



Vasundhara Bahuddeshiya Samajik Sanstha's
SIDDHIVINAYAK TECHNICAL CAMPUS
Approved by AICTE New Delhi and DTE Mumbai. Affiliated to SGBAU Amravati & MSBTE Mumbai.
Khamgaon Road, Shegaon, Pin: 444203, Maharashtra, India
Phone: 8080977719. Web: stc.org.in, Email: stc.shegaon@stc.org.in
Session 2022-23



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: 15-08-2022, 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.



2. Title of Activity: Swatchh Bharat Abhiyan

Date & Venue: 24-09-2022, STC Campus.

Description of Event:

On the occasion of NSS Day, Swatchh Bharat Abhiyan or Clean India Mission is adopted to eliminate open defecation and improve solid waste management.

सिध्दीविनायक टेक्नीकल कॅम्पस अंतर्गत स्वच्छ भारत अभियान

शेगाव- सिध्दीविनायक टेक्नीकल कॅम्पसमध्ये रा.से.यो. स्वयंसेवकांमार्फत दि.१२ ऑक्टोबर रोजी स्वच्छ भारत अभियान राबविण्यात आले.

स्वच्छ भारत अभियानांतर्गत शेगाव शहरातील मध्यवर्ती बसस्थानक येथे स्वच्छता करणवत आली. स्वच्छता मोहिमेची सुस्वाज्ञ संत गाडगेबाबा यांच्या 'गोपाला गोपाला देवकीनंदेव गोपाला' या किर्तनाने करण्यात आली. याप्रसंगी शेगाव बसस्थानकाचे आगर प्रमुख स्वप्नील भास्कर यांची प्रमुख उपस्थिती लाभली. सद्यः कार्यक्रमाला अभियंत्रिकी महाविद्यालयाचे प्राचार्य डॉ.अनंत जी. कुलकर्णी व तंत्रनिकेतन महाविद्यालयाचे प्राचार्य पारण कोल्हे यांनी मार्गदर्शन केले. सद्यः कार्यक्रमाकरीता रा.से.यो. कार्यक्रमाधिकारी प्रा. मनोज ठाकरे, सहाय्यक कार्यक्रमाधिकारी प्रा. गौरव कथळकर, प्रा. प्रिंसा वल्लभनीमा, प्रा.संचाली पांडे व राष्ट्रीय सेवा योजनेचे स्वयंसेवक व स्वयंसेविका यांनी परिश्रम घेतले. संयुक्तविस्मभर अतिशय शिरतकट वलावणगत पार पडलेल्या या स्वच्छता अभियानाला व त्यामध्ये सहभागी विद्यार्थ्यांना संस्थेचे अष्टसुख सागर फुडकर व संस्थेचे उपाध्यक्ष आ.अॅड. आकाश फुडकर यांनी शुभेच्छा दिल्या.



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: 12-01-2023, 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.



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Ref: STC/Engg/PO/2023/1

Date: 11 January 2023

NOTICE

It is notified to inform all the concerned that that the NSS unit of the college is going to celebrate "NATIONAL YOUTH DAY" and "RASHTRA MATA JIJAU JAYANTI" on 12/01/2023.

National Youth Day, also known as Vivekananda Jayanti, is celebrated on 12 January being the birthday of Swami Vivekananda.

All the staff and students are hereby informed that please present on this occasion as per schedule given below:

Date: **January 12, 2023 Thursday.**

Time: **03:15 PM to 05:15 PM.**

Venue: **Seminar Room (CG-11).**

Prof. Atul Adhao
Programme Officer
NSS

Prof. Radhika Bihade
Women Programme
Officer
NSS

Prof. Abhishek Narkhede
Dean

Dr. Anant G. Kulkarni
Principal

Copy to:

- 1) The Honorable Chairman Sir, VBSS, Khamgaon for your kind information.
- 2) All HODs and concern staff member for information and circulation.

5. Title of Activity: Indian Constitution Day

Date & Venue: 26-11-2022, Office.

Description of Event:

Our institute celebrate Indian constitution day on dated 26/11/2022. 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: 21-06-2022, 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: 17/08/2022, 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			CREDITS	THEORY					PRACTICAL				
			Lecture	Tutorial	P/D		Total HOURS/WEEK	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 WITHIN BUILT 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, Clarendon Press Oxford (IB)



[Signature]
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