



# VIJAYA INSTITUTE OF TECHNOLOGY FOR WOMEN

An ISO 9001:2015 Certified Institute, Approved by AICTE, Affiliated to JNTU Kakinada, AP  
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College Code: NP, Enikepadu, Vijayawada-521108


Date: 15/11/2022

## CIRCULAR


All the students are here by informed that the Science and Humanities Department is conducting a Seminar on "Professional Ethics and Human values" for all students. The program will be conducted on 22/11/2022. All the students must attend the program without fail.


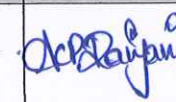
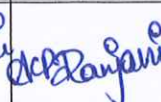
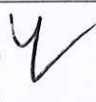
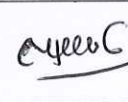


  
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1. The Secretary, SRK Foundation
2. All the Department Heads 
3. Notice Board

S&H	CSE	CSE-DS	IT	AIML	MBA	ECE
						



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College Code: NP, Enikepadu, Vijayawada-521108

### LIST OF PARTICIPANTS

S.NO	NAME OF THE STUDENT	ROLL NUMBER	YEAR/BRANCH	SIGNATURE
1	B. N. SUBRAMANYAKAVERI	22NP1A0404	ECE/I	B. N. S. Kaveri
2	B. DEEXITHA REDDY	22NP1A0405	ECE/I	B. Deexitha
3	BOYINA UMAMAHESWARI	22NP1A0406	ECE/I	B. Umamaheswari
4	D. HARSHITHANJALI	22NP1A0407	ECE/I	D. Harshithanjali
5	DONDAPATI SARANYA	22NP1A0408	ECE/I	D. Saranya
6	GOLLA BHARGAVI	22NP1A0409	ECE/I	G. Bhargavi
7	KARANAM CHANDANA	22NP1A0410	ECE/I	K. Chandana
8	KAYINA VENKATA SRAVYA	22NP1A1220	IT/I	K. Sravya
9	KOMMINENI CHARITHA DEVI	22NP1A1221	IT/I	K. Charitha Devi
10	L VASANTHA PRIYA	22NP1A1222	IT/I	L. Priya
11	L. VENKATA DURGA	22NP1A1223	IT/I	L. Durga
12	MANDAVALLI JHANSI	22NP1A1224	IT/I	M. Jhansi
13	MANGALAGIRI TEJASWI	22NP1A1225	IT/I	M. Tejaswi
14	MD ASHRAFUNISSA	22NP1A1226	IT/I	M. Ashrafunissa
15	MEDISETTY DHANUSHA	22NP1A1227	IT/I	M. Dhanusha
16	MENDU YASHESWINI	22NP1A1228	IT/I	M. Yasheswini
17	NERUSU RAJA NANDINI	22NP1A1229	IT/I	N. Rajanandini
18	OGIRALA SRI SAHITHI	22NP1A1230	IT/I	O. Sahithi
19	PONALI JAHNAVI	22NP1A4433	DS/I	P. Jahnavi
20	PULLELUGULA CHANDANA	22NP1A4434	DS/I	P. Chandana
21	V. DADIMI SUMA	22NP1A4435	DS/I	V. Dadimi Suma
22	SADHU DHANALAKSHMI	22NP1A4436	DS/I	S. Dhanalakshmi
23	TADIBOINA MEGHANA	22NP1A4437	DS/I	T. Meghana
24	TADIKONDA VEDAKSHARI	22NP1A4438	DS/I	T. Vedakshari
25	PALATI SRAVYA	22NP1A4432	DS/I	P. Sravya

Y. S. U.  
COORDINATOR

P. J. Chaitanya  
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S.NO	NAME OF THE STUDENT	ROLL NUMBER	YEAR/BRANCH	SIGNATURE
1	MEESALA YASASWINI	22NP1A0530	CSE - A/I	M. Yasaswini
2	MOHAMMAD ASHRAFUNNISA	22NP1A0531	CSE - A/I	Ashrefunnisa
3	MOHAMMAD JASMINE	22NP1A0532	CSE - A/I	M. Jasmine
4	MOHAMMAD SHAFIVUNNISA	22NP1A0533	CSE - A/I	Shafivunnisa
5	MUTHKANA HEMA LAKSHMI	22NP1A0534	CSE - A/I	M. Hemalakshmi
6	PALAKONDA GEETHA	22NP1A0535	CSE - A/I	P. Geetha
7	PAMARTHI MOUNA	22NP1A0536	CSE - A/I	P. Mouna
8	P. LAKSHMI SYAMALA	22NP1A0537	CSE - A/I	P. Lakshmi Syamala
9	PATCHARU VANI	22NP1A0538	CSE - A/I	P. Vani
10	PILLA HARINI	22NP1A0539	CSE - A/I	P. Harini
11	PARSINENI SUPRIYA	22NP1A0591	CSE-B/I	P. Supriya
12	PATAKOTA MADHU PRIYA	22NP1A0592	CSE-B/I	P. Madhu Priya
13	PENNA VENKATA SAI INDU	22NP1A0593	CSE-B/I	P. Sai Indu
14	PERIKE HIMA BINDU	22NP1A0594	CSE-B/I	P. Bindu
15	PONUGUMATI HEMASRI	22NP1A0596	CSE-B/I	D. Hemasri
16	POTTAPULA HEMA	22NP1A0597	CSE-B/I	P. Hema
17	RAAVI KUSUMA	22NP1A0598	CSE-B/I	R. Kusuma
18	RAMAKURI DEVA KARUNA	22NP1A0599	CSE-B/I	R. Deva Karuna
19	R. AKANSHA CHOWDARY	22NP1A05A0	CSE-B/I	R. Akansha
20	SK.AMREEN	22NP1A05A1	CSE-B/I	Sk. Amreen
21	SRUNGARAPATI AKSA	22NP1A05A2	CSE-B/I	Sk. Aksha
22	TAMMISSETTI YASASWINI	22NP1A05A3	CSE-B/I	T. Yasaswini
23	A.S.NAGA VENKATA SRAVANI	22NP1A0401	ECE/I	A.S. Saravani
24	A.DWARAKA BHAVANI	22NP1A0402	ECE/I	A. Bhavani
25	BEJJIPURAPU KAVYA SRI	22NP1A0403	ECE/I	B. Kavayathi

Y. S. U.  
COORDINATOR

V. Chahub.  
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Date: 25/11/2022

### Program Report

**Name of the Program** : Gust lecturer on Professional Ethics and Human values  
**Duration** : 22/11/2022  
**Name of the Coordinator:** Mrs. Y. Sri Lakshmi  
**No. of Participants** : 50  
**Program Objective** : To develop inter personality skills of the student.

The Principal of VIPW, Dr. K. Padmalatha garu stated that body language is an essential communication ability. Posture, facial expressions, and gestures are ways we communicate our actual emotions and feelings without using words. Positive body language enhances verbal communication and prevents confusion or mixed signals.

She said, "BELIEVE IN YOURSELF: You can be intelligent and wealthy." However, one is unable to speak up and come out if they lack trust. Hard work is not as necessary as self-confidence. It is attainable with practice. Gandhiji also practiced it frequently and improved it. It endows you with natural vigor.

### **Program outcome:**

The outcome of this programme was that the students decided to have self-confidence in their lives and to have passion in achieving their goals to taste great success.

  
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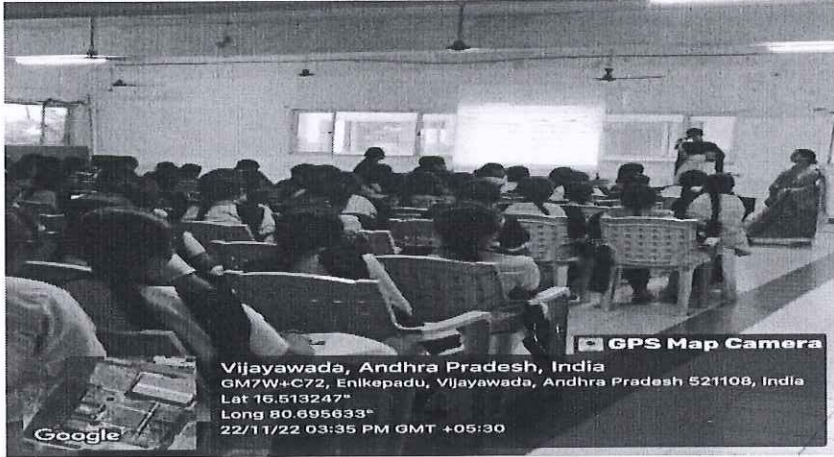
  
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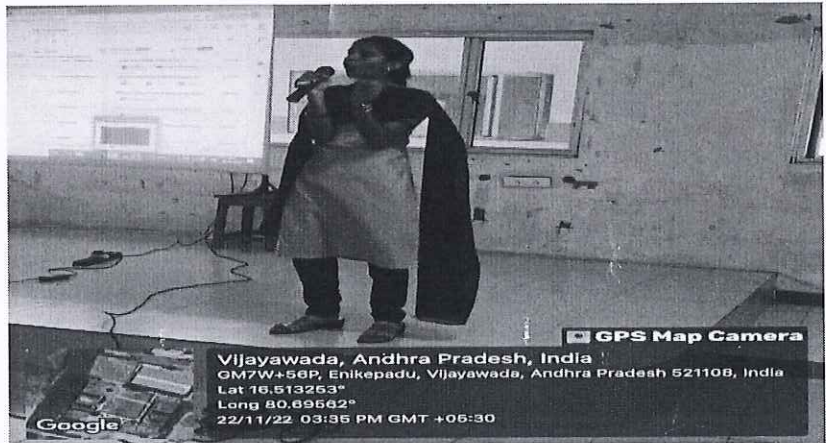


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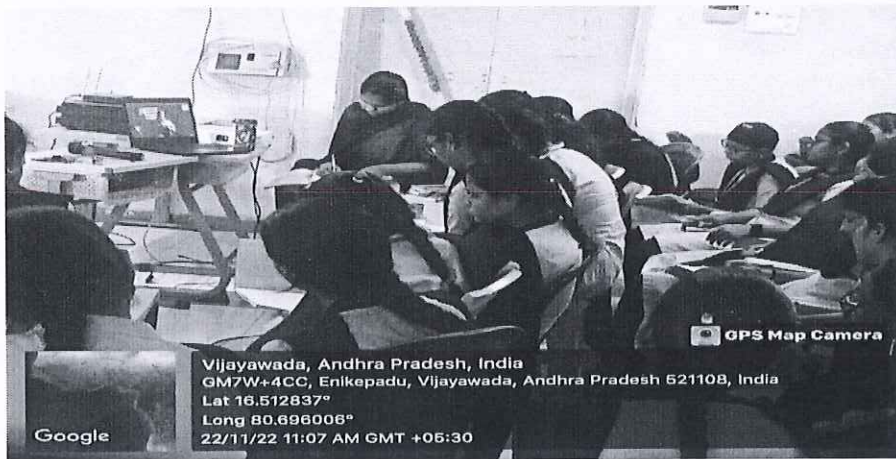
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Long 80.695633°  
22/11/22 03:35 PM GMT +05:30



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Long 80.695682°  
22/11/22 03:35 PM GMT +05:30



Vijayawada, Andhra Pradesh, India  
GM7W+4CC, Enikepadu, Vijayawada, Andhra Pradesh 521108, India  
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Date: 10-10-2022

## CIRCULAR

All the staff and students are here by informed that the Department of Artificial Intelligence and Machine Learning planning to conduct Gender Awareness Program on "Combating with Gender Inequality" on 18-10-2022 at First Floor Seminar Hall from 1.00 p.m to 3.00 p.m. This program was planned for the third B.Tech AIML Students. Therefore all the students to complete their lunch before 12.45p.m on the day of the program.



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2. All the Department Heads *ackd/Parfau*
3. Notice Board





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## LIST OF REGISTERED STUDENTS

Name of the Program : Combating with Gender Inequality

Date of the Program : 18-10-2022

S.NO	ROLL NO	NAME	SIGNATURE
1	20NP1A4201	ANABUTTULA RAMYASRI	A. Ramyasri
2	20NP1A4202	ATMURI ALEKHYA	Alekhyasri
3	20NP1A4203	B S V K AASRITHA SRAVANI	Aasritha
4	20NP1A4204	BOPPNA LEKHYA SAI SREE	Lekhyasri
5	20NP1A4205	BORRA.BABY PRASANTHI	B. Baby Prasanthi
6	20NP1A4206	BORRA.KAVYA SRI	Kavyasri
7	20NP1A4207	G.CHANDANA SAI PRIYA	Chandana
8	20NP1A4208	DHANUSHA	Dhanusha
9	20NP1A4209	GUNAGANTI AKHILA	Gunaganti Akhila
10	20NP1A4210	JONNALAGADDA AAMANI	Aamani
11	20NP1A4211	KAKANI. NIKHITHA	Nikhitha
12	20NP1A4212	K.KEERTHI SREE SAI	Srisai
13	20NP1A4213	KUMPATI . CHATURYA	Chaturya
14	20NP1A4214	M.ARUNA KUMARI	Aruna Kumari
15	20NP1A4215	MALLADI HARIPRIYA	Haripriya
16	20NP1A4216	MALLIPEEDI LOHITHA	Lohitha
17	20NP1A4217	MOHAMMAD THANMAI	Thanmai
18	20NP1A4218	M.HIMA VARSHITHA	Hima Varshitha M.
19	20NP1A4219	MUSUNURU ANITHA	M. Anitha
20	20NP1A4220	NADELLA JHANSIRANI	J. Hansirani



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21	20NP1A4221	NAGADESI AMANI	N. Amani
22	20NP1A4222	NAKKA NIHARIKA	N. Niharika
23	20NP1A4224	N.BHARGAVI	N. Bhargavi
24	20NP1A4225	PAMIDI.ANUSHA	Anusha
25	20NP1A4226	PANCHUMARTHI SUMA DANIKA	P. Suma
26	20NP1A4227	HARSHINI NAGA PRIYA PANDRAJU	Priya
27	20NP1A4228	PASUPULETI MADHU SHALINI	Shalini
28	20NP1A4229	P.GREESHMA	P. Greeshma
29	20NP1A4230	POLUKONDA. VARSHA	P. Varsha
30	20NP1A4231	R. TANUJA	R. Tanuja
31	20NP1A4232	SHAIK.RAMJANBHI	Sk. Ramjanbhi
32	20NP1A4233	R.SRAVANI	R. Sravani
33	20NP1A4234	S.DHANA LAKSHMI	S. Dhana Lakshmi
34	20NP1A4235	SRIPATHI ARCHANA	S. Archana
35	20NP1A4236	GEETHIKA.SUNKARA	Geethika. S
36	20NP1A4237	T.PAVANI	T. Pavani
37	20NP1A4238	TIRUMALASETTY TIRUPATHAMMA	Tirupathamma T
38	20NP1A4239	UPPULURI SIVA NANDINI	Nandini
39	20NP1A4240	VEMA PRADEEPTHI	V. Pradeepthi
40	20NP1A4241	VEMPATTI KUSUMA	Kusuma
41	20NP1A4242	VEMULAPALLI CHANDANA	V. Chandana
42	20NP1A4243	VURIMI RATNA SAI SRILEKHA	V. R. Sai Srilekha
43	20NP1A4244	Y.BABY VARALAKSHMI	Y. varalakshmi

COORDINATOR

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26-10-2022

## REPORT

**Name of the Program** : Combating with Gender Inequality  
**Date of the Program** : 18-10-2022  
**Place of the Program** : First Floor Seminar Hall  
**Organized by** : Department of AI&ML  
**Objective** : To Strengthen overall processes that promote the all-around development and empowerment of women.

Students of AI& ML participated in an awareness program on “Combating with Gender Inequality”. The Program commenced with an informative session by Mrs. A. Swathi in the field. The theme of the program was to Eliminate all forms of violence against all girls where there is lack of awareness in our society. Students learnt that every girl child has the right to safeguard and learn about the form of Violence and how to act accordingly to sustain and develop through the odds. Students were so encouraged with the interactive session and discussed their view of approaching the issue and digging the solution to it by themselves.



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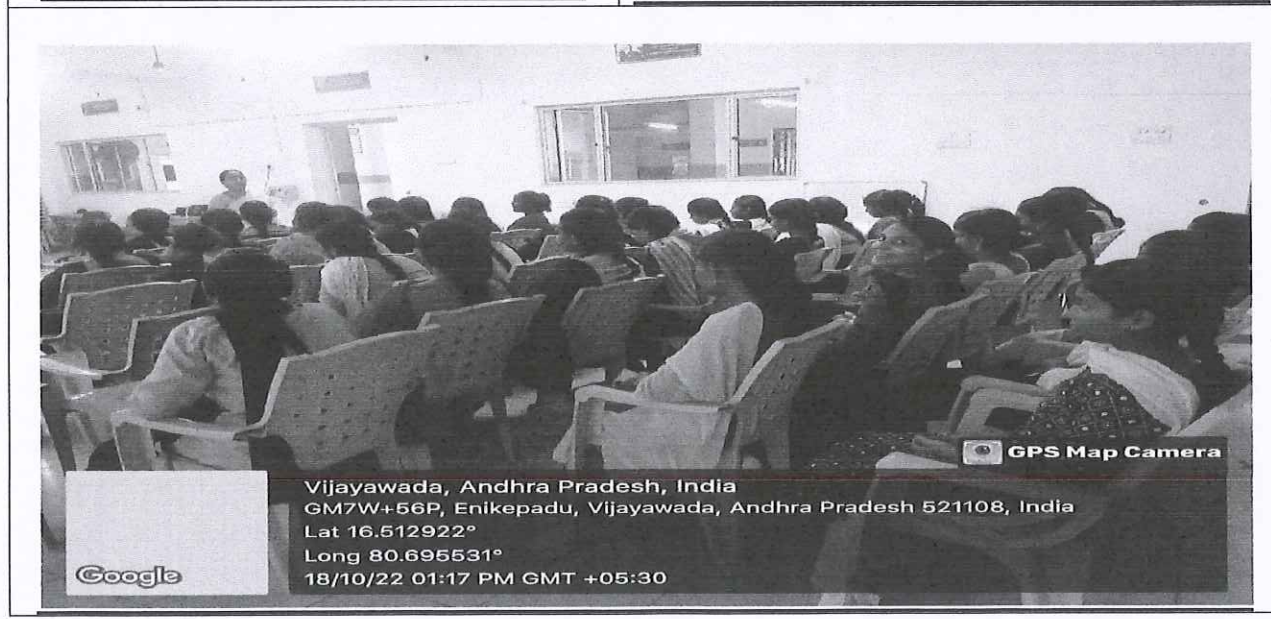
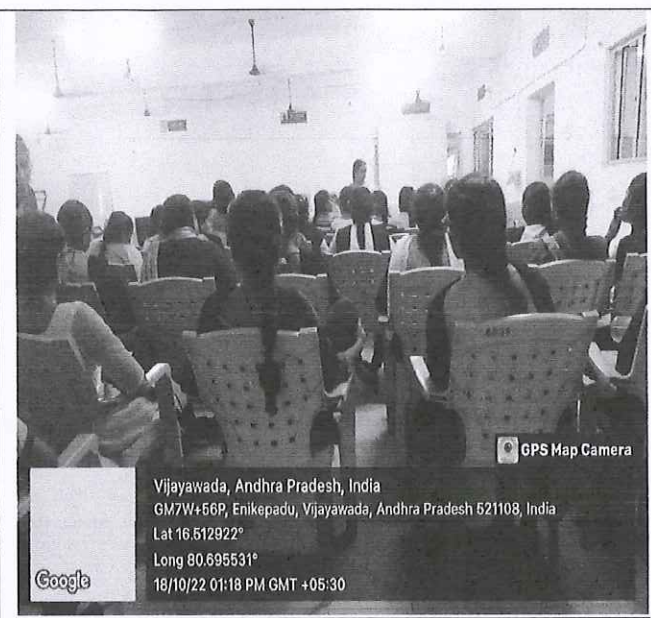
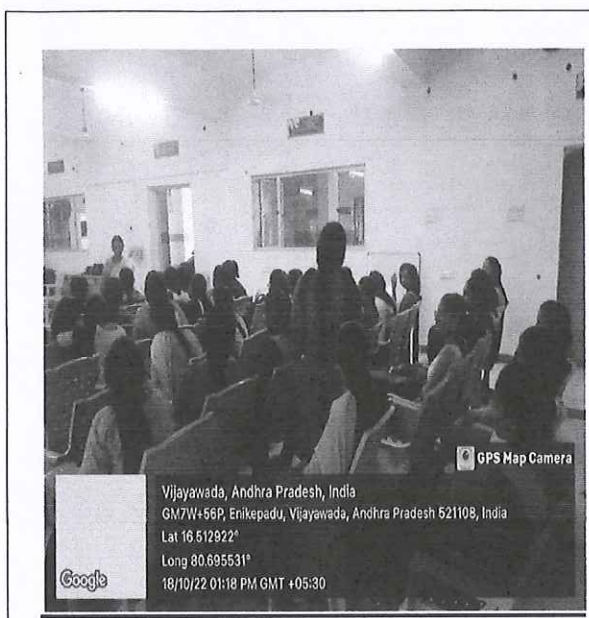
  
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## Awareness Program on "Combating with Gender Inequality"



*MD*  
**COORDINATOR**



*Chand G*  
**HoD**

*G. Chm*  
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Date: 13-10-2022

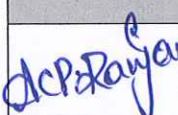
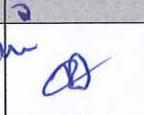
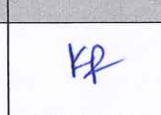

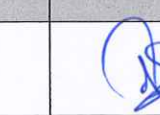
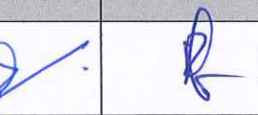
## CIRCULAR

This is to bring to your kind notice that S&H department organize **Plastic Collection Drive under Swachh Bharat Abhiyan in Kanuru Village on 19<sup>th</sup> October, 2022** from 10.00am. The waste can be collected at door-to-door, and at specialized drop-off points. Students who are interested to participate can give their names to NSS coordinator on or before 18-10-2022.


  
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Department of S&H



  
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Date: 18-08-2020



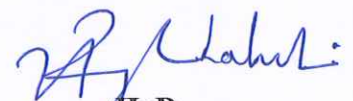
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Dt: 22/10/2022

PROGRAM REPORT		
1	Event type	PLASTIC WASTE COLLECTION DRIVE
2	Title of the Event	CLEAN INDIA 2.0
3	Objective of the Event	To create awareness through students about the need to discourage single use plastics
4	Event Date	19/10/2022
5	Event End Date	19/10/2022
6	Description	Students participated in cleanliness drive in Kanuru village from 10.00 a m. The drive focuses on reducing plastic pollution and promoting sustainable practices. Students collected food wrappers, plastic bottles, plastic bottle caps, plastic grocery bags, plastic straws, and stirrers from households, shops and at drop off points. They collected 20kgs of Plastic and handover to Enikepadu Panchayath office.
7	Outcome of the Event	Students learnt that beating plastic contributes cleaner and healthier environment for themselves and future generations.

  
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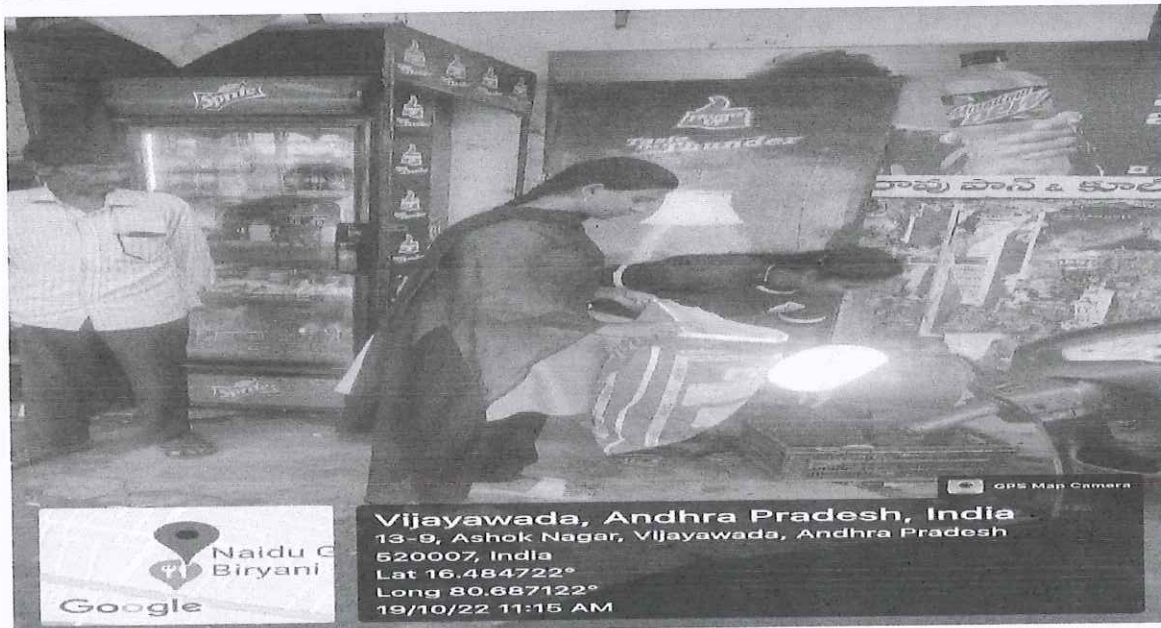




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College Code: NP, Enikepadu, Vijayawada-521108

## PLASTIC WASTE COLLECTION DRIVE



*V. Prasad*  
COORDINATOR

*V. Lakshmi*  
HoD



*G. Chm*  
PRINCIPAL  
VIJAYA INSTITUTE OF  
TECHNOLOGY FOR WOMEN  
ENIKEPADU, VIJAYAWADA-521 108.

Total 2

14

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Date: 26-07-2022

**CIRCULAR**

This is to bring to your notice that, on the eve of Nature Conservation Day (28<sup>th</sup> July, 2022), NSS unit of VITW is organizing **Plantation program at Kanuru and Nidamanuru villages from 10.30am**. Active participation of all the members of VITW is requested on this occasion. Interested students can enroll their names to NSS coordinator on or before 27-7-2022.

*Shashi*  
 NSS PROGRAMME OFFICER  
 Unit No. 20214621  
 VIJAYA INSTITUTE OF TECHNOLOGY FOR WOMEN  
 ENIKEPADU, VIJAYAWADA-521 108.

*G. Choor*  
 PRINCIPAL  
 PRINCIPAL  
 VIJAYA INSTITUTE OF  
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 ENIKEPADU, VIJAYAWADA-521 108

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2. Notice Board

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<i>Adi</i>	<i>Shashi</i>	<i>RP</i>	<i>Van</i>	<i>Choor</i>	<i>RP</i>





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<b>NATIONAL SERVICE SCHEME (NSS)</b>		

Date: 01-08-2022

**NSS UNIT - 90214621**

<b>PROGRAM REPORT</b>		
<b>1</b>	<b>Event type</b>	PLANTATION
<b>2</b>	<b>Title of the Event</b>	NATURE CONSERVATION DAY
<b>3</b>	<b>Event Start Date</b>	28/07/2022
<b>4</b>	<b>Objective of the Event</b>	To improve greenery in their neighbourhood
<b>5</b>	<b>Description</b>	On 28 <sup>th</sup> July 2022 marked as Nature Conservation Day, the NSS unit organized the plantation drive program at Kanuru and Nidamanuru village. 50 Hibiscus plants were bought by the institution for each village and distributed to the local residents of the village. Students showed a great enthusiasm in the distribution and planting of saplings.
<b>6</b>	<b>Outcome of the Event</b>	Students realized that plantation makes the area worth living for and also makes the atmosphere of the village more tolerable.

  
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<p><b>NATIONAL SERVICE SCHEME (NSS)</b></p>		

**NSS UNIT – 90214621**

**PHOTOS AND PRESS CLIPS**

<p><b>EVENT PIC-1</b></p>	 <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;">  <p>NIDAMANURU</p> </div> <div style="background-color: black; color: white; padding: 5px;"> <p>Vijayawada, Andhra Pradesh, India              7-72, Nidamanuru, Vijayawada, Andhra Pradesh 521104, India              Lat 16.508378°              Long 80.721004°              28/07/22 12:59 PM</p> </div> </div>
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<p><b>EVENT PIC-2</b></p>	 <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;">  <p>NIDAMANURU</p> </div> <div style="background-color: black; color: white; padding: 5px;"> <p>Vijayawada, Andhra Pradesh, India              GP5C+67C, Nidamanuru, Vijayawada, Andhra Pradesh 521104, India              Lat 16.508332°              Long 80.720579°              28/07/22 12:48 PM</p> </div> </div>
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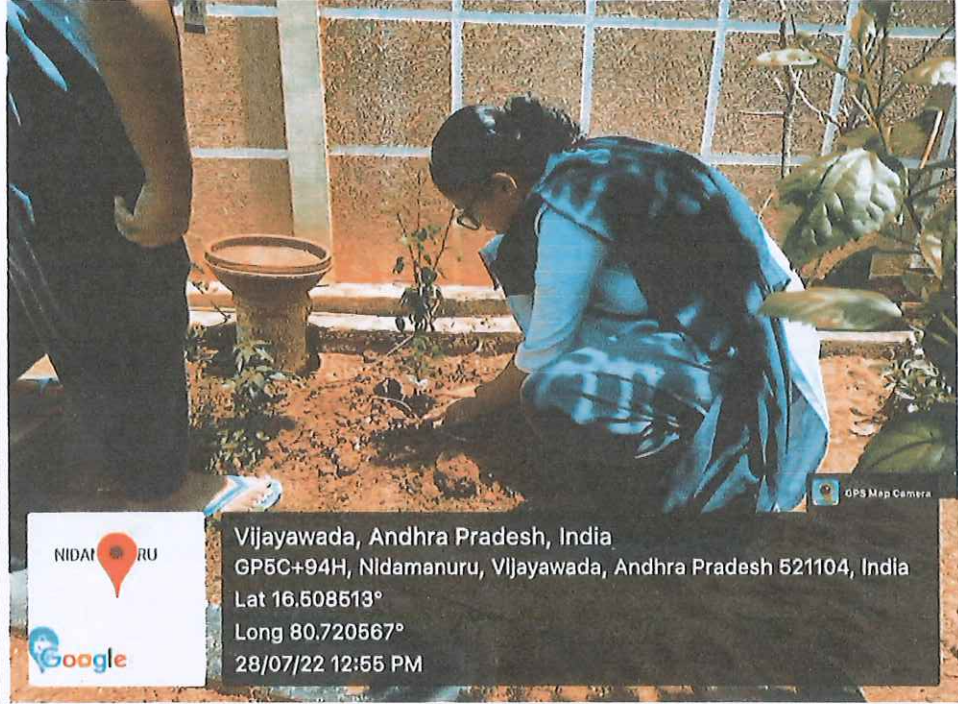
*Stadhy*  
**NSS-PROGRAMME OFFICER**  
 Unit No: 90214621  
**VIJAYA INSTITUTE OF TECHNOLOGY FOR WOMEN**  
 ENIKEPADU, VIJAYAWADA-521 108.

*G. Chm*  
**PRINCIPAL**  
**VIJAYA INSTITUTE OF**  
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PHOTOS AND PRESS CLIPS

EVENT  
PIC-3



EVENT  
PIC-4



ప్రకృతిని అందరూ పరిరక్షించుకోవాలని విజయ ఇంజనీరింగ్ కళాశాల ప్రిన్సిపల్ చెంచమ్మ అన్నారు. గురువారం జాతీయ ప్రకృతి పరిరక్షణ దినోత్సవాన్ని పురస్కరించుకుని ఎన్ఎన్ఎస్ విద్యార్థినులు ర్యాలీ చేపట్టారు. అనంతరం వారు కానూరు, నిడమానూరు, పోరంకి గ్రామాల్లో మందార మొక్కలు పంపిణీ చేశారు. కళాశాల ఎన్ఎన్ఎస్ అధికారి మదుశ్రీ, అధ్యాపకులు, తదితరులు పాల్గొన్నారు. - న్యూస్టుడే, కానూరు

*Stacy*  
Unit No: 90214621  
VIJAYA INSTITUTE OF TECHNOLOGY FOR WOMEN  
ENIGERAMPETA, VIJAYAWADA-521 108.

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PRINCIPAL  
VIJAYA INSTITUTE OF  
TECHNOLOGY FOR WOMEN  
ENIGERAMPETA, VIJAYAWADA-521 108.

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<b>NATIONAL SERVICE SCHEME (NSS)</b>		

Dt: 25-08-2022

**CIRCULAR**

This is to inform that all the students and staff that NSS Unit of our college is organizing a **Blood Donation Camp on 30<sup>th</sup> August, 2022 (Tuesday)** at our college campus in first floor seminar hall from 10.30am to 3.00pm in co-ordination with Indian Red Cross, Vijayawada. We are inviting students to bring donors from their family or community for donating the blood in the camp. The interested students, Staff and Faculty members, who want to donate their blood, can give their names to Departmental NSS coordinators by 29/8/2022.

*Stacy*  
 25/8/22  
**NSS-PROGRAMME OFFICER**  
 NSS PO  
 UPI No: 90214621  
**VIJAYA INSTITUTE OF TECHNOLOGY FOR WOMEN**  
**ENIKEPADU, VIJAYAWADA-521 108.**

*G. Chinn*  
**PRINCIPAL**  
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<i>AKR Panjani</i>	<i>mes</i>	<i>FP</i>	<i>Ujan</i>	<i>AG</i>	<i>AB/Unnik</i>

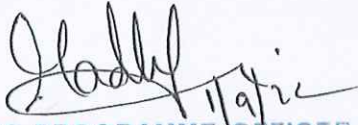


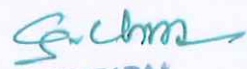
	<p align="center"><b>VIJAYA INSTITUTE OF TECHNOLOGY FOR WOMEN</b>          (An ISO 9001-2015 Certified Institution, Approved by AICTE and Affiliated to JNTU-K Kakinada, A.P)          Phone: 0866-2844444, Email: vijayatechfw@gmail.com, Website: www.vitw.edu.in          Enikepadu, Vijayawada Rural(Md), NTR(Dt.)-521108</p>	
<b>NATIONAL SERVICE SCHEME (NSS)</b>		

Dt: 1/09/2022

NSS UNIT – 90214621

<b>PROGRAM REPORT</b>		
1	<b>Event type</b>	BLOOD DONATION
2	<b>Title of the Event</b>	BLOOD DONATION CAMP
3	<b>Date of the Event</b>	30-08-2022
4	<b>Objective of the Event</b>	To inculcate the value that helping others through blood donation is life saving and life giving
7	<b>Description</b>	Blood donation camp was organised by our NSS unit, in collaboration with Indian Red Cross Society, Vijayawada, through which more than 50 units of blood was donated by students, staff and their family members. The camp was inaugurated by Mr.Zaveer Khan, SI, Patamata police station. The camp was organized with the purpose of supplying blood to the blood banks for the needy. Students felt happy to provide great service to the society.
8	<b>Outcome of the Event</b>	Students are motivated that blood donation gives an opportunity to add value to one's life

  
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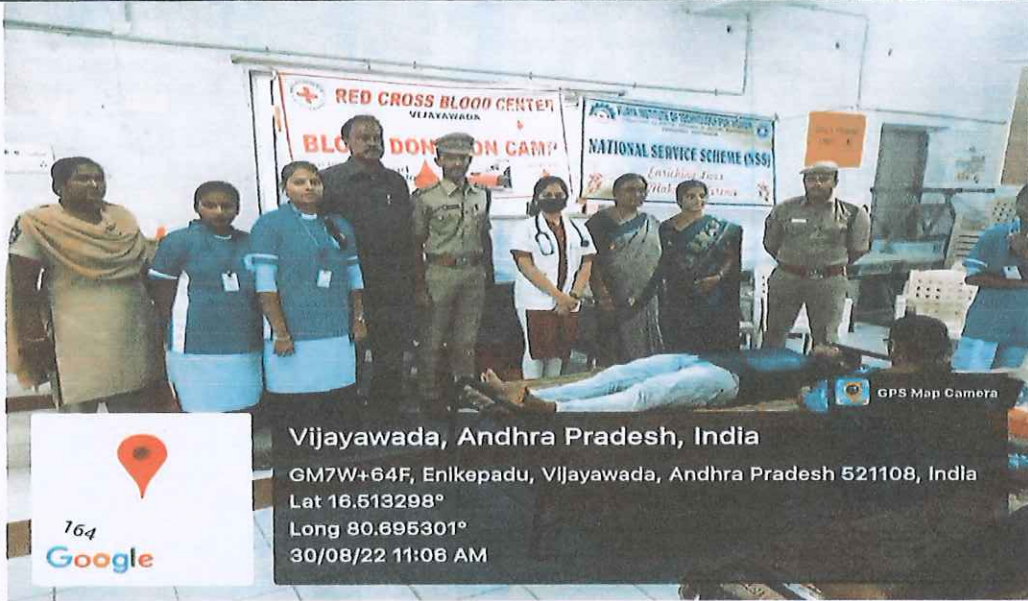


### NATIONAL SERVICE SCHEME (NSS)

NSS UNIT - 90214621

### PHOTOS AND PRESS CLIPS

EVENT  
PIC -1



EVENT  
PIC -2



*Study*  
**NSS-PROGRAMME OFFICER**  
 Unit No: 90214621  
**VIJAYA INSTITUTE OF TECHNOLOGY FOR WOMEN**  
**ENIKEPADU, VIJAYAWADA-521 108.**

*G. Chon*  
**PRINCIPAL**  
**VIJAYA INSTITUTE OF**  
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PHOTOS AND PRESS CLIPS

EVENT  
PIC -3



EVENT  
PIC -4



*Shady*  
NSS-PROGRAMME OFFICER  
Unit No: 90214621  
VIJAYA INSTITUTE OF TECHNOLOGY FOR WOMEN  
ENIKEPADU, VIJAYAWADA-521 108.

*G. Umm*  
PRINCIPAL  
VIJAYA INSTITUTE OF  
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**KAKINADA – 533 003, Andhra Pradesh, India**

**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**

**COURSE STRUCTURE - R19**

**I Year – I SEMESTER**

S. No	Course Code	Subjects	L	T	P	Credits
1	HS1101	English	3	0	0	3
2	BS1101	Mathematics - I	3	0	0	3
3	BS1106	Applied Chemistry	3	0	0	3
4	ES1112	Fundamentals of Computer Science	3	0	0	3
5	ES1103	Engineering Drawing	1	0	3	2.5
6	HS1102	English Lab	0	0	3	1.5
7	BS1107	Applied Chemistry Lab	0	0	3	1.5
8	ES1105	IT Workshop	0	0	3	1.5
9	MC1101	Environmental Science	3	0	0	0
<b>Total Credits</b>			<b>16</b>	<b>0</b>	<b>12</b>	<b>19</b>

**I Year – II SEMESTER**

S. No	Course Code	Subjects	L	T	P	Credits
1	BS1202	Mathematics – II	3	0	0	3
2	BS1203	Mathematics – III	3	0	0	3
3	BS1204	Applied Physics	3	0	0	3
4	ES1201	Programming for Problem Solving using C	3	0	0	3
5	ES1213	Digital Logic Design	3	0	0	3
6	BS1205	Applied Physics Lab	0	0	3	1.5
7	HS1203	Communication Skills Lab	0	1	2	2
8	ES1202	Programming for Problem Solving using C Lab	0	0	3	1.5
9	PR1201	Engineering Exploration Project	0	0	2	1
10	MC1204	Constitution of India	3	0	0	0
<b>Total Credits</b>			<b>18</b>	<b>1</b>	<b>10</b>	<b>21</b>





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**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**

<b>I Year - I Semester</b>		<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
		<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>ENVIRONMENTAL SCIENCE (MC1101)</b>					

**Course Objectives:**

The objectives of the course are to impart:

- Overall understanding of the natural resources.
- Basic understanding of the ecosystem and its diversity.
- Acquaintance on various environmental challenges induced due to unplanned anthropogenic activities.
- An understanding of the environmental impact of developmental activities.
- Awareness on the social issues, environmental legislation and global treaties.

**UNIT I**

Multidisciplinary nature of Environmental Studies: Definition, Scope and Importance – Sustainability: Stockholm and Rio Summit–Global Environmental Challenges: Global warming and climate change, acid rains, ozone layer depletion, population growth and explosion, effects. Role of information technology in environment and human health.

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 Forest ecosystem, Grassland ecosystem, Desert ecosystem, Aquatic ecosystems.

**UNIT II**

Natural Resources: Natural resources and associated problems.

Forest resources: Use and over – exploitation, deforestation – Timber extraction – Mining, dams and other effects on forest 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.

Food resources: World food problems, changes caused by non-agriculture activities-effects of modern agriculture, fertilizer-pesticide problems, water logging, salinity.

Energy resources: Growing energy needs, renewable and non-renewable energy sources use of alternate energy sources.

Land resources: Land as a resource, land degradation, Wasteland reclamation, man induced landslides, soil erosion and desertification; Role of an individual in conservation of natural resources; Equitable use of resources for sustainable lifestyles.

**UNIT III**

Biodiversity and its conservation: Definition: genetic, species and ecosystem diversity-classification - Value of biodiversity: consumptive use, productive use, social-Biodiversity at national and local levels. India as a mega-diversity nation - Hot-spots of biodiversity - Threats to biodiversity: habitat loss, man-wildlife conflicts. - Endangered and endemic species of India – Conservation of biodiversity: conservation of biodiversity.

**UNIT IV**

Environmental Pollution: Definition, Cause, effects and control measures of Air pollution, Water pollution, Soil pollution, Noise pollution, Nuclear hazards. Role of an individual in prevention of



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**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**

pollution. - Pollution case studies, Sustainable Life Studies. Impact of Fire Crackers on Men and his well being.

Solid Waste Management: Sources, Classification, effects and control measures of urban and industrial solid wastes. Consumerism and waste products, Biomedical, Hazardous and e – waste management.

**UNIT V**

Social Issues and the Environment: Urban problems related to energy -Water conservation, rain water harvesting-Resettlement and rehabilitation of people; its problems and concerns. Environmental ethics: Issues and possible solutions. Environmental 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.

Environmental Management: Impact Assessment and its significance various stages of EIA, preparation of EMP and EIS, Environmental audit. Ecotourism, Green Campus – Green business and Green politics.

The student should Visit an Industry / Ecosystem and submit a report individually on any issues related to Environmental Studies course and make a power point presentation.


**Text Books:**

- 1) Environmental Studies, K. V. S. G. Murali Krishna, VGS Publishers, Vijayawada
- 2) Environmental Studies, R. Rajagopalan, 2<sup>nd</sup> Edition, 2011, Oxford University Press.
- 3) Environmental Studies, P. N. Palanisamy, P. Manikandan, A. Geetha, and K. Manjula Rani; Pearson Education, Chennai

**Reference Books:**

- 1) Text Book of Environmental Studies, Deeshita Dave & P. Udaya Bhaskar, Cengage Learning.
- 2) A Textbook of Environmental Studies, Shaashi Chawla, TMH, New Delhi
- 3) Environmental Studies, Benny Joseph, Tata McGraw Hill Co, New Delhi
- 4) Perspectives in Environment Studies, Anubha Kaushik, C P Kaushik, New Age International Publishers, 2014



  
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**KAKINADA – 533 003, Andhra Pradesh, India**

**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**

**COURSE STRUCTURE - R19**

**I Year – I SEMESTER**

Sl. No	Course Code	Subjects	L	T	P	Credits
1	HS1101	English	3	0	0	3
2	BS1101	Mathematics - I	3	0	0	3
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8	ES1105	IT Workshop	0	0	3	1.5
9	MC1101	Environmental Science	3	0	0	0
<b>Total Credits</b>			<b>16</b>	<b>0</b>	<b>12</b>	<b>19</b>

**I Year – II SEMESTER**

Sl. No	Course Code	Subjects	L	T	P	Credits
1	BS1202	Mathematics – II	3	0	0	3
2	BS1203	Mathematics – III	3	0	0	3
3	BS1204	Applied Physics	3	0	0	3
4	ES1201	Programming for Problem Solving using C	3	0	0	3
5	ES1213	Digital Logic Design	3	0	0	3
6	BS1205	Applied Physics Lab	0	0	3	1.5
7	HS1203	Communication Skills Lab	0	1	2	2
8	ES1202	Programming for Problem Solving using C Lab	0	0	3	1.5
9	PR1201	Engineering Exploration Project	0	0	2	1
10	MC1204	Constitution of India	3	0	0	0
<b>Total Credits</b>			<b>18</b>	<b>1</b>	<b>10</b>	<b>21</b>



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**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**

<b>I Year - II Semester</b>		<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
		<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>CONSTITUTION OF INDIA (MC1204)</b>					

**Course Objectives:**

- To Enable the student to understand the importance of constitution
- To understand the structure of executive, legislature and judiciary
- To understand philosophy of fundamental rights and duties
- To understand the autonomous nature of constitutional bodies like Supreme Court and high court controller and auditor general of India and election commission of India.
- To understand the central and state relation financial and administrative.

**UNIT-I**

Introduction to Indian Constitution: Constitution meaning of the term, Indian Constitution - Sources and constitutional history, Features - Citizenship, Preamble, Fundamental Rights and Duties, Directive Principles of State Policy.

**Learning outcomes:**

After completion of this unit student will

- Understand the concept of Indian constitution
- Apply the knowledge on directive principle of state policy
- Analyze the History, features of Indian constitution
- Evaluate Preamble Fundamental Rights and Duties

**UNIT-II**

Union Government and its Administration Structure of the Indian Union: Federalism, Centre- State relationship, President: Role, power and position, PM and Council of ministers, Cabinet and Central Secretariat, Lok Sabha, Rajya Sabha, The Supreme Court and High Court: Powers and Functions;

**Learning outcomes:-**After completion of this unit student will

- Understand the structure of Indian government
- Differentiate between the state and central government
- Explain the role of President and Prime Minister
- Know the Structure of supreme court and High court

**UNIT-III**

State Government and its Administration Governor - Role and Position - CM and Council of ministers, State Secretariat: Organisation, Structure and Functions

**Learning outcomes:-**After completion of this unit student will

- Understand the structure of state government
- Analyze the role Governor and Chief Minister
- Explain the role of state Secretariat
- Differentiate between structure and functions of state secretariat

**UNIT-IV**

A. Local Administration - District's Administration Head - Role and Importance, Municipalities - Mayor and role of Elected Representative - CEO of Municipal Corporation Pachayati Raj: Functions PRI: Zila Panchayat, Elected officials and their roles, CEO Zila Panchayat: Block level Organizational Hierarchy - (Different departments), Village level - Role of Elected and Appointed officials - Importance of grass root democracy

**Learning outcomes:-**After completion of this unit student will

- Understand the local Administration
- Compare and contrast district administration role and importance
- Analyze the role of Myer and elected representatives of Municipalities
- Evaluate Zillapanchayat block level organisation





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**UNIT-V**

Election Commission: Election Commission- Role of Chief Election Commissioner and Election Commissionerate State Election Commission:, Functions of Commissions for the welfare of SC/ST/OBC and women

**Learning outcomes:-**After completion of this unit student will

- Know the role of Election Commission apply knowledge
- Contrast and compare the role of Chief Election commissioner and Commissiononerate
- Analyze role of state election commission
- Evaluate various commissions of viz SC/ST/OBC and women

**References:**

1. Durga Das Basu, Introduction to the Constitution of India, Prentice – Hall of India Pvt. Ltd., New Delhi
2. SubashKashyap, Indian Constitution, National Book Trust
3. J.A. Siwach, Dynamics of Indian Government & Politics
4. D.C. Gupta, Indian Government and Politics
5. H.M.Sreevai, Constitutional Law of India, 4th edition in 3 volumes (Universal Law Publication)
6. J.C. Johari, Indian Government andPolitics Hans
7. J. Raj IndianGovernment and Politics
8. M.V. Pylee, Indian Constitution Durga Das Basu, Human Rights in Constitutional Law, Prentice – Hall of India Pvt. Ltd., New Delhi
9. Noorani, A.G., (South Asia Human Rights Documentation Centre), Challenges to Civil Right), Challenges to Civil Rights Guarantees in India, Oxford University Press 2012

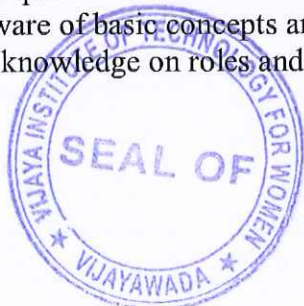
**E-resources:**


1. [nptel.ac.in/courses/109104074/8](http://nptel.ac.in/courses/109104074/8)
2. [nptel.ac.in/courses/109104045/](http://nptel.ac.in/courses/109104045/)
3. [nptel.ac.in/courses/101104065/](http://nptel.ac.in/courses/101104065/)
4. [www.hss.iitb.ac.in/en/lecture-details](http://www.hss.iitb.ac.in/en/lecture-details)
5. [www.iitb.ac.in/en/event/2nd-lecture-institute-lecture-series-indian-constitution](http://www.iitb.ac.in/en/event/2nd-lecture-institute-lecture-series-indian-constitution)

**Course Outcomes:**

At the end of the semester/course, the student will be able to have a clear knowledge on the following:

- Understand historical background of the constitution making and its importance for building a democratic India.
- Understand the functioning of three wings of the government ie., executive, legislative and judiciary.
- Understand the value of the fundamental rights and duties for becoming good citizen of India.
- Analyze the decentralization of power between central, state and local self-government.
- Apply the knowledge in strengthening of the constitutional institutions like CAG, Election Commission and UPSC for sustaining democracy.
  1. Know the sources, features and principles of Indian Constitution.
  2. Learn about Union Government, State government and its administration.
  3. Get acquainted with Local administration and Pachayati Raj.
  4. Be aware of basic concepts and developments of Human Rights.
  5. Gain knowledge on roles and functioning of Election Commission



  
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**KAKINADA – 533 003, Andhra Pradesh, India**

**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**

**II Year – I SEMESTER**

S.No	Course Code	Courses	L	T	P	Credits
1	CS2101	Mathematical Foundations of Computer Science	3	1	0	4
2	CS2102	Software Engineering	3	0	0	3
3	ES2101	Python Programming	3	0	0	3
4	CS2103	Data Structures	3	0	0	3
5	CS2104	Object Oriented Programming through C++	3	0	0	3
6	CS2105	Computer Organization	3	0	0	3
7	ES2102	Python Programming Lab	0	0	3	1.5
8	CS2106	Data Structures through C++ Lab	0	0	3	1.5
9	MC2101	Essence of Indian Traditional Knowledge	2	0	0	0
10	MC2102	Employability Skills- I*	2	0	0	0
<b>Total</b>			<b>23</b>	<b>1</b>	<b>6</b>	<b>22</b>
<b>*Internal Evaluation through Seminar / Test for 50 marks</b>						

**II Year – II SEMESTER**

S.No	Course Code	Courses	L	T	P	Credits
1	BS2201	Probability and Statistics	3	0	0	3
2	CS2201	Java Programming	2	1	0	3
3	CS2202	Operating Systems	3	0	0	3
4	CS2203	Database Management Systems	3	1	0	4
5	CS2204	Formal Languages and Automata Theory	3	0	0	3
6	CS2205	Java Programming Lab	0	0	3	1.5
7	CS2206	UNIX Operating System Lab	0	0	2	1
8	CS2207	Database Management Systems Lab	0	0	3	1.5
9	MC2201	Professional Ethics & Human Values	3	0	0	0
10	PR2201	Socially Relevant Project*	0	0	2	1
<b>Total</b>			<b>17</b>	<b>2</b>	<b>10</b>	<b>21</b>
<b>*Internal Evaluation through Seminar for 50 marks</b>						



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**KAKINADA – 533 003, Andhra Pradesh, India**

**DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION ENGINEERING**

<b>III Year- I Semester</b>		<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
		<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>PROFESSIONAL ETHICS &amp; HUMAN VALUES</b>					

### OBJECTIVES

The main objectives of this course are

- To give basic insights and inputs to the student to inculcate Human values to grow as a responsible human being with proper personality.
- Professional Ethics instils 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.



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**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.

**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.

**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.

**OUTCOMES**

**At the end of this course the student will be able to**

- 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 fulfil the professional obligations effectively.



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### III Year – I Semester

S. No.	Course	Category	L	T	P	Credits
1	Linear Integrated Circuits and Applications	PC	3	0	0	3
2	Microprocessor and Microcontrollers	PC	3	0	0	3
3	Digital Communications	PC	3	0	0	3
4	Electronic Measurements & Instrumentation	PC	3	0	0	3
5	Professional Elective (PE 1)	PE	3	0	0	3
6	Linear Integrated Circuits and Applications - Lab	LC	0	0	3	1.5
7	Digital Communications Lab	LC	0	0	3	1.5
8	Microprocessor and Microcontrollers - Lab	LC	0	0	3	1.5
9	Mini Project with Hardware Development	PR	0	0	3	1.5
10	Essence of Indian Traditional Knowledge	MC	3	0	0	0
Sub-Total						<b>21</b>

### III Year – IISemester

S. No.	Course	Category	L	T	P	Credits
1	Wired and Wireless Transmission Devices	PC	3	0	0	3
2	VLSI Design	PC	3	0	0	3
3	Digital Signal Processing	PC	3	0	0	3
4	Professional Elective (PE2)	PE	3	0	0	3
5	Open Elective (OE1)	OE	3	0	0	3
6	Internet of Things	PC	3	0	0	3
7	VLSI Lab	LC	0	0	3	1.5
8	Digital Signal Processing Lab	LC	0	0	3	1.5
9	Intellectual Property Rights (IPR) & Patents	MC	3	0	0	0
Sub-Total						<b>21</b>



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III Year - II Semester	L	T	P	C
		3	0	0

**Intellectual Property Rights (IPR) & Patents**

**UNIT I**

Introduction to Intellectual Property Rights (IPR): Concept of Property - Introduction to IPR – International Instruments and IPR - WIPO - TRIPS – WTO -Laws Relating to IPR - IPR Tool Kit - Protection and Regulation - Copyrights and Neighboring Rights – Industrial Property – Patents - Agencies for IPR Registration – Traditional Knowledge –Emerging Areas of IPR - Layout Designs and Integrated Circuits – Use and Misuse of Intellectual PropertyRights.

**UNIT II**

Copyrights and Neighboring Rights: Introduction to Copyrights – Principles of Copyright Protection – Law Relating to Copyrights - Subject Matters of Copyright – Copyright Ownership – Transfer and Duration – Right to Prepare Derivative Works –Rights of Distribution – Rights of Performers – Copyright Registration – Limitations – Infringement of Copyright – Relief and Remedy – Case Law - Semiconductor Chip ProtectionAct.

**UNIT III**

Patents: Introduction to Patents - Laws Relating to Patents in India – Patent Requirements – Product Patent and Process Patent - Patent Search - Patent Registration and Granting of Patent - Exclusive Rights – Limitations - Ownership and Transfer — Revocation of Patent – Patent Appellate Board - Infringement of Patent – Compulsory Licensing — Patent Cooperation Treaty – New developments in Patents – Software Protection and Computer relatedInnovations

**UNIT IV**

Trademarks: Introduction to Trademarks – Laws Relating to Trademarks – Functions of Trademark – Distinction between Trademark and Property Mark – Marks Covered under Trademark Law - Trade Mark Registration – Trade Mark Maintenance – Transfer of rights - Deceptive Similarities

Likelihood of Confusion - Dilution of Ownership – Trademarks Claims and Infringement – Remedies – Passing Off Action.



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**UNIT V**

Trade Secrets & Cyber Law and Cyber Crime: Introduction to Trade Secrets – General Principles  
 - Laws Relating to Trade Secrets–  
 Maintaining Trade Secret – Physical Security – Employee Access Limitation – Employee Confidentiality Agreements – Breach of Contract –Law of Unfair Competition – Trade Secret Litigation – Applying State Law.  
 Cyber Law – Information Technology Act 2000 - Protection of Online and Computer Transactions –  
 E-commerce - Data Security – Authentication and Confidentiality - Privacy - Digital Signatures – Certifying Authorities - Cyber Crimes - Prevention and Punishment – Liability of Network Providers.

**References:**

- 1) Intellectual Property Rights (Patents & Cyber Law), Dr. A. Srinivas. Oxford University Press, NewDelhi.
- 2) Deborah E.Bouchoux: Intellectual Property, Cengage Learning, NewDelhi.
- 3) PrabhuddhaGanguli: Intellectual Property Rights, Tata Mc-Graw –Hill, NewDelhi
- 4) Richard Stim: Intellectual Property, Cengage Learning, NewDelhi.
- 5) Kompal Bansal &Parishit Bansal Fundamentals of IPR for Engineers, B. S. Publications (Press).
- 6) Cyber Law - Texts & Cases, South-Western's Special TopicsCollections.
- 7) R.Radha Krishnan, S.Balasubramanian: Intellectual Property Rights, Excel Books. New Delhi.
- 8) M.Ashok Kumar and MohdIqbal Ali: Intellectual Property Rights, SerialsPub.

**Course Outcomes:**

- IPR Laws and patents pave the way for innovative ideas which are instrumental for inventions to seek Patents
- Student get an insight on Copyrights, Patents and Software patents which are instrumental for further advancements
- advanced Technical and Scientific disciplines
- Imparting IPR protections and regulations for further advancement, so that the students can familiarize with the latest developments



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**COURSE STRUCTURE**

**I Year –I SEMESTER**

S. No.	Category	Subjects	L	T	P	Credits
1	HS	Communicative English	3	0	0	3
2	BS	Mathematics –I( Calculus)	3	0	0	3
3	BS	Applied Chemistry	3	0	0	3
4	ES	Programming for Problem Solving Using C	3	0	0	3
5	BS	Engineering Drawing	2	0	2	3
6	LC	English Communication Skills Laboratory	0	0	3	1.5
7	LC	Applied Chemistry Lab	0	0	3	1.5
8	LC	Programming for Problem Solving Using C Lab	0	0	3	1.5
<b>Total Credits</b>						<b>19.5</b>

**I Year – II SEMESTER**

S. No	Category	Subjects	L	T	P	Credits
1	BS	Mathematics –II (Linear Algebra and Numerical Methods)	3	0	0	3
2	BS	Applied Physics	3	0	0	3
3	ES	Object Oriented Programming through Java	2	0	2	3
4	ES	Network Analysis	3	0	0	3
5	ES	Basic Electrical Engineering	3	0	0	3
6	LC	Electronic workshop Lab	0	0	3	1.5
7	LC	Basic Electrical Engineering Lab	0	0	3	1.5
8	LC	Applied Physics Lab	0	0	3	1.5
9	MC	Environmental Science	3	0	0	0.0
<b>Total Credits</b>						<b>19.5</b>





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<b>I Year - II Semester</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
	<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>ENVIRONMENTAL SCIENCE</b>				

**Course Objective:**

Engineering drawing being the principal method of communication for engineers, the objective is to introduce the students, the techniques of constructing the various types of polygons, curves and scales. The objective is also to visualize and represent the 3D objects in 2D planes with proper dimensioning, scaling etc.

**Unit I**

**Objective:** To introduce the students to use drawing instruments and to draw polygons, Engg. Curves.

**Polygons:** Constructing regular polygons by general methods, inscribing and describing polygons on circles.

**Curves:** Parabola, Ellipse and Hyperbola by general and special methods, cycloids, involutes, tangents & normals for the curves.

**Scales:** Plain scales, diagonal scales and vernier scales

**Unit II**

**Objective:** To introduce the students to use orthographic projections, projections of points & simple lines. To make the students draw the projections of the lines inclined to both the planes.

**Orthographic Projections:** Reference plane, importance of reference lines, projections of points in various quadrants, projections of lines, line parallel to both the planes, line parallel to one plane and inclined to other plane.

Projections of straight lines inclined to both the planes, determination of true lengths, angle of inclination and traces.

**Unit III**

**Objective:** The objective is to make the students draw the projections of the plane inclined to both the planes. Projections of planes: regular planes perpendicular/parallel to one reference plane and inclined to the other reference plane; inclined to both the reference planes.

**Unit IV**

**Objective:** The objective is to make the students draw the projections of the various types of solids in different positions inclined to one of the planes.

Projections of Solids – Prisms, Pyramids, Cones and Cylinders with the axis inclined to both the planes.

**Unit V**

**Objective:** The objective is to represent the object in 3D view through isometric views. The student will be able to represent and convert the isometric view to orthographic view and vice versa.

Conversion of isometric views to orthographic views; Conversion of orthographic views to isometric views. Computer Aided Design, Drawing practice using Auto CAD, Creating 2D&3D drawings of objects using Auto CAD

**Note:** In the End Examination there will be no question from CAD.



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**TEXT BOOKS:**

- 1. Engineering Drawing by N.D. Butt, Chariot Publications
- 2. Engineering Drawing by Agarwal & Agarwal, Tata McGraw Hill Publishers

**REFERENCE BOOKS:**

- 1. Engineering Drawing by K.L.Narayana& P. Kannaiah, Scitech Publishers
- 2. Engineering Graphics for Degree by K.C. John, PHI Publishers
- 3. Engineering Graphics by PI Varghese, McGrawHill Publishers
- 4. Engineering Drawing + AutoCad – K Venugopal, V. Prabhu Raja, New Age

**Course Outcome:** The student will learn how to visualize 2D & 3D objects.



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**DEPARTMENT OF CSE - ARTIFICIAL INTELLIGENCE & MACHINE LEARNING**

IV B. Tech –I Semester (Tentative)						
S.No	Course Code	Course Title	Hours per week			Credits
			L	T	P	C
1	PE	<b>Professional Elective-III</b> 1.Reinforcement Learning 2.Soft Computing 3. Cryptography and Network Security 4. Block Chain Technologies 5. Speech Processing	3	0	0	3
2	PE	<b>Professional Elective-IV</b> 1. Robotic Process Automation 2. Cloud Computing 3. Big Data Analytics 4. NOSQL Databases 5. Video Analytics	3	0	0	3
3	PE	<b>Professional Elective-V</b> 1. Social Network Analysis 2. Recommender Systems 3. AI Chatbots 4. Object Oriented Analysis and Design 5. Semantic Web	3	0	0	3
4	Open Elective /Job Oriented	<b>Open Elective-III</b> Open Electives offered by other departments/API and Microservices (Job Oriented Course)	3	0	0	3
5	Open Elective /Job Oriented	<b>Open Elective-IV</b> Open Electives offered by other departments/Secure Coding Techniques (Job Oriented Course)	3	0	0	3
6	HS	<b>Universal Human Values 2: Understanding Harmony</b>	3	0	0	3
7	SO	1.Machine Learning with Go (Infosys Spring Board) <b>OR</b> 2.MEAN Stack Technologies-Module II- Angular JS and MongoDB	0	0	4	2
8	PR	<b>Industrial/Research Internship 2 months (Mandatory) after third year (to be evaluated during VII semester</b>	0	0	0	3
<b>Total credits</b>						<b>23</b>
9	Minor	Reinforcement Learning	4	0	0	4
<b>Minor courses through SWAYAM</b>			0	0	0	2





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**DEPARTMENT OF CSE - ARTIFICIAL INTELLIGENCE & MACHINE LEARNING**

<b>IV B Tech I Sem</b>		<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
		<b>3</b>	<b>0</b>	<b>0</b>	<b>3</b>
<b>UNIVERSAL HUMAN VALUES 2: UNDERSTANDING HARMONY</b>					

### Human Values Courses

This course also discusses their role in their family. It, very briefly, touches issues related to their role in the society and the nature, which needs to be discussed at length in one more semester for which the foundation course named as “H-102 Universal Human Values 2: Understanding Harmony” is designed which may be covered in their III or IV semester. During the Induction Program, students would get an initial exposure to human values through Universal Human Values – I. This exposure is to be augmented by this compulsory full semester foundation course.

### Universal Human Values 2: Understanding Harmony

Course code: HSMC (H-102)

Credits: L-T-P-C 2-1-0-3 or 2L:1T:0P 3 credits

Pre-requisites: None. Universal Human Values 1 (desirable)

#### 1. Objective:

**The objective of the course is four fold:**

1. Development of a holistic perspective based on self-exploration about themselves (human being), family, society and nature/existence.
2. Understanding (or developing clarity) of the harmony in the human being, family, society and nature/existence
3. Strengthening of self-reflection.
4. Development of commitment and courage to act.

#### 2. Course Topics:

**The course has 28 lectures and 14 practice sessions in 5 modules:**

#### Module 1: Course Introduction - Need, Basic Guidelines, Content and Process for Value Education

1. Purpose and motivation for the course, recapitulation from Universal Human Values-I
  2. Self-Exploration—what is it? - Its content and process; ‘Natural Acceptance’ and Experiential Validation- as the process for self-exploration
  3. Continuous Happiness and Prosperity- A look at basic Human Aspirations
  4. Right understanding, Relationship and Physical Facility- the basic requirements for fulfilment of aspirations of every human being with their correct priority
  5. Understanding Happiness and Prosperity correctly- A critical appraisal of the current scenario
  6. Method to fulfil the above human aspirations: understanding and living in harmony at various levels.
- Include practice sessions to discuss natural acceptance in human being as the innate acceptance for living with responsibility (living in relationship, harmony and co-existence) rather than as arbitrariness in choice based on liking-disliking

#### Module 2: Understanding Harmony in the Human Being - Harmony in Myself!

7. Understanding human being as a co-existence of the sentient ‘I’ and the material ‘Body’
8. Understanding the needs of Self (‘I’) and ‘Body’ - happiness and physical facility
9. Understanding the Body as an instrument of ‘I’ (I being the doer, seer and enjoyer)
10. Understanding the characteristics and activities of ‘I’ and harmony in ‘I’
11. Understanding the harmony of I with the Body: Sanyam and Health; correct appraisal of Physical needs, meaning of Prosperity in detail





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12. Programs to ensure Sanyam and Health.

Include practice sessions to discuss the role others have played in making material goods available to me. Identifying from one's own life. Differentiate between prosperity and accumulation. Discuss program for ensuring health vs dealing with disease

**Module 3: Understanding Harmony in the Family and Society- Harmony in Human-Human Relationship**

13. Understanding values in human-human relationship; meaning of Justice (nine universal values in relationships) and program for its fulfillment to ensure mutual happiness; Trust and Respect as the foundational values of relationship
14. Understanding the meaning of Trust; Difference between intention and competence
15. Understanding the meaning of Respect, Difference between respect and differentiation; the other salient values in relationship
16. Understanding the harmony in the society (society being an extension of family): Resolution, Prosperity, fearlessness (trust) and co-existence as comprehensive Human Goals
17. Visualizing a universal harmonious order in society- Undivided Society, Universal Order- from family to world family.

Include practice sessions to reflect on relationships in family, hostel and institute as extended family, real life examples, teacher-student relationship, goal of education etc. Gratitude as a universal value in relationships. Discuss with scenarios. Elicit examples from students' lives

**Module 4: Understanding Harmony in the Nature and Existence - Whole existence as Coexistence**

18. Understanding the harmony in the Nature
19. Interconnectedness and mutual fulfillment among the four orders of nature- recyclability and self-regulation in nature
20. Understanding Existence as Co-existence of mutually interacting units in all-pervasive space
21. Holistic perception of harmony at all levels of existence.

Include practice sessions to discuss human being as cause of imbalance in nature (film "Home" can be used), pollution, depletion of resources and role of technology etc.

**Module 5: Implications of the above Holistic Understanding of Harmony on Professional Ethics**

22. Natural acceptance of human values
23. Definitiveness of Ethical Human Conduct
24. Basis for Humanistic Education, Humanistic Constitution and Humanistic Universal Order
25. 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.
26. Case studies of typical holistic technologies, management models and production systems
27. 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
28. Sum up.

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.





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**3. READINGS:**

**3.1 Text Book**

1. Human Values and Professional Ethics by R R Gaur, R Sangal, G P Bagaria, Excel Books, New Delhi, 2010

**3.2 Reference Books**

1. Jeevan Vidya: Ek Parichaya, A Nagaraj, Jeevan Vidya Prakashan, Amarkantak, 1999.
2. Human Values, A.N. Tripathi, New Age Intl. Publishers, New Delhi, 2004.
3. The Story of Stuff (Book).
4. The Story of My Experiments with Truth - by Mohandas Karamchand Gandhi
5. Small is Beautiful - E. F Schumacher.
6. Slow is Beautiful - Cecile Andrews
7. Economy of Permanence - J C Kumarappa
8. Bharat Mein Angreji Raj - PanditSunderlal
9. Rediscovering India - by Dharampal
10. Hind Swaraj or Indian Home Rule - by Mohandas K. Gandhi
11. India Wins Freedom - Maulana Abdul Kalam Azad
12. Vivekananda - Romain Rolland (English)
13. Gandhi - Romain Rolland (English)

**4. MODE OF CONDUCT (L-T-P-C 2-1-0-3 or 2L:1T:0P 3 credits)**

Lectures hours are to be used for interactive discussion, placing the proposals about the topics at hand and motivating students to reflect, explore and verify them.

Tutorial hours are to be used for practice sessions.

While analysing and discussing the topic, the faculty mentor's role is in pointing to essential elements to help in sorting them out from the surface elements. In other words, help the students explore the important or critical elements.

In the discussions, particularly during practice sessions (tutorials), the mentor encourages the student to connect with one's own self and do self-observation, self-reflection and self-exploration. Scenarios may be used to initiate discussion. The student is encouraged to take up "ordinary" situations rather than "extraordinary" situations. Such observations and their analyses are shared and discussed with other students and faculty mentor, in a group sitting.

Tutorials (experiments or practical) are important for the course. The difference is that the laboratory is everyday life, and practical are how you behave and work in real life. Depending on the nature of topics, worksheets, home assignment and/or activity are included. The practice sessions (tutorials) would also provide support to a student in performing actions commensurate to his/her beliefs. It is intended that this would lead to development of commitment, namely behaving and working based on basic human values.

It is recommended that this content be placed before the student as it is, in the form of a basic foundation course, without including anything else or excluding any part of this content. Additional content may be offered in separate, higher courses.

This course is to be taught by faculty from every teaching department, including HSS faculty. Teacher preparation with a minimum exposure to at least one 8-day FDP on Universal Human Values is deemed essential.





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**5. ASSESSMENT:**

This is a compulsory credit course. The assessment is to provide a fair state of development of the student, so participation in classroom discussions, self-assessment, peer assessment etc. will be used in evaluation.

Example:

Assessment by faculty mentor: 10 marks

Self-assessment: 10 marks

Assessment by peers: 10 marks

Socially relevant project/Group Activities/Assignments: 20 marks

Semester End Examination: 50 marks

The overall pass percentage is 40%. In case the student fails, he/she must repeat the course.

**6. OUTCOME OF THE COURSE:**

By the end of the course, students are expected to become more aware of themselves, and their surroundings (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 commitment 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, at least a beginning would be made in this direction.

This is only an introductory foundational input. It would be desirable to follow it up by

- faculty-student or mentor-mentee programs throughout their time with the institution
- Higher level courses on human values in every aspect of living. E.g. as a professional



*G. Chm*  
PRINCIPAL  
VIJAYA INSTITUTE OF  
TECHNOLOGY FOR WOMEN  
ENIKEPADU, VIJAYAWADA-521 108.



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<b>II Year – I SEMESTER</b>						
<b>S. No</b>	<b>Course Code</b>	<b>Courses</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>Credits</b>
1	BS	Mathematics III	3	0	0	3
2	CS	Mathematical Foundations of Computer Science	3	0	0	3
3	CS	Introduction to Artificial Intelligence and Machine Learning	3	0	0	3
4	CS	Object Oriented Programming with Java	3	0	0	3
5	CS	Database Management Systems	3	0	0	3
6	CS	Introduction to Artificial Intelligence and Machine Learning Lab	0	0	3	1.5
7	CS	Object Oriented Programming with Java Lab	0	0	3	1.5
8	CS	Database Management Systems Lab	0	0	3	1.5
9	SO	Mobile App Development	0	0	4	2
10	MC	Essence of Indian Traditional Knowledge	2	0	0	0
<b>Total Credits</b>						<b>21.5</b>

<b>II Year – II SEMESTER</b>						
<b>S. No</b>	<b>Course Code</b>	<b>Courses</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>Credits</b>
1	BS	Probability and Statistics	3	0	0	3
2	CS	Computer Organization	3	0	0	3
3	CS	Data Warehousing and Mining	3	0	0	3
4	ES	Formal Languages and Automata Theory	3	0	0	3
5	HS	Managerial Economics and Financial Accountancy	3	0	0	3
6	CS	R Programming Lab	0	0	3	1.5
7	CS	Data Mining using Python Lab	0	0	3	1.5
8	ES	Web Application Development Lab	0	0	3	1.5
9	SO	Natural Language Processing with Python	0	0	4	2
<b>Total Credits</b>						<b>21.5</b>
10	Minor	Introduction to Artificial Intelligence and Machine Learning <sup>\$</sup>	3	0	2	4

\$- Integrated Course





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<b>II Year - I Semester</b>		<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
		<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>ESSENCE OF INDIAN TRADITIONAL KNOWLEDGE</b>					

**Course Objectives:**

- The course aims at imparting basic principles of thought process, reasoning and inferencing. Sustainability is at the core of Indian Traditional Knowledge Systems connecting society and nature.
- Holistic life style of Yogic-science and wisdom capsules in Sanskrit literature are also important in modern society with rapid technological advancements and societal disruptions.
- The course focuses on introduction to Indian Knowledge System, Indian perspective of modern scientific world-view and basic principles of Yoga and holistic health care system

**Course Outcomes:**

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

- Understand the significance of Indian Traditional Knowledge
- Classify the Indian Traditional Knowledge
- Compare Modern Science with Indian Traditional Knowledge system.
- Analyze the role of Government in protecting the Traditional Knowledge
- Understand the impact of Philosophical tradition on Indian Knowledge System.

**Unit I**

**Introduction to Traditional Knowledge:** Define Traditional Knowledge- Nature and Characteristics- Scope and Importance- kinds of Traditional Knowledge- The historical impact of social change on Traditional Knowledge Systems- Value of Traditional knowledge in global economy.

**Unit II**

**Basic structure of Indian Knowledge System:** Astadash Vidya- 4 Ved - 4 Upaved (Ayurved, Dhanurved, Gandharva Ved & Sthapthya Adi), 6 vedanga (Shisha, Kalppa, Nirukha, Vyakaran, Jyothisha & Chand), 4 upanga (Dharmashastra, Meemamsa, purana & Tharka Shastra).

**Unit III**

**Modern Science and Indian Knowledge System-**Indigenous Knowledge, Characteristics- Yoga and Holistic Health care-cases studies.

**Unit IV**

**Protection of Traditional Knowledge:** The need for protecting traditional knowledge -Significance of Traditional knowledge Protection-Role of government to harness Traditional Knowledge.

**Unit V**

**Impact of Traditions:** Philosophical Tradition (Sarvadarshan) Nyaya, Vyshepec, Sankhya, Yog, Meemamsa, Vedantha, Chavanka, Jain & Boudh - Indian Artistic Tradition - Chittrakala, Moorthikala, Vasthukala, Sthapthya, Sangeetha, Nruthya Yevam Sahithya



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**Reference Books :**

1. Traditional Knowledge System in India, by AmitJha, 2009.
2. Traditional Knowledge System and Technology in India by Basanta Kumar Mohanta and Vipin Kumar Singh, PratibhaPrakashan 2012.
3. Sivaramakrishnan (Ed.), Cultural Heritage of India-course material, Bharatiya Vidya
4. Swami Jitatmanand, Holistic Science and Vedant, Bharatiya Vidya Bhavan
5. Yoga Sutra of Patanjali, Ramakrishna Mission, Kolkata.
6. Pramod Chandra, India Arts, Howard Univ. Press, 1983.
7. Krishna Chaitanya, Arts of India, Abhinav Publications, 1987.

**Web Resources:**

1. [https://www.wipo.int/wipo\\_magazine/en/2017/01/article\\_0004.html](https://www.wipo.int/wipo_magazine/en/2017/01/article_0004.html)
2. <http://iks.iitgn.ac.in/wp-content/uploads/2016/01/Indian-Knowledge-Systems-Kapil-Kapoor.pdf>
3. [https://www.wipo.int/edocs/mdocs/tk/en/wipo\\_grtkf\\_ic\\_21/wipo\\_grtkf\\_ic\\_21\\_ref\\_facilitators\\_text.pdf](https://www.wipo.int/edocs/mdocs/tk/en/wipo_grtkf_ic_21/wipo_grtkf_ic_21_ref_facilitators_text.pdf)



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