

### **Sensitization of students and employees of the institution to constitutional obligations: values, rights, duties and responsibilities of citizens:**

Vishnu Institute of Technology is committed to providing comprehensive education to its students by creating awareness about constitutional rights, values, duties, and responsibilities. This is accomplished through various means, both within and outside the curriculum.

Sensitizing students and employees of the institution is achieved through the inclusion of relevant topics in the curriculum as well as through extracurricular activities. Subjects such as the Constitution of India, professional ethics, and human values play a crucial role in familiarizing students with the values, rights, duties, and responsibilities of citizens. The Constitution of India subject covers constitutional rights, duties, and responsibilities that citizens should uphold. Professional ethics and human values are mandatory subjects across all engineering and technology programs, ensuring students are well-versed in these areas.

To provide a broader perspective, students are required to take a course on Environmental Studies in their first year. This course enlightens them about various environmental acts, wildlife protection acts, forest acts, and global environmental concerns.

The institute also organizes seminars and workshops on important national days to enhance awareness among students and faculty. Additionally, the NSS unit of the institution conducts activities recommended by the Government of India, both within the college campus and in nearby villages.

Through these initiatives, Vishnu Institute of Technology fosters an environment where students gain knowledge, understanding, and a sense of responsibility towards their constitutional rights, values, duties, and responsibilities as responsible citizens.

### **An awareness program on Constitution Day : Constitution Day**

On the occasion of Indian Constitution Day, NSS UNIT of our college organized an Awareness Programme on “Constitution of India” on 26.11.2022 at Padmabhushan Dr. B.V. Raju Mini Auditorium at 10.00 A.M

Addressing the gathering, Dr.D.Suryanarayana Director and Principal, said that the Constitution Day is being celebrated in India as a tribute to all the great legends who worked tirelessly to give India its Constitution. He said that the Indian Constitution has given us our rights with our responsibility and duties but we always seek for our rights and forget about duties so he urged every individual to first perform their duties and responsibilities which automatically provide their rights. He said that the Indian Constitution is for continuity of democracy and integrity of nation. He remembered Dr B.R. Ambedkar, the Architect of the Indian Constitution, for his stellar contribution and socio-political understanding.

Vice Principal Prof.K.Srinivas, the HODs of all Departments graced the program and 350 students from I B.Tech (all branches) attended the program.

Activities:

1. Reading of Preamble by Ms.Prabhashita, I CSBS
2. Awareness on Citizens Duties & Rights by Ms.Prabhashita, I CSBS & Mr.Venkat, I AIML
3. Lecture on “India: The Mother of Democracy” by Mr.R.S.R.Sumukh










శ్రీమవరం,  
 26.11.2022.

విష్ణు ఇనిస్టిట్యూట్ ఆఫ్ టెక్నాలజీ లో  
 రాష్ట్ర దినోత్సవం వేడుకలు


  
**VISHNU**  
 UNIVERSAL LEARNING


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విష్ణు డా॥ జి.వి.రాజుల ఫౌండేషన్ మరియు విష్ణు ఎడ్యుకేషనల్ సొసైటీ  
 వారి ఆతిథ్యంలో ఆంధ్రప్రదేశ్ లోని టెక్నాలజీ ఎడ్యుకేషన్ వన్ (పాఠ్య సూత్రం) విభాగం  
 ఆధ్వర్యంలో ది. 26.11.2022న రాష్ట్ర దినోత్సవం దినోత్సవ వేడుకలు జరిగారు. వీరి  
 కార్యక్రమం ద్వారా తెలంగాణ ప్రభుత్వం ద్వారా పాఠ్య సూత్రం అమలు  
 చేయబడింది.

దాని చివరకు సూత్రం విస్తరం అని ప్రతి సభ్యుడు సవరణ  
 "26వ తిని. కాలం" రాష్ట్ర దినోత్సవం జరుగుతున్నందున. దీని  
 సంబంధం "26వ తిని" ప్రతి కాలం అని. ఇది అన్ని విషయాల్లో  
 దినోత్సవం (National Day) నా కారణం వలన జరిగింది.  
 విద్యార్థులు తెలుగు విష్ణు ఇనిస్టిట్యూట్ ఆఫ్ టెక్నాలజీలో కాలం  
 దినోత్సవ వేడుకలు జరిగిన సందర్భంగా పాఠ్య సూత్రం అమలు  
 చేయబడింది. దీని సందర్భంగా వారు విష్ణు ఇనిస్టిట్యూట్  
 సరిహద్దులలో ఉన్న రాష్ట్ర దినోత్సవం కాలం దినోత్సవం  
 వదిలివేయాలని కోరుకున్నారు. దీని విషయం తెలుసుకుంటే  
 ఉపాధ్యక్షులు సభకు 26వ తిని రాష్ట్ర దినోత్సవం అమలు  
 చేయాలని కోరుకున్నారు. దీని విషయం తెలుసుకుంటే  
 ఆంధ్రప్రదేశ్ ప్రభుత్వం ద్వారా పాఠ్య సూత్రం అమలు  
 చేయబడింది. దీని సందర్భంగా వారు విష్ణు ఇనిస్టిట్యూట్  
 సరిహద్దులలో ఉన్న రాష్ట్ర దినోత్సవం కాలం దినోత్సవం  
 వదిలివేయాలని కోరుకున్నారు. దీని విషయం తెలుసుకుంటే  
 ఆంధ్రప్రదేశ్ ప్రభుత్వం ద్వారా పాఠ్య సూత్రం అమలు  
 చేయబడింది.

N.S.S. Co-ordinator K. గణేశ్వర్, విష్ణు ఇనిస్టిట్యూట్ లో,  
 విద్యార్థులు వేరైనారు.

  
 K.



Approved by : AICTE, New Delhi | Affiliated to : JNTUK, Kakinada

**Course Structure & Syllabus- EEE Department – Constitution of India – R20 regulation – Autonomous**

**Semester - II (First Year)**

S.No	Category/ Course Code	Course Title	Hours Per week			Credits
			L	T	P	C
1	BSC	Mathematics - II	3	0	0	3
2	BSC	Applied Physics	3	0	0	3
3	ESC	Computer Programming	3	0	0	3
4	ESC	Electrical Circuit Analysis - I	3	0	0	3
5	ESC	Elements of Civil and Mechanical Engineering	3	0	0	3
6	ESC	Computer Programming Lab	0	0	3	1.5
7	BSC	Applied Physics Lab	0	0	3	1.5
8	ESC	Workshop (Electrical & IT)	0	0	3	1.5
9	MC - I	Constitution of India	2	0	0	0
Total Credits						<b>19.5</b>

<b>Year/Semester</b>	<b>I B. Tech/II Sem</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
<b>Regulation Year</b>	<b>2020-2021</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Subject</b>	<b>Constitution of India</b>				
<b>Branch</b>	<b>EEE</b>				

**COURSE OBJECTIVES:**

- To train students in understanding the basic structure of Indian Constitution
- To prepare students to live better and happily with other fellow beings through the application of Fundamental Rights in their lives.

**UNIT-I: Introduction to Indian Constitution**

Meaning of the term Indian Constitution –Preamble- Constituent Assembly- Salient Features of Indian Constitution

**UNIT-II: Fundamental Rights**

Fundamental Rights -Fundamental Duties -The Directive Principles of State Policy

**UNIT-III: Union Government**

Union Government -Union Legislature (Parliament) -Lok Sabha and Rajya Sabha (with Powers and Functions) -Union Executive -President of India (with Powers and Functions) -Prime Minister of India (with Powers and Functions) -Union Judiciary (Supreme Court) -Jurisdiction of the Supreme Court

#### **UNIT-IV State Government**

State Government -State Legislature (Legislative Assembly / Vidhan Sabha, Legislative Council / Vidhan Parishad) -Powers and Functions of the State Legislature -State Executive-Governor of the State (with Powers and Functions) -The Chief Minister of the State (with Powers and Functions) -State Judiciary (High Courts)

#### **UNIT-V: Local Self Governance**

Powers and functions of Municipalities, Panchyats, ZP's and Co – Operative Societies

#### **UNIT-VI: Sovereign Bodies**

Election Commission of India (with Powers and Functions) -The Union Public Service Commission (with Powers and Functions)

#### **BOOKS:**

1. Introduction to constitution of India, Durga Das Basu, Lexis Nexis Publications
2. Constitution of India by PROFESSIONAL BOOK PUBLISHERS
3. The Constitution of India by Arun K Tiru vengadam, Blooms bury publishers.
4. The constitution of India by PM Bakshi, Universal law publishing co
5. The Constitution of India by S.R. Bhansali, Universal law publishing co

#### **COURSE OUTCOMES:**

Upon the completion of the course, the student will be able to:

**CO1:** Examine salient features of Indian Constitution and live accordingly in society.

**CO2:** Interpret the meaning of Fundamental Rights and Directive Principles of State Policy and, develop an attitude which paves the way for better living conditions.

**CO3:** Discover various aspects of Union Government legislation and live up to the expectations of the rules.

**CO4:** Critically examine State Government legislation and improve your living standards by following the rules strictly

**CO5:** Examine powers and functions of local bodies such as Municipalities and Panchayats and, take advantage of available resources for better living

**CO6:** Analyze the powers and functions of Election Commission and The Union Public Service Commission and decide upon it for safe and secured life.

**Course Structure & Syllabus- EEE Department – Professional Ethics & Human Values - R16 regulation – Affiliated to JNTU,Kakinada**

**III Year – II Semester**

<b>S. No</b>	<b>Subjects</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>Credits</b>
1	Power Electronic Controllers & Drives	4	--	--	3
2	Power System Analysis	4	--	--	3
3	Micro Processors and Micro controllers	4	--	--	3
4	Data Structures	4	--	--	3
5	Open Elective 1. Unix and Shell Programming 2. OOPS Through JAVA 3. VLSI Design 4. Robotics 5. Neural Networks &Fuzzy Logic 6. Energy Audit and Conservation& Management	4	--	--	3
6	Power Electronics Laboratory	--	--	3	2
7	Microprocessors & Microcontrollers Laboratory	--	--	3	2
8	Data Structures Laboratory	--	--	3	2
9-MC	Professional Ethics & Human Values	--	3	--	--
<b>Total Credits</b>					<b>21</b>



III Year - II Semester

L	T	P	C
0	3	0	0

### PROFESSIONAL ETHICS AND HUMAN VALUES

#### Course Objectives:

**\*To give basic insights and inputs to the student to inculcate Human values to grow as a responsible human beings with proper personality.**

**\*Professional Ethics instills the student to maintain ethical conduct and discharge their professional duties.**

#### UNIT I: Human Values:

Morals, Values and Ethics – Integrity – Trustworthiness - Work Ethics – Service Learning – Civic Virtue – Respect for others – Living Peacefully – Caring – Sharing – Honesty – Courage – Value Time – Co-operation – Commitment – Empathy – Self-confidence – Spirituality- Character.

#### UNIT: II: Principles for Harmony:

Truthfulness – Customs and Traditions - Value Education – Human Dignity – Human Rights – Fundamental Duties - Aspirations and Harmony (I, We & Nature) – Gender Bias - Emotional Intelligence – Salovey – Mayer Model – Emotional Competencies – Conscientiousness.

#### UNIT III: Engineering Ethics and Social Experimentation:

History of Ethics - Need of Engineering Ethics - Senses of Engineering Ethics- Profession and Professionalism —Self Interest - Moral Autonomy – Utilitarianism – Virtue Theory - Uses of Ethical Theories - Deontology- Types of Inquiry –Kohlberg’s Theory - Gilligan’s Argument –Heinz’s Dilemma - Comparison with Standard Experiments — Learning from the Past –Engineers as Managers – Consultants and Leaders – Balanced Outlook on Law - Role of Codes – Codes and Experimental Nature of Engineering.

#### UNIT IV: Engineers’ Responsibilities towards Safety and Risk:

Concept of Safety - Safety and Risk – Types of Risks – Voluntary v/sInvoluntary Risk – Consequences - Risk Assessment – Accountability – Liability - Reversible Effects - Threshold Levels of Risk - Delayed v/sImmediate Risk - Safety and the Engineer – Designing for Safety – Risk-Benefit Analysis-Accidents.

#### UNIT V: Engineers’ Duties and Rights:

Concept of Duty - Professional Duties – Collegiality - Techniques for Achieving Collegiality – Senses of Loyalty - Consensus and Controversy - Professional and Individual Rights – Confidential and Proprietary Information - Conflict of Interest-Ethical egoism - Collective Bargaining – Confidentiality - Gifts and Bribes - Problem solving-Occupational Crimes- Industrial Espionage- Price Fixing-Whistle Blowing.



**UNIT VI: Global Issues:**

Globalization and MNCs –Cross Culture Issues - Business Ethics – Media Ethics - Environmental Ethics – Endangering Lives - Bio Ethics - Computer Ethics - War Ethics – Research Ethics -Intellectual Property Rights.

- Related Cases Shall be dealt where ever necessary.

**Outcome:**

**\*It gives a comprehensive understanding of a variety issues that are encountered by every professional in discharging professional duties.**

**\*It provides the student the sensitivity and global outlook in the contemporary world to fulfill the professional obligations effectively.**

**References:**

1. Professional Ethics by R. Subramaniam – Oxford Publications, New Delhi.
2. Ethics in Engineering by Mike W. Martin and Roland Schinzinger - Tata McGraw-Hill – 2003.
3. Professional Ethics and Morals by Prof.A.R.Aryasri, DharanikotaSuyodhana - Maruthi Publications.
4. Engineering Ethics by Harris, Pritchard and Rabins, Cengage Learning, New Delhi.
5. Human Values & Professional Ethics by S. B. Gogate, Vikas Publishing House Pvt. Ltd., Noida.
6. Engineering Ethics & Human Values by M.Govindarajan, S.Natarajan and V.S.SenthilKumar-PHI Learning Pvt. Ltd – 2009.
7. Professional Ethics and Human Values by A. Alavudeen, R.Kalil Rahman and M. Jayakumaran – University Science Press.
8. Professional Ethics and Human Values by Prof.D.R.Kiran-Tata McGraw-Hill - 2013
9. Human Values And Professional Ethics by Jayshree Suresh and B. S. Raghavan, S.Chand Publications

**Course Structure & Syllabus- EEE Department– Constitution of India - R19 regulation – Autonomous**

**I . B.Tech. II- Semester**

<b>S.No</b>	<b>Course Title</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>	<b>I</b>	<b>E</b>	<b>TM</b>
1	Mathematics-II(PDE & Vector Calculus)	2	1	-	3	40	60	100
2	Mathematics-III (Transform Calculus & Complex Variables)	2	1	-	3	40	60	100
3	Applied Physics	3	-	-	3	40	60	100
4	Problem Solving & Programming Using Python	2	1	-	3	40	60	100
5	Engineering Graphics & Design	1	-	2	2.5	40	60	100
6	Applied physics Lab	-	-	3	1.5	40	60	100
7	Problem Solving & Programming Lab	-	-	3	1.5	40	60	100
8	Workshop (Electrical & Electronics Engineering Lab)	-	-	3	1.5	40	60	100
9	Constitution of India	3	-	-	-	-	-	-
	<b>Total</b>	<b>13</b>	<b>3</b>	<b>11</b>	<b>19</b>	<b>320</b>	<b>480</b>	<b>800</b>

<b>Year/Semester</b>	<b>I B.Tech. / II Sem.</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
<b>Regulation Year</b>	<b>2019-20</b>	<b>2</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>Name of the Subject</b>	<b>Constitution of India</b>				
<b>Branch</b>	<b>CSE,IT &amp; EEE</b>				

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