Unit No	Unit Content – I Levelling Survey	Periods
1.1	Definition and terms used in levelling study of a Dumpy Level.	3
1.2	Principles of levelling	3
1.3	Differential of levelling.	3
1.4	Reduction of level.	8
1.5	Profile drawing.	8

Unit No.	Unit Content – II Plane Table Survey	Periods
2.1	Study of the Instrument	02
2.2	Method of Survey	04
2.3	Plotting Using Intersection Method	04

TOTAL - 35

विभागाध्यक्ष / Head
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Department of Geography
विश्वभारती
Visva-Bharati
शान्तिनिकेतन-731235
Santiniketan-731235

Mangam. Chatterjee
28/4/23
Santanu K.
Tripti Ghosh.

Model Question

Pre-Degree Examination
Survey Training (Vocational) Theory
First Semester

Time : 2 hours

Full Marks : 10

Questions are of value as indicated in the margin

1. Write short notes about any three :

2×3=6

যে কোন তিনটি সম্বন্ধে টীকা লেখ।

- Levelling Staff (লেভেলিং স্টাফ)
- Datum Plane (ডেটাম তল)
- Collimation Line (কলিমেশন রেখা)
- Bench Mark (বেঞ্চ মার্ক)
- Back sight and Fore sight (পশ্চাৎ দৃষ্টি ও সম্মুখ দৃষ্টি)

2. Describe the equipments used in Plane Table Survey.

(প্লেন টেবিল জরিপে ব্যবহৃত সরঞ্জামগুলির বর্ণনা দাও)

3. Describe Levelling by Collimation Method.

(কলিমেশন পদ্ধতিতে লেভেলিং বিবৃত কর)

Maryam
Chandam K.
Tripti Ghosh

মুখ্য অধ্যাপক / Head
Department of Geography
বিহব ভারতী
Visva-Bharati
শান্তিনিকেতন-৭৩১২৩৫
Santiniketan-731235

2

2

CLASS XII (Semester I)
Theory Question Pattern

Sl. No	Types of Question	Marks
1.	Two Question of 3 Marks	3 * 2 = 6
2.	One Question of 2 Marks	2 * 1 = 2
3.	One Question of 2 Marks	2 * 1 = 2

TOTAL - 10

Reference Book : Snatak Byabaharik Bhugol (Hons.)
By Dulal Das & Dr. Judhistir Hazra

विभागाध्यक्ष / Head
भूगोल विभाग
Department of Geography
विश्वभारती
Visva-Bharati
शान्तिनिकेतन-731235
Santiniketan-731235

Maryam Das
28/4/24
Gandam Kr. A
Tripti Ghosh

CLASS XII (Semester II)
Learning Objectives

This course is designed for the student to form a preliminary idea as to how to prepare a map or design a plan by using different survey instruments.

Surveying is the art of representing the relative positions of various objects in the field correctly on a map or a plan. Its primary object is the preparation of a map or a plan. The position of various objects on the earth's surface includes linear and angular measurements and the determination of the relative level or heights.

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Develop the competence to analyse, evaluate, interpret and apply the acquired knowledge to understand man-environment relationship and all environmental issues effectively.

CLASS XII (Semester IV)
Learning Outcomes

After completion of the course the students will be able to prepare a map or a plan as well as they will get a firsthand knowledge to handle the different Survey instruments which will be helpful to them for higher studies in Geography and Civil Engineering.

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शांतिनिकेतन-731235
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[Handwritten signature]
Sripti Ghosh.

CLASS – XII
SEMESTER – II

COURSE CONTENT

Chapter No.	Chapter Name
1	Theodolite Survey

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Maryam
22/4/25
Chandana Sr. D.
Tripti. ghorh.

CLASS XII
Semester – II

Detailed Semester wise Syllabus

FULL MARKS – 50 [Theory – 13 (10+3) + Practical – 37 (30+7)]

Theory

TIME – 2 Hrs

Unit No.	Unit Content – I Theodolite Survey	Periods
1.1	Definition and terms used in Theodolite Survey.	5
1.2	Identification of different parts of Theodolite.	5
1.3	Measurement of Vertical angle.	15
1.4	Determination of height of an object. (Base accessible).	10

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TOTAL - 35

(PS) 4/25
Shantanu K. A
Tripti Ghosh.

Model Question

Pre-Degree Examination
Survey Training (Vocational) Theory
SECOND Semester

Time : 2 hours

Full Marks : 10

Questions are of value as indicated in the margin

1. Write short notes about any three :

2×3=6

যে কোন তিনটি সম্বন্ধে টীকা লেখ।

a) Transit Theodolite (ট্রানজিট থিওডোলাইট)

b) Diaphragm of Theodolite (থিওডোলাইটের ডায়াফ্রাম)

c) Stadia wire (স্টেডিয়া রেখা)

d) Function of Transit Theodolite (ট্রানজিট থিওডোলাইটের কার্যকারিতা)

2. How to determine distance between observing station and object with the help of Theodolite

2

(থিওডোলাইটের সাহায্যে পর্যবেক্ষণ স্টেশন ও নির্ণায়ক বস্তুর মধ্যে কিভাবে দূরত্ব নিরূপণ করা যায়)।

3. What do you mean by Face Left and Face Right.

2

(ডান সম্মুখ ও বাম সম্মুখ বলতে কি বোঝায়)

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Visva-Bharati
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Santiniketan-731235

Chandan K.
Tripti Ghosh.

CLASS XII (Semester II)
Theory Question Pattern

Sl. No	Types of Question	Marks
1.	Two Question of 3 Marks	$3 * 2 = 6$
2.	One Question of 2 Marks	$2 * 1 = 2$
3.	One Question of 2 Marks	$2 * 1 = 2$

TOTAL - 10

Reference Book : Snatak Byabaharik Bhugol (Hons.)
By Dulal Das & Dr. Jyotirmir Hazra

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Santati-Bharat-731225

Manoj Kumar
29/4/25
Gandam K. K.
Jyoti. Jyoti.

Second Semester
TABLA (Vocational)
CLASS - XI

THEORY

Time: 1 Hour

Full Marks: 16+4
= 20

1. Knowledge of writing notations ⁱⁿ dwigun layakaris:

Dadra, Kaharwa, Teora, Choutal.

2. Definition of the following Terms:
Theka, Kaida, Palta, Theha, Tukda

3. Life history of the following Exponents:

(a) Ustad Ahmad Zari Ther^aKua

(b) Ustad Marif Khan.

(c) Pandit Samta Prasad.

(d) Pandit Karthe Maharaj

PRACTICAL

Full Marks: 24+6

1. Knowledge of the following Talas with ^{thekas} = 30
Their ~~thekas~~: Teora, ~~TEK~~tal and Choutal.

2. Two Tukda and Two Kaida in Trital.

3. One Kaida and one Tukda in Jhamptal.

S. S. S. S.
24/09/2024

निदेशक / Head
हिन्दुस्तानी शास्त्रीय संगीत विभाग
Deptt. of Hindustani Classical Music
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Sangit-Bhavana, Visva-Bharati, Santiniketan

Deborah Das
24.9.2024

(i) Sahadev Karma Kar (patha Bhavang)
24.09.24

(ii) Asit Ghosh (siksa-satra)
24.09.2024

First Semester
TABLA (vocational)
CLASS - XI

THEORY

Time - 1 Hour

Full Marks: 16+4

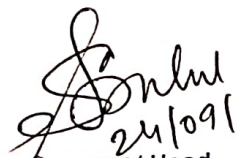
1. Description of Tabla and Banya and name of their Different Parts. = 20
2. Definition of the following terms:
Tala, Laya, Matra, Sam, Khali, ~~Theka~~ Kaida,
~~Palta~~, ~~Tekai~~, ~~Takna~~,
3. Notation of the following Talas:
Trital, Jhampal, Dadra, Kharwa, Teora,
Chotal.

Full Marks: 24+6=30

PRACTICAL

1. Production of different sounds, Yani or Bols on Tabla and Banya. Making different combination and knowledge of names of the respective sounds.
2. Knowledge of the following Talas with their Theka:
Trital, Jhampal, Dadra, Kharwa

3. ~~For~~


24/09/2024
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Sangit-Bhavana, Visva-Bharati, Santiniketan

Debasis Das
24.9.2024

① Sahadev Karma (Siksha-Satra Bhavana)
24.09.24

② Asit Ghosh (Siksha-Satra) 24.09.2024