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VIVEKANANDA MAHAVIDYALAYA, BURDWAN

(GOVT. SPONSORED) □ ESTD-1964

P.O- Sripally ★ Dist- Purba Bardhaman ★ Pin-713103 ★ W.B

NAAC Re-Accredited (2nd cycle, B+ with PG in Chemistry)

No.....

/V.M.

Date :

From : Principal / Teacher-in-Charge & Secretary

Institution integrates crosscutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum **Criteria-1.3**

Department of Bengali

HONOURS

SEM-V- CC-12-(PRABANDHA)

GENDER ISSUES:

1. Paribarik Nari Samasya - Annadasankar Roy.

HUMAN VALUES:

1. Loko Siksha- Bankim Chandra Chattapadhyay
2. Sothprosongo - Mir Mossarrof Hossain

SEM- IV-CC-8-(Adhunik Kobita)

HUMAN VALUES:

1. Manus- Kazi Nazrul Islam
2. Kolkatar Jishu- Nirendranath Chakraborty

SEM-III-CC-7-(UnishSataker kabyo)

Gender Issues:

1. Beerangana Kabyo - Michel Madhusudhan Dutta

GENERAL

SEM-II-CC- IB-(Galpo: Pravat Kumar OSaratchandra Chattapadhyay)

- 1- Mandir ,Mahesh- Saratchandra Chattyopadhyay

AECC-II: Communicative English/MIL

Gender issues - Strijatir Abonoti - Begam Rokeya

HUMAN VALUES :

1. Swadeshisomaj -Rabindranath Thakur.
2. Boipora- Pramatha Chowdhury.

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From : Principal / Teacher-in-Charge & Secretary

Department of Botany

HONOURS

SEM-III-SEC-1-(Ethnobotany)

Unit 1: Ethnobotany :

Introduction, concept, scope and objectives; Ethnobotany as an interdisciplinary science. The relevance of ethnobotany in the present context; Major and minor ethnic groups or Tribals of India, and their life styles. Plants used by the tribals: a) Food plants b) intoxicants and beverages c) Resins and oils and miscellaneous uses.

Unit 2: Methodology of Ethnobotanical studies a) Field work b) Herbarium c) Ancient Literature d) Archaeological findings e) Sacred groves.

Unit 3: Role of ethnobotany in modern Medicine Medico-ethnobotanical sources in India; Significance of the following plants in ethno botanical practices (along with their habitat and morphology) a) *Azadirachta indica* b) *Ocimum sanctum* c) *Vitex negundo*. d) *Gloriosa superba*. Role of ethnobotany in modern medicine with special example *Rauvolfia serpentina*, *Trichopus zeylanicus*, *Artemisia*, *Withania*. Role of ethnic groups in conservation of plant genetic resources. Endangered taxa and forest management (participatory forest management).

Unit 4: Ethnobotany and legal aspects Ethnobotany as a tool to protect interests of ethnic groups. Sharing of wealth concept with few examples from India. Biopiracy, Intellectual Property Rights and Traditional Knowledge.

SEM-IV-SEC2-(Plant diversity & human welfare)

Unit 1: Plant diversity and its scope- Genetic diversity, Species diversity, Plant diversity at the ecosystem level, Agrobiodiversity and cultivated plant taxa, wild taxa. Values and uses of Biodiversity: Ethical and aesthetic values, Precautionary principle, Methodologies for valuation, Uses of plants, Uses of microbes.

Unit 2: Loss of Biodiversity: Loss of genetic diversity, Loss of species diversity, Loss of ecosystem diversity, Loss of agrobiodiversity, Projected scenario for biodiversity loss, Management of Plant Biodiversity: Organizations associated with biodiversity management Methodology for execution-IUCN, UNEP, UNESCO,

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WWF, NBPGR; Biodiversity legislation and conservations, Biodiversity information management and communication.

Unit 3: Conservation of Biodiversity: Conservation of genetic diversity, species diversity and ecosystem diversity, in-situ and ex-situ conservation, Social approaches to conservation, Biodiversity awareness programmes, Sustainable development.

Unit 4: Role of plants in relation to Human Welfare; a) Importance of forestry their utilization and commercial aspects b) Avenue trees, c) Ornamental plants of India. d) Alcoholic beverages through ages. Fruits and nuts: Important fruit crops their commercial importance. Wood and its uses.

GENERAL

SEM-V-SEC3-(Plant diversity & human welfare)

Unit 1: Plant diversity and its scope- Genetic diversity, Species diversity, Plant diversity at the ecosystem level, Agrobiodiversity and cultivated plant taxa, wild taxa. Values and uses of Biodiversity: Ethical and aesthetic values, Precautionary principle, Methodologies for valuation, Uses of plants, Uses of microbes.

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SEM-VI-SEC4-(Ethnobotany)

Unit 1: Ethnobotany:

Introduction, concept, scope and objectives; Ethnobotany as an interdisciplinary science. The relevance of ethnobotany in the present context; Major and minor ethnic groups or Tribals of India, and their life styles.

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Department of Chemistry

HONOURS

SEM-VI-DSE-3-(Green chemistry in sustainable development)

Designing greener processes: Prevention of waste/ by-products; maximum incorporation of the materials used in the process into the final products, Atom Economy, calculation of atom economy of the rearrangement, addition, substitution and elimination reactions.

Green solvents— supercritical carbon dioxide, water as green solvent, ionic liquids, fluorous biphasic solvent, PEG, solventless processes, immobilized solvents.

Use of microwaves and ultrasonic energy in green processes.

Selection of starting materials; avoidance of unnecessary derivatization – careful use of blocking/ protecting groups.

Development of green analytical techniques to prevent and minimize the generation of hazardous substances in chemical processes.

GENERAL

SEM-IV- GE-4/CC-1D–(Environmental Chemistry)

The Atmosphere: composition and structure of the atmosphere; troposphere, stratosphere, mesosphere and thermosphere; ozone layer and its role; major air pollutants: CO, SO₂, NO_x and particulate matters – their origin and harmful effects; problem of ozone layer depletion; green house effect; acid rain and photochemical smog; air pollution episodes: air quality standard; air pollution control measures: cyclone collector, electrostatic precipitator, catalytic converter.

The Hydrosphere: environmental role of water, natural water sources, water treatment for industrial, domestic and laboratory uses; water pollutants; action of soaps and detergents, phosphates, industrial effluents, agricultural runoff, domestic wastes; thermal pollution, radioactive pollution and their effects on animal and plant life; water pollution episodes: water pollution control measures : waste water treatment; chemical treatment and microbial treatment; water quality standards: DO, BOD, COD, TDS and hardness parameters; desalination of sea water : reverse osmosis, electrodialysis.

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Department of Economics

HONOURS

SEM-III- SEC 1-(Insurance Market & Products Or Managerial Economics)

Evolution of Insurance:

Meaning of Insurance; Nature, Functions, History of Insurance; Different Classifications: Comparison of Life Insurance with other Insurances, Health insurance, Postal Life Insurance, Credit Insurance, Marine Insurance; Insurance organizations in India; Impact of privatization on insurance product diversification; IRDA Act, 1999, The Insurance (Amendment) Act, 2002.

Basic Principles of Insurance:

Key concepts, Economic Principles, Principles of insurance viz. Utmost good faith, Insurable interest, Indemnity, Subrogation, Contribution and Proximity Cause. Methods of reinsurance: shopping reinsurance, facultative reinsurance, automatic or treaty reinsurance.

Claim management in insurance:

Significance of claims settlement, Claims under various classes of insurance, Disputes, Arbitration and Litigation, Trends in claims.

SEM-VI- DSE 4-(Entrepreneurship Development)

Evolution of the concept of Entrepreneur

Basic features - Entrepreneurship and economic development - Growth of entrepreneurship in India—Role of Entrepreneurship in Economic Development, Problem of Rural entrepreneurship in India

Entrepreneurship motivation

Motivation theories, Maslow's need Hierarchy Theory, McClelland Acquired Needs Theory, Kakinada Experiment

Project identification and selection

Meaning of project- project report--- planning commission's guidelines for formulating a project report

Financial resources for new ventures

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From : Principal / Teacher-in-Charge & Secretary

Sources of finance---capital structure - institutional support to enterprises—national small industries board – state small industries development corporation--- district industries center--- industrial estates

Growth strategies in small business

Stages of growth, Types of growth strategies, Expansion, Diversification, Joint Venture, Merger, Subcontracting 6. Sickness in Small Business (10 lectures) Concept of industrial sickness, Symptoms of sickness, Causes and consequences of industrial sickness

GENERAL

SEM-IV-SEC 2-(Entrepreneurship Development)

Evolution of the concept of Entrepreneur

Basic features - Entrepreneurship and economic development - Growth of entrepreneurship in India—Role of Entrepreneurship in Economic Development, Problem of Rural entrepreneurship in India

Entrepreneurship motivation

Motivation theories, Maslow's need Hierarchy Theory, McClelland Acquired Needs Theory, Kakinada Experiment

Project identification and selection

Meaning of project- project report--- planning commission's guidelines for formulating a project report

Financial resources for new ventures

Sources of finance---capital structure - institutional support to enterprises—national small industries board – state small industries development corporation--- district industries center--- industrial estates

Growth strategies in small business

Stages of growth, Types of growth strategies, Expansion, Diversification, Joint Venture, Merger, Subcontracting

Sickness in Small Business

Concept of industrial sickness, Symptoms of sickness, Causes and consequences of industrial sickness

SEM-V- SEC 3-(Insurance Market & Products)

Evolution of Insurance:

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Meaning of Insurance; Nature, Functions, Different Classifications: Comparison of Life Insurance with other Insurances, Health insurance, Postal Life Insurance, Credit Insurance, Marine Insurance; Insurance organizations in India; Impact of privatization on insurance product diversification; IRDA Act, 1999, The Insurance (Amendment) Act, 2002.

Basic Principles of Insurance:

Key concepts, Economic Principles, Principles of insurance viz. Utmost good faith, Insurable interest, Indemnity, Subrogation, Contribution and Proximity Cause. Methods of reinsurance: shopping reinsurance, facultative reinsurance, automatic or treaty reinsurance.

Claim management in insurance:

Significance of claims settlement, Claims under various classes of insurance, Disputes, Arbitration and Litigation, Trends in claims.

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Date :

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Department of English

HONOURS

SEM-V-CCXI- (Women's Writing)

Section A

1. a) Emily Dickinson: 'I cannot live with you', 'I'm wife; I've finished that' b) Sylvia Plath: 'Daddy' c) Eunice De Souza: 'Advice to Women', 'Bequest'.

2. Jean Rhys: Wide Sargasso Sea (ND)

Section B

3. a) Mary Wollstonecraft: A Vindication of the Rights of Woman (New York: Norton, 1988) chap. 1, pp. 11–19; chap. 2, pp. 19–38 (ND) b) Ramabai Ranade: 'A Testimony of our Inexhaustible Treasures', in Pandita Ramabai: Through Her Own Words: Selected Works, tr. Meera Kosambi (New Delhi: OUP, 2000) pp. 295–324 (ND) c) Rassundari Debi: Amar Jiban (Excerpts in Susie Tharu and K. Lalita, eds., Women's Writing in India, vol. 1 (New Delhi: OUP, 1989) pp. 191–2) (ND)

4. a) Charlotte Perkins Gilman: 'The Yellow Wallpaper' b) Katherine Mansfield: "Bliss" c) Mahasweta Devi: "Draupadi" (Tr. Gayatri Spivak, Seagull Publishers, Kolkata)

Topics The Confessional Mode in Women's Writing, Sexual Politics, Race, Caste and Gender, Social Reform and Women's Rights

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Environmental Studies

SEM1-AECC1- (Fundamentals of Environmental Studies)

Unit 1: Basic of Environmental Studies

Definition, Nature, Scope and Importance; Components of environment: Environmental education

Unit 2: Natural Resources: Renewable & Non-renewable Resources

Nature and natural resources their conservation and associated problems:

- Forest resources: Uses, types and importance, Joint Forest Management & Tribal population, Deforestation and its effects
 - Water resources: Distribution of water on Earth; Use, over exploitation of surface and groundwater; Dams: Benefits and problems; Flood and Drought
 - Mineral resources: Mineral resources in India; Use and exploitation, Social impacts of mining
 - Food resources: World food problems and food insecurities.
 - Energy resources: Renewable and Non-renewable energy sources; Use of alternate energy sources - Case studies
 - Land resources: Land as a resource; Land degradation, landslides, soil erosion, desertification
- Use of resources for sustainable development.

Unit 3: Ecology & Ecosystems

Concept of ecology, Population ecology, Community ecology

- Concept of an ecosystem, different types of ecosystem
- Food chains, food webs and ecological succession
- Energy flow in the ecosystem and energy flow models

Unit 4: Biodiversity & Conservation

- Biodiversity: Levels of biological diversity
- Values of biodiversity

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- Hot-Spots of biodiversity, Mega-biodiversity countries
- Threat to biodiversity
- Threatened and endemic species of India
- Conservation of biodiversity (*In-situ* and *Ex-situ*)
- Ecosystem services: Ecological, Economical, Social, Ethical, Aesthetical and Informational values.

Unit 5: Environmental Pollution & Management

(a) Nature, Causes, Effects and Control measures of –

- (i) Air pollution
- (ii) Water pollution
- (iii) Soil pollution
- (iv) Noise pollution
- (v) Nuclear hazards

(b) Fireworks Pollution: Definition, Composition/Ingredients, effects, monitoring strategies

- Solid waste management: Causes, effects and disposal methods; Management of biomedical and municipal solid wastes
- Disaster management: Floods, Earthquake, Cyclone and Landslides

Unit 6: Environmental Policies & Practices

- Constitutional Provisions for protecting environment- Articles 48(A), 51 A (g)
- Environmental Laws: The Environment (Protection) Act, 1986; The Air (Prevention and Control of Pollution) Act, 1981; The Water (Prevention and Control of Pollution) Act 1974; Forest (Conservation) Act, 1980
- The wildlife Protection Act, 1972
- Climate change, Global warming, ENSO, Acid rain, Ozone layer depletion; Montreal and Kyoto Protocols

Unit 7: Human Communities & Environment

- Human population growth; Impacts on environment

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- Population explosion – Family Welfare Programme
- Environment and human health: Concept of health and disease; Common communicable and Non-communicable diseases; Public awareness
- Environment movements in India: Chipko Movements, Silent Valley Movement, Movements in Karnataka

Unit 8: Field Work Report/Project Report/Term paper (based on any one of the following topics and to be evaluated by internal teachers only)

- Environmental assets - River/Forest/Grassland/Hill/Mountain *etc.*
- Environmental pollution - Urban/Rural/Industrial/Agricultural
- Study of common Plants/Insect /Birds/Wild life *etc.*
- Study of simple ecosystems: Pond/River/Hill slope *etc.*
- Municipal solid waste management and handling.

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Department of History

GENERAL

SEM-V- GE-1-(Women's Studies in India and Perspectives on Women's Rights in India)

- I. Definition of Human Rights Human Rights and Women, a survey of the Charter Interrogating Human Rights vis-à-vis personal laws in India UN Convention and indian Context
- II. II. Indian Constitution and Women's Rights Fundamental Rights and Women Directive Principles and Women Major legal cases defending women's rights vis-à-vis the Constitution
- III. III. Preventive Acts Minimum Wage Act 1948, Family Courts Act 1986, PNDT Act 1994, Latest measures
- IV. IV. Issues of Violence against Women and Remedial Measures Domestic Violence Act, Prevention of Sexual Harassment at Workplace Practical application and Problems, Remedial Measures
- V. V. Role of Non-Government Institutions Non-Government Organizations and Human Rights Women and Non-Government Organizations – Participations
- VI. VI. Present Status Issues of enabling and empowering modalities – Debate on uniform civil code

SEM-VI- GE-II-(Gender and Education in India)

- I. Historiographical Trends a. Pre-colonial historiographical trends in women's education b. colonial historiographical trends in women's education c. Post-colonial historiographical trends in women's education
- II. Education in Early and Medieval Times a. Women's Education in Medieval times b. Regional trends of Women's education in pre-colonial India c. Instances of women's education, obstacles
- III. Colonial Period a. Socio-religious reforms b. Role of Christian missionaries in spreading female education, recent debates c. Indigenous initiatives at women's education.
- IV. Role of Schools and Colleges in colonial and post-colonial period a. Girls School and Colleges, development towards co-education b. Expansion of infrastructural facilities in education c. Technical and vocational education for women
- V. Contours of female literacy since 1950 a. Interrogating literacy for women b. Government policies and Schemes c. Disparities in Literacy: Region, Community, Social and Eco-factors
- VI. Present Scenario a. Education as a tool of Empowerment

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Department of Microbiology

HONOURS

SEM-VI-DSE-4-(Bio-safety & Intellectual Property Rights)

Bio-safety: Introduction; bio-safety issues in biotechnology; Biological Safety Cabinets & their types; Primary Containment for Biohazards; Bio-safety Levels of Specific Microorganisms.

Introduction to Intellectual Property: Patents, Types, Trademarks, Copyright & Related Rights, Industrial Design and Rights, Traditional Knowledge, Geographical Indications- importance of IPR – patentable and non patentables – patenting life – legal protection of biotechnological inventions – World Intellectual Property Rights Organization (WIPO).

SEM-V-DSE-1 –(Microbes in Sustainable Agriculture)

Soil Microbiology

Soil as Microbial Habitat, Soil profile and properties, Soil formation, General idea of diversity of microorganisms in soil

Microbial Activity in Soil and Green House Gases

Carbon dioxide, methane, nitrous oxide, nitric oxide – production and control

Microbial Control of Soil Borne Plant Pathogens

Bio control mechanisms and ways, Microorganisms used as biocontrol agents against Microbial plant pathogens, Insects, Weeds

Biofertilization, Phytostimulation

Plant growth promoting bacteria, bio-fertilizers – symbiotic (Bradyrhizobium, Rhizobium, Frankia), Non Symbiotic (Azospirillum, Azotobacter, Mycorrhizae, Mycorrhization Helping Bacteria (MHBs), Phosphate solubilizers, algae), Novel combination of microbes as biofertilizers, PGPRs

Secondary Agriculture Biotechnology

Biotech feed, Silage, Biomanure, biogas, biofuels – general idea and advantages

GM crops

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General idea, Advantages and disadvantages, Bt-cotton and Golden rice.

DSE-2-(Microbial Biotechnology)

Microbial Biotechnology and its Applications Microbial biotechnology:

Scope and its applications in human therapeutics, agriculture (Bio fertilizers, PGPR, Mycorrhizae), environmental, and food technology Use of prokaryotic and eukaryotic microorganisms in biotechnological applications Genetically engineered microbes for industrial application: Bacteria and yeast

Therapeutic and Industrial Biotechnology

Recombinant microbial production processes in pharmaceutical industries - Streptokinase, recombinant vaccines (Hepatitis B vaccine). Microbial polysaccharides, Microbial production of bio-pesticides, bio plastics

Applications of Microbes in Bio transformations

Microbial based transformation of steroids Bio-catalytic processes and their industrial applications: Production of high fructose syrup

Microbial Products and their Recovery

Microbial product purification: filtration, ion exchange & affinity chromatography techniques. Immobilization methods and their application.

Microbes for Bio-energy and Environment

Bio-ethanol: commercial production from lignocellulosic waste, Biogas production: Methane and hydrogen production using microbial culture. Microorganisms in bioremediation: Degradation of xenobiotics (aromatic hydrocarbons), removal of heavy metals from aqueous effluents

Intellectual Property Rights

Patents, Copyrights, Trademarks

SEM-IV-SEC-2-(Bio-fertilizers and Bio-Pesticides)

Bio-fertilizers

General account of the microbes used as biofertilizers for various crop plants and their advantages over chemical fertilizers. Symbiotic N₂ fixers: Rhizobium - Isolation, characteristics, types, inoculum production and field application, legume/pulses plants Frankia - Isolation, characteristics, Alnus, Casurina plants, non-

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leguminous crop symbiosis. Cyanobacteria, Azolla - Isolation, characterization, mass multiplication, Role in rice cultivation, Crop response, field application.

Non - Symbiotic Nitrogen Fixers

Free living Azospirillum, Azotobacter - free isolation, characteristics, mass inoculums, production and field application.

Phosphate Solubilizers

Phosphate solubilizing microbes - Isolation, characterization, mass inoculum production, field application

Mycorrhizal Biofertilizers

Importance of mycorrhizal inoculum, types of mycorrhizae and associated plants, Mass inoculum production of VAM, field applications of Ectomycorrhizae and VAM.

Bioinsecticides

General account of microbes used as bioinsecticides and their advantages over synthetic pesticides, Bacillus thuringiensis- production, Field applications, Viruses – cultivation and field applications.

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Department of Physics

HONOURS

SEM-3 –SEC-1 (RENEWABLE ENERGY AND ENERGY HARVESTING)

Fossil fuels and Alternate Sources of energy: Fossil fuels and nuclear energy, their limitation, need of renewable energy, non-conventional energy sources. An overview of developments in Offshore Wind Energy, Tidal Energy, Wave energy systems, Ocean Thermal Energy Conversion, solar energy, biomass, biochemical conversion, biogas generation, geothermal energy tidal energy, Hydroelectricity.

Solar energy: Solar energy, its importance, storage of solar energy, solar pond, non convective solar pond, applications of solar pond and solar energy, solar water heater, flat plate collector, solar distillation, solar cooker, solar green houses, solar cell, absorption air conditioning. Need and characteristics of photovoltaic (PV) systems, PV models and equivalent circuits, and sun tracking systems.

Wind Energy harvesting: Fundamentals of Wind energy, Wind Turbines and different electrical machines in wind turbines, Power electronic interfaces, and grid interconnection topologies.

Ocean Energy: Ocean Energy Potential against Wind and Solar, Wave Characteristics and Statistics, Wave Energy Devices.

Tide characteristics and Statistics, Tide Energy Technologies, Ocean Thermal Energy, Osmotic Power, Ocean Bio-mass.

Geothermal Energy: Geothermal Resources, Geothermal Technologies.

Hydro Energy: Hydropower resources, hydropower technologies, environmental impact of hydro power sources.

Piezoelectric Energy harvesting: Introduction, Physics and characteristics of piezoelectric effect, materials and mathematical description of piezoelectricity, Piezoelectric parameters and modeling piezoelectric generators, Piezoelectric energy harvesting applications, Human power

Electromagnetic Energy Harvesting: Linear generators, physics mathematical models, recent applications

Carbon captured technologies, cell, batteries, power consumption

Environmental issues and Renewable sources of energy, sustainability.

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Department of Philosophy

Honours

SEM1-CC1

General features of Indian Philosophy, spirit of Indian Philosophy, Basic Concepts of the Vedic and the Upaniṣadic World-Views. Four Noble truths of Buddhism.

SEM2-CC3

Astangayoga of Yoga Philosophy

SEM3-CC5

1. Puruṣārtha
2. Vedic Concepts of ṛta, satya,
3. Ethics in Śrīmadbhagavadgītā : niṣkāmakarma and sthitaprajña
4. Buddhist Ethics: pañcaśīla and brahmavihāra
5. Jaina Ethics: pañcavrata: mahāvratā and anuvratā, and triratna
6. Yoga Ethics: yama and niyama

SEM3-CC6

Applied ethics : Gender Equality ,Euthanasia, Affluence and Morality ,Kant's moral theory

SEM4-CC10

Hinduism, Christianity, Islam, Buddhism : Basic Tenets

SEM4-SEC2

Human Rights

SEM5-CC11

B. R. Ambedkar's Criticism of Caste System, Dalit Movement

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SEM5-DSE1

Kāthopaniṣad

SEM6-CC13

Philosophical Thoughts of Rabindranath Tagore, Swami Vivekananda, Sri Aurobindo, S. Radhakrishnan, Md. Iqbal and Mahatma Gandhi

SEM6-DSE4

Rabindranath Tagore: Sadhana

General

SEM-I & V-GE1/CC1A

Four Noble truths of Buddhism , Astangayoga of Yoga Philosophy

SEM-IV-GE4/CC1D

Philosophical Thoughts of Rabindranath Tagore, Swami Vivekananda, Sri Aurobindo, S. Radhakrishnan, Md. Iqbal and Mahatma Gandhi

SEM-VI-SEC4

- 1.Puruṣārtha
2. Vedic Concepts of ṛta, satya,
3. Ethics in Śrīmadbhagavadgītā : niṣkāmakarma and sthitaprajña
4. Buddhist Ethics:pañcaśīla
- 5.Jaina Ethics: pañcavrata: mahāvratā and anuvratā, and triratna

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Department of Political Science

HONOURS

SEM-III-CC-6-(PUBLIC ADMINISTRATION - Basic Theories)

1. Public Administration: Meaning, dimensions and significance of the; Evolution of Public Administration as a Discipline; Identity crisis of Public Administration
2. Classical Theories: Scientific Management (F.W. Taylor); Administrative Management (Gullick, Urwick); Ideal type bureaucracy (Weber)
3. Neo-Classical Theories: Human Relations (Elton Mayo); Decision Making Theory(Herbert Simon); Motivation Theory(Herzberg, Maslow)
4. Contemporary Theories: Ecological Approach (Fred Riggs); Innovation and Entrepreneurship (Peter Drucker)
5. Concepts of Administration: Hierararchy, Span of Control, Unity of Command, Line and Staff, Centralization-Decentralization, Devolution, Delegation
6. Major approaches in Public Administration – New Public Administration, New Public Management, New Public Service Approach, Feminist Perspective.

SEM-V-CC-11-(SOCIAL MOVEMENTS IN INDIA)

1. Social Movements: Definition; Distinction between "new" and "old" social movements
2. Positive discrimination and Dalit movements (Panthers) in India
3. Trade Union movements in India: an overview of strength and weaknesses.
4. Peasant moments in India: Case Study (Telengana and Tebhaga)
5. Women's movements in India: key issues
6. Environmental Movements in India: Chipko, Narmada Bachao Andolan.

GENERAL

SEM-IV-SEC2-(Environmental Awareness)

1. Environmentalism: Meaning, Key Related Ideas, Significance

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2. Collective action problems and environmental challenges in developing and developed countries;
3. Major Environmental Movements in India: Chipko – NarmadaBanchao
4. Regional and international efforts to address climate change.
5. Green Governance: Sustainable Human Development

SEM-V-SEC-3-(Gender Sensitization)

1. Conceptualizing Gender in Politics: Political Participation, policy making and development 2. Security concern for Women and Third Gender/ Transgender.
3. Effective participation of Women in Decision making structures: Impact of Reservation in Local Government
4. Gender Identity: Women in riot and War.

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Department of Sanskrit

HONOURS

SEM-II-CC4-(Self Management in the Gītā)

Section-A

Śrīmadbhagavadgītā (Adhyāya-4 th)(Whole)

Section-B

Selected ślokas from the Gītā

I. Meditation -Adhyāya-VI (10-26)

II. Diet Control-Adhyāya-XVII (8-10)

III. Rajoguṇa- Adhyāya III (36-40)

SEM-III-SEC-1-(Ethical & Moral Issues in Sanskrit)

I. Hitopadeśa-Mitrālābha(up to verse No -50)

II. Pañcatantra—Mitrabheda-katha-2 Gomāyadundubhikathā

SEM-VI-DSE4-(Art of Balanced Living)

(A)Yogasūtra –I (1,2 &12-16)

Yogasūtra –II (29,30,32,46,49 &50)

(B)Śrīmadbhagavadgītā – Chapter –III (5-8,10-16,20&21)

GENERAL

SEM-V-DSE1A-(Philosophy, Religion and Culture in Sanskrit Tradition)

The Social, Religious and Cultural Aspects as reflected in the Purāṇas.

SEM-V-SEC-3-(Basic Sanskrit – Part-II)

Section-B

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“Lokavyavahārajñānaśunya-mūrkhapāṇḍitacatuṣṭaya-kathā”-(Aparīkṣitakāraka)-from Pañcatantra

SEM-VI-DSE1B-(Maxims In Sanskrit Language)

Prastāvikā of Hitopadeśa- (verses-1-47)

SEM-VI-SEC4-(Moral Values In Sanskrit Literature)

Section-A Dānavīraḥ Karṇaḥ (from Karṇabhāra)

Section-B Śaśakasimhākathā(from Pañcatantra)

SEM-VI-GE2-(Ethical Issues in Sanskrit Literature)

- (I) Hitopadeśa –Mitralābha (up to verse no.50) (30 classes)
- (II) (II)Pañcatantra Mitrabheda Katha (Gomāyudundubhikathā)

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Department of Zoology

HONOURS

SEM-1-CC-2-(Ecology)

Unit 1: Introduction to Ecology

History of ecology, Autecology and synecology, Levels of organization, Laws of limiting factors, Study of Physical factors, The Biosphere.

Unit 2: Population

Unitary and Modular populations Unique and group attributes of population: Demographic factors, life tables, fecundity tables, survivorship curves, dispersal and dispersion. Geometric, exponential and logistic growth, equation and patterns, and K strategies. Population regulation, density dependent and independent factors Population Interactions, Gause's Principle with laboratory and field examples, Lotka-Volterra equation for competition.

Unit 3: Community

Community characteristics: species diversity, abundance, dominance, richness, Vertical stratification, Ecotone and edge effect. succession with one example

Unit 4: Ecosystem

Types of ecosystem with an example in detail, Food chain: Detritus and grazing food chains, Linear and Y-shaped food chains, Food web, Energy flow through the ecosystem, Ecological pyramids and Ecological efficiencies Nutrient and biogeochemical cycle with an example of Nitrogen cycle Human modified ecosystem

Unit 5: Applied Ecology

Wildlife Conservation (in-situ and ex-situ conservation). Management strategies for tiger conservation; Wild life protection act (1972)

SEM-V-DSE-3-(Parasitology)

Unit 1: Introduction to Parasitology

Brief introduction of Parasitism, Parasite, Parasitoid and Vectors (mechanical and biological vector) 2. Host parasite relationship

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Unit 2: Parasitic Protists

Study of Morphology, Life Cycle, Prevalence, Epidemiology, Pathogenicity, Diagnosis, Prophylaxis and Treatment of Giardia intestinalis, Trypanosoma gambiense, Leishmania donovani.

Unit 3: Parasitic Platyhelminthes

Study of Morphology, Life Cycle, Prevalence, Epidemiology, Pathogenicity, Diagnosis, Prophylaxis and Treatment of Schistosoma haematobium, Taenia sajinata

Unit 4: Parasitic Nematodes

1. Study of Morphology, Life Cycle, Prevalence, Epidemiology, Pathogenicity, Diagnosis, Prophylaxis and Treatment of Ascaris lumbricoides, Ancylostoma duodenale, Wuchereria bancrofti and Trichinella spiralis, Brugiama lai;

2. Nematode plant interaction; Gall formation

Unit 5: Parasitic Arthropods

Biology, importance and control of ticks (Soft tick Ornithodoros, Hard tick Ixodes), mites (Sarcoptes), Lice (Pediculus), Flea (Xenopsylla) and Bug (Cimex)

Unit 5: Parasite Vertebrates 2 Brief account of Cookicutter Shark, Hood Mocking bird, Vampire bat

GENERAL

DSE-2-(Insect, vector and diseases)

Unit-1 Introduction to Insects

General Features of Insects, Morphological features, Head – Eyes, Types of antennae, Mouth parts with respect to feeding habit

Unit-2 Concept of Vectors

Brief introduction to Vectors (mechanical and biological), Reservoirs, Host-vector relationship, Adaptations as vectors, Host specificity

Unit-3 Insects as Vectors

Detailed features of insect orders as vectors – Diptera, Siphonoptera, Siphunculata, Hemiptera

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Unit-4 Dipteran as Disease Vectors

Study of important Dipteran vectors – Mosquitoes, Sand fly, Houseflies Study of mosquito-borne diseases – Malaria, Dengue, Chikungunya, Viral encephalitis, Filariasis Control of mosquitoes

Unit-5 Siphonaptera as Disease Vectors

Fleas as important insect vectors; Host-specificity, Study of Flea-borne diseases – Plague, Typhus fever; Control of fleas

Unit-6 Siphunculata as Disease Vectors

Human louse (Head, Body and Pubic louse) as important insect vectors; Control of human louse

Unit-7 Hemiptera as Disease Vectors

Bugs as insect vectors; Blood-sucking bugs; Chagas disease, Bed bugs as mechanical vectors, Control and prevention measures

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Institution integrates cross-cutting issues related to Professional Ethics, Gender, Human Values, Environment and Sustainability through the following list of Co-curricular and Extracurricular Activities during Academic Sessions 2018-2023

2018-2019

Sl. No.	Title of the Program conducted	Organized by	Date & Session	Cross-cutting issue
1.	Independence Day Celebration	Teacher's council (TC), Student's Union & National Cadet Corps (NCC) of college	15 th August, 2018	Human Value
2.	Teacher's Day and Fresher's Welcome Celebration	TC and various Departments of VM	5 th September, 2018	Human Value
3.	Self-Defence Programm for Women	Department of Political Science with Women Empowerment Cell	28 th September, 2018	Gender issue
4.	Celebration of 150 th Birth Anniversary of Mahatma Gandhi	Vivekananda Mahavidyalaya, Burdwan	2 nd October, 2018	Human Value
5.	District Mental Health Program	IQAC, VM in association with Department of Psychiatry, BMCH	19 th November, 2018	Human Value
6.	Film Festival 2018	IQAC, VM in association with Durgapur Mounteneer's Association	27 th November, 2018	Human Values & Environment and Sustainability
7.	College Annual Sports	Sport Committee, Vivekananda Mahavidyalaya, Burdwan	10 th & 11 th January, 2019	Human Value
8.	Republic Day Celebration	Vivekananda Mahavidyalaya, Burdwan	26 th January, 2019	Human Value
9.	Seminar on "The International Reception of Tagore"	Department of Bengali	20 th February, 2019	Human Value
10.	Celebration International Mother-language Day	Department of Bengali	21 st February, 2019	Human Value
11.	Seminar on "Basic Tenets of Western Philosophy"	Department of Philosophy & Department of English	12 th March, 2019	Human Value
12.	Seminar on Women Empowerment	Women Empowerment Cell, VM	18 th March, 2019	Gender issue
13.	Seminar on "Banglar Oitijhya: History and Historian Ramakanta Chakraborty"	Department of Bengali & Department of History	28 th March, 2019	Human Value



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2019-2020

Sl. No.	Title of the Program conducted	Organized by	Date & Session	Cross-cutting issue
1.	Tree Plantation Programme	Staff Members and Students, VM	20 th July, 2019	Environment and Sustainability
2.	Youth Day Celebration and AIDS Awareness Rally	IQAC, VM & NCC, VM	12 th August, 2019	Human Value
3.	Independence Day Celebration	Teacher's council (TC), Student's Union & National Cadet Corps (NCC) of college	15 th August, 2019	Human Value
4.	Teacher's Day and Fresher's Welcome Celebration	TC and various Departments of VM	5 th September, 2019	Human Value
5.	3 days Science Awareness Camp on Popularization of Science for School Students and Society	Vivekananda Mahavidyalaya, Burdwan	25-27 th September, 2019	Human Values & Environment and Sustainability
6.	One Day seminar on "Vidyasagar's work and literature" (Related to Women's Education, Social Justice)	Department of Bengali, VM	30 th September, 2019	Gender issue
7.	College Annual Sports	Sport Committee, Vivekananda Mahavidyalaya, Burdwan	6 th & 7 th January, 2020	Human Value
8.	Swami Vivekananda Birthday Celebration	Vivekananda Mahavidyalaya, Burdwan	12 th January, 2020	Human Value
9.	Student Awareness Camp on Road Safety	IQAC and NCC, VM	14 th March, 2020	Human Value
10.	Online Rabindra Jayanti Celebration (Google Platform)	Department of English, VM	8 th May, 2020	Human Value



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2020-2021

Sl. No.	Title of the Program conducted	Organized by	Date & Session	Cross-cutting issue
1.	International Webinar on “Way of Present-day Human Life in the Light of Vedanta as Envisaged by Swami Vivekananda”	Department of Sanskrit and IQAC, Vivekananda Mahavidyalaya, Burdwan	6 th August, 2020	Human Value
2.	Independence Day Celebration (Maintaining COVID Protocol)	NCC, Vivekananda Mahavidyalaya, Burdwan	15 th August, 2020	Human Value
3.	Teacher’s day Celebration (Online Program)	Teacher’s Council, VM	5 th September, 2020	Human Value
4.	Teachers’ Day Celebration by Students (Departmental)	Department of English, VM	5 th September, 2020	Human Value
5.	Swami Vivekananda Birthday Celebration (Maintaining COVID Protocol)	Vivekananda Mahavidyalaya, Burdwan	12 th January, 2021	Human Value
6.	Celebration 125 th Birthday of Netaji Subhas Chandra Bose (Maintaining COVID Protocol)	Vivekananda Mahavidyalaya, Burdwan	23 rd January, 2021	Human Value
7.	Republic Day Celebration (Maintaining COVID Protocol)	Vivekananda Mahavidyalaya, Burdwan	26 th January, 2021	Human Value

2021-2022

Sl. No.	Title of the Program conducted	Organized by	Date & Session	Cross-cutting issue
1.	Independence Day Celebration (Maintaining COVID Protocol)	NCC, Vivekananda Mahavidyalaya, Burdwan	15 th August, 2021	Human Value
2.	Youth Employability Training Programm (Online Mode)	Career Counselling and Student Welfare Committee, VM Conducted by Tata Consultancy Service Ltd.	16 th August, 2021 to 5 th October, 2021	Professional Ethics
3.	Teacher’s day Celebration (Online Program)	Teacher’s Council, VM	5 th September, 2021	Human Value
4.	COVID-19 Vaccination Drive Program	Health Care Committee, VM	02 nd October, 2021- 05 th October, 2021	Sustainability
5.	Celebration of Constitution Day (Maintaining COVID Protocol)	Department of Political Science, VM	26 th November, 2021	Human Value



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6.	Students' Week Celebration (Online)	All Departments, Vivekananda Mahavidyalaya, Burdwan	2 nd January, 2022 to 8 th January, 2022	Human Value
7.	Swami Vivekananda's Birthday Celebration (Maintaining COVID Protocol)	Vivekananda Mahavidyalaya, Burdwan	12 th January, 2022	Human Value
8.	Republic Day Celebration (Maintaining COVID Protocol)	Vivekananda Mahavidyalaya, Burdwan	26 th January, 2022	Human Value
9.	YOGA Training Camp & Meditation	Health Care and Student Welfare Committee, VM	21.04.22, 28.04.22, 19.05.22, 02.06.2022	Human Value
10.	Free Health Check-up Camp for all Stake Holders	Bengal Faith Hospital in association with IQAC, VM	16 th March, 2022	Human Value
11.	Inauguration of Wall Magazine, Department of English	Department of English, VM	13 th April, 2022	Gender issue
12.	Celebration of Rabindra Jayanti	Vivekananda Mahavidyalaya, Burdwan in association with Department of Bengali	11 th May, 2022	Human Value

2022-23

Sl. No.	Title of the Program conducted	Organized by	Date & Session	Cross-cutting issue
1.	Tree Plantation Programme	Vivekananda Mahavidyalaya, Burdwan in association with Central Bank of India,	5 th July, 2022	Environment and Sustainability
2.	Celebration of Azadi ki Amrit Mahotsav and 75 th Independence Day Celebration	Vivekananda Mahavidyalaya, Burdwan	13 th to 15 th August, 2022	Ethics & Human Value
3.	Youth Employability Programm	Career Counselling and Student Welfare Committee, VM Conducted by Tata Consultancy Service Ltd.	1 st September, 2022 to 29 th September, 2022	Professional Ethics
4.	Teacher's day Celebration	Teacher's Counsil, VM	5 th September, 2022	Human Value
5.	Free Eye Check-up Camp	IQAC and Health Care Committee in association with Dutta Optics	17 th December, 2022	Human Value
6.	Students' Week Celebration Rally on Girl Education & Child Marriage	Vivekananda Mahavidyalaya, Burdwan	2 nd January, 2023 to 8 th January, 2023	Gender Issue
7.	One Day Seminar "Sanskrit is Alive"	Department of Sanskrit, VM	6 th January, 2023	Human Value
8.	Republic Day Celebration	Vivekananda Mahavidyalaya, Burdwan	26 th January, 2023	Human Value
9.	International Conference on Life and Environment: Issues and Concern	Department of Botany, VM	9 th March, 2023	Environment and Sustainability
10.	Annual Special Camp (HIV Awareness, Gender Equality, Cyber Security, Cyber Crime)	National Social Service (NSS) Unit, VM	24 th to 30 th March, 2023	Human Value, Gender issues



Principal
Vivekananda Mahavidyalaya
Burdwan

Institution integrates cross-cutting issues related to Professional Ethics, Gender, Human Values, Environment and Sustainability through the following list of Co-curricular and Extracurricular Activities during Academic Sessions 2018-2023

Documental Proofs

2018-2019

Independence Day Celebration, 2018



Teacher's Day and Fresher's Welcome Celebration, 2018





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Suidwan

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Self-Defence Programm for Women, 2018



Gandhi

Celebration of 150th Birth Anniversary of Mahatma



District Mental Health Program, 2018



Film Festival 2018





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College Annual Sports, 2019



Republic Day Celebration, 2019





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Burdwan

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Seminar on “The International Reception of Tagore”, 2019



Celebration International Mother-language Day, 2019



Seminar on “Basic Tenets of Western Philosophy”



Seminar on Women Empowerment, 2019



Seminar on “Banglar Oitijhya: History and Historian Ramakanta Chakraborty” 2019



Institution integrates cross-cutting issues related to Professional Ethics, Gender, Human Values, Environment and Sustainability through the following list of Co-curricular and Extracurricular Activities during Academic Sessions 2018-2023

2019-2020

Tree Plantation Programme, 2019



Youth Day Celebration and AIDS Awareness Rally, 2019



Independence Day Celebration, 2019



Teacher's Day and Fresher's Welcome Celebration, 2019



Institution integrates cross-cutting issues related to Professional Ethics, Gender, Human Values, Environment and Sustainability through the following list of Co-curricular and Extracurricular Activities during Academic Sessions 2018-2023

Science Awareness Camp on Popularization of Science, 2019



One Day seminar on “Vidyasagar’s work and literature”, 2019



College Annual Sports, January 2020



Swami Vivekananda Birthday Celebration, 2020



Institution integrates cross-cutting issues related to Professional Ethics, Gender, Human Values, Environment and Sustainability through the following list of Co-curricular and Extracurricular Activities during Academic Sessions 2018-2023

Student Awareness Camp on Road Safety



Online Celebration of Rabindra Jayanti

Video link of the program, 8th May 2020

https://drive.google.com/file/d/1x6bsS-nPdawYZcm7Bc3lAfcP24XPmg9/view?usp=drive_link

2020-2021

International Webinar, Dept of Sanskrit,

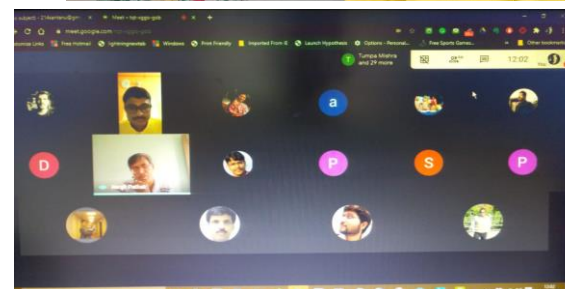
Way of Present Day Human Life in the Light of Vedanta : As Envisaged by Swami Vivekananda
आधुनिककाले मानवजीवने वेदान्तालोकेन मार्गनिर्देशः
- स्वामीविवेकानन्दमुद्रया

Organised by :
Dept. of Sanskrit
VIVEKANANDA MAHAVIDYALAYA
PURBA BARDHAMAN.
In collaboration with :
Internal Quality Assurance Cell (IQAC)
Vivekananda Mahavidyalaya
Purba Bardhaman.

INTERNATIONAL Webinar
6th August 2020
Time : 2 p.m. onwards

DISTINGUISHED SPEAKER
Swami Sumanasanda Maharaj
South Africa, Durban.
Chief Guest
Prof. Dhananjay Chakraborty
Associate Professor
Dept. of Sanskrit
Bejoy Narayan Mahavidyalaya,
Itachuna, Hooghly.
Chief Patron
Dr. Sibaprasad Rudra
Principal
Vivekananda Mahavidyalaya,
Purba Bardhaman.
Patron
Dr. Animesh Debnath
IQAC Co-ordinator
Vivekananda Mahavidyalaya
ORGANISING COMMITTEE
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Vivekananda Mahavidyalaya
Purba Bardhaman.
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Sirija Khutun, V.M., Purba Bardhaman

Independence Day Celebration Teacher's Day Celebration (Online Program)



**Swami Vivekananda Birthday Celebration
Bose**

Celebration 125th Birthday of Netaji Subhas Chandra


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Sudwan

Institution integrates cross-cutting issues related to Professional Ethics, Gender, Human Values, Environment and Sustainability through the following list of Co-curricular and Extracurricular Activities during Academic Sessions 2018-2023



Republic Day Celebration (Maintaining COVID Protocol)





Principal
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Suidwan

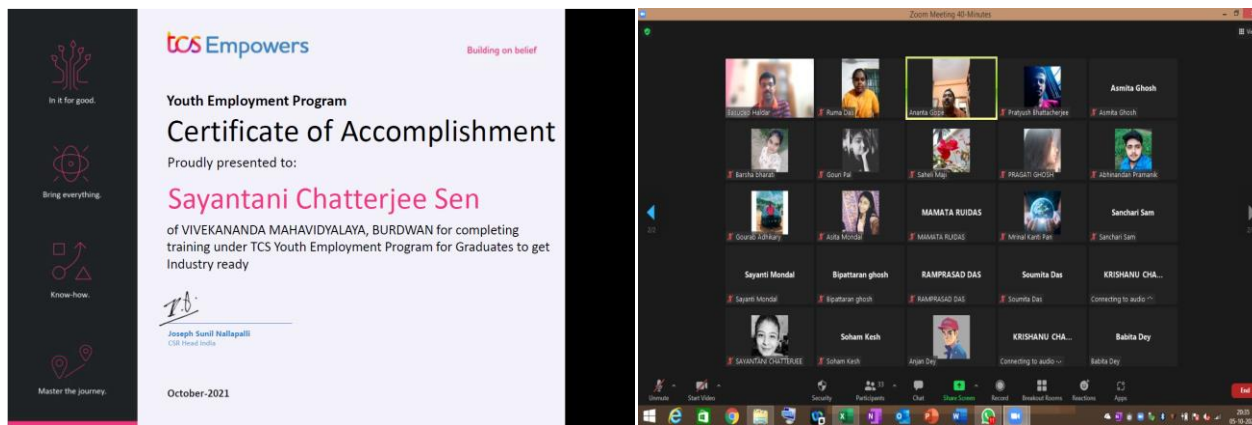
Institution integrates cross-cutting issues related to Professional Ethics, Gender, Human Values, Environment and Sustainability through the following list of Co-curricular and Extracurricular Activities during Academic Sessions 2018-2023

2021-2022

Independence Day Celebration, 2021



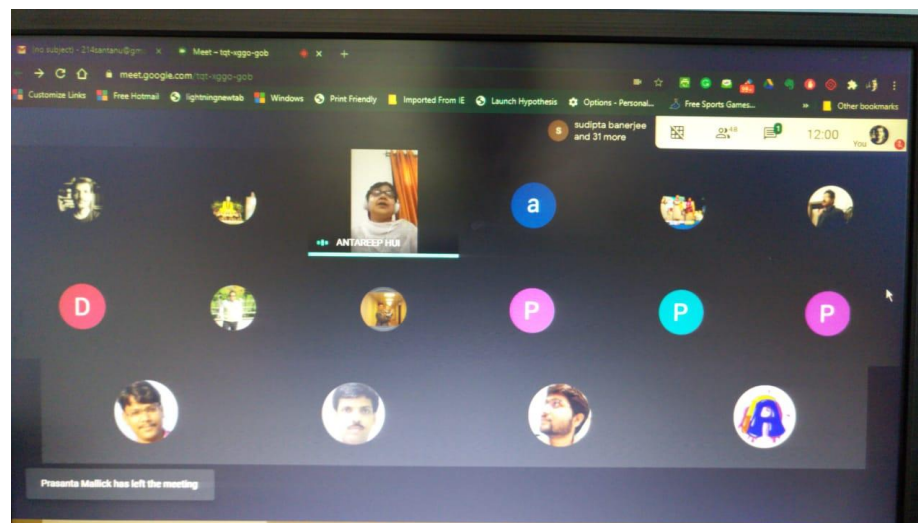
Youth Employability Training Programm (Online Mode)



COVID-19 Vaccination Drive Program



Teacher's Day Celebration (Online Program)





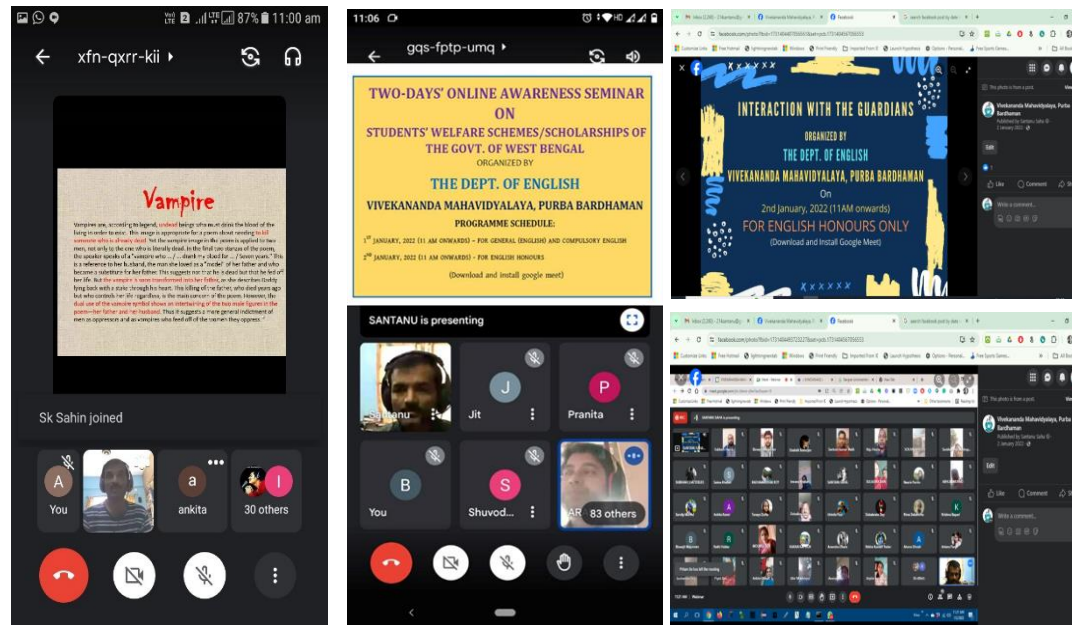
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Vivekananda Mahavidyalaya
Burdwan

Institution integrates cross-cutting issues related to Professional Ethics, Gender, Human Values, Environment and Sustainability through the following list of Co-curricular and Extracurricular Activities during Academic Sessions 2018-2023

Observation of Constitution Day



Students' Week Celebration (Online)



Swami Vivekananda's Birthday Celebration



Republic Day Celebration



Principal

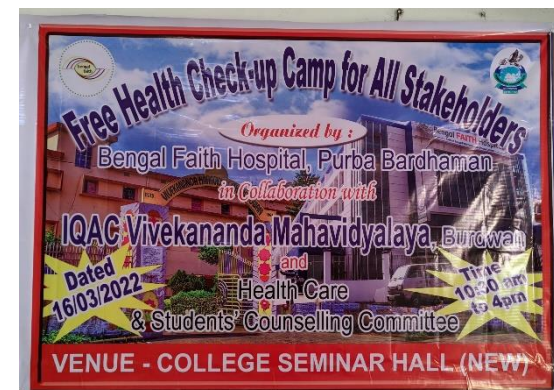
Vivekananda Mahavidyalaya
Sudwan

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YOGA Training Camp and Meditation



Free Health Check-up Camp for all Stake Holders



Principal
Vivekananda Mahavidyalaya
Burdwan

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Inauguration of Wall Magazine



Celebration of Rabindra Jayanti



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Gudwan

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2022-2023

Tree Plantation Programme, 2022



Celebration of Azadi ki Amrit Mahotsav & 75th Independence Day Celebration



Selection of Theme



Drawing Competition



Essay Competition



Extempore Competition

Youth Employability Programm with TCS, 2022



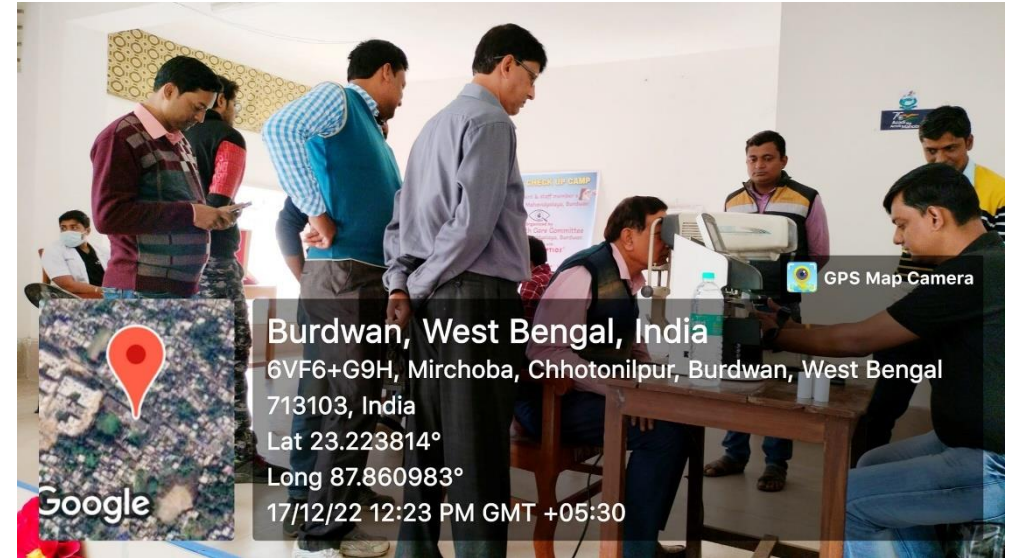

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Burdwan

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Teacher's day Celebration



Free Eye Check-up Camp



Students' Week Celebration Rally on Girl Education & Child Marriage



One Day Seminar "Sanskrit is Alive"



Institution integrates cross-cutting issues related to Professional Ethics, Gender, Human Values, Environment and Sustainability through the following list of Co-curricular and Extracurricular Activities during Academic Sessions 2018-2023

International Conference on Life and Environment: Issues and Concern



Annual Special Camp (HIV Awareness, Gender Issues, Cyber Security, Cyber Crime)

