



Vasundhara Bahuddeshiya Samajik Sanstha's
SIDDHIVINAYAK TECHNICAL CAMPUS

Approved by AICTE New Delhi and DTE Mumbai. Affiliated to SGBAU Amravati & MSBTE Mumbai.
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Session 2023-24

7.1.9 Sensitization of students and employees of the Institution to the constitutional obligations: values, rights, duties and responsibilities of citizens

1. Title of Activity: Independence Day

Date & Venue: 15-08-2023, Ground

Description of Event:

This occasion was graced by Principal Sir, Teaching and nonteaching staff. The program starts with flag hosting followed by national anthem. Guest delivered a lecture, which emphasizes our constitution.

PHOTOGALLERY



2. Title of Activity: Swatchh Bharat Abhiyan

Date & Venue: 01-10-2023, STC Campus.

Description of Event:

Swatchh Bharat Abhiyan or CleanIndia Mission is adopted to eliminate open defecation and improve solid wastemanagement.

PHOTOGALLERY



Buldhana Edition
Oct 7, 2023 Page No. 7
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3. Title of Activity: Republic day

Date & Venue: 26-01-2023, Ground.

Description of Event:

Republic day will be celebrated annually remember father of Indian Constitution and to awaken constitutional values, rights, duties and responsibilities among students and staffs towards the nation. This occasion was graced by Respected Principal Sir Dr. A. G. Kulkarni, Teaching and nonteaching staff. The program starts with flag hosting followed by national anthem. Principal Sir delivered a lecture, which emphasizes our constitution.



4. Title of Activity: Jijamata & Swami Vivekananda Jayanti

Date & Venue: 12-01-2024, Library.

Description of Event:

In Our institute celebrated Jijamata & Swami Vivekananda Jayanti in the presence of Principal with All Staff members. Swami Vivekananda's birth anniversary is celebrated as National Youth Day across the nation. The life and personality of Vivekananda is like an inspiration for all. He had a very strong belief that youth can transform the faith of India through their dedication and hard work.



NOTICE

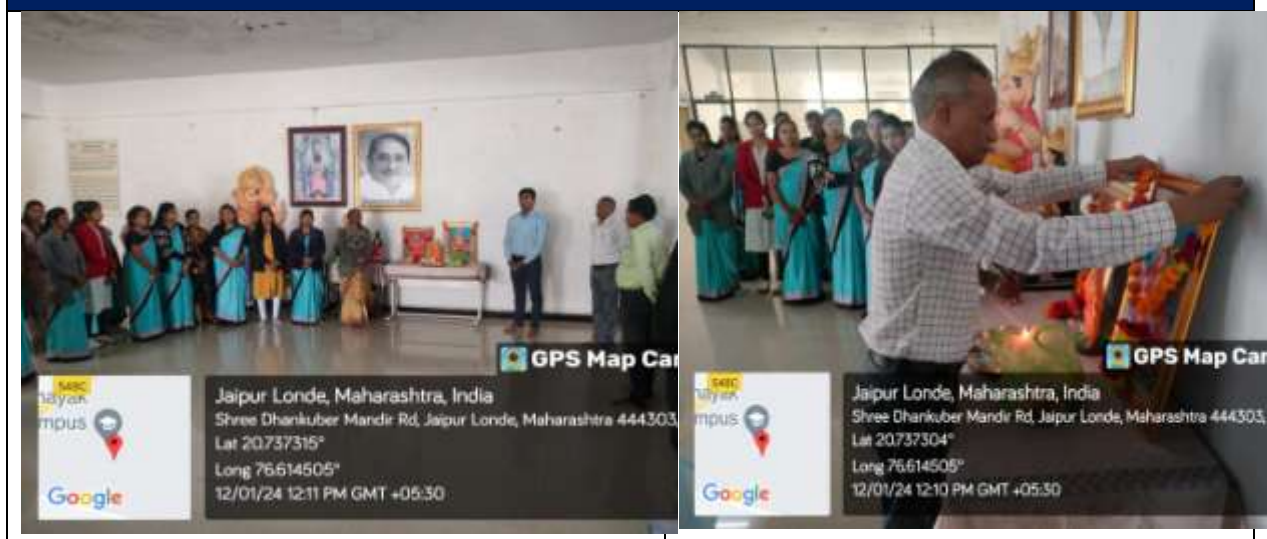
All the Teaching/Non-teaching Staff and students are hereby informed that they have to remain present for the Celebration of Jijamata Jyoti and Swami Vivekananda Jayanti on date 12/01/2024 in Seminar Hall.

NIS Programme Officer
Prof.A.B.Adhao



Principal
Siddhivinayak Technical Campus
(Mangal, W.R.)
Principal
Dr. Anant G. Kulkarni

PHOTOGALLERY



5. Title of Activity: Indian Constitution Day

Date & Venue: 26-11-2023, Office.

Description of Event:

Our institute celebrate Indian constitution day on dated 26/11/2023. Constitution Day, also known as "National Law Day", is celebrated in India on 26 November every year to commemorate the adoption of the Constitution of India.



6. Title of Activity: International Yoga Day.

Date & Venue: 21-06-2023, Library.

Description of Event:

Our institute celebrates International Yoga Day on 21st June every year. Due to this people get aware of physical and mental illnesses. It also aims to develop a habit of meditation for peace of mind, self-awareness which is necessary to survive in a stress free environment.



7. Title of Activity: Tree Plantation

Date & Venue: 17/08/2023, Ground

Description of Event:

Our institute conducted Tree Plantation in the presence of Principal with All Staff members. By this program we came to know the importance nature in our life.



8. Title of Activity: Course –Value and Ethics

Description of Course:

By the end of the course, student are expected to become more aware of themselves and their surrounding (Family, society, nature);they would become more responsible in life and in handling problems with sustainable solutions, while keeping human relationships and human nature in mind. They would have better critical ability. They would also become sensitive to their environment towards what they have understood (human values. Human relationship and human society).it is hoped that they would be able to apply what they have learnt to their own self in different day to day settings in real life.

| SEMESTER : FOURTH | | | | | | | | | | | | | | | | |
|-------------------------------|--------------|--|-----------------|----------|-----|------------------|---------|-------------------------|-------------------------|----------------|-------|--------------------|------------|-------|-------|--------------------|
| Sr. No. | Subject Code | Subject | TEACHING SCHEME | | | | | EXAMINATION SCHEME | | | | | | | | |
| | | | HOURS / WEEK | | | Total HOURS/WEEK | CREDITS | THEORY | | | | | PRACTICAL | | | |
| | | | Lecture | Tutorial | P/D | | | Duration Of Paper (Hr.) | Max. Marks Theory Paper | Internal Marks | Total | Min. Passing Marks | Max. Marks | | Total | Min. Passing Marks |
| | | | | | | | | | | | | | Int. | Ext. | | |
| THEORY | | | | | | | | | | | | | | | | |
| 01 | 4ETC01 | Analog and Digital Communication | 3 | - | - | 3 | 3 | 3 | 80 | 20 | 100 | 40 | - | - | - | - |
| 02 | 4ETC02 | Analog Circuits | 3 | - | - | 3 | 3 | 3 | 80 | 20 | 100 | 40 | - | - | - | - |
| 03 | 4ETC03 | Network Theory | 4 | - | - | 4 | 4 | 3 | 80 | 20 | 100 | 40 | - | - | - | - |
| 04 | 4ETC04 | Signals and Systems | 3 | - | - | 3 | 3 | 3 | 80 | 20 | 100 | 40 | - | - | - | - |
| 05 | 4ETC05 | Values and Ethics (HS) | 3 | - | - | 3 | 3 | 3 | 80 | 20 | 100 | 40 | - | - | - | - |
| 06 | 4ES06 | **Environmental Science (Mandatory Course) | 2 | - | - | 2 | 2 | 3 | 80 | 20 | 100 | 40 | - | - | - | - |
| PRACTICALS / DRAWING / DESIGN | | | | | | | | | | | | | | | | |
| 07 | 4ETC06 | Analog and Digital Communication Lab | - | - | 2 | 2 | 1 | - | - | - | - | - | 25 | 25 | 50 | 25 |
| 08 | 4ETC07 | Analog Circuits Lab | - | - | 2 | 2 | 1 | - | - | - | - | - | 25 | 25 | 50 | 25 |
| 09 | 4ETC08 | Network Theory Lab | - | - | 2 | 2 | 1 | - | - | - | - | - | 25 | 25 | 50 | 25 |
| 10 | 4ETC09 | Signals & Systems Lab | - | - | 2 | 2 | 1 | - | - | - | - | - | 25 | 25 | 50 | 25 |
| Total | | | 18 | 0 | 8 | 26 | 22 | - | - | - | 500 | - | - | - | 200 | - |
| | | | | | | | | | | | | | | Total | | 700 |

Note: **The Examination of Mandatory Subject Environmental Science shall be conducted in IV Semester.

| | | |
|---------------|--|-----------|
| | Subject: Values & Ethics | L. |
| Unit-1 | Course Introduction – Need, Basic Guidelines, Content and Process for Value Education Purpose and motivation for the course, recapitulation from Universal Human Values-I, Self-Exploration-what is it? - Its content and process; 'Natural Acceptance' and Experiential Validations the process for self-exploration, Continuous Happiness and Prosperity- A look at basic Human Aspirations, Right understanding, Relationship and Physical Facility- the basic requirements for fulfilment of aspirations of every human being with their correct priority, Understanding Happiness and Prosperity correctly- A critical appraisal of the current scenario, Method to fulfil the above human aspirations: understanding and living in harmony at various levels. | 06 |
| Unit-2 | Understanding Harmony in the Human Being - Harmony in Myself Understanding human being as a co-existence of the sentient 'I' and the material 'Body'; Understanding the needs of Self ('I') and 'Body' - happiness and physical facility, Understanding the Body as an instrument of 'I' (I being the doer, seer and enjoyer), Understanding the characteristics and activities of 'I' and harmony in 'I', Understanding the harmony of I with the Body: Sanyam and Health; correct appraisal of Physical needs, meaning of Prosperity. | 06 |
| Unit-3 | Understanding Harmony in the Family and Society- Harmony in Human-Human Relationship Understanding values in human-human relationship; meaning of Justice (nine universal values in relationships) and program for its fulfilment to ensure mutual happiness; Trust and Respect as the foundational values of relationship, Understanding the meaning of Trust; Difference between intention and competence, Understanding the meaning of Respect, Difference between respect and differentiation; the other salient values in relationship Incorporating Universal Human Values in Technical Education (An AICTE Initiative), Understanding the harmony in the society (society being an extension of family); Resolution, Prosperity, fearlessness (trust) and co-existence as comprehensive Human Goals. | 06 |
| Unit-4 | Understanding Harmony in the Nature and Existence - Whole existence as Coexistence Understanding the harmony in the Nature, Interconnectedness, and mutual fulfilment among the four orders of nature- recyclability and self-regulation in nature, Understanding Existence as Co-existence of mutually interacting units in all-pervasive space, Holistic perception of harmony at all levels of existence. | 06 |
| Unit-5 | Implications of the above Holistic Understanding of Harmony on Professional Ethics Natural acceptance of human values, Definitiveness of Ethical Human Conduct, Basis for Humanistic Education, Humanistic Constitution and Humanistic Universal Order, Competence in professional ethics: a) Ability to utilize the professional competence for augmenting universal human order b) Ability to identify the scope and characteristics of people friendly and eco-friendly production systems, c) Ability to identify and develop appropriate technologies and management patterns for above production systems. | 06 |
| Unit-6 | Case studies of typical holistic technologies, management models and production systems, Strategy for transition from the present state to Universal Human Order: a) At the level of individual: as socially and ecologically responsible engineers, technologists and managers b) At the level of society: as mutually enriching institutions and organizations. (6 Hrs) Note: Include practice Exercises and Case Studies will be taken up in Practice (tutorial) Sessions eg. to discuss the conduct as an engineer or scientist etc. | 06 |
| | Total | 36 |

9. Title of Activity: Environmental Science.

Description of course:

Environmental value systems embrace such issues as defence of amenity, conservation of resources, prevention of risk and concern for survival which are fundamental aspects of both the material and spiritual quality of life.

ES-1 ENVIRONMENTAL STUDIES

Total Marks : 100

PART-A

SHORT ANSWER PATTERN

25 Marks

1. The Multidisciplinary nature of environmental studies

- Definition, scope and importance.
- Need for public awareness.

(2 lecture hours)

2. Social Issues and the Environment

- From Unsustainable to Sustainable development
- Urban problems related to energy
- Water conservation, rain water harvesting, watershed management
- Resettlement and rehabilitation of people; its problems and concerns. Case studies.
- Environmental ethics : Issues and possible solutions.
- Climate change, global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust. Case studies.
- Wasteland reclamation.
- Consumerism and waste products.
- Environment Protection Act.
- Air (Prevention and Control of Pollution) Act.
- Water (Prevention and Control of Pollution) Act.
- Wildlife Protection Act.
- Forest Conservation Act.
- Issues involved in enforcement of environmental legislation.
- Public awareness.

(7 lecture hours)

3. Human Population and the Environment

- Population growth, variation among nations.
- Population explosion - Family Welfare Programme.
- Environment and human health.
- Human Rights.
- Value Education.
- HIV / AIDS.
- Women and Child Welfare.
- Role of Information Technology in Environment and human health.
- Case Studies.

(6 lecture hours)

ES-2
PART-B
ESSAY TYPE WITH INBUILT CHOICE 50 Marks

4. Natural resources :
 - Renewable and non-renewable resources :
 - Natural resources and associated problems.
 - Forest resources : Use and over exploitation, deforestation, case studies. Timber extraction, mining, dams and their effects on forests and tribal people.
 - Water resources : Use and over-utilization of surface and ground water, floods, drought, conflicts over water, dams-benefits and problems.
 - Mineral resources : Use and exploitation, environmental effects of extracting and using mineral resources, case studies.
 - Food resources : World food problems, changes caused by agriculture and overgrazing, effects of modern agriculture, fertilizer - pesticide problems, water logging, salinity, case studies.
 - Energy resources : Growing energy needs, renewable and non renewable energy sources, use of alternate energy sources, Case studies.
 - Land resources : Land as a resource, land degradation, man induced landslides, soil erosion and desertification.
 - Role of an individual in conservation of natural resources.
 - Equitable use of resources for sustainable lifestyles. (8 lecture hours)
5. Ecosystems
 - Concept of an ecosystem.
 - Structure and function of an ecosystem.
 - Producers, consumers and decomposers.
 - Energy flow in the ecosystem.
 - Ecological succession.
 - Food chains, food webs and ecological pyramids.
 - Introduction, types, characteristic features, structure and function of the following ecosystem :-
 - Forest ecosystem
 - Grassland ecosystem
 - Desert ecosystem
 - Aquatic ecosystems (ponds, streams, lakes, rivers, oceans, estuaries) (6 lecture hours)
6. Biodiversity and its conservation
 - Introduction - Definition : genetic, species and ecosystem diversity.
 - Biogeographical classification of India.
 - Value of biodiversity : consumptive use, productive use, social, ethical, aesthetic and option values.
 - Biodiversity at global, National and local levels.
 - India as a mega-diversity nation.
 - Hot-spots of biodiversity.

- ES-3
- Threats to biodiversity : habitat loss, poaching of wildlife, man-wildlife conflicts.
 - Endangered and endemic species of India.
 - Conservation of biodiversity : In-situ and Ex-situ conservation of biodiversity. (8 lecture hours)

7. Environmental Pollution
 - Definition
 - Causes, effects and control measures of :-
 - Air pollution
 - Water pollution
 - Soil pollution
 - Marine pollution
 - Noise pollution
 - Thermal pollution
 - Nuclear hazards
 - Solid Waste Management : Causes, effects and control measures of
 - Role of an individual in prevention of pollution.
 - Pollution case studies.
 - Disaster management : floods, earthquake, cyclone and landslides. (8 lecture hours)

PART-C
ESSAY ON FIELD WORK 25 Marks

8. Field work
 - Visit to a local area to document environmental assets - river / forest / grass land / hill / mountain
 - Visit to a local polluted site - Urban / Rural / Industrial / Agricultural
 - Study of common plants, insects, birds.
 - Study of simple ecosystems - pond, river, hill slopes, etc. (5 lecture hours)
- (Notes : i) Contents of the syllabys mentioned under paras 1 to 8 shall be for teaching for the examination based on Annual Pattern.
 ii) Contents of the syllabys mentioned under paras 1 to 4 shall be for teaching to the Semester commencing first, and
 iii) Contents of the syllabys mentioned under paras 5 to 8 shall be for teaching to the Semester commencing later.

LIST OF REFERENCES :-

- 1) Agarwal, K.C., 2001, Environmental Biology, Nidi Publ. Ltd., Bikaner.
- 2) Bharucha Erach, The Biodiversity of India, Mapin Publishing Pvt. Ltd., Ahmedabad - 380 013, India, Email : mapin@icenet.net (R)
- 3) Brunner R.C., 1989, Hazardous Waste Incineration, McGraw Hill Inc. 480p.
- 4) Clark R.S., Marine Pollution, Clanderson Press Oxford (IB)



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