



BHARATI VIDYAPEETH'S COLLEGE OF ENGINEERING, KOLHAPUR

Accredited by NAAC With 'A' Grade
Approved by AICTE, New Delhi & Affiliated to Shivaji University, Kolhapur
Near Chitranagari, Kolhapur - 416013 (MS)
DTE INSTITUTE CODE : EN-6288
Tel.No.: (0231) 2638893, 2638894, Fax : 2636050
Web : <http://coekolhapur.bharatividyaapeeth.edu> E- mail : coekolhapur@bharatividyaapeeth.edu

FOUNDER CHANCELLOR
Dr. Patangrao Kadam
M.A., LL. B., Ph. D.

PRINCIPAL
Dr. Vijay Ghorpade
M.E., Ph. D. (Computer)

NAAC SSR CYCLE- 2



Criterion 1	Curricular Aspects
Key Indicator 1.3	Curriculum Enrichment
1.3.1 Institution integrates crosscutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum	



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Environment and Sustainability



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SHIVAJI UNIVERSITY, KOLHAPUR

REVISED STRUCTURE AND SYLLABUS

SECOND YEAR (B. Tech) CBCS

MECHANICAL ENGINEERING

To be introduced from the academic year 2019-20

(i.e. from June 2019) onwards

COURSE CODE AND DEFINITION

Semester III

Sr. No	Code No.	Subject	Credits
1.	BSC-ME201	Engineering Mathematics - III	4
2.	PCC-ME202	*Electrical Technology	4
3.	PCC-ME203	Applied Thermodynamics	4
4.	PCC-ME204	Metallurgy	4
5.	PCC-ME205	Fluid Mechanics	4
6.	PCC-ME206	Machine Drawing	1
7.	PCC-ME207	*Computer Programming Using C++	1
8.	PCC-ME208	Workshop Practice – III	1
9.	MC-ME209	Environmental studies	3
		Total	26



SHIVAJI UNIVERSITY, KOLHAPUR-416 004. MAHARASHTRA

PHONE : EPABX-2609000 website- www.unishivaji.ac.in

FAX 0091-0231-2691533 & 0091-0231-2692333 – BOS - 2609094

शिवाजी विद्यापीठ, कोल्हापूर – 416004.

दुरध्वनी (ईपीएबीएक्स) २६०९००० (अभ्यास मंडळे विभाग— २६०९०९४)

फॅक्स : ००९१-०२३१-२६९१५३३ व २६९२३३३.e-mail:bos@unishivaji.ac.in

SU/BOS/6060

Date:- 19/06/2019

To,

The Principal,
All Affiliated Colleges/Institutes,
Shivaji University,
Kolhapur

Subject: Regarding syllabi of **Environmental Studies for all under graduate degree Programme Part – II** of all faculties.

Sir/Madam,

With reference to the subject mentioned above, I am directed to inform you that the University authorities have accepted and granted approval to the syllabi of **Environmental Studies for all under graduate degree programme Part – II** of all faculties.

The concerned syllabi shall be implemented from the academic year 2019-20 (i.e. from June, 2019) onwards. All these syllabi are also made available on University website www.unishivaji.ac.in.

You are therefore requested to bring this to the notice of all students and teachers concerned.

Thanking you,

Yours faithfully,

Dy Registrar

Copy to:

1) I/c Dean, All Faculty	6) B.Sc. Section
2) Chairman, Ad-hoc Board of Environmental Studies	7) Computer Centre
3) Appointment Section	8) P.G.Admission
4) Affiliation Section	9) P.G.Seminar.
5) Eligibility Section

SHIVAJI UNIVERSITY, KOLHAPUR.



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Syllabus of Environmental Studies

**As a Compulsory Paper for all
Undergraduate Programme**

(To be implemented from academic year 2019)

Shivaji University, Kolhapur
Syllabus of Environmental Studies
as a Compulsory Paper for all Undergraduate Courses
2019-20

Unit 1. Nature of Environmental Studies :

(3 lectures)

Definition, scope and importance.

Multidisciplinary nature of environmental studies

Need for public awareness.

Concept of sustainability. Sustainable development and it's goals with Indian context.

Unit 2. Ecosystems :

(9 lectures)

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, characteristics features, structure and function of the following ecosystem :-

a) Forest ecosystem, b) Grassland ecosystem, c) Desert ecosystem,

d) Aquatic ecosystems (ponds, streams, lakes, rivers, oceans, estuaries)

Degradation of the ecosystems and it's impacts.

Unit 3. Natural Resources and Associated Problems :

(8 lectures)

- a) Forest resources: Use and over-exploitation, deforestation, dams and their effects on forests and tribal people.
- b) Water resources: Use and over-utilization of surface and ground water, floods, drought, conflicts over water, dams-benefits and problems.
- c) Mineral resources: Usage and exploitation. Environmental effects of extracting and using mineral resources.
- d) Food resources: World food problem, changes caused by agriculture ,effect of modern agriculture, fertilizer-pesticide problems.
- e) Energy resources: Growing energy needs, renewable and non- renewable energy resources, use of alternate energy sources. Solar energy , Biomass energy, Nuclear energy,
- f) Land resources: Land as a resource, land degradation, man induced landslides, soil erosion and desertification. Consumerism ,ecological foot prints, carbon foot prints, carbon credits.

Role of an individuals in conservation of natural resources. Equitable use of resources for sustainable lifestyles.

Unit 4. Biodiversity and its conservation :**(8 lectures)**

Introduction- Definition: genetic, species and ecosystem diversity.

Bio-geographical classification of India.

Value of biodiversity: consumptive use, productive use, social, ethical, aesthetic and option values.

India as a mega- diversity nation.

Western Ghat as a biodiversity region. Hot-spots of biodiversity.

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. Convention on Biological Diversity.

Unit 5. Environmental Pollution :**(8 lectures)**

Definition: Causes, effects and control measures of: Air pollution,

Water pollution, Soil pollution, Marine pollution, Noise pollution, Thermal pollution, Nuclear hazards.

Global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust.

Solid waste Management: Causes, effects and control measures of urban and industrial wastes. Solid waste management control rules.

Role of an individual in prevention of pollution.

Unit 6. Social Issues and the Environment :**(9 lectures)**

Human population growth, impact on environment. Human Health and welfare.

Environmental ethics: Role of Indian religious traditions and culture in conservation of the environment.

Environmental movements- Chipko Movement, Appiko Movement, Silent Valley.

Resettlement and rehabilitation of people; its problems and concerns.

Water conservation, rain water harvesting, watershed management. water conservation by Dr.Rajendra Singh, Anna Hazare etc.

Disaster management: floods, earthquake, cyclone, tsunami and landslides.

Wasteland reclamation.

Environmental communication and public awareness, case studies.

Unit 7. Environmental Protection- Policies and practises :**(5 lectures)**

Environmental Protection Act.

Air (Prevention and Control of Pollution) Act.

Water (Prevention and control of Pollution) Act

Wildlife Protection Act

Forest Conservation Act

National and International conventions and agreements on environment.

Unit 8. Field Work :**(10 lectures)**

Visit to a local area to document environmental assets-

River/forest/grassland/hill/mountain.

or

Visit to a local polluted site – Urban/Rural/Industrial/Agricultural

or

Study of common plants, insects, birds.

or

Study of simple ecosystems - ponds, river, hill slopes, etc.

(Field work is equal to 10 lecture hours)

References :

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- 19) Survey of the Environment, The Hindu (M)
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- 23) Wagner K.D.,1998, Environmental management, W.B. Saunders Co.Philadelphia, USA 499p.
- 24) Paryavaran shastra – Gholap T.N.
- 25) Paryavaran Sahastra – Gharapure
M) Magazine (R) Reference (TB) Textbook



BHARATI VIDYAPEETH'S COLLEGE OF ENGINEERING, KOLHAPUR

- **Organizing Department:** National Service Scheme (NSS) UNIT BVCOEK
- **Name of Activity** : Programme Under ,`Azadi Ka Amrutmahostav`"
Celebration of World Environment Day & Tree Plantation Programme.
- **Date of Activity** : 07/06/2022
- **No. of Participants** : Student, faculty & NSS volunteers.
- **Details of Activity** : As per instructions from, Shivaji University, Kolhapur on occasion of celebration of '75 Years Completion of India's Independence', NSS UNIT of BVCOEK arranged, 'World Environment Day & Tree Plantation Program. NSS Volunteers and NSS coordinator Mr.R.B.Lokapure, Departmental coordinators Mr.R.R.Suryawanshi, Mr.A.A.Tiwari and Mr.V.D.Chogule participated in this activity. On occasion of World Environment Day a session was arranged in College Auditorium. This session is delivered by Shri Raman Kulkarni (Hon.Wildlife Warden, Kolhapur) regarding awareness of protecting environment. Also, tree plantation programme is conducted in presence of Shri Raman Kulkarni.



Felicitation of Shri Raman Kulkarni by HOD Dr.R.K.Chougule & Mr.V.S.Kadam



Tree Plantation by Shri.Raman Kulkarni (Hon.WildlifeWarden, Kolhapur)



BHARATI VIDYAPEETH'S COLLEGE OF ENGINEERING, KOLHAPUR

- **Organizing Department** :Department of Civil Engineering
- **Name of Activity** : Celebration of, ``World Earth Day -2022``
- **Date of Activity** :22/04/2022
- **No. of Participants** : Student, faculty & NSS volunteers.
- **Details of Activity** : On occasion of world earth day various events were carried out by Civil Engineering Department which include Poster presentation, clay models and Stall of E -Vehicles and Renewable energy equipment's such as solar water heater e-bikes etc. Inauguration of this event is initiated by Principal Dr. Dr.V.R. Ghorpade. HOD civil Mr.V.S.Kadam, all head of department NSS coordinator Mr.R.B.Lokapure were present for same. This exhibition is open to all students as well as faculty members of college.





Poster presentation on occasion of world earth day 2022



BHARATI VIDYAPEETH'S COLLEGE OF ENGINEERING, KOLHAPUR

- **Organizing Department** : SHIVAJI UNIVERSITY, KOLHAPUR & NSS UNIT
 - **Name of Activity** : "CLEAN INDIA" Drive by, Ministry of Youth Affairs & Sports in Kolhapur City.
 - **Date of Activity** : 29/10/2021.
 - **No. of Participants** : NSS VOLUNTEERS
 - **Details of Activity** : "CLEAN INDIA" Plastic free drive was arranged by Shivaji University, Kolhapur near Rankala lake. NSS coordinator departmental coordinators and NSS volunteers participated in same along with NSS Unit of Shivaji University, Kolhapur. According to instructions from Dr. Abhay Jaybhaye (NSS Director Shivaji University Kolhapur), 04 NSS Volunteers from Bharati Vidyapeeth's college of Engineering, Kolhapur participated in above drive.
- Area Covered: Rankala Lake is covered volunteers collected waste plastic, bags, etc. In this drive Volunteers from E&TC and Mechanical Engg. Department had participated.

- **Photo: NSS Volunteers Collecting Plastic Waste.**





Plastic Waste Collection by NSS Volunteers



Inauguration of Drive-Hon.Dr.P.S. Patil (Pro-VC), Dr. Abhay Jaybhaye (Director-NSS)



Appreciation of Bharati Vidyapeeth's College of Engg Kolhapur-NSS Volunteers by Dr.P.S.Patil



Appreciation of Bharati Vidyapeeth's College of Engg. Kolhapur–NSS volunteers By Dr. Abhay Jaybhaye.



Rankala Lake View__After End of Drive.





BHARATI VIDYAPEETH'S

COLLEGE OF ENGINEERING, KOLHAPUR

- **Organizing Department :** NSS.UNIT BVCOEK
- **Name of Activity :** ``Mazi Vasundhara``Harit Shapath-Celebration Oath programme.
- **Date of Activity :** 05/01/2021.
- **No. of Participants:** NSS VOLUNTEERS
- **Details of Activity:** As per guidelines from Govt.of Maharashtra. And Shivaji University Kolhapur Bharati Vidyapeeth's college of Engineering Kolhapur arranged ``Mazi Vasundhara`` Programme in college campus on 05th January 2021 and of programme of taking-Harit Shapth. All HOD, teaching and non-Teaching staff NSS coordinator Mr.R.B.Lokapure, NSS.Volunteers were present for this activity.





Harit Shapth (oath) by Teaching Staff & NSS Volunteers.



BHARATI VIDYAPEETH'S COLLEGE OF ENGINEERING, KOLHAPUR

- **Organizing Department :** NSS UNIT BVCOEK
- **Name of Activity :** Programme Under , ``Azadi Ka Amrut Mahotsav``
Plastic free & Cleanliness Drive at Market Place R.K.Nagar
- **Date of Activity :** 27/05/2022
- **No. of Participants:** Student, faculty & NSS volunteers.
- **Details of Activity:** As per instructions from, Shivaji University, Kolhapur on occasion '75 Years Completion of Indian Independence', NSS UNIT of BVCOEK arranged Cleanliness Drive at R.K. Nagar Morewadi, Kolhapur Under ``Azadi Ka Amrutmahostav``. All NSS Volunteers and NSS CO-coordinator Mr.R.B.Lokapure, and departmental coordinators Mr.R.R.Suryawanshi, Mr.A.A.Tiwari and Mr.V.D.Chogule participated in this drive.



NSS Volunteers -Cleaning Temple & Road Area.



Participated Staff & NSS Volunteers



BHARATI VIDYAPEETH'S COLLEGE OF ENGINEERING, KOLHAPUR

- **Organizing Department:** NSS UNIT BVCOEK
- **Name of Activity** : Programme Under, 'Azadi Ka Amrut Mahotsav'' Cleanliness Drive At, 'Veer Shiva Kashid Samadhi Parisar''. Village -Nebapur.Tal-Panhala
- **Date of Activity** : 28/05/2022
- **No. of Participants:** Student, faculty & NSS volunteers.
- **Details of Activity:** As per instructions from, Shivaji University, Kolhapur and '75 Years Completion of Indian Independence'. NSS UNIT of BVCOEK arranged Cleanliness Drive Programme Under, 'Azadi Ka Amrutmahostav' 'at Village-Nebapur, Tal-Panhala Kolhapur. All NSS Volunteers and NSS coordinator Mr.R.B.Lokapure, Mr.R.R.Suryawanshi, Mr.A.A.Tiwari and Mr.V.D. Chougale participated in this drive. Area near 'Veer Shiva Kashid Samadhi Parisar'' is cleaned properly by Coordinators and volunteers.



NSS Volunteers at Veer Shiva Kashid Samadhi, Nebapur Panhala



NSS Volunteers Cleaning Samadhi Parisarat Nebapur Panahala.





BHARATI VIDYAPEETH'S COLLEGE OF ENGINEERING, KOLHAPUR

- **Organizing Department** : NSS unit
- **Name of Activity** : Celebration of No Vehicle Day at Institute
- **Date of Activity** : 27th - 28th July 2021
- **No. of Participants** : All students, faculty and staff members
- **Details of Activity:** As now a day's rise in pollution is very serious problem. To raise environmental sensitivity and awareness among students about the vehicular pollution. To create awareness about global warming caused by fossil fuel burn and its impact on Indian economy. To encourage for using the bicycles and public transportation system in reducing the carbon footprints. Bharati Vidyapeeth's College of Engineering Kolhapur decided to arrange no vehicle day in the college campus where in no bikes, cars or any polluting vehicle was allowed. All the faculty and students were told to use bicycles to mark the day. This type of activity will definitely help to lower the level of pollution which can be contribution of individual towards maintaining the healthy environment. For this everyone from the college showed interest from students, staff and teachers, everyone actively participated in this activity. This is an initiative taken by institute under the program of green environment initiated by the government.





Celebration of No Vehicle Day at Institute



BHARATI VIDYAPEETH'S COLLEGE OF ENGINEERING, KOLHAPUR

- **Organizing Department** : NSS.UNIT
- **Name of Activity** : ``Plastic Free Drive`` In Kolhapur City.
- **Date of Activity** : 02/07/2021
- **No. of Participants** : 08 NSS VOLUNTEERS
- **Details of Activity** : Social worker Shri K.D.Joshi and Social forum team in

Mukta Sainik Vasahat organized one day, 'Plastic free drive' in Kolhapur city in collaboration with NSS DEPT of Shivaji University, Kolhapur.

According to instructions from S.U.K. NSS Director NSS Volunteers from Bharati Vidyapeeth's college of Engineering, Kolhapur participated in above drive.

Area Covered-Mukt sainik vasahat colony area in this area volunteers collected waste plastic, bags, etc. Tararani Statue Circle-In this area all types of plastic waste is collected total number of 6 Bags are filled and collected for this. In this drive our Volunteers from E&TC and Mechanical Engg. Department is participated, NSS Volunteers-Abhinandan Jamdade, Shubham Bhatkar, Harshal Chavan, Sumed kamble, Omkar Darekar, Pranav Patil, Viki Sawant and Siddesh Vanjare .

- **Outcome of Activity** : Volunteers learnt about importance of plastic free drive, social awareness.





NSS Volunteers Collected Plastic Waste.



BHARATI VIDYAPEETH'S COLLEGE OF ENGINEERING, KOLHAPUR

- **Organizing Department:** NSS unit BVCOEK
- **Name of Activity:** 'VAN MAHOSTAVA' 23rd July 2019 Tree Plantation Programme.
- **Date of Activity :** 23rd July 2019
- **No. of Participants:** 25
- **Details of Activity:** As per guidelines from Government of Maharashtra. (Forestry Dept.) and Shivaji University, Kolhapur. Bharati Vidyapeeth's college of Engineering Kolhapur arranged Tree plantation drive in college campus on 23rd July 2019. Tree plantation programme is conducted in presence of Regional Director Dr.H.M.Kadam, Principal Dr.V.R.Ghorpade, Principal College of Pharmacy Kolhapur Dr.H.N.More, all HODS's teaching And Non-Teaching staff, NSS coordinators Mr.R.B.Lokapure & Physical Director Mr.H.B.Patil and NSS.Volunteers were present for same. In this plantation programme various Jungle trees such as Kanchan, Karanj Jambhul, Vad, and Kadamba & Behda etc. planted in our College Campus total 100 various types of trees planted.



Tree plantation by Dr.H.M.kadam (Regional Director.)

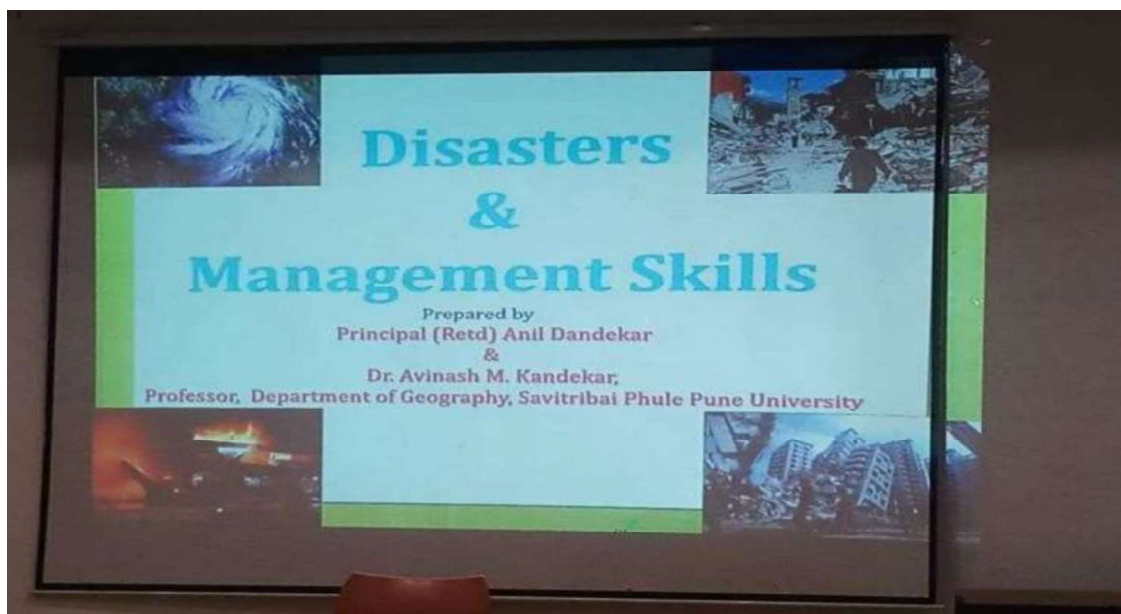


Tree plantation by Principal Dr.V.R.Ghorpade



BHARATI VIDYAPEETH'S COLLEGE OF ENGINEERING, KOLHAPUR

- **Organizing Department:** Disaster Management Cell
- **Name of Activity:** - Seminar on, 'Disaster Management.'
- **Name of coordinator:** - Mr. R. B.Lokapure.
- **Resource Person:** - Dr.Anil Dandekar. (Ex. Retired Principal)
- **Date of Activity:** - 15/01/2019.
- **Participants:** - NSS.Co-ordinator, NSS.Volunteers, B.E. Students and Staff
- **Details of Activity:** - On 15 January 2019 all volunteers and members are present at college Auditorium. Dr.Anil Dandekar delivered informative lecture on, Disaster Management with aid of power point presentation, also he given information about various types of Natural calamities and roll of NSS Volunteers on this occasion of disasters. We all NSS Volunteers & Programme coordinator Mr..R.B.Lokapure, and all teaching staff is benefited by his informative & useful lecture. Outcome of Activity: - After this programme all NSS volunteers & all students is got information and its importance @ Disaster Management.





Felicitaton Of Guest.-Dr. Anil Dandekar By Nss .Volunteers.



BHARATI VIDYAPEETH'S COLLEGE OF ENGINEERING, KOLHAPUR

- **Organizing Department:** National Service Scheme (NSS) UNIT
- **Name of Activity:** Tree Plantation Programme
- **Date** : 10th JULY 2018
- **Venue** : College Campus
- **No. of Participants:** Principal, HOD'S Teaching & Nonteaching Staff With 100 NSS Volunteers
- **Details of Activity:** As per guidelines from Govt. Of Maharashtra. (Forestry Dept.) and Shivaji University, Kolhapur. Bharati Vidyapeeth college of Engineering Kolhapur arranged Tree plantation drive in college campus on 10th July 2018. In this programme various trees such as Behda, Neem, Vad, Mango, Nilgiri, Ashok etc. planted. For this programme Dr. H.M. Kadam (Regional Director Sangli, Kolhapur, College Dr. V.R. Ghorpade Principal Bharati Vidyapeeth; s college of Engineering. Kolhapur, Pharmacy College Dr. H.N. More Principal Bharati Vidyapeeth; s college of Pharmacy. Kolhapur. All HOD, teaching and Non-Teaching staff also R.B. Lokapure NSS .Coordinator, all NSS. Volunteers were present. In this tree plantation activity in college campus total 100 various types of trees were planted.
- **Outcome of Activity :** Volunteers learnt about importance of tree plantation for survive of our life



Tree Plantation in college campus



Tree Plantation by Hon. Dr.H.M.Kadam (Regional Director) Principal Dr.S.S. Patil & NSS.Volunteer



BHARATI VIDYAPEETH'S COLLEGE OF ENGINEERING, KOLHAPUR

- **Organizing Department:** National Service Scheme (NSS) UNIT & Civil Engg. Dept.
- **Name of Activity:** Swachata Abhiyan Programme On the Occasion of the Birthday of Hon. Dr. Patangrao Kadam & Dr. Viswajeet Kadam.
- **Date:** 13th January 2017
- **Venue:** College Campus
- **No. of Participants:** Principal, HOD'S, Teaching & Non-teaching Staff With 100 NSS Volunteers
- **Detail Of Activity:** On the occasion of the Birthday of Hon. Dr. Patangrao Kadam and Dr. Viswajeet Kadam, our Bharati Vidyapeeth's College of Engineering arranged Swachata Abhiyan Programme on Dt-13/01/2017. From 09.30 am to 2.00 pm. Inauguration of this programme is done by the hand of, Dr. Vijay R. Ghorpade Principal Bharati Vidyapeeth's College of Engineering, Kolhapur and Rahul Kadam Administrative Officer. All HOD, teaching and Non-Teaching staff are also NSS. coordinator R.B. Lokapure, all NSS Volunteers were present. In this programme, in our college campus, the total Campus area is totally cleaned also waste and scrap materials, and broken Bottles are collected. For the successful arrangement of this Camp, Teaching and non-teaching Staff All college students & NSS Volunteers from Mechanical, Civil, E&TC, CSE etc. have participated in this drive
- **Outcome of Activity:** Volunteers learnt about the importance of cleanliness and the benefits of a Green and Clean environment.