	<p style="text-align: center;">S J P N Trust's  <b>Hirasugar Institute of Technology, Nidasoshi</b>  <i>Inculcating Values, Promoting Prosperity</i>          Approved by AICTE, Recognized by Govt. of Karnataka and Affiliated to VTU Belagavi.  <b>Accredited at 'A' Grade by NAAC</b>  <b>Programmes Accredited by NBA: CSE, ECE, EEE &amp; ME</b></p>	<b>Institute</b>
		<b>NAAC</b>
		<b>1.3.1</b>
		<b>2021-22</b>

### List of Supporting Documents for 1.3.1 NAAC Criteria

Sl.No	Name of Supporting Document
1	Environmental related & Professional Ethics subjects syllabus
2	Environment related Projects
3	List of Activities conducted in Department
4	Environment related Subjects
5	List of training Activities
7	Women Empowerment Cell Activity
8	Nss Association Activites

# CONSTITUTION OF INDIA, PROFESSIONAL ETHICS AND CYBER LAW (CPC)

Course Code	: 18CPC39/49	CIE Marks : 40
Lecture Hours/Week (L:T:P)	: (1:0:0)	SEE Marks : 60
<b>Credits : 01</b>		Exam Hours : 02

## Course Learning Objectives: To

- know the fundamental political codes, structure, procedures, powers, and duties of Indian government institutions, fundamental rights, directive principles, and the duties of citizens
- Understand engineering ethics and their responsibilities; identify their individual roles and ethical responsibilities towards society.
- Know about the cybercrimes and cyber laws for cyber safety measures.

## Module-1

### Introduction to Indian Constitution:

The Necessity of the Constitution, The Societies before and after the Constitution adoption. Introduction to the Indian constitution, The Making of the Constitution, The Role of the Constituent Assembly - Preamble and Salient features of the Constitution of India. Fundamental Rights and its Restriction and limitations in different Complex Situations. Directive Principles of State Policy (DPSP) and its present relevance in our society with examples. Fundamental Duties and its Scope and significance in Nation building.

## Module-2

### Union Executive and State Executive:

Parliamentary System, Federal System, Centre-State Relations. Union Executive – President, Prime Minister, Union Cabinet, Parliament - LS and RS, Parliamentary Committees, Important Parliamentary Terminologies. Supreme Court of India, Judicial Reviews and Judicial Activism. State Executives – Governor, Chief Minister, State Cabinet, State Legislature, High Court and Subordinate Courts, Special Provisions (Articles 370, 371, 371J) for some States.

## Module-3

### Elections, Amendments and Emergency Provisions:

Elections, Electoral Process, and Election Commission of India, Election Laws. Amendments - Methods in Constitutional Amendments (How and Why) and Important Constitutional Amendments. Amendments – 7, 9, 10, 12, 42, 44,

61, 73, 74, 75, 86 and 91, 94, 95, 100, 101, 118 and some important Case Studies. Emergency Provisions, types of Emergencies and its consequences.

**Constitutional special provisions:**

Special Provisions for SC and ST, OBC, Women, Children and Backward Classes.

**Module-4**

**Professional / Engineering Ethics:**

Scope & Aims of Engineering & Professional Ethics - Business Ethics, Corporate Ethics, Personal Ethics. Engineering and Professionalism, Positive and Negative Faces of Engineering Ethics, Code of Ethics as defined in the website of Institution of Engineers (India): Profession, Professionalism, and Professional Responsibility. Clash of Ethics, Conflicts of Interest. Responsibilities in Engineering Responsibilities in Engineering and Engineering Standards, the impediments to Responsibility. Trust and Reliability in Engineering, IPRs (Intellectual Property Rights), Risks, Safety and liability in Engineering

**Module-5**

**Internet Laws, Cyber Crimes and Cyber Laws:**

Internet and Need for Cyber Laws, Modes of Regulation of Internet, Types of cyber terror capability, Net neutrality, Types of Cyber Crimes, India and cyber law, Cyber Crimes and the information Technology Act 2000, Internet Censorship. Cybercrimes and enforcement agencies.

**Course Outcomes:** On completion of this course, students will be able to,

1. Describe and analyze the role and salient features of the Indian Constitution
2. Understand the structure and powers of the Union and State Executives.
3. Relate to the procedures and provisions in the electoral process.
4. Develop Engineering and Professional ethics and adopt the responsibilities expected of an Engineer.
5. Identify the cybercrimes and describe the cyber laws for cyber safety measures.

**Question paper pattern for SEE and CIE:**

- The SEE question paper will be set for 100 marks and the marks scored by the students will proportionately be reduced to 60. The pattern of the question paper will be objective type (MCQ).
- For the award of 40 CIE marks, refer the University regulations 2018.

**Textbook/s**

1. Constitution of India, Professional Ethics and Human Rights, Shubham Singles, Charles E. Haries, and et al, Cengage Learning India, 2018



B. E. Common to all Branches Choice Based Credit System (CBCS) and Outcome Based Education (OBE) SEMESTER – V				
ENVIRONMENTAL STUDIES				
Course Code	18CIV59	CIE Marks	40	
Teaching Hours / Week (L:T:P)	(1:0:0)	SEE Marks	60	
Credits	01	Exam Hours	02	
Module - 1				
Ecosystems (Structure and Function): Forest, Desert, Wetlands, Riverine, Oceanic and Lake. Biodiversity: Types, Value; Hot-spots; Threats and Conservation of biodiversity, Forest Wealth, and Deforestation.				
Module - 2				
Advances in Energy Systems (Merits, Demerits, Global Status and Applications): Hydrogen, Solar, OTEC, Tidal and Wind. Natural Resource Management (Concept and case-studies): Disaster Management, Sustainable Mining, Cloud Seeding, and Carbon Trading.				
Module - 3				
Environmental Pollution (Sources, Impacts, Corrective and Preventive measures, Relevant Environmental Acts, Case-studies): Surface and Ground Water Pollution; Noise pollution; Soil Pollution and Air Pollution. Waste Management & Public Health Aspects: Bio-medical Wastes; Solid waste; Hazardous wastes; E-wastes; Industrial and Municipal Sludge.				
Module - 4				
Global Environmental Concerns(Concept, policies and case-studies):Ground water depletion/recharging, Climate Change; Acid Rain; Ozone Depletion; Radon and Fluoride problem in drinking water; Resettlement and rehabilitation of people, Environmental Toxicology.				
Module - 5				
Latest Developments in Environmental Pollution Mitigation Tools (Concept and Applications): G.I.S. & Remote Sensing, Environment Impact Assessment, Environmental Management Systems, ISO14001; Environmental Stewardship- NGOs. Field work: Visit to an Environmental Engineering Laboratory or Green Building or Water Treatment Plant or Waste water treatment Plant; ought to be Followed by understanding of process and its brief documentation.				
Course outcomes: At the end of the course, students will be able to:				
<ul style="list-style-type: none"><li>Understand the principles of ecology and environmental issues that apply to air, land, and water issues on a global scale,</li><li>Develop critical thinking and/or observation skills, and apply them to the analysis of a problem or question related to the environment.</li><li>Demonstrate ecology knowledge of a complex relationship between biotic and a biotic components.</li><li>Apply their ecological knowledge to illustrate and graph a problem and describe the realities that managers face when dealing with complex issues.</li></ul>				
Question paper pattern:				
<ul style="list-style-type: none"><li>The Question paper will have 100 objective questions.</li><li>Each question will be for 01 marks</li><li>Student will have to answer all the questions in an OMR Sheet.</li><li>The Duration of Exam will be 2 hours.</li></ul>				
Sl. No.	Title of the Book	Name of the Author/s	Name of the Publisher	Edition and Year
Textbook/s				
1	Environmental Studies	Benny Joseph	Tata McGraw – Hill.	2 <sup>nd</sup> Edition, 2012
2	Environmental Studies	S M Prakash	Pristine Publishing House, Mangalore	3 <sup>rd</sup> Edition 2018
3	Environmental Studies – From Crisis to Cure	R Rajagopalan	Oxford Publisher	2005
Reference Books				
1	Principals of	Raman Sivakumar	Cengage learning,	2 <sup>nd</sup> Edition, 2005



B. E. Common to all Programmes				
Choice Based Credit System (CBCS) and Outcome Based Education (OBE)				
SEMESTER - III				
CONSTITUTION OF INDIA, PROFESSIONAL ETHICS AND CYBER LAW (CPC)				
Course Code	18CPC39/49	CIE Marks	40	
Teaching Hours/Week (L:T:P)	(1:0:0)	SEE Marks	60	
Credits	01	Exam Hours	02	
<b>Course Learning Objectives: To</b>				
<ul style="list-style-type: none"><li>• know the fundamental political codes, structure, procedures, powers, and duties of Indian government institutions, fundamental rights, directive principles, and the duties of citizens</li><li>• Understand engineering ethics and their responsibilities; identify their individual roles and ethical responsibilities towards society.</li><li>• Know about the cybercrimes and cyber laws for cyber safety measures.</li></ul>				
<b>Module-1</b>				
<b>Introduction to Indian Constitution:</b>				
The Necessity of the Constitution, The Societies before and after the Constitution adoption. Introduction to the Indian constitution, The Making of the Constitution, The Role of the Constituent Assembly - Preamble and Salient features of the Constitution of India. Fundamental Rights and its Restriction and limitations in different Complex Situations. Directive Principles of State Policy (DPSP) and its present relevance in our society with examples. Fundamental Duties and its Scope and significance in Nation building.				
<b>Module-2</b>				
<b>Union Executive and State Executive:</b>				
Parliamentary System, Federal System, Centre-State Relations. Union Executive – President, Prime Minister, Union Cabinet, Parliament - LS and RS, Parliamentary Committees, Important Parliamentary Terminologies. Supreme Court of India, Judicial Reviews and Judicial Activism. State Executives – Governor, Chief Minister, State Cabinet, State Legislature, High Court and Subordinate Courts, Special Provisions (Articles 370,371,371J) for some States.				
<b>Module-3</b>				
<b>Elections, Amendments and Emergency Provisions:</b>				
Elections, Electoral Process, and Election Commission of India, Election Laws. Amendments - Methods in Constitutional Amendments (How and Why) and Important Constitutional Amendments. Amendments – 7,9,10,12,42,44, 61, 73,74, ,75, 86, and 91,94,95,100,101,118 and some important Case Studies. Emergency Provisions, types of Emergencies and its consequences.				
<b>Constitutional special provisions:</b>				
Special Provisions for SC and ST, OBC, Women, Children and Backward Classes.				
<b>Module-4</b>				
<b>Professional / Engineering Ethics:</b>				
Scope & Aims of Engineering & Professional Ethics - Business Ethics, Corporate Ethics, Personal Ethics. Engineering and Professionalism, Positive and Negative Faces of Engineering Ethics, Code of Ethics as defined in the website of Institution of Engineers (India): Profession, Professionalism, and Professional Responsibility. Clash of Ethics, Conflicts of Interest. Responsibilities in Engineering Responsibilities in Engineering and Engineering Standards, the impediments to Responsibility. Trust and Reliability in Engineering, IPRs (Intellectual Property Rights), Risks, Safety and liability in Engineering				
<b>Module-5</b>				
<b>Internet Laws, Cyber Crimes and Cyber Laws:</b>				
Internet and Need for Cyber Laws, Modes of Regulation of Internet, Types of cyber terror capability, Net neutrality, Types of Cyber Crimes, India and cyber law, Cyber Crimes and the information Technology Act 2000, Internet Censorship. Cybercrimes and enforcement agencies.				
<b>Course Outcomes:</b> On completion of this course, students will be able to,				
CO 1: Have constitutional knowledge and legal literacy.				
CO 2: Understand Engineering and Professional ethics and responsibilities of Engineers.				
CO 3: Understand the the cybercrimes and cyber laws for cyber safety measures.				
<b>Question paper pattern for SEE and CIE:</b>				
<ul style="list-style-type: none"><li>• The SEE question paper will be set for 100 marks and the marks scored by the students will proportionately be reduced to 60. The pattern of the question paper will be objective type (MCQ).</li><li>• For the award of 40 CIE marks, refer the University regulations 2018.</li></ul>				
Sl.	Title of the Book	Name of the	Name of the	Edition and Year





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**ECE Dept**

Students Project

Environment Project


2021-22

**Electronics and Communication Engineering Department****Environment Related Final Year Project Details 2021-22**

Batch No.	USN	Student Name	Project Title	Guide
1	2HN18EC017	PAVANKUMAR K	Environment Friendly Reverse Vending Machine for Rural India	Prof. P. V. Patil
	2HN18EC019	PRATHAMESH S K		
	2HN18EC022	RAMAKUMAR KAMAGOUD		
	2HN18EC024	RAVIKIRAN T KADAM		

*P. V. Patil*  
17.01.23  
**HOD**

Electronics & Communication Engg.  
Hirasugar Institute of Technology,  
Nidasoshi-591 236

	<p style="text-align: center;">S J P N Trust's</p> <p style="text-align: center;"><b>Hirasugar Institute of Technology, Nidasoshi.</b></p> <p style="text-align: center;">Inculcating Values, Promoting Prosperity</p> <p style="text-align: center;">Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi</p> <p style="text-align: center;">Recognized under 2(f) &amp; 12B of UGC Act, 1956</p> <p style="text-align: center;">Accredited at 'A' Grade by NAAC &amp; Programmes Accredited by NBA:CSE &amp; ECE</p>	Institute
		ECE Dept
		Criteria 1/ Activities
		2021-22

### List of Activities conducted in Electronics and Communication Department

Sl. No.	Name of the Event	Resource Person	Event Coordinators	Date
01	Webinar on "Psychological Impact of COVID-19 and Ways to Overcome"	Dr. Jyothi Vijayakumar, Professor & Head, Dept. of Medicine A.M.Shaikh Homoeopathic Medical College, Belagavi	Dr. R. R. Maggavi Prof. D. B. Madihalli	03/07/2021
02	Webinar on "Project Management & Accounting"	Mrs. Rajeshwari Adahalli, Lecturer, Commerce College, SJPN PU College, Nidasoshi	Prof. S. S. Malaj	13/07/2021
03	Lecture on "Pedagogical Initiatives"	Prof. S. B. Akkole Assistant Professor, HIT, Nidasoshi	Prof. S. B. Akkole Prof. D. B. Madihalli	30/09/2021
04	Technical Talk on "Deep Learning & Its Applications"	Dr. Mahadevaswamy Assistant Professor VVCE, Mysore	Prof. D. B. Madihalli Prof. S. S. Ittannavar Prof. B. P. Khot	29/10/2021
05	Technical Talk on "Robotics & Automation"	Mr. Neelesh Chougule, Chairman & Managing Director, Creintors Group of Companies, Belagavi Miss. Disha N. Chougale Director Creintors Group Of Companies, Belagavi	Dr. R. R. Maggavi Prof. D. M. Kumbhar	17/11/2021
06	Hands on training on "Introduction to Arduino Programming & Tinkercad"	Dr. R. R. Maggavi, Associate Professor, HIT, Nidasoshi	Prof. P. V. Patil	03/12/2021 & 10/12/2021
07	Workshop on "IOT and Arduino IDE"	Mr. Vinayak R. Dhongadi Co-founder, AMSA Embedded Solutions, Hubli Mr. Rajesh P. Chavan R&D Engineer, AMSA Embedded Solutions, Hubli	Prof. S. S. Kamate Prof. D. B. Madihalli Prof. S. S. Ittannavar	16/12/2021 to 18/12/2021
08	Workshop on "PCB Design & Testing"	Mr. Tulasidas Salunke Electrosal High Tech. Pvt. Ltd, Nippani	Prof. S. S. Malaj Prof. D. M. Kumbhar Prof. S. S. Patil	16/12/2021 to 19/12/2021

  
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Dept of Civil  
Engg


NAAC

2021- 22


## **ENVIRONMENTAL RELATED SUBJECTS**

### **❖ 18 SCHEME SYLLABUS**

Sl.No	Subject code	Subject Name
1	18CV36	Engineering geology
2	18CV46	Water supply & treatment engineering

	<p style="text-align: center;">S J P N Trust's Hirasugar Institute of Technology, Nidasoshi. <i>Inculcating Values, Promoting Prosperity</i></p> <p style="text-align: center;">Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under 2(f) &amp; 12B of UGC Act, 1956 Accredited at 'A' Grade by NAAC &amp; Programmes Accredited by NBA:CSE &amp; ECE</p>	Dept of Civil Engg
		NAAC
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<p style="text-align: center;"><b>B. E. CIVIL ENGINEERING</b> <b>Choice Based Credit System (CBCS) and Outcome Based Education (OBE)</b> <b>SEMESTER - III</b></p>			
<b>ENGINEERING GEOLOGY</b>			
Course Code	<b>18CV36</b>	CIE Marks	40
Teaching Hours/Week(L:T:P)	(3:0:0)	SEE Marks	60
Credits	03	Exam Hours	03
<p style="text-align: center;"><b>Course Learning Objectives:</b> This course will enable students;</p> <ol style="list-style-type: none"> <li>1. To inculcate the importance of earth's interior and application of Geology in civil engineering. Attempts are made to highlight the industrial applications of minerals.</li> <li>2. To create awareness among Civil engineers regarding the use of rocks as building materials.</li> <li>3. To provide knowledge on dynamic Geology and its importance in modifying the physical character of rocks which cause rocks suitable or unsuitable in different civil engineering projects such as Dams, bridges, tunnels and highways.</li> <li>4. To educate the ground water management regarding diversified geological formations, climatologically dissimilarity which are prevailed in the country. To highlight the concept of rain water harvesting.</li> <li>5. To understand the application of Remote Sensing and GIS, Natural disaster and management and environmental awareness.</li> </ol>			
<b>Module-1</b>			
<p><b>Introduction:</b> Application of Geology in Civil Engineering Practices, Understanding the earth, internal structure and composition.</p> <p><b>Mineralogy:</b> Mineral properties, composition and their use in the manufacture of construction materials – Quartz Group (Glass); Feldspar Group (Ceramic wares and Flooring tiles); Kaolin (Paper, paint and textile); Asbestos (AC sheets); Carbonate Group (Cement); Gypsum (POP, gypsum sheets, cement); Mica Group (Electrical industries); Ore minerals - Iron ores (Steel); Chro mite (Alloy); Bauxite (aluminum); Chalcopryite (copper).</p>			
<b>Module-2</b>			
<p><b>Petrology &amp; Geomorphology:</b> Formation, Classification and Engineering Properties of: <b>Igneous rocks</b>-Types of Granite, Dolerite, Basalt, Pumice, Granite Porphyry. <b>Sedimentary Rocks</b>- Sandstone, Limestone, Shale, Late rite, Conglomerate. <b>Metamorphic Rocks</b>- Gneiss, Slate, Muscovite &amp; Biotite schist, Marble, Quartzite. Rock weathering: types and their effects on Civil Engineering Projects. Landforms, Drainage pattern and types. Soil formation and soil profile. The apprehension of Index properties of rocks: Porosity, Density, Permeability, and Durability. Selection of rocks as materials for construction, as a foundation, Decorative, Flooring, and Roofing, Concrete Aggregate, Road Metal, Railway Ballast with examples.</p>			
<b>Module-3</b>			
<p><b>Structural Geology &amp; Rock Mechanics:</b> Structural aspects of rocks like Outcrop, Dip and strike, Folds, Faults, Joints, Unconformities and their influence on Engineering Projects/structures like dam, tunnels, slope treatment; ground improvement, recognition of the structures in field and their types/classification. Rock Quality Determination (RQD) &amp; Rock Structure Rating (RSR). Geological site characterization: Dam foundations and rock Foundation treatment for dams and Reservoirs heavy structures by grouting and rock reinforcement.</p> <p>Tunnels: Basic terminology and application, site investigations, Coastlines and their engineering considerations.</p>			
<b>Module-4</b>			
<p><b>Hydrogeology:</b> Hydrological cycle, Vertical distribution of groundwater, artesian groundwater in soil and rock. Water Bearing Formations, Aquifer and its types – Aquitard, Aquifuge, and Aquiclude. Porosity, Specific yield and retention, Permeability, Transmissibility and Storage Coefficient. Determination of Quality - SAR, RSC and TH of Groundwater. Groundwater Exploration- Electrical Resistivity and Seismic methods, Artificial Recharge of Groundwater, Rain water harvesting and methods, Seawater intrusion in coastal areas and remedies. Groundwater Pollution. Floods and its control, Cyclone and its effects.</p>			
<b>Module-5</b>			

	<p style="text-align: center;"><b>S J P N Trust's</b>  <b>Hirasugar Institute of Technology, Nidasoshi.</b>  <i>Inculcating Values, Promoting Prosperity</i>          Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi          Recognized under 2(f) &amp; 12B of UGC Act, 1956          Accredited at 'A' Grade by NAAC &amp; Programmes Accredited by NBA:CSE &amp; ECE</p>	<b>Dept of Civil Engg</b>
		<b>NAAC</b>
		<b>2021- 22</b>

**Seismology and Geodesy:** Earthquake - Causes and Effects, Seismic waves, engineering problems related to Earthquakes, Earthquake intensity, Richter scale, Seismograph, Seismic zones- World and India. Tsunami causes and effects, Volcanic Eruptions. Landslides (Mass movements) causes, types and remedial measures –stability assessment for soil and rock slopes. Study of Topographic maps and Contour maps; Remote Sensing – Concept, Application and its Limitations; Geographic Information System (GIS) and Global Positioning System (GPS) –

Concept and their use resource mapping. Aerial Photography, LANDSAT Imagery – Definition and its use. Impact of Mining, Quarrying and Reservoirs on Environment. Natural Disasters and their mitigation

**Course outcomes:** After a successful completion of the course, the student will be able to:

1. Apply geological knowledge in different civil engineering practice.
2. Students will acquire knowledge on durability and competence of foundation rocks, and confidence enough to use the best building materials.
3. Civil Engineers are competent enough for the safety, stability, economy and life of the structures that they construct.
4. Able to solve various issues related to ground water exploration, build up dams, bridges, tunnels which are often confronted with ground water problems.
5. Intelligent enough to apply GIS, GPS and remote sensing as a latest tool in different civil engineering construction.

**Question paper pattern:**

- The question paper will have ten full questions carrying equal marks.
- Each full question will be for 20 marks.
- There will be two full questions (with a maximum of four sub- questions) from each module.
- Each full question will have sub- question covering all the topics under a module.
- The students will have to answer five full questions, selecting one full question from each module.


**Textbooks:**

1. P.K. Mukerjee, “A Text Book of Geology”, World Press Pvt., Ltd. Kolkatta.
2. Parbin Singh, “Text Book of Engineering and General Geology”, Published by S.K. Kataria and Sons, New Dehli.


**Reference Books:**

1. Earthquake Tips - Learning Earthquake Design and Construction - C V R Murthy Published by National Information Centre of Earthquake Engineering, Indian Institute of Technology, Kanpur. Dimitri P Krynine and William R Judd, “Principles of Engineering Geology and Geotechnics”, CBS Publishers and Distributors, New Delhi.
2. K V G K Gokhale, “Principles of Engineering Geology”, B S Publications, Hyderabad.
3. M Anji Reddy, “Text book of Remote Sensing and Geographical Information System”, BS Publications, Hyderabad.
5. M Anji Reddy, “Text book of Remote Sensing and Geographical Information System”, BS Publications, Hyderabad.
6. Ground water Assessment, development and Management by K.R. Karanth, Tata Mc Graw Hills
7. K. Todd, “Groundwater Hydrology”, Tata Mac Grow Hill, New Delhi.
8. D. Venkata Reddy, “Engineering Geology”, New Age International Publications, New Delhi.
9. S.K Duggal, H.K Pandey and N Rawal, “Engineering Geology”, McGrawHill Education (India) Pvt. Ltd. Ne Delhi.
10. M.P Billings, “Structural Geology”, CBS Publishers and Distributors, New Delhi.
11. K. S. Valdiya, “Environmental Geology”, Tata Mc Grew Hills.
12. M. B. Ramachandra Rao, “Outlines of Geophysical Prospecting- A Manual for Geologists”, Prasaraanga, University of Mysore, Mysore



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		<b>2021- 22</b>

<b>B. E. CIVIL ENGINEERING</b> <b>Choice Based Credit System (CBCS) and Outcome Based Education (OBE)</b> <b>SEMESTER - IV</b>			
<b>WATER SUPPLY AND TREATMENT ENGINEERING</b>			
Course Code	<b>18CV46</b>	CIE Marks	40
Teaching Hours/Week(L:T:P)	(3:0:0)	SEE Marks	60
Credits	03	Exam Hours	03
<b>Course Learning Objectives:</b> This course will enable students to 1. Analyze the variation of water demand and to estimate water requirement for a community. 2. Evaluate the sources and conveyance systems for raw and treated water. 3. Study drinking water quality standards and to illustrate qualitative analysis of water. 4. Design physical, chemical and biological treatment methods to ensure safe and potable water Supply.			
<b>Module -1</b>			
<b>Introduction:</b> Need for protected water supply. Demand of Water: Types of water demands -domestic demand, industrial, institutional and commercial, public use, fire demand estimation, factors affecting per capita demand, Variations in demand of water, Peak factor. <b>Design period</b> and factors governing design period. Methods of population forecasting and numerical problems			
<b>Module -2</b>			
<b>Water Treatment:</b> Objectives, Unit flow diagrams – significance of each unit: Sources and Characteristics of surface and subsurface sources and Suitability. Sampling : Objectives, methods and preservation techniques. Drinking water quality standards as per BIS. Effect of water quality parameters. <b>Intake structures</b> – types. Factors to be considered in selection of site for intake structures. Aeration process, limitations, types and two film theory.			
<b>Module -3</b>			
<b>Sedimentation</b> -theory, settling tanks, types and design. Coagulation and flocculation, Clariflocculators (circular and rectangular). theory, types of coagulants, coagulant feeding devices. Jar test apparatus and estimation of coagulants. <b>Filtration:</b> mechanism, theory of filtration, types of filters: slow sand, rapid sand and pressure filters. Operation, cleaning. Operational problems in filters. Design of slow and rapid sand filter without under drainage system			
<b>Module -4</b>			
<b>Disinfection:</b> Theory of disinfection. Methods of disinfection with merits and demerits. Chlorination: Break point chlorination and determination of chlorine demand. Estimation of quantity bleaching powder. <b>Miscellaneous treatment Process:</b> Softening: Lime soda and Zeolite process. Estimation of Hardness. Fluoridation and De-fluoridation, Nalagonda Technique. RO and Nano filtration process with merits and demerits.			
<b>Module -5</b>			

	<p style="text-align: center;">S J P N Trust's Hirasugar Institute of Technology, Nidasoshi. <i>Inculcating Values, Promoting Prosperity</i></p> <p style="text-align: center;">Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under 2(f) &amp; 12B of UGC Act, 1956 Accredited at 'A' Grade by NAAC &amp; Programmes Accredited by NBA:CSE &amp; ECE</p>		Dept of Civil Engg
			NAAC
			2021- 22


**Collection and Conveyance of water:** Types of pumps with working principles and numerical Problems. Design of the economical diameter for the rising main.

Pipe appurtenances, Valves, Fire hydrants and different Pipe materials with their advantages and disadvantages. Factors affecting selection of pipe material.

**Distribution system:** Methods: Gravity, Pumping and Combined gravity and pumping system. Types of Distribution system. Service reservoirs and their capacity determination plant units and distribution system with population forecasting for the given city.

**Course Outcomes:** After studying this course, students will be able to:

1. Estimate average and peak water demand for a community.
2. Evaluate available sources of water, quantitatively and qualitatively and make appropriate choice for a community.
3. Evaluate water quality and environmental significance of various parameters and plan suitable treatment system.
4. Design a comprehensive water treatment and distribution system to purify and distribute water to the required quality standards.

	<b>S J P N Trust's</b> <b>Hirasugar Institute of Technology, Nidasoshi.</b> <i>Inculcating Values, Promoting Prosperity</i>	<b>Dept of Civil Engg</b>
	Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under 2(f) & 12B of UGC Act, 1956 Accredited at 'A' Grade by NAAC & Programmes Accredited by NBA:CSE & ECE	<b>NAAC</b>
		<b>2021- 22</b>

**Question paper pattern:**

- The question paper will have ten full questions carrying equal marks.
- Each full question will be for 20 marks.
- There will be two full questions (with a maximum of four sub- questions) from each module.
- Each full question will have sub- question covering all the topics under a module.
- The students will have to answer five full questions, selecting one full question from each module.


**Textbooks:**

1. Howard S. Peavy, Donald R. Rowe, George T , Environmental Engineering - McGraw Hill International Edition. New York,2000
2. S. K. Garg, Environmental Engineering vol-I, Water supply Engineering – M/s Khanna Publishers, New Delhi2010
3. B.C. Punmia and Ashok Jain, Environmental Engineering I-Water Supply Engineering, Laxmi Publications (P) Ltd., New Delhi2010.

**Reference Books:**


1. CPHEEO Manual on water supply and treatment engineering, Ministry of Urban Development, Government of India, New Delhi.
2. Mark.J Hammer, Water & Waste Water Technology, John Wiley & Sons Inc., New York,2008.



	<p align="center"><b>S J P N Trust's</b>  <b>Hirasugar Institute of Technology, Nidasoshi</b>  <i>Inculcating Values, Promoting Prosperity</i>          Approved by AICTE, Recognized by Govt. of Karnataka and Permanently Affiliated to VTU, Belagavi.  <b>Accredited at 'A' Grade by NAAC</b>  <b>Programmes Accredited by NBA: CSE &amp; ECE</b>  <b>TRAINING AND PLACEMENT CELL</b></p>	<b>TP Cell</b>
		<b>Training</b>
		<b>Training Activities</b>
		<b>2021-22</b>

## **Training Activities details for AY: 2021-22**

S.N.	Name of the Training	Date of Conduction	By whom	Details
1	Orientation Program on “Pre-Placement Activities”	10/11/2021	Mr. Manjunath Aradhya Founder & CEO, ABC, Bengaluru	Final Year & Pre-Final Year All Branch Students
2	Seminar on “Cloud Technology”	11/11/2021	Miss. Priyanka H, Senior Team Lead at HP, Bengaluru	Final Year All Branch Students
3	CREA (Coaching for Recruitment and Empowerment of Actions) Training Program (64 Hours)	15/11/2021 to 24/11/2021	Innovation Unlimited Training Services, Bengaluru	Final Year students CSE : 31 students attended ECE- 22 students attended EEE -20 students attended ME-04 students attended
4	A Talk on “Robotics & Automation”	17/11/2021	Mr. Neelesh B. Chougule, Chairman & MD, Creintors Group of Companies & Mrs. Disha N. Chougule, Director, Creintors Automation Solution Pvt. Ltd.	All Branch 2 <sup>nd</sup> & 3 <sup>rd</sup> Year Students
5	Interactive Session on “Awareness & Career Opportunities in Full Stack”	11/12/2021	Mr.Rohit Ravinder Founder & CEO, TAP Academy, Bengaluru	<b>5<sup>th</sup> Sem: 62</b> CSE : 37 students attended ECE- 25students attended EEE -00 students attended <b>7<sup>th</sup> Sem: 27</b> CSE : 17 students attended ECE- 05students attended EEE -05 students attended
6	Techno-Functional Talk Event for 30 Minute on Latest Industrial Revolution & Career Guidance	30/12/2021	Ms.Divya Shree S Business Development Executive Technologies Global Pvt Ltd.	3 <sup>rd</sup> Year (ME,EEE,ECE Branch Students)
7	Inaugural Function of “JAVA Full Stack Course” Sponsored by Karnataka State Skill Development Corporation Govt. of Karnataka	11/01/2022	CADMAXX Solution Pvt. Ltd, Bengaluru	<b>7<sup>th</sup> Sem: 49</b> CSE : 12 students attended ECE- 26students attended EEE -11 students attended
8	45 Days Online Free Foudation Certificate Course on Spoken English, Basic Computer Skills, Resume Preparation & Interview Skills.with Placement Supports	Noticed on 15/01/2022	Magic Bus India Foundation	Final Year students (2022 Batch)
9	Interdisciplanery Approach to Excel in your Career	21/01/2022	Mr. Pramod Parid Sr. HR at Creintors Group of Companie, Belagavi	Pre-final Year & 2 <sup>nd</sup> Year Students of all Branch

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		<b>Training</b>
		<b>Training Activities</b>
		<b>2021-22</b>

## **Training Activities details for AY: 2021-22**

<b>S.N.</b>	<b>Name of the Training</b>	<b>Date of Conduction</b>	<b>By whom</b>	<b>Details</b>
1.	Free Online Certificate Courses in Machine Learning and Artificial Intelligence for computer and IT Engineering Students (4 Weeks Duration)	27/07/2022	YBI Foundation Company	Final Year, Pre-Final & 2 <sup>nd</sup> Year Circuit Branch Students
2.	Session on SAP	26/08/2022	Mr. Sanjay Arali, Tecno Connect Hub, Pune	All 4 <sup>th</sup> & 6 <sup>th</sup> Sem Students
3.	"A Free Webinar on How to get a Placement in Multinational Companies " (3 Days)	26/08/2022 To 28/08/2022	IIT Mumbai Present's	Final Year & Pre-Final Year All Branch Students
4.	Virtual Workshop - (Solving Real – World Industry Problems with Ai Computer Vision)	26/08/2022 at 10.30Am	AI Computer Vision	Final Year & Pre-Final Year All Branch Students
5.	Free- TCS Specific Training for 2023 batch Students (15 Days)	01/08/2022 To 15/08/2022	Seventh Sense Talent Solution	Final Year All Branch Students (2023 Batch)



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NSS****Activity Report****2021-22**


<b>Type of Activity (cultural/curricular/co-curricular)</b>	Co curricular
<b>Date of Activity held</b>	11-03-2022
<b>Time</b>	10.30 am to 1.00 pm
<b>Professional Details of Chief Guest and Guest of Honor</b>	<b>Mrs. Nitya Chaudhary CSR Executive, Unicharm India For (online session on Women health and Hygiene) Chief Guest: Dr. (Smt.) Laximbai Ainapure, Artist Salhalli Dist.: Ramdurga Guest of honor: Smt. Sangeeta Bagewadi, Artist Salahalli Dist. : Ramdurga</b>
<b>Year / Class</b>	All girl's Students
<b>No. of Students Attended</b>	100
<b>Activity In charge</b>	Prof. S. S. Kamate

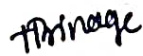
**Description of Activity:**

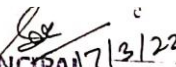
International Women's Day was celebrated in HSIT Nidasoshi on 11<sup>th</sup> March 2022 at 10.30am,. The event was organized to give awareness regarding role of women in society to our students. The event was organized by Women's Empowerment, Antisexual Harassment Cell (ICC) and NSS unit of HSIT Nidasoshi.

The function began at 10.30am with an online session by Mrs. Nitya Chaudhary, CSR Executive, Unicharm India. Madam addressed us on "**Women Health and Hygiene**" for an hour. The talk covered Women menstrual health cycle it's issues hygiene to be maintained in detail. The session was coordinated by ladies staff and ment for only girls and lady faculty.

The formal function began at 11.30am, **Dr. (Smt.) Laximbai Ainapure**, Artist from Salhalli, Ramdurga district was the chief guest and **Guest of honor** was **Smt. Sangeeta Bagewadi** Artist from the same place Salahalli. The function began with an invocation song by Miss. Chaitra Yapalparvi followed by welcome speech by Prof. H. R. Zinage chairperson WEC. Chief guest addressed the gathering and briefed her journey the hurdles she came across and dedication she gave towards the art. Smt Sangeeta also told regarding the artistic life now a day. The guests were felicitated after their speech. President of the function, principal Dr. S. C. Kamate addressed the gathering women contributions to the society and other field and told there should not be any gender bias in the society. The function was concluded with vote of thanks by Prof. S. S. Kamate convener WEC. The women's day was successful in conveying the Role of Women in Modern Society and is one of the informative co curricular activity by HSIT Nidasoshi.

  
Convener WEC

  
Chair WEC

  
PRINCIPAL 7/3/22  
Hirasugar Institute of Technology  
Nidasoshi- 591 236



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Institute

WEC, ICC and  
NSS

Activity Report

2021-22

## Event Photographs:







ಹಿರಾಸುಗರ ತಾಂತ್ರಿಕ ಮಹಾವಿದ್ಯಾಲಯ, ನಿಡಸೋಸಿ

**Hirasugar Institute of Technology**

**Nidasoshi – 591 236, Karnataka State**

**Prof. S. C. Kamate** Ph.D.  
Principal

Phone : (08333) 278887  
Fax : (08333) 278886

Ref. No: HSIT/NDS/sports//2021-22/ 2065

Date : 15-11-2021

## NOTICE

All the students are hereby informed to join Annual Sports events (Indoor games) to be held from 26<sup>th</sup> November 2021 to 10<sup>th</sup> December 2021. The interested students are informed to enroll their name with Sri S.B. Sarawadi, Physical Education Director on or before 24<sup>th</sup> November 2021. Foot Ball and Volley Ball will start from 18<sup>th</sup> November 2021 to 10<sup>th</sup> December 2021.

1. All indoor events Fixtures will be drawn on 24<sup>th</sup> Nov. 2021 at 5.00 pm
2. The identity card is compulsory during the competition time,
3. Matches will be played after college hours 5 P.M. onwards.
4. The Points are distributed as per VTU rules.

First Place Points - 05

Second Place points - 03

Third Place points - 01

*S. B. Sarawadi*  
Physical Edu. Director



*S. C. Kamate*  
Dr. S. C. Kamate.  
Principal





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<b>Institute</b>
<b>Annual Sports</b>
<b>HSIT</b>
<b>2021-22</b>

### NOTICE

All the students (Boys & Girls) are hereby informed that the Annual Sports Meet-2022 will be conducted in our college on 10-01-2022. Those students who have enrolled their names are informed to be present as per the following schedule.

#### **ATHLETIC EVENTS (Men & Women) held on 10-01-2022**

Sl.No.	Name of the events	Timing
1	Inaugural Function	10.15AM
2	100 Mtr. Running	10.40 AM
3	1500 Mtr. Running	11.00 AM
4	200 Mtr. Running	11.20 AM
5	800 Mtr. Running	11.35 AM
6	Shot - put	12 Noon
7	Javelin-throw	12.40 PM
8	Discuss Throw	2.00 PM
9	400 Mtr Running	2:30 PM
10	5000 Mtr Running	3.20 PM
11	Long Jump	4.00 PM

Note: (Students must be present 15 minutes before the given time for the event)

Dr. S. C. Kamate  
Principal

Copy to :

- 1) NB
- 2) Circulation
- 3) O/c

Nidasoshi-591 236, Taq: Hukkeri, Dist: Belagavi, Karnataka, India.  
Phone: +91-8333-278887, Fax: 278886, Web: www.hsit.ac.in, E-mail: principal@hsit.ac.in



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<b>Time</b>	10.30 am to 1.00 pm
<b>Professional Details of Chief Guest and Guest of Honor</b>	<b>Mrs. Nitya Chaudhary CSR Executive, Unicharm India For (online session on Women health and Hygiene) Chief Guest: Dr. (Smt.) Laximbai Ainapure, Artist Salhalli Dist.: Ramdurga Guest of honor: Smt. Sangeeta Bagewadi, Artist Salahalli Dist. : Ramdurga</b>
<b>Year / Class</b>	All girl's Students
<b>No. of Students Attended</b>	100
<b>Activity In charge</b>	Prof. S. S. Kamate

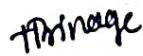
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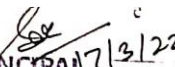
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Convener WEC

  
Chair WEC

  
PRINCIPAL 7/3/22  
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Institute

WEC, ICC and  
NSS


Activity Report

2021-22

## Event Photographs:





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	<b>Hirasugar Institute of Technology, Nidasoshi.</b>		NSS
	<i>Inculcating Values, Promoting Prosperity</i>		Activity
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**Activity:** Engineer's day Celebration.

**Date:** 15/09/2021

**Place:** At College



NSS Unit has organized **Engineers Day Celebration Function** as a tribute to the greatest Indian Engineer Bharat Ratna **Sir. Mokshagundam Visvesvaraya**. This day is celebrated with lots of joy and enthusiasm by all students and staff by doing Pooja to Visvesvaraya Statue.

  
N.S.S. Programme Officer  
Hirasugar Institute of Technology  
NIDASOSHI, 591236





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HSIT

NSS

Activity

2021-22

Activity: Voluntary Blood Donation Drive

Date: 24/11/2021

Place: At College.



"Donate Blood Save Life"

**BELGAUM BLOOD BANK**

Lic. No. BKB/2001-312/2017  
1A Unit of B. B. Trust  
CTS 4824 / 647, Ayodhya Nagar, Belgaum Vitega Hospital, Old P. H. Road, Belgaum.  
Ph: 3425835

**BLOOD DONATION IS PRECIOUS**

APPRECIATION CERTIFICATE

Belgaum Blood Bank Thanks Principal, Hirasugar  
Institute Technology, Nidasoshi for conduction of voluntary  
Blood Donation Camp at Gymkhana Hall, HIT,  
Nidasoshi on 24/11/2021  
We received 55 + 5 = 60 number of Blood Units from the  
Respectable Donors.

Signature of Medical Officer


Voluntary Blood donation Drive jointly organized by One Nation Youth and NSS Unit of HIT. On this occasion Chief Guest **Shri. Mahantesh Vakkund**, Social Entrepreneur, Belagavi, Guest of Honour **Dr. Abhijit Musale**, Consultant Urologist, Sri Sathya Sai Multi Speciality Hospital, Chikodi and President of the function **Dr. S. C. Kamate** Principal HIT addressed the function. During drive we have collected around 60 Unit of Blood.

NSS Programme Officer  
Hirasugar Institute of Technology  
NIDASOSHI.591236







	S J P N Trust's		HSIT
	<b>Hirasugar Institute of Technology, Nidasoshi.</b>		NSS
	<i>Inculcating Values, Promoting Prosperity</i>		Activity
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**Activity:** Celebration of 73<sup>rd</sup> Republic Day.

**Date:** 26/01/2022

**Place:** At Institute.



NSS Unit has organized a function for Celebrating **73<sup>rd</sup> Republic Day**. Function begins with flag hosting by Principal **Dr.S.C.Kamate**. After the flag hosting students from I<sup>st</sup> year given speech on purpose of celebrating Republic Day function concluded with address by **Dr. S.C.Kamate**, Principal.

  
 N.S.S. Programme Officer  
 Hirasugar Institute of Technology  
 NIDASOSHI.591236





**Activity:** Celebration of Dr.B.R.Ambedkar Jayanti

**Date:** 14/04/2022

**Place:** CollegeOffice



Nidasoshi, Karnataka, India  
College Building, Nidasoshi, Karnataka 591236, India  
Lat 16.294823°  
Long 74.528507°  
14/04/22 10:01 AM



Nidasoshi, Karnataka, India  
College Building, Nidasoshi, Karnataka 591236, India  
Lat 16.294805°  
Long 74.528511°  
14/04/22 10:01 AM




Latitude: 16.294824  
Longitude: 74.528572  
Elevation: 644.62±16 m  
Accuracy: 48.9 m  
Time: 14-04-2022 10:11

Powered by NoteCam

NSS Unit of Institute has organized **131<sup>st</sup> Birth Anniversary of Dr. Bhimrao Ambedkar**. Birth day is celebrated by doing Pooja to his photo, by Principal **Dr. S C Kamate** and NSS Officer **Prof. Sachin Patil**. Principal sir delivered speech on "Struggle of Dr. B R Ambedkar" in framing the Constitution.

  
**N.S.S. Programme Officer**  
Hirasugar Institute of Technology  
NIDASOSHI.591236



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	<b>HSIT</b>	
	<b>NSS</b>	
	<b>ACTIVITY</b>	
	<b>2022-23</b>	

**Activity:** Celebration of World Environment Day

**Date:** 05/06/2020

**Place:** Near HSIT Girls Hostel.



Tree Plantation programme in the College area on the eve of **World Environment Day** is organized under NSS Unit. On this occasion **Dr. S C Kamate** Principal were the Chief Guest. Along with students and HSIT staff saplings were planted in campus to enhance the greenery.

In association with Civil department "Quiz and Poster Presentation" event is organized. Participant & winners were given certificates and medals.

  
**N.S.S. Programme Officer**  
**Hirasugar Institute of Technology**  
**NIDASOSHI.591236**





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**HSIT**

**NSS**

**ACTIVITY**

**2022-23**

**Activity:** Blood Donation Camp & Awareness Program on “Blood Donation”


**Date:** 15/06/2022

**Place:** Gym Building, HSIT




NSS Unit and Red Cross Cell of HSIT, Nidasoshi have jointly organized a Blood Donation Camp & Awareness Program on “Blood Donation” awareness Program. On this occasion **Principal Dr.S.C.Kamate** explained about importance of blood donation to students & all the staff.

Annasaheb Galatge Lions Blood Bank, Gadhinglaj helped us to organize the camp in campus on the eve of “World Blood Donors Day”. 48 HSITians participated in blood donation. Motto of camp was **Donate Blood and Save Lives**

  
**N.S.S. Programme Officer**  
Hirasugar Institute of Technology  
NIDASOSHI.591236



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	<b>NSS</b>	
	<b>ACTIVITY</b>	
	<b>2022-23</b>	

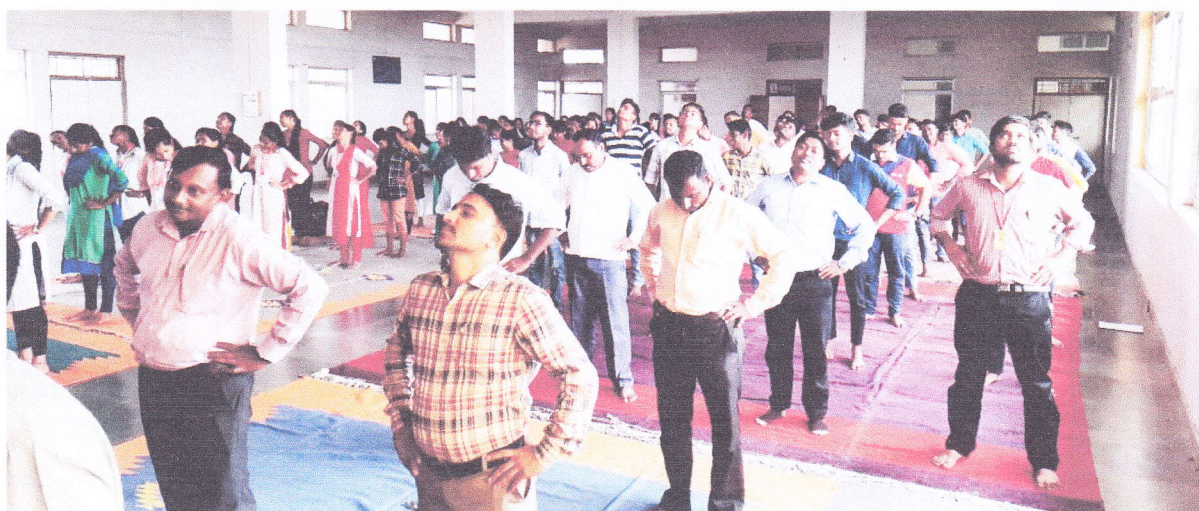
**Activity:** Celebration of International Yoga Day

**Date:** 26/06/2022

**Place:** Computer Science Seminar Hall







PED and NSS unit have organized **International Yoga Day**. The function is inaugurated by Principal **Dr. S C Kamate** and briefed the participants about Yoga, a Sanskrit word which means "union", i.e., of the mind, spirit and body, has earned special recognition from the United Nations for which it has declared June 21st as World Yoga Day. It received the global stature due to its principles in treatment which are without any side effects. All staff members and students actively participated in event by doing yoga as per the yoga experts (PED Sir. S B Sarawadi, Prof. Prasanna, Prof. Preeti, & University Blue ). This event is covered by new channel **News Hunt**. Physical education director Sri. S B Sarawadi welcome participant to event and Prof. Sachin Patil NSS Program Officer give a vote of thanks at the end.

NEWS Hunt YouTube Link: <https://youtu.be/-Rw1RdDPI8Q>

  
N.S.S. Programme Officer  
Hirasugar Institute of Technology  
NIDASOSHI.591236