1.3.1. Institution integrates crosscutting issues relevant to Professional Ethics, Gender,
Human Values, Environment and Sustainability in transacting the Curriculum

Summary:

- 1. Women Empowerment Cell Activities
- 2. Projects on Environment and Sustainability
- 3. Courses on Professional Ethics, Gender, Human Values, Environment and Sustainability.



PRINCIPAL PRINCIPAL

Siddartha Educational Academy Group of Institutions Near C.GOLLAPALLI, Tirupati (R)-517 505 Tirupati Dist. (A.P.)

1. Women Empowerment Cell Activities

PARANANAN KANAN KANA



PRINCIPAL
Siddartha Educational Academy
Group of Institutions
Near C.GOLLAPALLI, Tirupati (R)-517 505
Tirupati Dist. (A.P.)



Phone: 8008202337, 996670041

College e-mail ID: siddarthaedu@gmail.com, website: siddarthaedu.in

WOMEN EMPOWERMENT CELL ACTIVITIES

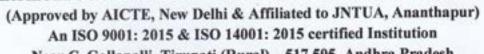
ACADEMIC YEAR	NO.OF EVENTS CONDUCTED
2022-2023	5
2021-2022	4
2020-2021	NIL
2019-2020	3
2018-2019	4

CONVENER

[Women Empowerment Cell]

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Near C. Gollapalli, Tirupati (Rural) – 517 505, Andhra Pradesh Phone: 8008202337, 996670041

College e-mail ID: siddarthaedu@gmail.com, website: siddarthaedu.in

WOMEN EMPOWERMENT CELL ACTIVITIES 2022-2023

S.NO.	DATE	SPEAKER/GUEST	TOPIC	PARTICIPANTS ATTENDED
1	13/08/2022	Dr.Revathi & Dr.Sri Kamani	Chip to Solutions	Women Scientists, All students & Faculty
2	13/02/2023- 25/03/2023	Dr.V.K.Madhusmitha Rani	Add on Program on POSH ACT, 2013	I & II Year Womer Students & Faculty
3	08/03/2023	Dr.V.Kala Rani	Awareness on Women Enterpreneurship- Renewable energy	STUDENTS
4	25/03/2023	Dr.Thanuja	Awareness on Health and Menstrual Hygiene	Women Faculty & STUDENTs
5	06/04/2023	Mrs.N.Pavithra	Women rights	STUDENTS

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[Women Empowerment Cell]

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WOMEN EMPOWERMENT CELL ACTIVITIES 2021-2022

S.NO.	DATE	SPEAKER/GUEST	TOPIC	PARTICIPANTS ATTENDED
1	11/11/2021	Mrs.K.Suma Latha	Equity, Inclusion & justice for Women	STUDENTS
2	20/01/2022	Dr.T.Lakshmi Thulasi	Eradication of Illiteracy for Women	STUDENTS
3	24/03/2022	Dr.E.Divya	Boost her self-esteem	Women Faculty & STUDENTs
4	28/04/2022	Mrs.N.Srilekha	Signal Boost other Women	STUDENTS

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[Women Empowerment Cell]

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WOMEN EMPOWERMENT CELL ACTIVITIES 2019-2020

S.NO.	DATE	SPEAKER/GUEST	TOPIC	PARTICIPANTS ATTENDED
1	26/12/2019	Mrs.P.B.Lavanya	BETI BACHAO BETI PADHAO	Women Faculty & STUDENTS
2	21/02/2020	Mrs.N.Pavithra	Awareness on Women Reservation	STUDENTS
3	22/04/2020	Mrs.Jaya Deepthi	Disha App	STUDENTS

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[Women Empowerment Cell]

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Ananthapuramu

WOMEN EMPOWERMENT /PROTECTION CELL ACTIVITIES 2018-2019

S.NO.	DATE	SPEAKER/GUEST	TOPIC	PARTICIPANTS ATTENDED
1	26/12/2018	Mrs.N.B.Jyothi	Awareness on Women Entrepreneurship	Women Faculty & STUDENTS
2	21/01/2019	Mr.P.Bayya Reddy	Media & Gender	STUDENTS
3	08/03/2019	Mrs.D.M.NagaDeepa	Impact of Stress on Women Health	Women Faculty & STUDENTS
4	13/06/2019	Mrs.A.UshaRani	Economic Empowerment	STUDENTS

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[Women Empowerment Cell]

9

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College e-mail ID: siddarthaedu@gmail.com website: siddarthaedu.in

SEAGI/PERMISSION/WOMEN EMPOWERMENT /2022

Date: 01/08/2022

Permission Letter

To The Principal, SEAGI, Tirupati.

Sir,

Sub: Permission for conducting a one day workshop on 'CHIP TO SOLUTIONS' in our college

With reference to the subject cited above, Women Empowerment Cell intends to conduct a one day workshop on 'CHIP TO SOLUTIONS' in our college on 13-08-2022 in collaboration with JNTU, Anantapur. Therefore, I request you to kindly grant us permission to make necessary arrangements and to conduct the program successfully.

Thanking you sir,

PRINCIPAL
Siddartha Educational Acade...,
Group of Institutions
Near C.GOLLAPALLI, Tirupati (R)-517 505
Tirupati Dist. (A.P.)

Yours Sincerely,

CONVENER [WOMEN EMPOWERMENT CELL]



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College e-mail ID: siddarthaedu@gmail.com website: siddarthaedu.in

Date: 02/08/2022

Circular

This is to inform the girl students and Women faculty of all the branches that Women empowerment cell is conducting a one day workshopon 'CHIP TO SOLUTIONS' in our college to encourage women entrepreneurs in Chip making on 13.8.2022. Therefore, all of you are requested to register for the program.

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Siddartha Educational Academy
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Near C.GOLLAPALLI, Tirupati (R)-517 505
Tirupati Dist. (A.P.)

CONVENER [WOMEN EMPOWERMENT CELL]

Copy to:

- 1. The Committee members
- 2. The Notice Board
- 3. The File

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Near C. Gollapalli, Tirupati (Rural) - 517 505, (A.P.) Phone: 8008202337, 9966700414

website: siddarthaedu.in College e-mail ID: siddarthaedu@gmail.com

SEAGI/CIR/ COMMITTEE MEMBERS /2022

Date: 01/8/2022.

CIRCULAR

It is to inform the members of Women empowerment cell that meeting will be held at 11am in the Board room on 01-8-2022 to discuss about conducting a one day workshop on "CHIP TO SOLUTIONS" in our college .Therefore, all the members of the committee are requested to attend the meeting compulsorily.

Agenda of Meeting: Conducting a one day workshop on 'CHIP TO SOLUTIONS'

S.NO	NAME OF THE FACULTY	DEPARTMENT	SIGNATURE
1	Dr.V.K.Madhusmitha Rani	H&S	Lubis
2	Mrs.N.Pavithra	ECE	Nilauthore
3	Mrs.V.Priyanka Reddy	CIVIL	Miny
4	Mrs.G.Kavitha	EEE	Ez. Kerit
5	Mrs.P.Sneha	MECH	8
6	Mrs.G.Swetha	ECE	a. Kurch
7	Mrs.K.JayaDeepthi	CSE	K. Tay uduph
8	Mrs.D.Pushpalatha	CSE	Q Purho
9	Mrs.M.B.Jyothi	MBA	Lyathi
10	Ms.D.Rizwana	ECE	D. P Duran
11	Ms.P.B.Nandhini	EEE	P. D. Nordli
12	Ms.D.Tejaswi	CIVIL	(ejaswi
13	Ms.A.Indhu	CSE	4 Florelle
14	Ms.N.Supraja	H&S	N. Sumiji
15	Ms.B.Jayasudha	MBA	B. Taylasudha

PRINCIPAL

Copy to:

Siddartha Educational Academy

Group of Institutions

Near C.GOLLAPALLI, Tirupati (R)-517 505 1.The Principal 2.All the members of committee Tirupati Dist. (A.P.)

3. The file

WOMEN EMPOWERMENT CELL

Minutes of Meeting

- Resolved to conduct a one day workshop on 'CHIP TO SOLUTIONS' on 13-08-2022.
- Resolved to make all arrangements for the guest speakers, to arrange the event in the auditorium, as the event is in coordination with JNTUA, Invitation and circular to be sent to all colleges in the district, inviting girl students and women staff for registration
- 3. Resolved to allot work to all girl students of all branches and women faculty to in all committees
- Resolved to organise the program, followed by lunch, certificate distribution, felicitation to the speakers, transportation arrangements

S.NO	NAME OF THE FACULTY	DEPARTMENT	SIGNATURE
1	Dr.V.K.Madhusmitha Rani	H&S	Allan.
2	Mrs.N.Pavithra	ECE	N. Janithre
3	Mrs.V.Priyanka Reddy	CIVIL	Muy
4	Mrs.G.Kavitha	EEE	6. Karrt
5	Mrs.P.Sneha	MECH	8
6	Mrs.G.Swetha	ECE	Con Swetz
7	Mrs.K.JayaDeepthi	CSE	K. Jayaduph
8	Mrs.D.Pushpalatha	CSE	Q. Pusha
9	Mrs.M.B.Jyothi	MBA	malt.
10	Ms.D.Rizwana	ECE	D. Rowers
11	Ms.P.B.Nandhini	EEE	P.B. Mader
12	Ms.D.Tejaswi	CIVIL	Terasvi
13	Ms.A.Indhu	CSE	A Outher
14	Ms.N.Supraja	H&S	M Cerman
15	Ms.B.Jayasudha	MBA	B. Jayasudla

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[WOMEN EMPOWERMENT CELL]



Invitation



Siddartha Educational Academy
Group of Institutions

in association with

Jawaharlal Nehru Technological University Anantapur organizes

An Awareness programme on

Chip to Solutions

Azadi Ka Amrit Mahotsav (Commemorating 75 years of India Independence) 75 women in Semiconductor Education and Research.

CHIEF GUESTS:



Prof. K. Hema Chandra Reddy Chairman ,APSCHE Govt of Andhra Pradesh

8

Prof. G. Ranga Janardhan Vice-Chancellor, JNTUA

GUESTS OF HONOUR

Prof.C.Sashidhar Registrar JNTUA

Be

Sri.Ganesan Narayanasamy Senior Technical Computing Solution and Client Care Manager at IBM,NY

PRESIDENT

Sri.Y.Anand Reddy
Secretary&Correspondent
Siddartha Educational Academy,
Tirupati

PATRON

Dr.K.Rajasekhar Principal,SEAT



Date & time: 13-08-2022, 10:00am

Venue:

SIDDARTHA EDUCATIONAL ACADEMY GROUP OF INSTITUTIONS
An Integrated Campus for Engineering and MBA
C. Gollapalli, Tirupati
Andhra Pradesh 517505

CO-ORDINATORS:

Dr.V.K Madhu Smitha Ranjance A.S. Mamatha
Professor
Department of Physicide the Education of Institution Solic
Group of Institution State Solic
Tirupati
Near C.GOLLAPALLI, AWARI C.P. Puramu
Tirupati Diet. (A.P. Puramu





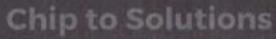
Siddartha Educational Academy

in association with

Amrit Mahotsav Jawaharlal Nehru Technological University Anantapur

oraganizes

Awareness program on



Azadi Ka Amrit Mahotsav (Commemorating 75 years of India independence) 75 women in Semiconductor education and Research.





Date Of Event: 13th August, 2022

Eligibility: Women faculty an

Guests:



Prof K.HEMACHANDRA REDDY

Chairman, APSCHE



Prof G.RANGA JANARDHAN

Vice-Chancellor JNTUA



Prof C.SASHIDHAR

Registar, JNTUA



Sri.Y.ANAND REDDY

Secretary&correspondent
Siddartha Educational Academy ,
Tirupati



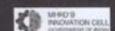
SRI.GANESAN NARAYANASWAMY

Senior Technical Computing Solution and Client Care Manager at IBM,NY

Venue:

SIDDARTHA EDUCATIONAL ACADEMY GROUP OF INSTITUTIONS
An Integrated Campus for Engineering and MBA
C. Gollapalli ,Tirupati
Andhra Pradesh 517505



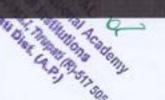




Collaborators:







Speakers

Smt.ShobhaRani G

Deputy General Manager Software SBU Bharat Electronics Limited Bengaluru



Deputy General Manager at Software department of Bharat Electronics Limited, Bangalore, Group head for Artificial Intelligence Technology team and responsible for Research, Development and Deployment of Al enabled products / Solutions of BEL. She led a software engineering team focused on Business Intelligence, Machine learning, Deep learning, Computer Vision, NLP and Data Analytics. Associated with many Start-ups towards incubating service offerings and delivering innovative products in the domain of Artificial Intelligence is considerable.

Dr V Veeresh Babu

Senior Manager Analog and Mixed Signal Design AMS semiconductor India Pvt Ltd Hyderabad



Received his PhD from BITS Pilani and M.Tech from IIT Bombay, India.Worked as team lead at Qualcore Logic India, during 2003 to 2006. Successfully taped out many PLL IPs and a clock chip. Currently working as manager for analog IC design team in ams semiconductors India. Experienced at ams includes high precision analog circuits such as voltage references, high precision temperature sensors, Sigma delta ADCs, SAR and DC-DC converter focused on automotive design flow.

Satyadhyan Chickerur G

Professor

KLE Technological University Hubli, Karnataka



Received B.E degree in E&C, M.Tech in CSE, and Ph.D. in Computer and Information Sciences. Head of the Centre for High-Performance Computing at KLE Technological University, Hubli. Member of ISTE, IEEE, and ACM. Execom member of IEEE signal processing society, Bangalore chapter (2007–2009).

Dr.M.Revathy

Associate Professor PSNA College of Engineering & Technology TamilNadu



Obtained doctoral degree in Information and Communication Engineering from Anna University, Chennai in the year 2015. Has a teaching experience of around fifteen years... Areas of interest include optimization of forward error correction codes, block codes, Communication Systems, VLSI architectures, and Embedded Design. President of PSNA Toastmasters club.

Mrs. Sri Kamani

Tech Lead Object Automation Tamil Nadu



Mrs. Sri Kamani has a decade of experience in software development and 7+ years of experience in training programs. Professional guidance with a Practical approach made successful delivery, is her value addition to the participants. She is working with clients and building Al and Edge computing solutions for Health care, Aero, and Retail industries

Eligibility: Women faculty and students

Register here



https://forms.gle/uvwMqYmdvp2c5Kvv8

Venue:

SIDDARTHA EDUCATIONAL ACADEMY GROUP OF INSTITUTIONS

An Integrated Campus for Engineering and MBA C.Gollapalli,Tirupati Andhra Pradesh 517505

https://goo.gl/maps/SPGkot4iW4Ewd6qY7

Coordinators:

Dr.V.K Madhu Smitha Rani

professor Department of Physics,SEAT Tirupati Phone Number : 9441079394

MAIL ID: ism_sdic@siddarthaedu.in

Dr.G. Mamatha

Coordinator ,SDIC JNTUA,Anantapuramu Phone Number : 9515114386 MAIL ID : esdeic⊛jntua.ac.in

Collaborators:















Near G.







Siddartha Educational Academy
in association with
Jawaharlal Nehru Technological
University Anantapuramu

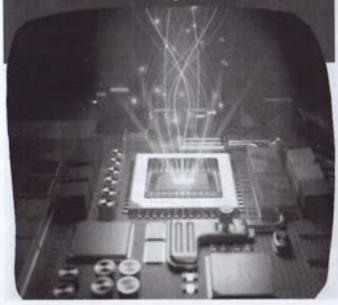
oraganizes

Awareness programme on

Chip to Solutions

Azadi Ka Amrit Mahotsav (Commemorating 75 years of India independence) 75 women in Semiconductor education and Research

on 13th August, 2022



About Siddartha Educational Academy Group of Institutions



"Siddartha Educational Academy Group of Institutions", well Known as SEAT is to imparting quality value based education of international standard and imbibing skill for solving real life problems. Creating leadership qualities with perspective futuristic vision and instilling habit of continual learning.

About JNTUA Skill Development And Incubation Centre

JNTUA incubation centre aims to promote and support the creativity of individual student and faculty to assist them in becoming technology-based entrepreneurs. It provides a platform for students to convert their innovative commercially viable ideas into products.JNTUA incubation centre is expected to become a focal point for developing technology start-up companies and technology solutions.



A state-of-the-art incubation facility with 10,000 square feet is available for potential incubates to use. The facility was designed with incubation in mind and includes laboratories, a conference hall, meeting rooms, and start-up office space, among other amenities.

About Programme

The main objective of this programme is to emphasize the importance of chip design and its solutions, COVID-19 pandemic one of the many consequences is slowdown in chip production. To bridge that India Semiconductor Mission was launched by India. Azadi Ka Amrit Mahotsav is the celebration of India 75 years Independence hence this program will empower 75 women in Semiconductor education research and development. IBM and Open Power foundation are collaborating in chip solutions in open source principles.





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College e-mail ID: siddarthaedu@gmail.com website: siddarthaedu.in

SEAGI/PERMISSION/WOMEN EMPOWERMENT /2023

Date: 01-03-2023

Permission Letter

To The Principal, SEAGI, Tirupati.

Sir.

Sub: Permission for Conducting an Awareness program on women – Entrepreneurship- Renewable energy'- Reg.

With reference to the subject cited above, Women Empowerment Cell intends to conduct a guest lecture titled "Awareness program on women – Entrepreneurship- Renewable energy" for the girl students and Women faculty of the college on 08-03-2023. The speaker of this program is Prof. V. Kalarani. HOD, Dept of Bio-technology Sri Padmavathi Mahila University who has profound knowledge on this topic.

Therefore, I request you to kindly grant us permission to make the necessary arrangements and conduct the program successfully.

Thanking you sir,

PRINCIPAL

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Group of Institutions

Near C.GOLLAPALLI, Tirupati (R)-517 505

Tirupati Dist. (A.P.)

Yours Sincerely,

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[WOMEN EMPOWERMENT CELL]

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College e-mail ID: siddarthaedu@gmail.com website: siddarthaedu.in

SEAGI/CIR/WOMEN EMPOWERMENT /2023

Date: 06-03-2023

Circular

This is to inform the girl students and Women faculty of all the branches that a guest lecture is intended to be organised on the topic "Awareness program on women — Entrepreneurship- Renewable energy" which is scheduled on 08-03-2023.

Therefore, the students are encouraged to attend the program without fail on the stipulated date.

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College e-mail ID: siddarthaedu@gmail.com website: siddarthaedu.in

SEAGI/CIR/ COMMITTEE MEMBERS /2023

Date: 06-03-2023.

CIRCULAR

It is to inform the members of Women empowerment cell that the meeting will be held at 11am in the Board room on 06-03-2023, to discuss about conducting an 'Awareness program on women – Entrepreneurship- Renewable energy' in our college Therefore, all the members of the committee are requested to attend the meeting compulsorily.

Agenda of Meeting:

Conducting of an Awareness program titled 'Awareness program on women – Entrepreneurship- Renewable energy'.

S.NO	NAME OF THE FACULTY	DEPARTMENT	SIGNATURE
1	Dr.V.K.Madhusmitha Rani	H&S	then
2	Mrs.N.Pavithra	ECE	N. Rawithera
3	Mrs.V.Priyanka Reddy	CIVIL	Vin
4	Mrs.G.Kavitha	EEE	G-Knot
5	Mrs.P.Sneha	MECH	9
6	Mrs.G.Swetha	ECE	Cr. Sweth
7	Mrs.K.JayaDeepthi	CSE	K. Jayduphie
8	Mrs.D.Pushpalatha	CSE	D. Rush
9	Mrs.M.B.Jyothi	MBA	Djoth:
10	Ms.D.Rizwana	ECE	D. P. Luma
11	Ms.P.B.Nandhini	EEE	P.R. Madli
12	Ms.D.Tejaswi	CIVIL	leiosw?
13	Ms.A.Indhu	CSE	Achida
14	Ms.N.Supraja	H&S	M. suprayà
15	Ms.B.Jayasudha	MBA	B. Jayacidha

Copy to:

PRINCIPAL

Siddartha Educational Academy

1.The Principal Group of Institutions

CONVENER

2.All the members of committee C.GOLLAPALLI, Tirupati (R)-9WOMEN EMPOWERMENT CELL

3.The file Tirupati Dist. (A.P.)

Minutes of Meeting

- Resolved to conduct an Awareness program titled 'Awareness program on women Entrepreneurship- Renewable energy' on 08-03-2023.
- Resolved to invite a Guest speaker Prof. V. Kalarani. HOD, Dept of Bio-technology SriPadmavathi Mahila University.
- 3. Resolved to invite the girl students of all branches and women faculty.
- 4.Resolved to organise the program in the E-classroom.

S.NO	NAME OF THE FACULTY	DEPARTMENT	SIGNATURE
1	Dr.V.K.Madhusmitha Rani	H&S	Sulaur
2	Mrs.N.Pavithra	ECE	N. farillier
3	Mrs.V.Priyanka Reddy	CIVIL	Um_
4	Mrs.G.Kavitha	EEE	0 6- Karnt
5	Mrs.P.Sncha	MECH	A .
6	Mrs.G.Swetha	ECE	G. Luck
7	Mrs.K.JayaDeepthi	CSE	R. Jaya barollin
8	Mrs.D.Pushpalatha	CSE	D. Purha
9	Mrs.M.B.Jyothi	MBA	Treath
10	Ms.D.Rizwana	ECE	D. Ri) waya
11	Ms.P.B.Nandhini	EEE	P.R. Madhi
12	Ms.D.Tejaswi	CIVIL	Tejaswi
13	Ms.A.Indhu	CSE	A andy
14	Ms.N.Supraja	H&S	A. Supragio
15	Ms.B.Jayasudha	MBA	B. Taxalloha

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Group of Institutions
Near C.GOLLAPALLI, Tirupati (R)-517 505
Tirupati Dist. (A.P.)

[WOMEN EMPOWERMENT CELL]



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Near C. Gollapalli, Tirupati (Rural) - 517 505, (A.P.)

Phone: 8008202337, 9966700414

College e-mail ID: siddarthaedu@gmail.com website: siddarthaedu.in

DATE: 01/03/2023

INVITATION LETTER

To Prof. V. Kalarani. HOD, Dept of Bio-technology, Sri Padmavathi Mahila University, Tirupati.

Madam.

Sub: Letter of invitation for conducting an "Awareness program on women –
Entrepreneurship- Renewable energy"- Reg

We would like to invite you to be the guest speaker for an "Awareness program on women – Entrepreneurship- Renewable energy" which is scheduled on 08-03-2023.

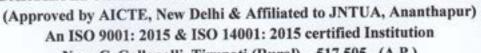
In this regard, we request you to accept our invitation and deliver your valuable information.

PRINCIPAL
Siddartha Educational Academy
Group of Institutions
Near C.GOLLAPALLI, Tirupati (R)-517 505
Tirupati Dist. (A.P.)

Yours Sincerely,

CONVENER

[Women Empowerment Cell]



Near C. Gollapalli, Tirupati (Rural) – 517 505, (A.P.) Phone: 8008202337, 9966700414

College e-mail ID: siddarthaedu@gmail.com website: siddarthaedu.in

Date: 08-03-2023.

Certificate of Appreciation

We sincerely thank **Prof. V. Kalarani**. HOD, Dept of Bio-technology,

Sri Padmavathi Mahila University, for delivering a lecture on 'Awareness

program on women – Entrepreneurship- Renewable energy' conducted on

08-03-2023 organized by Women Empowerment cell.

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Near C.GOLLAPALLI, Tirupati (R)-517 503
Tirupati Dist. (A.P.)

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Siddartha Educational Academy
Group of Institutions
or C.GOLLAPALLI, Tirupati (R)-51
Tirupati Dist. (A.P.)





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Siddartha Educational Academy

Group of Institutions

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Near C.GOLLAPALLI, Tirupati (R)-517 505

Tirupati Dist. (A.P.)



(Approved by AICTE, New Delhi & Affiliated to JNTUA, Ananthapur)

An ISO 9001: 2015 & ISO 14001: 2015 certified Institution

Near C. Gollapalli, Tirupati (Rural) – 517 505, (A.P.)

Phone: 8008202337, 9966700414

College e-mail ID: siddarthaedu@gmail.com website: siddarthaedu.in

SEAGI/PERMISSION/WOMEN EMPOWERMENT /2023

18/3/2023

Permission Letter

To The Principal, SEAGI, Tirupati.

Sir.

Sub: Permission for Conductingan Awareness program on Health and menstrual Hygiene - Reg.-

With reference to the subject cited above, Women Empowerment Cellintends to conduct a guest lecture on "Awareness program on Health and menstrual Hygiene" for the girl students and Women faculty of the college on25/3/2023. The speaker of this program is Dr. T. THANUJAwho has profound knowledge on this topic.

Therefore, I request you to kindly grant us permission to make the necessary arrangements and to conduct the program successfully.

Thanking you sir,

PRINCIPAL
Siddartha Educational Acade
Group of Institutions
Vear C.GOLLAPALLI, Tirupati (R)-517 505
Tirupati Dist. (A.P.)

Yours Sincerely

[WOMEN EMPOWERMENT CELL]

1

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SEAGI/CIR/WOMEN EMPOWERMENT /2023

Circular

This is to inform the girl students and Women faculty of all the branches that Women Empowerment Cell intended to organise a guest lecture by Dr.T.Thanujaon"Awareness program on Health and menstrual Hygiene" which is scheduled on 25/03/2023.

Therefore, the students are encouraged to attend the program without fail on the stipulated date.

Thanking you

PRINCIPAL
Siddartha Educational Academy
Group of Institutions
Near C.GOLLAPALLI, Tirupati (R)-517 505
Tirupati Dist. (A.P.)

CONVENER [WOMEN EMPOWERMENT CELL]

Date: 19/03/2023

Copy to:

- 1. The Committee members
 - 2. The Notice Board
 - 3. The File



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SEAGI/CIR/ COMMITTEE MEMBERS /2023

Date: 18/3/2023

CIRCULAR

It is to inform the members of Women empowerment cell that the meeting will be held at 11am in the Board room on 18-3-2023. To discuss about conducting an 'Awareness program on Health and menstrual Hygiene' in our college Therefore, all the members of the committee are requested to attend the meeting compulsorily.

Agenda of Meeting:

Conducting an Awareness program on 'Health and menstrual Hygiene'

S.NO	NAME OF THE FACULTY	DEPARTMENT	SIGNATURE
1	Dr.V.K.Madhusmitha Rani	H&S	Man
2	Mrs.N.Pavithra	ECE	N. Pavithere
3	Mrs.V.Priyanka Reddy	CIVIL	July-
4	Mrs.G.Kavitha	EEE	2 G. Kowta
5	Mrs.P.Sneha	MECH	8
6	Mrs.G.Swetha	ECE	a. Rueta
7	Mrs.K.Jaya Deepthi	CSE	K. Janadeet
8	Mrs.D.Pushpalatha	CSE	D. Rish
9	Mrs.M.B.Jyothi	MBA	Fyath
10	Ms.D.Rizwana	ECE	D.D.7 600
11	Ms.P.B.Nandhini	EEE	P. R. Wadl
12	Ms.D.Tejaswi	CIVIL	Telaswi
13	Ms.A.Indhu	CSE	D.andy
14	Ms.N.Supraja	H&S	M. supringe
15	Ms.B.Jayasudha	MBA	B. Tayalith

Copy to:

1. The Principal

PRINCIPAL

Siddartha Educational Academy

2.All the members of committe group of Institutions mmittee G.GOLLAPALLI, Tirupati (R)-517 5 WOMEN EMPOWERMENT CELL]

Tirupati Dist. (A.P.) 3.The file

Minutes of Meeting

- Resolved to conduct an Awareness program on 'Health and menstrual Hygiene' on 25-03-2023.
- Resolved to invite a Guest speaker Dr. T. THANUJA, Obstetrician &Gynaecologist toour college.
- 3. Resolved to invite the girl students of all branches and women faculty.

S.NO	NAME OF THE FACULTY	DEPARTMENT	SIGNATURE
1	Dr.V.K.Madhusmitha Rani	H&S	Later.
2	Mrs.N.Pavithra	ECE	No Parvilte
3	Mrs.V.Priyanka Reddy	CIVIL	ding
4	Mrs.G.Kavitha	EEE	06. Karat
5	Mrs.P.Sneha	MECH	D
6	Mrs.G.Swetha	ECE	Gir Grote
7	Mrs.K.Jaya Deepthi	CSE	K. Jay du Mi
8	Mrs.D.Pushpalatha	CSE	A. Pushe
9	Mrs.M.B.Jyothi	MBA	Tyath
10	Ms.D.Rizwana	ECE	D. Ei usua
11	Ms.P.B.Nandhini	EEE	P.B. Nadli
12	Ms.D.Tejaswi	CIVIL	Pelaswi
13	Ms.A.Indhu	CSE	A. Tonde
14	Ms.N.Supraja	H&S	N. Suprayo
15	Ms.B.Jayasudha	MBA	R. Vayalidh

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Tirupati Dist. (A.P.)

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[WOMEN EMPOWERMENT CELL]



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College e-mail ID: siddarthaedu@gmail.com website: siddarthaedu.in

SEAGI/CIR/ COMMITTEE MEMBERS /2023

INVITATION LETTER

To

Dr. T. THANUJA, Obstetrician &Gynaecologist

Madam,

Sub: Letter of invitation for conducting an "Awareness program on Health and menstrual Hygiene"-Reg

We would like to invite you to be the guest speaker for an "Awareness program on Health and menstrual Hygiene" which is scheduled on 25/3/2023.

In this regard, we request you to accept our invitation and deliver your valuable information.

Yours Sincerely

PRINCIPAL
Siddartha Educational Academy
Group of Institutions
Near C.GOLLAPALLI, Tirupati (R)-517 Jul.
Tirupati Dist. (A.P.)

CONVENER

[Women Empowerment Cell]



(Approved by the AICTE, New Delhi & Affiliated to JNTUA, Anantapuramu)
Near C. Gollapalli, TIRUPATI (Rural) – 517 505 (A.P.)

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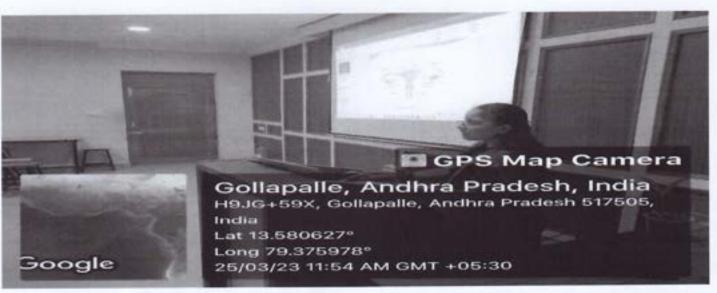
Date: 25-03-2023.

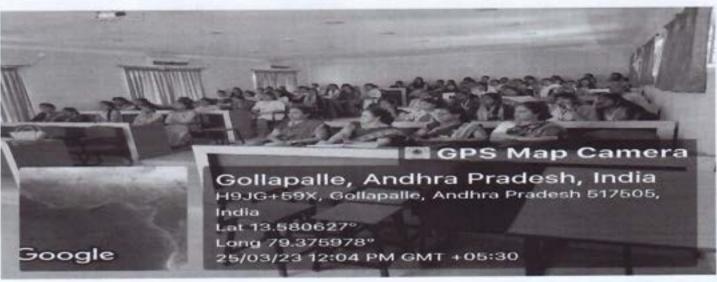
CERTIFICATE OF APPRECIATION

We sincerely thank **Dr. T. THANUJA**, Obstetrician & Gynecologist for delivering a lecture on '**Health and Menstrual Hygiene**', organized on 25-03-2023 by Women Empowerment cell.

6

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Tirupati Dist. (A.P.)







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Tirupati Dist. (A.P.)
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College e-mail ID: siddarthaedu@gmail.com website: siddarthaedu.in

SEAGI/PERMISSION/WOMEN EMPOWERMENT /2023

Date:01-04-2023

PERMISSION LETTER

To The Principal, SEAGI, Tirupati.

Sir,

Sub: Permission for Conductingan Awareness program on 'Women Rights' - Reg.

With reference to the subject cited above, Women Empowerment Cellintends to conduct a guest lecture titled "AnAwareness program on Women Rights" for the girl students and Women faculty of the college on 06-04-2023. The speaker of this program is Mrs.N Pavithra M.L., M.Techwho has profound knowledge on this topic.

Therefore, I request you to kindly grant us permission to make the necessary arrangements and conduct the program successfully.

Thanking you sir,

PRINCIPAL
Siddartha Educational Acade
Group of Institutions
CGCLAPALLI, Tirupati (R)-517 505

Tirupati Dist. (A.P.)

Yours Sincerely

[WOMEN EMPOWERMENT CELL]



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SEAGI/CIR/WOMEN EMPOWERMENT /2023

Date: 02-04-2023

CIRCULAR

This is to inform the girl students and Women faculty of all the branches that a guest lecture is going tobe organised on the topic "Women Rights" which is scheduled on 06-04-2023.

Therefore, the students are encouraged to attend the program without fail on the stipulated date.

PRINCIPAL
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Group of Institutions
Near C.GOLLAPALLI, Tirupati (R)-517 505
Tirupati Dist. (A.P.)

[WOMEN EMPOWERMENT CELL]

Copy to:

- 1. The Committee members
- 2. The Notice Board
- 3. The File



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SEAGI/CIR/ COMMITTEE MEMBERS /2023

Date: 01-04-2023.

CIRCULAR

It is to inform the members of Women empowerment cell that the meeting will be held at 11am in the Board room on 01-04-2023 to discuss the following agenda . Therefore, all the members of the committee are requested to attend the meeting compulsorily.

Agenda of Meeting:

Conduct of an Awareness program on 'Women Rights'.

S.NO	NAME OF THE FACULTY	DEPARTMENT	SIGNATURE	
1	Dr.V.K.Madhusmitha Rani	H&S	The low	
2	Mrs.N.Pavithra	ECE	Ad Paritte	
3	Mrs.V.Priyanka Reddy	CIVIL	Nay~	
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6	Mrs.G.Swetha	ECE	Ton Such	
7	Mrs.K.Jaya Deepthi	CSE	K. Jayadu M.	
8	Mrs.D.Pushpalatha	CSE	D. Pusha	
9	Mrs.M.B.Jyothi	MBA	Trait	
10	Ms.D.Rizwana	ECE	S. D.	
11	Ms.P.B.Nandhini	EEE	P. R. North	
12	Ms.D.Tejaswi	CIVIL	Pelaswi	
13	Ms.A.Indhu	CSE	A. Forder	
14	Ms.N.Supraja	H&S	N. Suprajir	
15	Ms.B.Jayasudha	MBA	B. Jayasudha	

Copy to:

1.The Principal

2.All the members of committee

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[WOMEN EMPOWERMENT CELL]

3.The file

Siddartha Educational Academy
Group of Institutions
Near C.GOLLAPALLI, Tirupati (R)-517 505
Tirupati Dist. (A.P.)

Minutes of Meeting

- 1. Resolved to conduct an Awareness program on 'Women Rights' on 06-04-2023.
- 2. Resolved to invite a Guest speaker N Pavithra M.L., M.Tech.
- 3. Resolved to invite the girl students of all branches and women faculty.

S.NO	NAME OF THE FACULTY	DEPARTMENT	SIGNATURE
1	Dr.V.K.Madhusmitha Rani	H&S	Chille
2	Mrs.N.Pavithra	ECE	2011. Parilt
3	Mrs.V.Priyanka Reddy	CIVIL	Nimb.
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6	Mrs.G.Swetha	ECE	G. Sueta
7	Mrs.K.Jaya Deepthi	CSE	K. Jayaduphi
8	Mrs.D.Pushpalatha	CSE	D. Purla
9	Mrs.M.B.Jyothi	MBA	Inath
10	Ms.D.Rizwana	ECE	D. R. Comm
11	Ms.P.B.Nandhini	EEE	P.B. Nadle
12	Ms.D.Tejaswi	CIVIL	Pelaswi
13	Ms.A.Indhu	CSE	A. Andy
14	Ms.N.Supraja	H&S	N. Supraya
15	Ms.B.Jayasudha	MBA	R. Tayakolha

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Phone: 8008202337, 9966700414

College e-mail ID: siddarthaedu@gmail.com website: siddarthaedu.in

DATE: 01.04.2023

INVITATION LETTER

To

N.Pavithra,M.L., M.Tech Assistant professor Department of ECE SEAGI

Madam,

Sub: Letter of invitation for conducting a guest lecture on "Women Rights"- Reg

We would like to invite you to be the guest speaker for an "Awareness program on Women Rights" which is scheduled on 06-04-2023, to enlighten our students and womenfaculty.

In this regard, we request you to accept our invitation and deliver your valuable information.

Thanking you

PRINCIPAL

Siddartha Educational Academy
Group of Institutions
Near C.GOLLAPALLI, Tirupati (R)-517 505
Tirupati Dist. (A.P.)

Yours Sincerely,

CONVENER

[Women Empowerment Cell]

(Approved by the AICTE, New Delhi & Affiliated to INTUA, Anantapuramu)

Near C. Gollapalli, TIRLIPATI (Rural) 517-505 (A.P.)

Women Rights the N. Pavitra Milytie

		EMPOWERIMENT Signature of the Student
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17	S. Mounika	S. Mounika
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86	M.R. Susmitha	M.R. Surmille
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28.	y Haritha	y. Havilha.
69	N. Supraja	N. Supraja
70	K. Yamini	K. Youning
91	K- Lavanya	k. Lavanya
92	S. Deckshitha	S. Deekshitha
93	K. Likhita	k. Ciklita
94	U-keerthi	U. keerthi .
95	G. varshitha	G. Varishitha
96	CH. Divya sahithi	CH. Divya sahithi
97	N. Nishma	N. Nishma
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118- M. Chandhi Parya	M. Chardhi Psiya
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135 V. Chridhya	V. Giridhya
136 P. Driga	P. Priya
137 MoAkshaya	M. Akthaya
138 A. Deepika	A. Deepka
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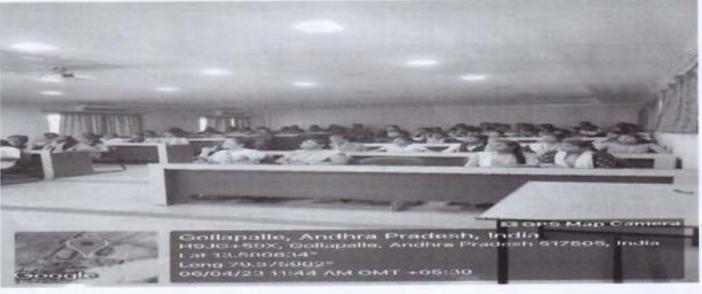
CERTIFICATE OF APPRECIATION

We sincerely thank Mrs. N Pavithra M.L., M.tech, for delivering a lecture on 'Women Rights 'organized on 06-04-2023 by Women Empowerment cell.

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Group of Institutions Hear C.GOLLAPALLI, Tirupati (R)-517 505 Tirupati Dist. (A.P.)









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Phone: 8008202337, 9966700414

College e-mail ID: siddarthaedu@gmail.com website: siddarthaedu.in

WEC/PERMISSION/ADD ON PROGRAME/FEB/2023

Date: 10/02/2023

To

The Principal,

SEAGI, Tirupati.

From

The COORDINATOR,

WOMEN EMPOWERMENT CELL,

SEAGI, Tirupati.

Respected Sir.

Sub: Permission for Conducting an Add on Programme - Reg.

With reference to the above subject, our department intends to conduct an add-on course titled "POSH ACT-2013" for women (students and faculty) with duration of One month from 13/02/23 to 25/03/23. The speaker of this course is Dr.MadhusmithaRani. who has profound knowledge on this topic. This course benefits our students a lot.

Therefore, I request you to kindly grant us permission to make the necessary arrangements and conduct the course successfully.

Thanking you sir,

PRINCIPAL
Siddartha Educational Academy
Group of Institutions
Near C.GOLLAPALLI, Tirupati (R)-517 505
Tirupati Dist. (A.P.)

Yours Singerely,

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[Women Empowerment Cell]



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CIRCULAR

Date: 10/02/23

This is to inform that Women Empowerment Cell is Organizing an Add On Programme"POSH ACT-2013" in Gender Equality by Dr.Madhusmitha Rani from 13/02/23 to 25/03/23in theacademic year(2022-23).

Overview of the programme:

There is a need for special laws when a person, a group, or a section of society commits acts that are detrimental to another person, group, or section of society, and the present social system is inadequate in stopping such acts. Such situations require laws, which are implemented and enforced through the state apparatus, in order to serve as a deterrent through fines, sentences, or damages, etc. Thus, it became imperative to enforce the present Act as women joined the workforce in increasing numbers and faced new challenges in the workplace.

Any statute can be understood and interpreted by reading their introductions and 'Statements of Objects and Reasons', which elaborate on the rationales that led to the introduction of the statute. Specifically, the Statement of Objects and Reasons of this Act states that sexual harassment violates women's fundamental rights to equality, life, and liberty, as provided under Articles 14 and 15 of the Constitution of India, as well as their right to life and dignity under Article 21 of the Constitution. It is also important to note that sexual harassment can also be considered a violation of people's right to practice any profession or to carry on any occupation, trade, or business, which includes the right to be free from sexual harassment in their workplace.

Furthermore, this legislation contains provisions that protect all women regardless of employment status. Additionally, the Statement of Objects and Reasons acknowledges that the Supreme Court has provided guidelines to address this issue until appropriate legislation is enacted.

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Copy to

[Women Empowerment Cell]

1.Chairman

2.Principal

3.Class in Charge

4. Notice Board



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SYLLABUS OF ADD ON PROGRAMME

Overview of POSH ACT-2013:

The majority of the global population is made up of women, but they are placed in a variety of disadvantageous positions due to gender differences and biases. They have suffered violence and exploitation from male-dominated societies. Since time immemorial, women have been exploited in India on a social, economic, physical, psychological, and sexual level, sometimes under the pretext of religious guidance, sometimes under the pretext of scripture, and sometimes based on social convention. Before the Indian Constitution was enacted, the concept of gender equality was almost unknown to us.

On 26th June, 1975, Indira Gandhi, then Prime Minister of India, addressed the <u>United Nations Women's Conference</u> in Mexico and said that women's lower status and fewer opportunities hindered the development of the human race. It is clear from this generalization that their emancipation is essential and that better facilities need to be made available to enable their full growth and development. The 20th century marked the beginning of women asserting their rights. Their participation in nation-building is a necessary part of ascertaining their rights. Having economic independence will accelerate the emancipation of women and enhance their status. In India, women are entering the formal labor workforce in unprecedented numbers. The rights of women, especially in the workplace, are more critical than ever before in light of this development. 'Right to Work' includes protections against sexual harassment at work.

The sexual harassment of women in the workplace is a form of gender-based violence. Besides violating their self-esteem, dignity, and self-respect, it also violates their constitutional and human rights. The issue of sexual harassment in the workplace cannot be viewed as a recent phenomenon, but it has certainly been brought to light by fast-changing workplace equations. In India, the legislation regarding this is the Sexual Harassment of Women at Work Place (Prevention, Prohibition and Redressal) Act, 2013 (POSH Act). As a result of the Act, women are protected at work from sexual harassment. Furthermore, it provides for preventing and redressing complaints of sexual harassment. This article provides a comprehensive overview of this Act.

Course Objectives:

- This Act was created to ensure that workplaces remain free from sexual harassment and to provide a safe and secure environment for women.
- It also seeks to create awareness about the issue of sexual harassment and to provide the necessary legal remedies for victims.

Course Outcomes

At the end of the Course, the student will be able to know:

- · Provision ensuring gender sensitization .
- · Preventive action on sexual harassment at the work place.
- · Complaining procedure when aggreived.
- Punishment and compensation.
- · Period within which complaint has to be Registered.

Topics

Module-1

History, vishaka guidelines, definitions, posh act, SHE-BOX.

Module-2

Complaint Mechanism, InterimmRelief, punishment and compensation, confidentiality, Role of organization in prevention of sexual harassment, consequences of non-compliance.

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POSH ACT-2013

The class, venue, timing of classes and class schedule along with topics and syllabus covereddetails are detailed below:

Venue of Class: SEMINAR HALL, Ground floor

Class: Every day, 04:00PM to 05:00 PM

Course Schedule:

Weeks	DATE	Topic Name	Timings
	13/02/23	HISTORY	04:00PM to 05:00 PM
	14/02/23	VISHAKA GUIDELINES	
1	16/02/23	VISHAKA GUIDELINES	
	17/02/23	VISHAKA GUIDELINES	
	18/02/23	VISHAKA GUIDELINES	
	20/02/23	DEFINITIONS	04:00PM to 05:00 PM
	21/02/23	POSH ACT	
2	22/02/23	POSH ACT	
	23/02/23	POSH ACT	
	24/02/23	SHE BOX	
	25/02/23	COMPLAINT MECHANISM	04:00PM to 05:00 PM
	27/02/23	INTERIMM RELIEF	
3	28/02/23	PUNISHMENT	
	01/03/23	COMPENSATION	
	03/03/23	CONFIDENTIALITY	
	04/03/23	ROLE OF ORGANIZATION	04:00PM to 05:00 PM
30	09/03/23	CONSEQUENCES OF	
4		NONCOMPLIANCE	
	13/03/23	CONSEQUENCES OF	
_	10100100	NONCOMPLIANCE	
5	18/03/23	REVISION	04:00PM to 05:00 PM
6	20/03/23	REVISION	
7	21/03/23	DIAGNOSIS TEST	
8	25/03/23	TEST RESULT	20

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WOMEN EMPOWERMENT CELL

AVALUE ADDED COURSE ON POSH ACT-13

REGISTERED STUDENTS

S.NO	ROLL NO.	NAME OF THE PARTICIPANT	SIGNATURE
1	219L1A0201	ANDERI PAVANI *	10
2	219L1A0212	NARAYANA ROOPA VENNILA *	N. Roopaven
3	219L1A0214	PUNGUTHURU RAJYA LAKSHMI *	Lalahi
4	219L1A0217	VELLAMMA YASHASWINI SREE *	Jallu
5	219L1A0102	PASALA UMAMAHESWARI	D Comanalus
6	219L1A0402	ARAGONDA SHAKEELA *	-A shakede
7	219L1A0404	B BHARATHI	B. Bhowath
8	219L1A0406	BACHALA SAILAJA	B. Sailaja
9	219L1A0409	BASI REDDY SHIREESHA	B Shireth
10	219L1A0412	BATTE LOHITHA	B. Lohitha
11	219L1A0413	BIJIVEMULA SUSHMA	R. Sashma
12	219L1A0414	BODI REDDY DRAKSHAYANI	B. Doalyhour
13	219L1A0423	BYSANIPOLAIAHGARI SIREESHA	B. Sireesha
14	219L1A0425	CHIDDAPA REDDY BHARGAVI	C. Bloom !
15	219L1A0427	CHINTHAPUDI SIREESHA	Ch. Sivilesha
16	219L1A0429	CHITIKI HARINI	e Hootini
17	219L1A0430	DAKSHAYANI ESHA REDDY	D.EM
.8	219L1A0435	GANESHAM PRAVALLIKA	G. Pravallika
9	219L1A0443	JAVVAJI MOUNIKA	J. Marnika

	219L1A0447	KAMJULA INDHU PRIYA	K. Fuller pringer
21	219L1A0448	KANCHAM YASWITHA REDDY	K. yaswitha
22	219L1A0450	KATARU SIREESHA	Kisi reesta.
23	219L1A0451	KETHAM REDDIVARI ANKITHA *	K Ankelha
24	219L1A0452	KOVURI CHARISHMA REDDY	K. Charishma Red
25	219L1A0459	MALLAVARAM MANEESHA	M. maneesha
26	219L1A0460	MALLENI PALLAVI	M. pallaui
27	219L1A0462	MASIREDDY POOJITHA *	Positia
28	219L1A0469	NOUDURI SRI VENKATA NAGA LAKSHMI PAVANI	Nymani
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34	219L1A0491	REVURU BHUVANESWARI	Buraner
35	219L1A0496	THANATI DEVIKA	T. Devika
36	219L1A0498	THUNGA LAKSHMI PRASANNA	T. dakshmi prasann
37	219L1A0499	TIRUTTANI SANDHYA	T. Sandhya
38	219L1A04A0	VALLURU KAVYANJALI	V. Karyonjali
39	219L1A04A2	VENNAM MAHESHWARI	v. Maheshwari
40	219L1A0501	A SOWMYA	A foromy
41	219L1A0503	ALIVELI JOSHNA	A. Sosma
42	219L1A0504	ANANTHANENI YASASWINI	Thesornini
43	219L1A0505	APPANA MAMATHA	Mamatha
44	219L1A0506	AVULA DEEPTHI	A. Deepthi
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219L1A0544	KARVETI REVATHI *	K. udaya sandh
219L1A0545	KAVANURU SUPRIYA	M. Re Vathi
219L1A0547	KODAVATI KUSUMA PRIYA	K. SuPriya
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219L1A0565	MAHENDRA YOGANANDHINI *	M. Naollini
219L1A0575	NAGIREDDY SANJANA	N. Sories
219L1A0582	PALLALA VANI	
219L1A0585	PASUVULA NAVYA	O LANGE
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89	229L1A04	22 GUDURU VARSHITHA	CHANGE
90	229L1A04	23 K LIKHITA	Grivarehitho
91	229L1A042	26 KANTINENI LAVANYA *	k likitha
92	229L1A043	S1 KONERU YAMINI	K. Lavanya
93	229L1A044	2 NAGI REDDY ABHINAYA JYOTHI	K. Yamini
94	229L1A044	3 NAGURU NISHMA	W. Alshenaya
95	229L1A044	6 NEELAM SUPRAJA	N.Dishma
96	229L1A045	SARPUR DEEKSHITHA	N. Supraja
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100	229L1A0503	ALLAMADUGU SNEHA *	Reddy
101	229L1A0505	ANGAJALA CHARITHA	-Asneha
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103	229L1A0508	ATUKURI BHAVYA SREE	Bonus A.
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05	229L1A0511	BACHALA PALLAVI	B. Pava M
06	229L1A0516	BESTA ANKITHA	B. Panassy
07	229L1A0519	BHUMIREDDY VENKATA SAI MAHITHA	B.Ankitha
08	229L1A0521	BISSAIAHGARI PADIGIREDDIGARI PRATHYUSHA	Snc B.P. priattywha
19	229L1A0523	BUCHUPALLE HARSHITHA	- U
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1	229L1A0526	CHALLA SRAVANA SANDHYA	lahari
2	229L1A0527	CHANDRA DEEPTHI	C. Gravava Sandleya

113	229L1A0529	CHERUKUMUDI ASWINI	ch-Assaini
114	229L1A0530	CHILLAKURU ARCHANA	ch-drichana
115	229L1A0534	DAMAM KEERTHI	
116	229L1A0535	DASARI REVATHI	D. Keerthi
117	229L1A0538	DODLA PAVITRA	D. Pauttra
118	229L1A0542	EDDULA KAVYA SREE	
119	229L1A0543	ESUKAMATLA CHANDRAKALA	Kavyasawe
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123	229L1A0548	GUJJULA GANGA MYTHILI	G. Svavani
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125	229L1A0551	K AISHWARYA	J Pravallika
126	229L1A0553	K PRATHYUSHA	K. APshwagya
127			K. Prathywska
	229L1A0559	KAKI TEJASRI	K. Teia
128	229L1A0568	KARGI PREETHI	Bree th.
129	229L1A0569	KARINGALI PREETHIKA	Dreethika
130	229L1A0570	KARNAM BHAVYA	k.Bhaya
131	229L1A0571	KARRI BHANU SRI	K-Bhanussi
132	229L1A0576	KOLA MOUNIKA	K. Mourias:
.33	229L1A0577	KOLARU HARIKA	V 11 - 0/1.
34	229L1A0580	KONEPALLI RAJINI	k Oni
35	229L1A0587	MAKATI SRAVANTHI *	K. Rajnii
36	229L1A0590	MANKU SIREESHA	M. stavanthi
37	229L1A0591	MANUBOLU INDHU *	H-sisteesha
38	229L1A0594	MUDDAMGALA PAVANI*	4 rAm
39	229L1A0598	NANDA KUMAR MAMATHA	M. Tavana
40	229L1A0599	NANDANOORU GOPIKA	N.Mamatha
41		NANDARAPU SUJITHA	N. gopika
12		NANNURU RAMYA	N. Susitha.
13			N. Kamya
14		NARAGANTI KAVYA SREE	N'kavyasree
	229L1A05A5	NASNURI NIKHILA *	Nikhile

145	229L1A05B2	PALAKOLANU VARSHINI	Vaashini
146	229L1A05B6	PANABAKAM SYAMALA *	P. Syamala
147	229L1A05B7	PATHIPATI PRAVALLIKA	0.0
148	229L1A05B9	PEDDAIAHGARLA REDDY RANI	P-Pravallika
149	229L1A05C0	PEDDAKOTLA LALITHA	P. Reddy Rang P. Laltha
150	229L1A05C2	PEDDINTTIGARI CHANDANA	p. chandana
151	229L1A05C5	POTUGARI MOUNIKA *	P-Mounika
152	229L1A05C7	PUTHA DEEPTHI	
153	229L1A05C9	R LAHARI	P. Deepthi R. Lahasii
154	229L1A05D1	RAMI REDDY GARI HARSHITHA	R. Harshetha
155	229L1A05D2	RAMPATI RACHANA *	60
156	229L1A05D4	S MOUNIKA	S. Maurika
157	229L1A05D5	SALANKI KAVYABAI	S. Kavyabai
158	229L1A05D6	SANGATI CHANDRIKA	5. chandis
159	229L1A05D7	SETTIPALLI VAISHNAVI *	Voishou
160	229L1A05D9	SHAIK GOUSIYA *	S. Growinga
161	229L1A05E3	TALLA SAI KEERTHI	T. Saikeerthi
162	229L1A05E4	TANGASALA MONIKA	T Houlka
163	229L1A05E5	TEJASRI M *	Si jawa
164	229L1A05E6	THALARI DEEPIKA *	
165	229L1A05E9	THUPAAKULA GANGA DEVI	T. Deepika
166	229L1A05F5	VADAKUPETA BANUSRI	V. Banusii
167	229L1A05F7	VAKKAKU ARCHANA	volsidana
168	229L1A05F8	VALIGLAMA GREESHMA *	Goreshin
169	229L1A05G4	VEPAMBATTU GAYATHRI	V. Gayathri
170	229L1A05G5	VERANAPPAGARI CHATURA *	
71	229L1A05G8	YARAVA LAKSHMI SUMANJALI	V. Chatura
72	229L1A3301	ADAPALA ISHWARYA	4. Columnaniali
.73	229L1A3303	ARAVA KEETHI	A. Dehionya
74	229L1A3306	BANDI SASIKALA	B. Sokala
75	229L1A3310	CHENGATI BHAVANA	
76	229L1A3311	DERANGULA MAMATHA *	Bhavana

177	229L1A3312	DERANGULA SRAVANI	0 - 0
178	229L1A3313	DEVARINTI SAILAJA	D. Szavani
179	229L1A3314	DURGADA SANDHYA	D. Sailija
180	229L1A3316	GADDAM HARIPRIYA	& Sandhya
181	229L1A3319	GUGGILLA NANDINI	G. Hari Priya
182	229L1A3321	K VENKATA SUSHMA *	K. Sushma
183	229L1A3323	KANNEMADUGU DHANA SREE	
184	229L1A3324	KEDRI BHAVANA	K. Dhana Stee
185	229L1A3331	M KUSUMA *	K. Bharana
186	229L1A3332	M PREETHI	M. Kusuma M. Preedlii
187	229L1A3333	MADDINI USHA	M.Usha
188	229L1A3336	NETTEM BHAVYA SRI	
189	229L1A3339	PANGA HIMAJA	N. Bhovyasti
190	229L1A3340	PERUGU NANDHINI	20 maje
191	229L1A3342	PRATHIPATHI VENKATA SAI NIKITHA	P. Nanolhini
192	229L1A3343	RAMISETTY BHAVANA *	P Saidilita
.93	229L1A3346	THAMATAM PRANITHA	R. Bhavana

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College e-mail ID: siddarthaedu@gmail.com website: siddarthaedu.in

WOMEN EMPOWERMENT CELL

AVALUE ADDED COURSE ON POSH ACT-13

REGISTERED FACULTY

S.NO	NAME OF THE FACULTY	DEPT.	SIGNATURE
1	Ms. K THRIVENI	BS&H	L.T. C. O.
2	Mrs. S Reddypallavi	BS&H	S. P. Pallav
3	Mrs. M. Lakshmi Prasana	BS&H	M. Calib
4	Mrs. K Deepika	BS&H	K PP
5	Mrs. K KUSUMA	BS&H	p.b.
6	Mrs. N S DIVYA	BS&H	Digas.s
7	V Priyanka Reddy	CIVIL	Will-
8	C SAKILA BANU	EEE	and
9	D DIVYA	EEE	Ø.D.
10	P SNEHA	MECH	Se .
11	Nelakurthi Pavitra	ECE	Pit.
12	S NOWJIYA	ECE	Ley
13	P Sandhya Rani	ECE	P. Sawya
14	T Bhavya	CSE	Bharry
15	M Latha	CSE	1.htL
16	P LAVANYA	CSE	Pheranya
17	T PRAMEELA	CSE	7. premile
18	K SUNITHA	CSE	K-81

19	M B Jyothi	MBA Tyath	٠,
20	Usha Rani A	MBA Ushe	
21	P Gnana Prasuna	MBA To Camp	Ze
22	K Yasaswini	MBA K. glue	
23	K HIMABINDU	MBA Dine	1

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Summary

This Act was created to ensure that workplaces remain free from sexual harassment and to provide a safe and secure environment for women. It also seeks to create awareness about the issue of sexual harassment and to provide the necessary legal remedies for victim. The POSH Act was passed to safeguard women from workplace sexual harassment. Employers are required by this Act to offer female employees a secure and safe work environment. Additionally, it mandates that employers create an Internal Complaints Committee (ICC) within their business to handle sexual harassment claims. The course covers theory only where it will create general awareness among women in work place. The POSH Act was passed to safeguard women from workplace sexual harassment. Employers are required by this Act to offer female employees a secure and safe work environment. Additionally, it mandates that employers create an Internal Complaints Committee (ICC) within their business to handle sexual harassment claims. For each topic, the course presents one example, one or two new updates in today's society

COORDINATOR

Women Empowerment Cell



Phone: 8008202337, 9966700414

College e-mail ID: siddarthaedu@gmail.com website: siddarthaedu.in

WOMEN EMPOWERMENT CELL

Semester: All semesters

Academic year: 2022-2023 Batch: I & II year students

Name of the Add-on course: POSH ACT-2013

ASSESMENT SHEET OF ADD ON COURSE

The assessment of the students is made based on the Exam which consists of multiple choice questions, after the completion of course.

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College e-mail ID: siddarthaedu@gmail.com, website: siddarthaedu.in

Answer the following	ng:					
1. Most vulnerable s	ections of society-			(C)
A. Women	B. Children	C.A&B	D. men			
2. the LCC is manda	ited under	section of resource	?	(Α)
A. Section 6	B. Section	14 C. Section	on 8 D. Section	ons 1		
3. Who is a Respond	lent?			(В)
A. Victim	B. Accused	C. Witness	D. Audienc	e		
4. Internal committee	e consist of a min	imum ofmembe	ers	(C)
A. 2	B. 6	C. 4	D. 5			
5. Which comes un	der criminal law A	ACT, 2013		(D)
A, Sexual harass	sment B. Stalki	ng C. Voyeuri	sm D. all the above			
6. The prevention of	f work place sexu	al harassment acts	extends to the	(C)
A. State	B. District	C. whole India	D. None			
7. Under which Arti	cle the sexual hara	assment is a grass v	riolation of fundamental	rights p	provi	ded
				(D)
A. Article 14	B. Article 19	C. Article 21	D. All the above			
8. The elements und	ler POSH Act are			(D)
A. Prevention	B. Prohibition	C. Redressal	D. All the above			
9. Vishaka Guidelin	es deals with			(В)
A. Child Labo	our B. Sexual	harassment C. C	Child marriage D.None			

10. Quid pro quo harass	ment occurs in the workplace when a superior or other at he or she will give the employee something (a raise	authority or a pror	y figu	ure on)
in return for that employ	vee's satisfaction of a sexual demand.	(A)
A. True	B. False			
11. The Sexual Harassi Act, 2013 is an Indian le	ment of Women at Workplace (Prevention, Prohibition aw that aims to protect Child from child labour	, and Red	iressa B	al)
A. True	B. False			
12. PoSH Act," is an In	dian law that aims to make workplaces safer for wom	en by pre	venti	ng,
forbidding, and redressi	ng acts of sexual harassment against them.	(A)
A. True	B. False			
13. proper documentation	on is critical for PSH Act,2013.	(Α)
A. True	B. False			
14. Before filing a couragency in your area.	rt complaint, you must not report the harassment to a l	aw enforc	B	nt)
A. True	B. False			
15. SHe-box refers to S	Sexual Harassment Electronic Box	(Α)
A. True	B.False			

A. Child Labour

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Near C. Gollapalli, Tirupati (Rural) - 517 505, Andhra Pradesh Phone: 8008202337, 9966700414 College e-mail ID: siddarthaedu@gmail.com, website: siddarthaedu.in 2194A021 Answer the following: 1. Most vulnerable sections of society-----C.A&B A. Women B. Children D. men 2. the LCC is mandated under -----section of resource? A. Section 6 B. Section 14 C. Section 8 D. Sections 1 3. Who is a Respondent? C. Witness A. Victim B. Accused D. Audience 4. Internal committee consist of a minimum of ---- members C. 4 A. 2 B. 6 D. 5 Which comes under criminal law ACT, 2013 A. Sexual harassment B. Stalking C. Voyeurism D. all the above 6. The prevention of work place sexual harassment acts extends to the C. whole India D. Non A. State B. District 7. Under which Article the sexual harassment is a grass violation of fundamental rights provided B. Article 19 C. Article 21 D. All the above A. Article 14 8. The elements under POSH Act are A. Prevention B. Prohibition C. Redressal D. All the above 9. Vishaka Guidelines deals with

B. Sexual harassment C. Child marriage D.None

offers	or merely hints th	ment occurs in the workplace when a superior or of at he or she will give the employee something (a ra yee's satisfaction of a sexual demand.	ise or a promotion)
in retu	in for mat employ	ree's satisfaction of a sexual defination	
	A. True	B. False	
11. Th Act, 20	ne Sexual Harassn 013 is an Indian la	nent of Women at Workplace (Prevention, Prohibit aw that aims to protect Child from child labour	tion, and Redressal)
	A. True	B. False	
12. Po forbide	SH Act," is an Inding, and redressing	dian law that aims to make workplaces safer for wong acts of sexual harassment against them.	omen by preventing,
	A. True	B. False	
13. pro	oper documentation	on is critical for PSH Act,2013.	(P) T
	A. True	B. False	
	efore filing a cour in your area.	t complaint, you must not report the harassment to	a law enforcement
	A. True	B. False	
15. SI	He-box refers to S	Sexual Harassment Electronic Box	(b) <
	A. True	B.False	
	100		

0

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229LIA050 Answer the follow	O ing:	date:	21/03/2023	4-INSE
1. Most vulnerable	sections of society			(C)
A. Women	B. Children	C.A&B	D. men	
2. the LCC is mand	ated unders	ection of resource?		(D)Y
A. Section 6	B. Section 1	4 C. Section	n 8 D. Section	ons 1
3. Who is a Respon	ident?			(B)
A. Victim	B. Accused	C. Witness	D. Audienc	e
4. Internal committ	ee consist of a minir	num ofmembe	rs	(0)
A. 2	B. 6	C. 4	D. 5	
5. Which comes ur	nder criminal law A	CT, 2013		(D)
A. Sexual haras	ssment B. Stalkin	g C. Voyeuris	sm D. all the above	
6. The prevention	of work place sexua	l harassment acts e	extends to the	(C)
A. State	B. District	C. whole India	D. Non	
7. Under which Art	ticle the sexual haras	ssment is a grass v	iolation of fundamental	rights provided (B)
A. Article 14	B. Article 19	C. Article 21	D. All the above	
8. The elements un	der POSH Act are			(D)/
A. Prevention	B. Prohibition	C. Redressal	D. All the above	
9. Vishaka Guideli	nes deals with			(B)/
A. Child Lab	our B. Sexual	harassment C. C	hild marriage D.None	

return for that employee	he or she will give the employee something (a raise's satisfaction of a sexual demand.	(B)
A, True	B. False	
The Sexual Harassme et, 2013 is an Indian law	nt of Women at Workplace (Prevention, Prohibitio that aims to protect Child from child labour	n, and Redressal)
A. True	B. False	
2. PoSH Act," is an Indi- orbidding, and redressing	an law that aims to make workplaces safer for won acts of sexual harassment against them.	nen by preventing,
A. True	B. False	
3. proper documentation	is critical for PSH Act,2013.	(A)/
A. True	B. False	
14. Before filing a court of gency in your area.	complaint, you must not report the harassment to a	law enforcement
A. True	B. False	
15. SHe-box refers to Sex	kual Harassment Electronic Box	(B)
A. True	B.False	

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nswer the follow	539 Date	, 21103120	-3	
Most vulnerable	sections of society			(C)
A. Women	B. Children	C.A&B	D. men	
the LCC is mand	ated underse	ection of resource?		(A) /
A. Section 6	B. Section 14	C. Section	D. Section	ons 1
. Who is a Respon	ident?			(B)
A. Victim	B. Accused	C. Witness	D. Audienc	e
. Internal committ	ee consist of a minin	num ofmember	rs	(C)
A. 2	B. 6	C. 4	D. 5	
. Which comes un	nder criminal law AC	TT, 2013		(D)
A. Sexual haras	ssment B. Stalking	g C. Voyeuris	m D. all the above	
6. The prevention	of work place sexual	harassment acts e	xtends to the	(८)
A. State	B. District	C. whole India	D. Non	· ·
7. Under which Ar	ticle the sexual haras	sment is a grass vi	iolation of fundamental	rights provided
A. Article 14	B. Article 19	C. Article 21	D. All the above	
3. The elements un	nder POSH Act are			(D)
A. Prevention	B. Prohibition	C. Redressal	D. All the above	
				2.00

10. Quid pro quo harassi	ment occurs in the workplace when a superior of	r other authority figure
	at he or she will give the employee something (a see's satisfaction of a sexual demand.	a raise or a promotion)
in return for that employ	ce's satisfaction of a sexual definance.	41
A. True	B. False	
	nent of Women at Workplace (Prevention, Prohi w that aims to protect Child from child labour	ibition, and Redressal)
A. True	B. False	
	dian law that aims to make workplaces safer for	women by preventing,
forbidding, and redressir	ng acts of sexual harassment against them.	(A)
A. True	B. False	
13. proper documentatio	n is critical for PSH Act,2013.	(A)
A. True	B. False	A STATE OF
14. Before filing a court	complaint, you must not report the harassment	to a law enforcement
agency in your area.		(B)
A. True	B. False	
15. SHe-box refers to S	exual Harassment Electronic Box	(A)
A. True	B.False	



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website: siddathaedu.in

WOMEN EMPOWERMENT CELL

AVALUE ADDED COURSE ON POSH ACT-13

ATTENDANCE OF THE STUDENTS

S.NO	Roll Number	Name of the participants	13/02	14/6	16%	17/02	13/02	00/01	21/02	24/02	23/02	24/02	25/00	24/02	27/0	01/68	03/3	04/0	59/6	13/00	18/	20/	21/	257
1	219L1A0201	ANDERI PAVANI	P	0	2	0	10	0	0	0	0	6	0	1	0	0	0	0	10	0	(0)	100	195	//
2	219L1A0212	NARAYANA ROOPA VENNILA	D	0	0	D	1	5	0	1	1	1	1	D 21	1	0	P	10	0	0	P	6	P	P
3	219L1A0214	PUNGUTHURU RAJYA LAKSHMI *	b	P	P	4	D	D	0	0	D	P	10	r	P	H	0	P	P	P	P	P	P	A
4	219L1A0217	VELLAMMA YASHASWINI SREE *	0	D	D	0	0	D	D	1	T	10	0	0	2	7	r	0	P	P	3	A	P	8
5	219L1A0102	PASALA UMAMAHESWARI	D	D	0	D	6	0	5	9	5	5	1	K	1	N	H	1	P	1	1	P	1	K
3	219L1A0402	ARAGONDA SHAKEELA *	A	A	0	6	5	6	K	5	K	1	2	H	K	7	2	P	T	K	X	P	P	2
	219L1A0404	B BHARATHI	D	0	0	0	K	6	2	5	8	0	0	X	K	K	7	P	K	P	Y	P	P	2
	219L1A0406	BACHALA SAILAJA	0	0	5	6	6	6	6	6	6	8	5	Y	X	P	R	P	12	12	P	P	P	2
Con I	219L1A0409	BASI REDDY SHIREESHA	0	6	0	0	5	0	6	0	5		2	2	K	1	P	P	P	P	P	P	P	2
0	219L1A0412	BATTE LOHITHA	6	5	B	K	8	P	6	0	12	P	2	Y	R	P	P	P	P	P	P	P	P	D
1	219L1A0413	BUIVEMULA SUSHMA	6	8	5	6	6	B	P	0	P	6	P	Y	K:	A	P	P	P	P	P	4	P	D
2	219L1A0414	BODI REDDY DRAKSHAYANI	P	P	6	12	5	A	6	P	P	D	0	P	R	P	P	P	P	P	P	P	P	2

13	2101140422	BYSANIPOLAIAHGARI	1000		1	10	To		10	-					10			-			1-	10	La	Lucas
	219L1A0423	SIREESHA	D	P	P	P	P	P	17	IP	P	P	A	1	P	P	P	1	D	12	1	1	D	2
14	219L1A0425	CHIDDAPA REDDY BHARGAVI	D	0	18	D	D	D	0	0	6	6	D	D	0	0	0	6	0	16	6) 7	0	(3)
15	219L1A0427	CHINTHAPUDI SIREESHA	10	1	15	D	0	0	6	6	P	6	TO	0	5	16	10		1	1	1	1	1	3
16	219L1A0429	CHITIKI HARINI	10	5	10	0	0	16	6	0	10	16	10	K	6	K	1	1	1	17	18	10	P	1
17	219L1A0430	DAKSHAYANI ESHA REDDY	10	A	17	10	6	0	6	1	6	6	1	X	K	He He	K	100	16	d	14	11	A	A
18	219L1A0435	GANESHAM PRAVALLIKA	D	D	5	10	0	5	A	5	5	3	3	X	K	K	K	1	K	1	1	16	B	Y
19	219L1A0443	JAVVAJI MOUNIKA	D	5	5	0	5	5	D	5	6	D	5	X	8	1	16	16	16	1	16	17	16	P
20	219L1A0447	KAMJULA INDHU PRIYA	15	0	1	D	6	6	6	10	6	1	5	X	8	1	K	K	6	Z	1	12	K	P
21	219L1A0448	KANCHAM YASWITHA REDDY	D	D	6	D	16	10	15	0	*	A	5	7	8	K	1	K	6	1	6	1,6	1 K	P
22	219L1A0450	KATARU SIREESHA	16	5	0	0	6	5	5	6	6	5	5	2	K	K	P	6	7	10	K	15	P	2
23	219L1A0451	KETHAM REDDIVARI ANKITHA *	A	P	D	P	D	D	D	D	5	D	D	8	0	5	0	7	0	0	P	P	P	0
24	219L1A0452	KOVURI CHARISHMA REDDY	10	D	10	D	0	6	6	D	0	D	D	5	6	0	0	6	10	F	10	3	6	K
25	219L1A0459	MALLAVARAM MANEESHA	D	D	D	5	6	5	5	5	2	5	5	X	*	A	K	K	10	W.	1	18	10	6
26	219L1A0460	MALLENI PALLAVI	5	0	0	5	A	1	0	6	10	6	n	X	K	H	6	1	10	1	K	K	B	K
27	219L1A0462	MASIREDDY POOJITHA *	6	2	0	0	0	A	16	0	6	0	6	K	5	K	K	1	P	6	P	1	K	K
28	219L1A0469	NOUDURI SRI VENKATA NAGA LAKSHMI PAVANI	D	P	P	P	0	D	6	P	P	P	D	5	D	D	5	D	P	P	P	2	B	4
29	219L1A0472	OTIKUNTA SIVALAKSHMI	D	A	D	D	D	0	D	D	D	D	5	5	6	0	0	50	0	n	3	5	5	5
30	219L1A0473	PAIDI JYOTHI	0	0	0	D	5	6	6	5	6	5	0	1	6	6	5	6	0	16	K	6	K	K
31	219L1A0475	PERAM LAVANYA	5	0	D	D	5	5	6	6	10	0	5	0	K	2	5	6	P	1	10	4	12	K
32	219L1A0478	PIDATHALA LAKSHMI PRAVANJANA	D	D	P	D	5	P	0	P	0	D	0	P	7	5	D	6	9	0	5	5	D	6
33	219L1A0489	REPANA LALITHA RANI	0	0	D	D	0	0	Δ	0	0	D	7	5	5	0	5	0	5	0	5	0	0	0
34	219L1A0491	REVURU BHUVANESWARI	0	0	D	A	0	6	0	6	6	0	5	5	5	6	5	6	6	6	1	8	1	K
35	219L1A0496	THANATI DEVIKA	0	D	0	D	D	5	0	5	5	5	D	K	6	5	8	K	1	0	0	1	10	X
36	219L1A0498	THUNGA LAKSHMI	6	P	D	0	0	6	5	5	1	5	5	K	K	1	5	K	1	1	18	4	1	0

- 9	J. C. J. LIST CO.	PRASANNA	PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP
37	219L1A0499	TIRUTTANI SANDHYA	DDDD A PDDD DDDDDDDDDDDDDDDDDDDDDDDDDDD
38	219L1A04A0	VALLURU KAVYANJALI	DPPP DDDDDDDDDDDDDDDDPPPPPPPPPPPPPPPPP
39	219L1A04A2	VENNAM MAHESHWARI	D D D D D D D D D D D D D D P P D P P D P
40	219L1A0501	A SOWMYA	DPPPDDDDPPDDPPPPP
41	219L1A0503	ALIVELI JOSHNA	D D PP D D D D D D D D D D D D P P D
42	219L1A0504	ANANTHANENI YASASWINI	PPPPDDDDDDDDPPPPPDDDD
43	219L1A0505	APPANA MAMATHA	ADDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
44	219L1A0506	AVULA DEEPTHI	DDDDDDDDDDDDDDDDDDDDDD
45	219L1A0507	B KEERTHAN *	DD AD DDPPDDDDDDDDPPDPD
46	219L1A0512	CETTY SHALINI	500000000000000000000000000000000000000
47	219L1A0515	CHINTAM SRI SINDHU	OAPDODDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
48	219L1A0519	CHOPPA ABITHA	DDD PDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
49	219L1A0522	DUVVURU KEERTHANA	DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
50	219L1A0533	JETHIPATTI TEJESWARI	PDDPPDDDDDDDDDDDDDDD
51	219L1A0534	JONNAGADDALA TEJESWINI	PPP DDDDDDDDDDDDDDDDDD
52	219L1A0536	K MADHURI	DDDP ADDDDDDDDDDDDDDD
53	219L1A0539	KAMBHAM SUMITHRA	POPP PODDDDDDDDDDDDPPPP
54	219L1A0541	KANAPARTHI KEERTHI	DDPP DDDDDDDDDDDDPPPPP
55	219L1A0542	KANDALA YAMUNA	DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
56	219L1A0543	KANDATI UDAYA SANDHYA	DAPP PDDDDDDDDDDDDDDDDD
57	219L1A0544	KARVETI REVATHI *	DODP PDPD PDADDDDDDDDDDDD
58	219L1A0545	KAVANURU SUPRIYA	P D D P D D A D D D D D D D D D D D D D
59	219L1A0547	KODAVATI KUSUMA PRIYA	PPPP DDPDDDDDPPPPPP
60	219L1A0552	KONDAPALLE AKSHAYA	DPPP DDPDDDDDDDPDPDPD

31	219L1A0554	KOONAPALLI PAVITHRA	P	P	P	P	12	P	2	P	1	H	P	M	2	P	2	P	R	K	K	P	K	K
32	219L1A0557	M LIKITHA	p	2	P	P	A	A	P	P	P	P	2	1	2	2	R	P	P	R	X	2	12	#
33	219L1A0558	M MONIKA	D	D	P	P	P	D	P	P	P	P	P	P	P	H	P	R	P	P	P	P	P	P
84	219L1A0560	M SUCHARITHA	D	P	P	P	P	P	2	P	A	A	P	P	2	R	2	K	P	P	R	P	10	1
85	219L1A0562	MADITHATI NIHARIKA	P	P	P	P	P	P	P	P	P	P	P	P	P	1	P	R	R	P	R	K	P	Y
86	219L1A0564	MADITHATI VINOOTHNA	P	P	P	P	A	D	P	P	P	P	P	P	P	P	2	1	P	P	P	P	P	1)
67	219L1A0565	MAHENDRA YOGANANDHINI •	P	P	P	P	P	P	P	P	P	P	P	P	P	2	P	P	P	A	P	P	P	1
68	219L1A0575	NAGIREDDY SANJANA	P	P	P	P	P	P	P	2	9	P	P	P	2	Y	P	P	P	7	1	P	10	1
69	219L1A0582	PALLALA VANI	P	P	P	A	12	P	P	P	P	P	P	P	2	12	2	P	P	7	K	K	7	10
70	219L1A0585	PASUVULA NAVYA	P	P	P	P	P	P	P	P	P	P	P	P	Y	1	P	P	Z	P	K	K	K	6
71	219L1A0586	PATAN ASMA	P	P	P	P	P	P	P	P	P	P	P	2	P	7	P	2	Y	P	K	X	P	6
72	219L1A0587	PATNAM ANSHU	P	P	P	P	P	P	P	P	P	P	P	1	2	2	K	E	P	K	R	P	R	1
73	219L1A0591	PONNA DILLI RANI	P	P	P	P	P	P	P	P	P	P	P	2	P	P	Y	K	P	K	12	R	R	P
74	219L1A0592	PULICHERLA NANDHINI	P	P	P	P	P	P	P	P	P	P	P	P	P	D	12	P	P	10	K	R	10	1/2
75	219L1A0593	RAMAGIRI AMANI	P	P	P	P	P	P	P	IP	P	P	P	12	P	2	P	A	P	P	K	12	K	1
76	219L1A05A1	SUNAKANTI JYOTHSNA	P	P	P	P	P	P	1	P	P	P	P	P	P	1	P	X	P	P	P	JE.	P	P
77	219L1A05A2	TAMATAM PRASANTHI *	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	R	H	P	1	10	P	1
78	219L1A05A3	THALLA NANDINI	P	P	P	P	F	P	F	P	P	P	P	P	1	12	P	P	P	P	P	R	10	1
79	219L1A05A4	THATHI REDDY NANDINI *	P	P	P	0	17	P	P	P	A	P	P	2	P	1	6	P	1	R	P	P	P	K
80	219L1A05A6	UPPUTURU VIMALA	6	P	P	P	P	P	P	P	P	P	P	P	P	12	K	P	K	K	IL	12	16	10
81	219L1A05A7	VADDI ANUSHA	P	P	P	P	1	P	P	P	P	P	P	P	12	1	12	1	P	P	P	P	P	P
82	219L1A05B0	VLASALA INDHU	7	0	1	P	P	P	P	7	P	P	P	P	K	P	10	1-	1	11	1	P	P	6
83	229L1A0301	BANDI DEEPIKA *	P	P	P	P	P	P	P	P	P	P	1	D	K	1	10	P	12	F	1	P	K	P
84	229L1A0404	ALLAM GAYATHRI	F	P	1	P	8	P	16	P	8	P	P	P	1	12	12	1	12	1	1	16	K	P
85	229L1A0406	ANGEREDDY PRIYA	1	P	1	P	10	18	10	P	P	P	P	P	P	P	1	12	1	P	1/	17	P	P

86	229L1A0408	BANDARU SUSMITHA	0	P	P	P	P	P	P	P	P	P	9-	A	12	P	P	P	0	P	P	P	P	1
87	229L1A0412	CHADALAWADA DIVYA SAHITHI	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
88	229L1A0415	CHINTHAKUNTA PRIYA	0	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	0
89	229L1A0422	GUDURU VARSHITHA	0	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	9
90	229L1A0423	K LIKHITA	D	P	P	P	0	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
91	229L1A0426	KANTINENI LAVANYA*	D	D	P	D	P	12	P	P	2	P	P	P	P	P	P	A	P	P	P	P	P	P
92	229L1A0431	KONERU YAMINI	D	P	P	P	D	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
93	229L1A0442	NAGI REDDY ABHINAYA JYOTHI	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
94	229L1A0443	NAGURU NISHMA	D	P	A	P	P	P	P	0	P	P	P	P	D	9	P	P	P	P	P	P	P	P
95	229L1A0446	NEELAM SUPRAJA	D	P	P	P	D	P	P	D	0	P	P	P	P	P	P	P	P	P	P	D	P	8
96	229L1A0450	SARPUR DEEKSHITHA	9	D	P	D	P	P	P	P	P	P	P	D	P	P	P	P	P	P	P	P	D	B
97	229L1A0453	UTUKURU KEERTHI	D	0	D	P	P	D	P	D	P	D	P	D	D	P	P	P	P	P	P	P	p	K
98	229L1A0456	VEERISETTY LAKSHMI PRIYA	D	D	P	P	D	P	P	P	P.	A	P	D	D	P	P	P	P	P	P	P	P	P
99	229L1A0502	AKKI SAHITHI REDDY	P	P	D	P	0	P	P	P	P	P	P	P	0	P	P	D	P	1	P	P	P	P
100	229L1A0503	ALLAMADUGU SNEHA*	A	D	P	P	P	6	P	P	P	P	P	P	P	P	P	1	P	1	1	P	P	P
101	229L1A0505	ANGAJALA CHARITHA	P	2	P	P	P	P	P	P	P	4	P	P	P	D	P	2	2	P	2	12	P	P
102	229L1A0507	ARIKELA BHARGAVI	D	P	P	P	P	P	P	P	P	P	P	P	P	P	D	P	P	P	P	D.	A	R
103	229L1A0508	ATUKURI BHAVYA SREE	D	P	P	P	P	0	10	P	P	P	P	P	P	D	4	0	P	P	P	P	P	R
104	229L1A0510	B PAVANI	P	P	P	P	10	1	P	P	P	P	P	P	2	P	D	2	12	P	I	10	D	K
105	229L1A0511	BACHALA PALLAVI	P	P	D	P	D	P	A	D	P	P	P	P	D	P	P	P	P	P	19	12	P	P
106	229L1A0516	BESTA ANKITHA	P	D	P	P	P	T	1	P	P	P	0	P	P	P	P	P	P	D	D	P	P	P
107	229L1A0519	BHUMIREDDY VENKATA SAI MAHITHA	P	P	P	P	P	P	P	D	P	P	P	P	D	P	P	P	P	A	P	P	D	P
108	229L1A0521	BISSAIAHGARI PADIGIREDDIGARI PRATHYUSHA	P	P	P	P	9	P	F	P	P	P	P	P	P	P	P	J.	P	P	P	A	P	P

109	229L1A0523	BUCHUPALLE HARSHITHA	PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP
110	229L1A0525	CHAKRAVARTHULA LAHARI	DADDDDDDDDPPPPPPPPPPPPPPPPPPPPPPPPPPPPP
111	229L1A0526	CHALLA SRAVANA SANDHYA	PPPPPPPPPPPPPPP
112	229L1A0527	CHANDRA DEEPTHI	DDPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP
113	229L1A0529	CHERUKUMUDI ASWINI	PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP
114	229L1A0530	CHILLAKURU ARCHANA	PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP
115	229L1A0534	DAMAM KEERTHI	PPPP PPPPPPPPPPPPPP
116	229L1A0535	DASARI REVATHI	PPPPAPPPPPPPPPP
117	229L1A0538	DODLA PAVITRA	DPPPDPPPPPPPPPPP
118	229L1A0542	EDDULA KAVYA SREE	PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP
119	229L1A0543	ESUKAMATLA CHANDRAKALA	PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP
120	229L1A0544	GANGA PAVANI	PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP
121	229L1A0545	GODINA SAI YOSHITHA	DPDD DPPDPPPBBBBBBBBBBBBBBBBBBBBBBBBBBB
122	229L1A0546	GORLA SRAVANI	DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
123	229L1A0548	GUJJULA GANGA MYTHILI	DPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP
124	229L1A0550	JANGAM PRAVALLIKA*	DPPPPPPPPPPPPP
125	229L1A0551	K AISHWARYA	PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP
126	229L1A0553	K PRATHYUSHA	PPAAPPPPPPPVKKKKKKKKKKKKKKKKKKKKKKKKKKK
127	229L1A0559	KAKI TEJASRI	PPPR PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP
128	229L1A0568	KARGI PREETHI	PPPPPPPPPPPPPP
129	229L1A0569	KARINGALI PREETHIKA	PDPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP
130	229L1A0570	KARNAM BHAVYA	PRPRPPPPPPPPPPP
131	229L1A0571	KARRI BHANU SRI	PPPPPPPPPPBBBBBBBBBBBBBBBBBBBBBBBBBBBBB
132	229L1A0576	KOLA MOUNIKA	PPPPVDDAPPPREHATER
133	229L1A0577	KOLARU HARIKA	APPRDDDDPPPPPPPPP

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134	229L1A0580	KONEPALLI RAJINI	DODDE	PPP	PPP	21	PPP	PP	0000
135	229L1A0587	MAKATI SRAVANTHI *	PPPP	PPP	PPP	PR	PPP	PP	PPPP
136	229L1A0590	MANKU SIREESHA	PPPPP	PPF	PPP	DR	PPP	PP	1111
137	229L1A0591	MANUBOLU INDHU *	APDDI	DPP	PAPP	DY	PPP	PP	PPA2
138	229L1A0594	MUDDAMGALA PAVANI*	DDDDDS	DPP7	PPP	PK	PPP	PE	PPPY
139	229L1A0598	NANDA KUMAR MAMATHA	DPPT	PPI	PPP	PP	PPE	PP	PPPY
140	229L1A0599	NANDANOORU GOPIKA	PPPI	PPP	PPPP	PP	PAI	PP	PPER
141	229L1A05A0	NANDARAPU SUJITHA	DP P 9	PPPI	DPPP	PP	PPP	PP	PPPP
142	229L1A05A1	NANNURU RAMYA	00000	PPP	JAHP	PP	PPP	121	PPPE
143	229L1A05A2	NARAGANTI KAVYA SREE	PPPPI	PPI	PPPP	PR	PPP	170	PPPV
144	229L1A05A5	NASNURI NIKHILA *	DPAPI	PPP	PPP	PP	DOL	PP	PPPP
145	229L1A05B2	PALAKOLANU VARSHINI	PPPI	DDDP	PPP	AP	PPP	PP	PPPP
146	229L1A05B6	PANABAKAM SYAMALA*	PPPP	PPP	PPPP	PP	PPI	PP	PPPP
147	229L1A05B7	PATHIPATI PRAVALLIKA	PPPP	PPP	PPP	PP	PPI	PPP	PPPY
148	229L1A05B9	PEDDAIAHGARLA REDDY RANI	PPP	PAPI	PPPP	PP	PRE	AF	PPPP
149	229L1A05C0	PEDDAKOTLA LALITHA	PPP	DPPP	2002	PY	1200	PPP	PPPP
150	229L1A05C2	PEDDINTTIGARI CHANDANA	PPPP	DDDD	APP	PP	PP	222	PPPP
151	229L1A05C5	POTUGARI MOUNIKA *	DPAP	PPPF	PPP	PP	PPI	200	PPPP
152	229L1A05C7	PUTHA DEEPTHI	DPP	PPP	PPPP	PP	AD	PPF	PPPP
153	229L1A05C9	R LAHARI	PPP	PPPI	PPPP	PP	PP	PPP	APPP
154	229L1A05D1	RAMI REDDY GARI HARSHITHA	PPPPP	PP	PPAP	PP	PPI	DDP	PPP
155	229L1A05D2	RAMPATI RACHANA*	PPPP	PPP	PPP	120	DPP	10 1	PPPP
156	229L1A05D4	S MOUNIKA	PPP	APPP	PPD	PP	199	PPP	PPPP
157	229L1A05D5	SALANKI KAVYABAI	PPP	DPPP	DPPD	PP	122	PPY	PPAR
158	229L1A05D6	SANGATI CHANDRIKA	PPPP	PDD:	PPPP	PP	PP	PPF	PPAP

159	229L1A05D7	SETTIPALLI VAISHNAVI *	0	P	D	P	P	0	P	D	D	P	P	P	P	0	P	P	P	0	P	0	0	P
160	229L1A05D9	SHAIK GOUSIYA *	D	D	0	A	D	D	0	D	D	D	0	D	0	D	0	6	D	0	D	D	5	D
161	229L1A05E3	TALLA SAI KEERTHI	5	0	D	D	0	0	0	0	0	P	8	0	D	1	0	0	6	9	6	D	D	0
162	229L1A05E4	TANGASALA MONIKA	D	D	D	D	0	0	0	0	D	4	D	0	D	5	9	6	1	0	0	5	D	0
163	229L1A05E5	TEJASRI M *	P	D	0	D	D	0	D	P	D	D	D	5	0	5	0	D	D	10	1	1	Б	6
164	229L1A05E6	THALARI DEEPIKA *	D	A	D	D	1	0	9	0	b	0	D	0	D	0	D	0	6	6	0	D	P	0
165	229L1A05E9	THUPAAKULA GANGA DEVI	D	D	D	D	0	0	0	1	0	0	D	6	6	0	P	P	D	0	0	P	D	5
166	229L1A05F5	VADAKUPETA BANUSRI	D	0	D	D	15	9	0	D	5	0	D	D.	A	D	D	6	0	1	D	D	D	1
167	229L1A05F7	VAKKAKU ARCHANA	0	D	P	P	D	6	5	0	0	D	P	0	0	D	D	1	5	D	5	D	P	D
168	229L1A05F8	VALIGLAMA GREESHMA *	0	0	P	0	A	P	P	D	D	D	P	6	6	5	6	D	D	5	5	5	D	7
169	229L1A05G4	VEPAMBATTU GAYATHRI	P	0	P	0	D	1	D	D	0	D	D	A	D	10	0	D	5	5	D	D	5	5
170	229L1A05G5	VERANAPPAGARI CHATURA*	A	D	P	D	0	D	P	D	D	P	0	2	0	5	6	6	6	5	0	A	5	6
171	229L1A05G8	YARAVA LAKSHMI SUMANJALI	P	p	P	P	5	P	P	P	P	P	P	D	P	5	6	P	P	5	D	P	P	P
172	229L1A3301	ADAPALA ISHWARYA	D	D	D	D	0	D	D	D	D	D	D	D	D	D	D	D	0	9	D	D	P	D
173	229L1A3303	ARAVA KEETHI	D	P	D	D	D	5	D	D	D	9	D	D	D	0	0	D	D	D	D	D	D	D
174	229L1A3306	BANDI SASIKALA	0	P	P	D	P	5	0	9)-	A	D	D	5	0	6	0	D	5	0	0	D	D	0
175	229L1A3310	CHENGATI BHAVANA	D	P	P	D	D	0	6	10	P	D	0	5	D	b	D	D	D	D	0	P	D	D
176	229L1A3311	DERANGULA MAMATHA *	D	P	D	P	5	6	0	0	0	P	P	D	D	D	D	0	D	1	D	1	D	0
177	229L1A3312	DERANGULA SRAVANI	0	D	D	D	0	P	0	0	D	D	0	0	D	6	70	5	D	P	D	D	D	Q'
178	229L1A3313	DEVARINTI SAILAJA	D	D	D	D	D	0	D	5	D	0	0	0	5	0	6	D	0	0	0	D	D	D
179	229L1A3314	DURGADA SANDHYA	P	P	D	D	P	9	5	0	0	2	0	P	0	0	D	b	6	Á	0	D	D	D
180	229L1A3316	GADDAM HARIPRIYA	D	D	5	D	1	D	15	0	D	D	0	0	0	D	6	D	D	P	15	D	0	5
181	229L1A3319	GUGGILLA NANDINI	D	P	A	Ó	D	D	b	0	D	D	6	D	5	0	0	0	P	D	D	D	0	8
182	229L1A3321	K VENKATA SUSHMA *	D	D	P	P	0	D	P	0	0	D	D.	5	D	5	D	D	D	D	5	D	0	5
183	229L1A3323	KANNEMADUGU DHANA SREE	D	P	P	P	P	P	P	P	7	9	A	5	P	P	P	P	D	P	P	P	P	\$

184	229L1A3324	KEDRI BHAVANA	1	1	>	P	P	9)	P	P	P	P	P	A	F	1	2	P	P	P	P	10	P	P	P	P
185	229L1A3331	M KUSUMA*	1	1	>	D	P	11	P	P	P	P	P	P	P	16	1	2	D	b	0	D	P	9	0	P	P
186	229L1A3332	M PREETHI	7	F	D	P	P		D	0	P	P	E	10	P	6) (0	0	10	P	P	P	P	P	P	D
187	229L1A3333	MADDINI USHA	T) 7	D	P	P	9	P	D	D	P	1	1	P	1) [2	0	D	P	P	P	P	P	P	A
188	229L1A3336	NETTEM BHAVYA SRI	1	-	P	A	0	Ti	D	D	P	D	P	D	P	6	1	9	0	P	D	P	P	P	P	D	P
189	229L1A3339	PANGA HIMAJA	1	1	D	7	P		D	D	0	10	P	b	P	1	6	2	b	A	D	P	F	1	P	P	P
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Near C. Gollapalli, Tirupati (Rural) – 517 505, (A.P.) Phone: 8008202337, 9966700414

College e-mail ID: siddarthaedu@gmail.com website: siddarthaedu.in

WOMEN EMPOWERMENT CELL

FEEDBACK FORM

S.NO	PARAMETERS	EXCELLENT	VERY GOOD	GOOD	AVERAGE	POOR
1	THE COURSE CONTENT DELIVERY	/				
2	TEACHING EFFECTIVENESS	J				
3	UNDERSTANDING THE CONCEPT		V			
4	SYLLABUS COVERAGE	/				
5	OVERALL PERFORMANCE		/			
	COMMENT	No	Comr	nent	2	

CONVENER

[WOMEN EMPOWERMENT CELL]



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Near C. Gollapalli, Tirupati (Rural) - 517 505, (A.P.)

Phone: 8008202337, 9966700414

College e-mail ID: siddarthaedu@gmail.com website: siddarthaedu.in

WOMEN EMPOWERMENT CELL

FEEDBACK FORM

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2	TEACHING EFFECTIVENESS		/			
3	UNDERSTANDING THE CONCEPT	V				
4	SYLLABUS COVERAGE	/				
5	OVERALL PERFORMANCE		/			
	COMMENT	Voice	is	100		

CONVENER

[WOMEN EMPOWERMENT CELL]

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An ISO 9001: 2015 & ISO 14001: 2015 certified Institution

Near C. Gollapalli, Tirupati (Rural) - 517 505, (A.P.) Phone: 8008202337, 9966700414

website: siddarthaedu.in College e-mail ID: siddarthaedu@gmail.com

WOMEN EMPOWERMENT CELL

FEEDBACK FORM

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1	THE COURSE CONTENT DELIVERY	/				
2	TEACHING EFFECTIVENESS		/			
3	UNDERSTANDING THE CONCEPT	V				
4	SYLLABUS COVERAGE	/				
5	OVERALL PERFORMANCE	/				
	COMMENT	Nil				

[WOMEN EMPOWERMENT CELL]



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NEAR C.GOLLAPALLI, TIRUPATI—517505, A.P.

Certificate of Participation

This is to certify that

PUMA MAHESWARI (219L1A0102) of II-B. Tech

Participated in the Add - on course on
"POSH ACT-2013"

Conducted by Women empowerment Cell

From 13/02/2023 to 25/03/2023

COORDINATOR

HEAD OF THE DEPARTMENT BASIC SCIENCES & HUMANITIES PRINCIPAL



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NEAR C.GOLLAPALLI, TIRUPATI-517505, A.P.

Certificate of Participation

This is to certify that

K LIKITHA (229L1A0423) of I-B. Tech

Participated in the Add - on course on "POSH ACT-2013"
Conducted by Women empowerment Cell

From 13/02/2023 to 25/03/2023

COORDINATOR

HEAD OF THE DEPARTMENT BASIC SCIENCES & HUMANITIES PRINCIPAL



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AN ISO 9001: 2015 & ISO 14001: 2015 CERTIFIED INSTITUTION

NEAR C.GOLLAPALLI, TIRUPATI—517505, A.P.

Certificate of Participation

This is to certify that

A. ISWARYA (229L1A3301) of I-B. Tech

Participated in the Add - on course on

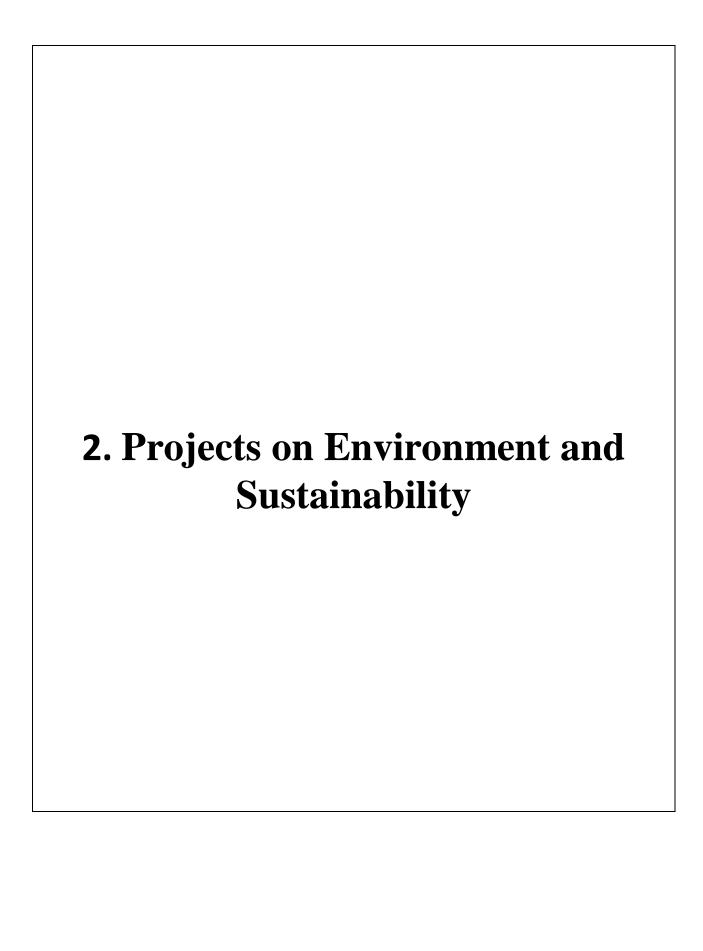
"POSH ACT-2013"

Conducted by Women empowerment Cell

From 13/02/2023 to 25/03/2023

COORDINATOR

HEAD OF THE DEPARTMENT BASIC SCIENCES & HUMANITIES PRINCIPAL





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An ISO 9001: 2015 & ISO 14001 : 2015 certified Institution
Near C. Gollapalli, TIRUPATI - 517 505 Andhra Pradesh

Projects undertaken by Final Year Students relating to Environmental Issues Department of Electronics and Communication Engineering

BATCH NO	ROLL NO	STUDENT NAME	Title of the Project	Name of the Supervisor
	199L1A403	JYOTHIKA		
	209L5A423	BHARGAV	100 AD COM WHITE CO. CO.	
1	199L1A401	PALAKONDAIAH	1OT Based Health	Mrs S.ASIYA
	199L1A438	SOWMYA	Monitoring System	
	199L1A421	MANIKANTA		
	199L1A404	NAVEEN REDDY	Cultivation of Plants	
	199L1A408	VEERA SIVA REDDY	Under Artificial	
2	199L1A426	SUMANTH YADAV	Environmental	Mr K.SIVA PRASAD
	199L1A406	SUMANTH	Parameters to Increase	
	199L1A425	SASI KUMAR	Productivity Rate	
	199L1A432	YAMINI		
	209L5A406	SUSHMITHA	1	
3	199L1A413	VINAY KUMAR	Safety Ensuring System for Passenger Boats	Mr S. DHARANESWAR
	199L1A439	THARUN KUMAR	Tor rassenger boars	DHARANESWAR
	199L1A434	MOHAN REDDY		
	209L5A421	THEJA SRI		
	209L5A415	SUNITHA	Solar Based Fast Tag	3 C T 100 C C C C C C C C C C C C C C C C C C
4	199L1A417	PRAKASH	Charger for Electrical	Mr D.VIJAY KUMAR REDDY
	209L5A436	SNEHA	Vehicles	KEDDI
	209L5A435	LIKITHA		
	209L5A433	BHAVYA		
	199L1A444	SRINIVASULU	Industrial Automation and	***************************************
5	199L1A460	DEEPIKA	Machine Control System	Mrs G. SWETHA
- 1	199L1A456	TARAKARATHNA	Based On Temperature	
	209L5A432	PRABHAKAR		
	199L1A415	SURENDRA	Manhole Monitoring With	
. 1	209L5A417	CHANDI PRIYA	Fault Detection and	Mrs N.PAVITRA
6	209L5A418	M.THEJA	Reporting System For	MISINPAVIIKA
	199L1A437	VAMSI	Municipal Department	

HOD,ECE.

Dept. of ECE Siddartha Educational Academy Group of Institutions TIRUPATI - 517 505 PRINCIPAL PRINCIPAL artha Educational Ac

Siddartha Educational Academy Group of Institutions Near C.GOLLAPALLI, Tirupati (R)-517 Tirupati Dist. (A.P.)

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING SIDDARTHA EDUCATIONAL ACADEMY GROUP OF INSTITUTIONS

Near C. Gollapalli, Tirupati-517505



CERTIFICATE

This is to certify that the project report entitled "IOT BASED HEALTH MONITORING SYSTEM" is a bonafide work carried out by

> O. BHARGAV REDDY - (209L5A0423)

> В. ЈУОТНІКА - (199L1A0403)

> M. SOWMYA - (199L1A0438)

> J. MANIKANTA -(199L1A0421)

> B. PALAKONDAIAH - (199L1A0401)

B. Tech students of Siddartha Educational Academy Group of Institutions, Affiliated to JNTUA,

Ananthapuramu in partial fulfilment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY with the specialization in ELECTRONICS AND COMMUNICATION ENGINEERING during the Academic year 2022-2023.

Project guide

Mrs. SHAIK ASIYA. M. Tech. Assistant Professor, Dept. of ECE, SEAGI, Tirupati - 517505.

- Shaik Asigs

Head of the department

Mr. P, SAI PRASAD, M. Tech, (ph. D) Associate Professor, Dept. of ECE,

SEAGI, Tirupati - 517505.

Viva-voce conducted on _ 5-5-2023

Near C. Gollapalli, Tirupati - 517 505

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



CERTIFICATE

This is to certify that the project report entitled "CULTIVATION OF PLANTS UNDER ARTIFICIAL ENVIRONMENTAL PARAMETERS TO INCREASE PRODUCTIVITY

RATE" is a bonafide work carried out by

B.NAVEEN REDDY

- 1991.1A0404

CAVEERA SIVA REDDY

- 199L 1 \0408

B SUMANTH KUMAR REDDY

- 1991.1.X0486

K SUMANTH VADAV

- 199L1A0426

K SASI KUMAR

- 199L1A0425

B. Tech students of Siddartha Educational Academy Group of Institutions, Affiliated to JNTUA, Anantapuram in partial fulfillment of the requirements for the award of the Degree of BACHELOR OF TECHNOLOGY with the specialization in ELECTRONICS AND COMMUNICATION ENGINEERING during the Academic year 2022-2023.

Mr.SIVA PRASAD MITECH:

Assistant Professor, Department of ECE, SEAGL P. SAI PRASAD, M. Tech, (Ph.d)

Assistant Professor,

Department of ECE, SEAGL

Viva-Voice Conducted on OS/05/2023

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING SIDDARTHA EDUCATIONAL ACADEMY GROUP OF INSTITUTIONS

C. GOLLAPALLI, TIRUPATI - 517505



CERTIFICATE

This is to certify that the project entitled "SAFETY ENSURING SYSTEM FOR PASSENGER BOATS" is a bonafide work carried out by

M.Yamini		199L1A0432
N.Tharun yadav		199L1A0439
G.Vinay		199L1A0413
M.Mohan		199L1A0434
G.Sushmitha	27	209L5A0406

B.Tech, students of SEAGI, Affiliated to JNTUA, Anantapuramu in partial fulfillment of the requirements for the award of the Degree of BACHELOR OF TECHNOLOGY with the specialization in ELECTRONICS & COMMUNICATION ENGINEERING during the Academic year 2019 – 2023.

GUIDE S DLaconswall Mr.S.DHARANESWAR, M.Tech.

Assistant professor,

Department of ECE, SEAGI

HEAD OF THE DEPARTMENT

Mr. P.SAI PRASAD

Associate professor,

Department of ECE, SEAGI

Viva-Voce Conducted on 05/05/23

Pintermal Examine

External Examiner

Near C. Gollapalli, Tirupati - 517 505

DEPARTMENTOFELECTRONICSANDCOMMUNICATIONENGINEERING



CERTIFICATE

This is to certify that the project report entitled "SOLAR BASED FAST TAG CHARGER FOR ELECTRICAL VEHICLE" is a bonafide work carried out by

N.THEJASRI	-209L5A0421
T.LIKHITHA	-209L5A0435
M.SUNITHA	-209L5A0415
T.SNEHA	-209L5A0436
G.PRAKASH	1001 140 (17

B. Tech students of Siddartha Educational Academy Group of Institutions, Affiliated to JNTUA, Anantapuram in partial fulfillment of the requirements for the award of the Degree of BACHELOR OF TECHNOLOGY with the specialization in ELECTRONICS AND COMMUNICATION ENGINEERING during the Academic year 2022-2023.

GUIDE Mr.D.VIJAYA KUMAR REDDY, M.Tech

Assistant Professor Department of ECE, SEAGL Mr.P.SAI PRASAD, M.Tech,(PhD),

Assistant Professor

Department of ECE, SEAGL

Viva-Voice Conducted on 06 05 2023

Near C. Gollapalli, Tirupati - 517 505

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



CERTIFICATE

This is to certify that the project report entitled "INDUSTRIAL AUTOMATION & (MACHINE CONTROL SYSTEM BASED ON TEMPERATURE)" is a bonafide work carried out by

P. SRINIVASULU REDDY -199L1A0444

V.DEEPIKA -199L1A0460

T. BHAVYA -209L5A0433

S. PRABHAKAR -209L5A0432

B.THARAKARATHNA -199L1A0456

B. Tech students of Siddartha Educational Academy Group of Institutions, Affiliated to JNTUA, Anantapuram in partial fulfillment of the requirements for the award of the Degree of BACHELOR OF TECHNOLOGY with the specialization in ELECTRONICS AND COMMUNICATION ENGINEERING during the Academic year 2022-2023.

GUIDETTA

Mrs.G.SWETHA, M.Tech, Assistant Professor,

Department of ECE, SEAGI.

HEAD OF THE DEPARTMENT Mr P.SAI PRASAD, M.Tech.(Pbd)

Assistant Professor,

Department of ECE, SEAGL

Viva-Voice Conducted on 06/05/2023

INTERNAL EXAMINER

EXTERN EXAMINER

Near C. Gollapalli, Tirupati - 517 505

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



CERTIFICATE

This is to certify that the project report entitled "MANHOLE MONITORING WITH FAULT DETECTION & REPORTING SYSTEM FOR MUNICIPAL DEPARTMENT" is a bonafide work carried out by

> - 209L5A0417 M.CHANDHI PRIYA -199L1A0437 M.VAMSIKUMAR RAJU -209L5A0418 M.THEJA - 199L1A0415 G.SURENDRA

B. Tech students of Siddartha Educational Academy Group of Institutions, Affiliated to JNTUA, Anantapuram in partial fulfillment of the requirements for the award of the Degree of BACHELOR OF TECHNOLOGY with the specialization in ELECTRONICS AND COMMUNICATION ENGINEERING during the Academic year 2022-2023.

P.F.N

Mrs. PAVITRA NELAKURTHI, M.E. LLM

Assistant Professor,

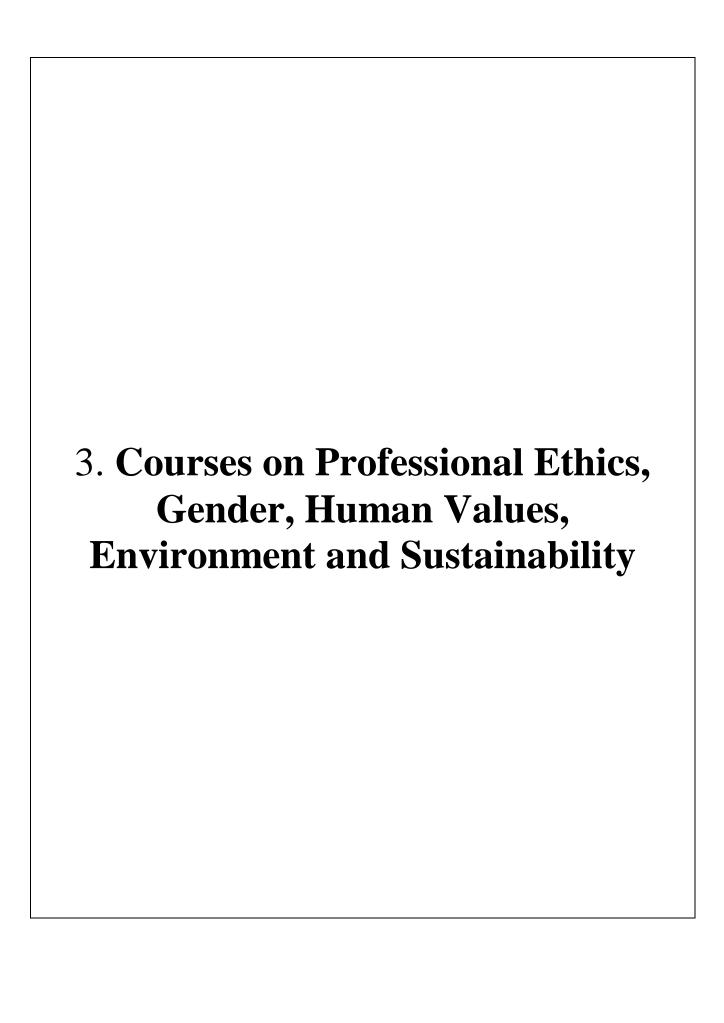
Department of ECE, SEAGI.

P. SAI PRASAD, M.Tech.(PhD)

Assistant Professor,

Department of ECE, SEAGL

Viva-Voce Conducted on 06 05 2023





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1.3.1 Institution Integrates cross cutting issues relevant to professional Ethics, Gender, Human values, Environment and Sustainability (2022-23)

Cross Cutting issue	Regulation	Course code	Name of the Course	Year of study	Academic year
20000	R20	20A52101T	Communicative English	I.I (CIVIL, EEE, ECE)	2022-2023
	R20	20A52101P	Communicative English LAB	I.I (CIVIL, EEE, ECE)	2022-2023
	R20	20A52302	Organizational Behaviour	II-I(CE,EEE,ECE)	2022-2023
II.	R20	20A52201	Universal Human Values	II-I (CE,EEE,ECE,CSE)	2022-2023
Human values and Professional	R19	19A52701A	Organizational Behaviour	IV- I(CE,ME,EEE,ECE, CSE)	2022-2023
Ethics	R20	20A52401	Soft Skills	III-I(EEE)	2022-2023
	R20	20A99601	Intellectual Property Rights &Patents	III- II(CE,EEE,ME,ECE ,CSE)	2022-2023
	R20	20A52302	Organizational Behaviour	II-II(CSE)	2022-2023
	R20	20A52401	Soft skills	II-II(CE,ME,ECE)	2022-2023
	R20	20A52401	Soft skills	III-II(CSE)	2022-2023
	R21	21DAC101a	English for Research paper Writing	M.Tech I-I(ES,CSE)	2022-2023
	R21	21DAC201c	Personality Development through Life Enlightenment Skills	M.Tech I-II(SE)	2022-2023
	R21	21DRM101	Research Methodology & IPR	M.Tech I-I(SE)	2022-2023
	R20	20A99201	Environmental Science	II-I(ME)	2022-2023
	R19	19A01704A	Air pollution &Control	IV- I(ME,EEE,ECE,CS E)	2022-2023
	R20	20A99201	Environmental Science	I-II(EEE,ECE)	2022-2023
Environment and	R20	20A52201	Universal Human Values	I-II(ME,CSE,CSM)	2022-2023
Sustainability	R20	20A01404T	Environmental Engineering-1	II-II(CE)	2022-2023
	R20	20A01404P	Environmental Engineering Lab	II-II(CE)	2022-2023

R20	20A01604c	Environmental Impact Assessment	III-II(CE)	2022-2023
R19	19A01802b	Global Warming &Climate Change	IV- II(EEE,ME,ECE,CS E)	2022-2023
R19	19A01801c	Environmental Impact Assessment	IV-II(CE)	2022-2023

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Tirupati DistriCIPAL

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR B.Tech (ECE)– I Sem L T P C 3 0 0 3

(20A52101T) COMMUNICATIVE ENGLISH

(Common to All Branches of Engineering)

Course Objectives

- Facilitate effective listening skills for better comprehension of academic lectures and English spoken by native speakers
- Focus on appropriate reading strategies for comprehension of various academic texts and authentic materials
- Help improve speaking skills through participation in activities such as role plays, discussions and structured talks/oral presentations
- Impart effective strategies for good writing and demonstrate the same in summarizing, writing well organized essays, record and report useful information
- Provide knowledge of grammatical structures and vocabulary and encourage their appropriate use in speech and writing

UNIT-1

Lesson: On the Conduct of Life: William Hazlitt

Listening: Identifying the topic, the context and specific pieces of information by listening to short audio texts and answering a series of questions. Speaking: Asking and answering general questions on familiar topics such as home, family, work, studies and interests; introducing oneself and others. Reading: Skimming to get the main idea of a text; scanning to look for specific pieces of information. Reading for Writing: Beginnings and endings of paragraphs - introducing the topic, summarizing the main idea and/or providing a transition to the next paragraph. Grammar and Vocabulary: Parts of Speech, Content words and function words; word forms: verbs, nouns, adjectives and adverbs; nouns: countable and uncountable; singular and plural; basic sentence structures; simple question form - wh-questions; word order in sentences.

Learning Outcomes

At the end of the module, the learners will be able to

- Understand social or transactional dialogues spoken by native speakers of English and identify the context, topic, and pieces of specific information
- Ask and answer general questions on familiar topics and introduce oneself/others
- Employ suitable strategies for skimming and scanning to get the general idea of a text and locate specific information
- Recognize paragraph structure and be able to match beginnings/endings/headings with paragraphs
- Form sentences using proper grammatical structures and correct word forms

UNIT -2

Lesson: The Brook: Alfred Tennyson

Listening: Answering a series of questions about main idea and supporting ideas after listening to audio texts. Speaking: Discussion in pairs/small groups on specific topics followed by short structured

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talks. Reading: Identifying sequence of ideas; recognizing verbal techniques that help to link the ideas in a paragraph together. Writing: Paragraph writing (specific topics) using suitable cohesive devices; mechanics of writing - punctuation, capital letters. Grammar and Vocabulary: Cohesive devices - linkers, sign posts and transition signals; use of articles and zero article; prepositions.

Learning Outcomes

At the end of the module, the learners will be able to

- · Comprehend short talks on general topics
- Participate in informal discussions and speak clearly on a specific topic using suitable discourse markers
- Understand the use of cohesive devices for better reading comprehension
- Write well structured paragraphs on specific topics
- Identify basic errors of grammar/ usage and make necessary corrections in short texts

UNIT -3

Lesson: The Death Trap: Saki

Listening: Listening for global comprehension and summarizing what is listened to. Speaking: Discussing specific topics in pairs or small groups and reporting what is discussed Reading: Reading a text in detail by making basic inferences -recognizing and interpreting specific context clues; strategies to use text clues for comprehension. Writing: Summarizing, Paragraph Writing Grammar and Vocabulary: Verbs - tenses; subject-verb agreement; direct and indirect speech, reporting verbs for academic purposes.

Learning Outcomes

At the end of the module, the learners will be able to

- Comprehend short talks and summarize the content with clarity and precision
- Participate in informal discussions and report what is discussed
- · Infer meanings of unfamiliar words using contextual clues
- · Write summaries based on global comprehension of reading/listening texts
- Use correct tense forms, appropriate structures and a range of reporting verbs in speech and writing

UNIT-4

Lesson: Innovation: Muhammad Yunus

Listening: Making predictions while listening to conversations/ transactional dialogues without video; listening with video. Speaking: Role plays for practice of conversational English in academic contexts (formal and informal) - asking for and giving information/directions. Reading: Studying the use of graphic elements in texts to convey information, reveal trends/patterns/relationships, communicate processes or display complicated data. Writing: Letter Writing: Official Letters/Report Writing Grammar and Vocabulary: Quantifying expressions - adjectives and adverbs; comparing and contrasting; Voice - Active & Passive Voice

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Tirupati Dist. (A.P.)

Learning Outcomes

At the end of the module, the learners will be able to

- · Infer and predict about content of spoken discourse
- Understand verbal and non-verbal features of communication and hold formal/informal conversations
- · Interpret graphic elements used in academic texts
- · Produce a coherent paragraph interpreting a figure/graph/chart/table
- Use language appropriate for description and interpretation of graphical elements

UNIT-5

Lesson: Politics and the English Language: George Orwell

Listening: Identifying key terms, understanding concepts and answering a series of relevant questions that test comprehension. Speaking: Formal oral presentations on topics from academic contexts - without the use of PPT slides. Reading: Reading for comprehension. Writing: Writing structured essays on specific topics using suitable claims and evidences. Grammar and Vocabulary: Editing short texts --identifying and correcting common errors in grammar and usage (articles, prepositions, tenses, subject verb agreement)

Learning Outcomes

At the end of the module, the learners will be able to

- · Take notes while listening to a talk/lecture and make use of them to answer questions
- Make formal oral presentations using effective strategies
- Comprehend, discuss and respond to academic texts orally and in writing
- · Produce a well-organized essay with adequate support and detail
- Edit short texts by correcting common errors

Text Book:

1. Language and Life: A Skills Approach- I Edition 2019, Orient Black Swan

Reference Books:

- Bailey, Stephen. Academic writing: A handbook for international students. Routledge, 2014.
- Chase, Becky Tarver. Pathways: Listening, Speaking and Critical Thinking. Heinley ELT; 2nd Edition, 2018.
- 3. Raymond Murphy's English Grammar in Use Fourth Edition (2012) E-book
- Hewings, Martin. Cambridge Academic English (B2). CUP, 2012.
- Oxford Learners Dictionary, 12th Edition, 2011
- Norman Lewis Word Power Made Easy- The Complete Handbook for Building a Superior Vocabulary (2014)
- Speed Reading with the Right Brain: Learn to Read Ideas Instead of Just Words by David Butler

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR B.Tech (ECE)- I Sem L T P C 0 0 3 1.5

(20A52101P) COMMUNICATIVE ENGLISH LAB

(Common to All Branches of Engineering)

Course Objectives

- students will be exposed to a variety of self instructional, learner friendly modes of language learning
- · students will learn better pronunciation through stress, intonation and rhythm
- students will be trained to use language effectively to face interviews, group discussions, public speaking
- students will be initiated into greater use of the computer in resume preparation, report writing, format making etc

List of Topics

- 1. Phonetics
- 2. Reading comprehension
- 3. Describing objects/places/persons
- 4. Role Play or Conversational Practice
- 5. JAM
- 6. Etiquettes of Telephonic Communication
- 7. Information Transfer
- 8. Note Making and Note Taking
- 9. E-mail Writing
- 10. Group Discussions-1
- 11. Resume Writing
- 12. Debates
- 13. Oral Presentations
- 14. Poster Presentation
- 15. Interviews Skills-1

Suggested Software

Orel, Walden Infotech, Young India Films

Reference Books

- Bailey, Stephen. Academic writing: A handbook for international students. Routledge, 2014.
- Chase, Becky Tarver. Pathways: Listening, Speaking and Critical Thinking, Heinley ELT; 2nd Edition, 2018.
- Skillful Level 2 Reading & Writing Student's Book Pack (B1) Macmillan Educational.
- Hewings, Martin. Cambridge Academic English (B2). CUP, 2012.
- 5. A Textbook of English Phonetics for Indian Students by T.Balasubramanyam

Web Links

www.esl-lab.com www.englishmedialab.com www.englishinteractive.net

PRINCIPAL
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Tirupati Dist. (A.P.)

Course Outcomes

After completing the course, the student will be able to

- · Listening and repeating the sounds of English Language
- · Understand the different aspects of the English language
- · proficiency with emphasis on LSRW skills
- Apply communication skills through various language learning activities
- · Analyze the English speech sounds, stress, rhythm, intonation and syllable
- Division for better listening and speaking comprehension.
- Evaluate and exhibit acceptable etiquette essential in social and professional settings
- · Create awareness on mother tongue influence and neutralize it in order to
- Improve fluency in spoken English.

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CIVIL ENGINEERING

Course Code	ORGANISATIONAL	BEHAVIOUR	L	T	P	C
20A52302	(Common to All branches	of Engineering)	3	0	0	3
Pre-requisite	NIL Semester			1	П	11111

Course Objectives:

- To enable student's comprehension of organizational behavior
- To offer knowledge to students on self-motivation, leadership and management
- To facilitate them to become powerful leaders
- To Impart knowledge about group dynamics
- · To make them understand the importance of change and development

Course Outcomes (CO):

- Define the Organizational Behaviour, its nature and scope.
- · Understand the nature and concept of Organizational behaviour
- · Apply theories of motivation to analyse the performance problems
- · Analyse the different theories of leadership
- · Evaluate group dynamics
- · Develop as powerful leader

UNIT - 1 Introduction to Organizational Behavior

Meaning, definition, nature, scope and functions - Organizing Process - Making organizing effective -Understanding Individual Behaviour -Attitude -Perception - Learning - Personality.

UNIT - II Motivation and Leading

Theories of Motivation- Maslow's Hierarchy of Needs - Hertzberg's Two Factor Theory - Vroom's theory of expectancy - Mc Cleland's theory of needs-Mc Gregor's theory X and theory Y- Adam's equity theory - Locke's goal setting theory- Alderfer's ERG theory.

UNIT - III Organizational Culture

Introduction – Meaning, scope, definition, Nature - Organizational Climate - Leadership - Traits Theory–Managerial Grid - Transactional Vs Transformational Leadership - Qualities of good Leader - Conflict Management - Evaluating Leader- Women and Corporate leadership.

UNIT - IV Group Dynamics

Introduction – Meaning, scope, definition, Nature- Types of groups - Determinants of group behavior - Group process – Group Development - Group norms - Group cohesiveness - Small Groups - Group decision making - Team building - Conflict in the organization— Conflict resolution

UNIT - V Organizational Change and Development

Introduction -Nature, Meaning, scope, definition and functions- Organizational Culture - Changing the Culture - Change Management - Work Stress Management - Organizational management -Managerial implications of organization's change and development

Textbooks:

- Luthans, Fred, Organisational Behaviour, McGraw-Hill, 12 Th edition 2011
- P Subba Ran, Organisational Behaviour, Himalya Publishing House 2017

Reference Books:

- McShane, Organizational Behaviour, TMH 2009
- Nelson, Organisational Behaviour, Thomson, 2009.
- Robbins, P. Stephen, Timothy A. Judge, Organisational Behaviour, Pearson 2009.
- Aswathappa, Organisational Behaviour, Himalaya, 2009

Online Learning Resources:

httphttps://www.slideshare.net/Knight1040/organizational-culture-

9608857s://www.slideshare.net/AbhayRajpoot3/motivation-165556714

https://www.slideshare.net/harshrastogi1/group-dynamics-159412405

https://www.slideshare.net/vanyasingla1/organizational-change-development-26565951

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CIVIL ENGINEERING

Course Code	Universal Human Values		L	T	P	C
20A52201	(Common to all	branches)	3	0	0	0
Pre-requisite	NIL Semester			1	II	- 7

Course Objectives:

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

Course Outcomes (CO):

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.

UNIT - I 8 Hrs

Need, Basic Guidelines, Content and Process for Value Education

- Purpose and motivation for the course, recapitulation from Universal Human Values-I
- Self-Exploration—what is it? Its content and process; 'Natural Acceptance' and Experiential Validation- as the process for self-exploration
- Continuous Happiness and Prosperity- A look at basic Human Aspirations
- Right understanding, Relationship and Physical Facility- the basic requirements for fulfilment of aspirations of every human being with their correct priority
- Understanding Happiness and Prosperity correctly- A critical appraisal of the current scenario
- Method to fulfil the above human aspirations: understanding and living in harmony at various levels.

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

UNIT - II

Understanding Harmony in the Human Being - Harmony in Myself!

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

UNIT - III

8 Hrs

8 Hrs

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CIVIL ENGINEERING

Understanding Harmony in the Family and Society-Harmony in Human-Human Relationship

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

UNIT - IV

8 Hrs

Understanding Harmony in the Nature and Existence - Whole existence as Coexistence

· Understanding the harmony in the Nature

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

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.

UNIT - V

10 Hrs

Implications of the above Holistic Understanding of Harmony on Professional Ethics

- Natural acceptance of human values
- · Definitiveness of Ethical Human Conduct
- Basis for Humanistic Education, Humanistic Constitution and Humanistic Universal Order
- Competence in professional ethics: a. Ability to utilize the professional competence for augmenting universal human order b. Ability to identify the scope and characteristics of people friendly and eco-friendly production systems, c. Ability to identify and develop appropriate technologies and management patterns for above production systems.
- Case studies of typical holistic technologies, management models and production systems
- Strategy for transition from the present state to Universal Human Order: a. At the level of
 individual: as socially and ecologically responsible engineers, technologists and managers
 b. At the level of society: as mutually enriching institutions and organizations
- 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.

Textbooks:

- R R Gaur, R Asthana, G P Bagaria, "A Foundation Course in Human Values and Professional Ethics", 2nd Revised Edition, Excel Books, New Delhi, 2019. ISBN 978-93-87034-47-1
- R R Gaur, R Asthana, G P Bagaria, "Teachers' Manual for A Foundation Course in Human Values and Professional Ethics", 2nd Revised Edition, Excel Books, New Delhi, 2019. ISBN 978-93-87034-53-2

Reference Books:

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR B.Tech (CE)- IV-I L T P C

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HUMANITIES ELECTIVE-II

(19A52701a) ORGANISATIONAL BEHAVIOUR

Course Objectives :

The objectives of this course are

- · To make the student understand about the organizational behavior
- · To enable them to develop self motivation, leadership and management
- To facilitate them to become powerful leaders
- Impart knowledge about group dynamics
- · To make them understand the importance of change and development

Syllabus

UNIT-I

Organizational Behavior - Introduction to OB - Meaning and definition, scope - Organizing Process - Making organizing effective - Understanding Individual Behavior - Attitude -Perception - Learning - Personality Types

Learning Outcomes:

After completion of this unit student will

- · Understand the concept of Organizational Behavior
- · Contrast and compare Individual & Group Behavior and attitude
- Analyze Perceptions
- Evaluate personality types

UNIT-II

Motivation and Leading - Theories of Motivation - Maslow's Hierarchy of Needs - Hertzberg's Two Factor Theory - Leading - Leading Vs Managing

Learning Outcomes:

After completion of this unit student will

- · Understand the concept of Motivation
- · Understand the Theories of motivation
- · Explain how employees are motivated according to Maslow's Needs Hierarchy
- Compare and contrast leading and managing

UNIT-III

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Leadership and Organizational Culture and Climate - Leadership - Traits Theory-Managerial Grid - Transactional Vs Transformational Leadership - Qualities of good Leader - Conflict Management - Evaluating Leader - Women and Corporate leadership.

Learning Outcomes:

After completion of this unit student will

- · Know the concept of Leadership
- Contrast and compare Traits theory and Managerial Grid
- Know the difference between Transactional and Transformational Leadership
- · Evaluate the qualities of good leaders
- Emerge as the good leader

UNIT-IV

Group Dynamics - Types of groups - Determinants of group behavior - Group process - Group Development - Group norms - Group cohesiveness - Small Groups - Group decision making - Team building - Conflict in the organization - Conflict resolution

Learning Outcomes:

After completion of this unit student will

- · Know the concept of Group Dynamics
- Contrast and compare Group behavior and group development
- Analyze Group decision making
- · Know how to resolve conflicts in the organization

UNIT - V

Organizational Change and Development - Organizational Culture - Changing the Culture - Change Management - Work Stress Management - Organizational management - Managerial implications of organization's change and development

Learning Outcomes:

- After completion of this unit student will
- Know the importance of organizational change and development
- Apply change management in the organization
- Analyze work stress management
- · Evaluate Managerial implications of organization

Course outcomes:

At the end of the course, students will be able to

Understand the nature and concept of Organizational behavior

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CIVIL ENCINEEDING

Course Code		Soft Skills	L	T	P	C
20A52401	5.00 Sec. 1		1	0	2	2
Pre-requisite	NIL	Semester		IV		
Course Objectives				0.00		
Course Objectives:	e all round devale	pment of the students by	Comming on a	0 -1:11-		
To make the	students aware of	critical thinking and pro	blom-colving	oft SKIIIS		
To develop le	cadership skills ar	nd organizational skills th	rough group a	ctivities		
 To function of 	effectively with he	eterogeneous teams	a caga group a	our mes		
Course Outcomes (The second second				
By the end of the pro	gram students sho	ould be able to				
Memorize va	rious elements of	effective communicative	skills			
		al level through emotion				
 apply critical 	thinking skills in	problem solving	ar intemperies			
		zation for team building				
		cessary decisions as a lea	der			
 Develop soci 	al and work-life s	kills as well as personal a	and emotional	well-beir	ng	
FINITE T				24.404-00.4040		
UNIT - I		Soft Skills & Communic soft skills – definition, si			10 F	irs
expression – articulate (The facilitator can great, anecdotes and Interpersonal Skills-Group leader presend iven topic. Verbal Communication of the communi	ing with felicity uide the participa literary sources) Group Discussion nting views (non- ion- Oral Presents and disagreeing v lication – Public s	nts before the activity ci n – Debate – Team Tasks controversial and secular ations-Extempore-brief a with professional grace, peaking – Mock interview by the lapses on observation	- Book and fil ar) on contem addresses and s	from the m Review porary is	e lives o ws by gr sues or convinc	f the
UNIT – II		Critical Thinkin	ng		10 H	
Active Listening -			Analytica	Thinkin	- 0	
nindedness – Creative Activities: Gathering information ssues –placing the pro	e Thinking n and statistics or oblem – finding the	uriosity - Introspection a topic - sequencing - e root cause - seeking vial	assorting - re	easoning	– critiq	pen
nindedness – Creative Activities: Gathering information ssues –placing the pro-	e Thinking n and statistics or oblem – finding the s of others - Case	uriosity - Introspection	assorting – roble solution – j	easoning	– critiq	pen

Problem Solving & Decision Making Meaning & features of Problem Solving - Managing Conflict - Conflict resolution -

Methods of decision making - Effective decision making in teams - Methods & Styles

Placing a problem which involves conflict of interests, choice and views - formulating the problem - exploring solutions by proper reasoning - Discussion on important professional, career and organizational decisions and initiate debate on the appropriateness of the decision PAL Academy Siddartha Educational Academy Case Study & Group Discussion

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UNIT-	IV	Emotiona	l Intelligence & Stress N	fanagement	10 Hrs
Managin	g Emotions -	- Thinking befo	re Reacting - Empathy f ng Stress - Tips		awareness - Self
gratitude Providing caused b	situations ; sympathy, a g opportunition	nd confidence, or es for the partic ger, jealousy, r	ants to express emotion compassion in the form of cipants to narrate certain esentment and frustration	written or oral pre- crisis and stress	esentations. -ridden situation
	NIT-V		Leadership Ski		10 Hrs
Activitie Forming members - vision past kno Managen NOTE-: 1. The fa great, and the prescu 2. Case s King Lea Textbool 1. P	ing - Team B s: group with a to express vic - accommoda wledge and nent, Motivati cilitator can a ecdotes, epics ribed skill. tudies may be r or for good ss: ersonality De Oxford Unive	consensus amorews on leadershiting nature- elic experience of ion, Decision M guide the particit, scriptures, auto- e given whereve Leadership – M	Accountability – Planning Management Ing the participants- choose podemocratic attitude- serviting views on successes the participants, Publicaking, Group discussion expants before the activity cobiographies and literary services for example for ahendar Singh Dhoni etc. Soft Skills (English, Paper Cdr edition (July 22, 2013) Soft Skills: Preparing for	ing a leader- encouse of sacrifice - so and failures of leader Speaking, Active te. iting examples from ources which bear Decision Making	uraging the group ense of adjustment idership using the tivities on Time om the lives of the reference to g- The decision of the first decision of the first decision of
			ational Publishing House;		
Referenc	e Books:				
2	publication Soft Skills Soft Skills	ns 2018. By Alex K. Pul	elopment for life success blished by S.Chand Approach to Maximise Pe		
5	. Communic SOFT SKI Notion Pre	cation Skills and LLS for a BIG	Soft Skills (Hardcover, A MPACT (English, Papert	ack, RenuShorey) Publisher:
	Education	of India	lish Dr. Rajiv Kumar Jain.	Dr. Usna Jain Pu	olisner: Vayu
Online L	earning Reso		11 AV. AV. 600 B. 4	n incompact in a	10.05
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6. https://youtu.be/FehfE3c2jzc

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR B.Tech (CE)- III-II Sem L T P C 2 0 0 0

(20A99601) INTELLECTUAL PROPERTY RIGHTS AND PATENTS (Mandatory Non-Credit Course)

Course Objectives:

This course introduces the student to the basics of Intellectual Property Rights, Copy Right Laws, Cyber Laws, Trade Marks and Issues related to Patents. The overall idea of the course is to help and encourage the student for startups and innovations

Course Outcomes:

- Understand IPR law & Cyber law
- · Discuss registration process, maintenance and litigations associated with trademarks
- Illustrate the copy right law
- Enumerate the trade secret law.

UNIT I

Introduction to Intellectual Property Law – Evolutionary past – Intellectual Property Law Basics – Types of Intellectual Property – Innovations and Inventions of Trade related Intellectual Property Rights – Agencies Responsible for Intellectual Property Registration – Infringement – Regulatory – Overuse or Misuse of Intellectual Property Rights – Compliance and Liability Issues.

UNIT II

Introduction to Copyrights - Principles of Copyright - Subject Matters of Copyright - Rights Afforded by Copyright Law - Copyright Ownership - Transfer and Duration - Right to Prepare Derivative Works - Rights of Distribution - Rights of performers - Copyright Formalities and Registration - Limitations - Infringement of Copyright - International Copyright Law-Semiconductor Chip Protection Act.

UNIT III

Introduction to Patent Law - Rights and Limitations - Rights under Patent Law - Patent Requirements - Ownership and Transfer - Patent Application Process and Granting of Patent - Patent Infringement and Litigation - International Patent Law - Double Patenting - Patent Searching - Patent Cooperation Treaty - New developments in Patent Law- Invention Developers and Promoters.

UNIT IV

Introduction to Trade Mark - Trade Mark Registration Process - Post registration procedures - Trade Mark maintenance - Transfer of rights - Inter parties Proceedings - Infringement - Dilution of Ownership of Trade Mark - Likelihood of confusion - Trade Mark claims - Trade Marks Litigation - International Trade Mark Law.

UNIT V

Introduction to Trade Secrets – Maintaining Trade Secret – Physical Security – Employee Access Limitation – Employee Confidentiality Agreement – Trade Secret Law – Unfair Competition – Trade Secret Litigation – Breach of Contract – Applying State Law. Introduction to Cyber Law – Information Technology Act – Cyber Crime and E-commerce – Data Security – Confidentiality – Privacy – International aspects of Computer and Online Crime.

Textbooks:

- 1. Deborah E.Bouchoux: "Intellectual Property". Cengage learning, New Delhi
- Kompal Bansal &Parishit Bansal "Fundamentals of IPR for Engineers", BS Publications (Press)
- 3. Cyber Law. Texts & Cases, South-Western's Special Topics Collections

References:

- 1. Prabhuddha Ganguli: 'Intellectual Property Rights' Tata Mc-Graw Hill, New Delhi
- 2. Richard Stim: "Intellectual Property", Cengage Learning, New Delhi.
- 3. R. Radha Krishnan, S. Balasubramanian: "Intellectual Property Rights", Excel Books. New Delhi.
- 4. M. Ashok Kumar and Mohd. Iqbal Ali: "Intellectual Property Right" Serials Pub.

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M.TECH. IN EMBEDDED SYSTEMS

COURSE STRUCTURE & SYLLABI

Course Code	ENGLISH FOR RESEARCH PAPER WRITING	L	T	P	C
21DAC101a	2,750	2	0	0	0
	Semester			1	
Course Objective	es: This course will enable students:				
Understar	nd the essentials of writing skills and their level of readability				
 Learn about 	out what to write in each section				
 Ensure qu 	alitative presentation with linguistic accuracy				
Course Outcome	s (CO): Student will be able to				
 Understar 	nd the significance of writing skills and the level of readability				
 Analyze a 	and write title, abstract, different sections in research paper				
	he skills needed while writing a research paper				
UNIT - I		ectur	e Hrs	:10	
-Avoiding Ambig		-5.55			ncy
UNIT - II		antive	e Hrs	-10	_
	nents of a Research Paper- Abstracts- Building Hypothesis-Re s- Hedging and Criticizing, Paraphrasing and Plagiarism, Cauteri			oble	m -
UNIT - III			e Hrs		
Introducing Revie Conclusions-Reco	ew of the Literature – Methodology - Analysis of the Data-Find emmendations.	ings -	- Dis	cussi	on-
UNIT - IV		Lec	cture	Hrs:	9
Key skills needed	for writing a Title, Abstract, and Introduction		-		
UNIT - V	The state of the s		cture		_
Appropriate langu Conclusions	age to formulate Methodology, incorporate Results, put forth Ar	gume	nts a	nd dr	aw
Suggested Reading	ng				
Model Cu 2. Day R (20 3. Highman Highman'		versi IAM	ty Pr	ess)
	allwork, English for Writing Research Papers, Springer New Yor g London, 2011	K DO	rarec	nt	



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M.TECH. IN STRUCTURAL ENGINEERING COURSE STRUCTURE & SYLLABI

Course Code 21DAC201c	PERSONALITY DEVELOPMENT THROUGH	LIFE	L 2	T 0	P 0	0
ZIDACZ01C	ENLIGHTENMENTSKILLS So	mester	•	1	11,000	U
	Se	mester				
Course Objecti	ves: This course will enable students:					
To learn	to achieve the highest goal happily					
	me a person with stable mind, pleasing personality an	d determ	ination	1		
	en wisdom in students					
	es (CO): Student will be able to		- 49		V-F	
	Shrimad-Bhagwad-Geetawillhelpthestudentindevelop	inghispe	rsonali	tyand ac	hieve	
1 C C C C C C C C C C C C C C C C C C C	est goal in life on who has studied Geetawilllead the nation and man	bind to	10000 0	nd aross	novitu	
The second secon	Neetishatakam will help in developing versatile pers	The second second			penty	
UNIT - I	rectistatakani witi neip iti developing versatire pers	onanty o	1 Stude	ina		
	Holistic development of personality					
	20,21,22(wisdom)					
	31,32(pride &heroism)					
	28,63,65(virtue)					
UNIT - II	4					
	Holistic development of personality					
	3,59(dont's)					
	73,75,78(do's)					
UNIT - III	23.23.2(20.2)					
Approach to da	y to day work and duties.	- 75				
THE RESERVE TO STREET THE PARTY OF THE PARTY	agwadGeeta:Chapter2-Verses41,47,48,					
	erses13,21,27,35,Chapter6-Verses5,13,17,23,35,					
10000000000000000000000000000000000000	Verses45,46,48.					
UNIT - IV						
Statements of b	asic knowledge.					
ShrimadBh	agwadGeeta:Chapter2-Verses 56,62,68					
	Verses13,14,15,16,17,18					
	of Rolemodel, Shrimad Bhagwad Geeta:					
UNIT - V						
Chapter2-V	erses 17, Chapter3-Verses36,37,42,					
Chapter4-V	erses18,38,39					
Chapter18-	Verses37,38,63					
Suggested Read						
Kolkata	vadGita"bySwamiSwarupanandaAdvaitaAshram(Pub		-0	- 23		
	nree Satakam (Niti-sringar-vairagya) by P.Gopinath	, Rashtr	iyaSan	skrit		
Sansthanam,	New Delhi.			2		



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M. TECH, IN STRUCTURAL ENGINEERING

Course Code	RESEARCH METHODOLOGY	AND IPR	L	T	P	C
21DRM101			2	0	0	2
		Semester	I			
		O CONTROL OF THE				
Course Objectives:	annelote accept analysis in their interest	na domaio				
	propriate research problem in their interesti hical issues understand the Preparation of a		esis ren	ort.		
	e Preparation of a research project thesis re		ono rep			
	e law of patent and copyrights.	5.000				
	e Adequate knowledge on IPR					
	O): Student will be able to					
	rch related information					
 Follow resear Understand the 	en etnics nat today's world is controlled by Comput	tor Information To-	ahnala	ne best	tom	orrov
	ruled by ideas, concept, and creativity.	er, miormation rec	cinioloj	gy, out	tom	onov
	g that when IPR would take such important	place in growth of	individ	uals &	nation	i it i
	nphasis the need of information about Intel					
	neral & engineering in particular.					
 Understand ti 	nat IPR protection provides an incentive					
	R & D, which leads to creation of new a	and better products,	and in	turn b	rings :	about
	wth and social benefits.					
UNIT - I		Lecture Hrs:	100	c		
Meaning of research	problem, Sources of research problem,	Criteria Characteri	Stics o	r a go	od res	earci
	lecting a research problem, scope, and ob-					
	utions for research problem, data col	lection, analysis,	interpr	ctation,	Nece	essar
instrumentations UNIT - II		Lecture Hrs:	,			
THE RESIDENCE OF THE PARTY OF T	idies approaches, analysis Plagiarism, Res	CONTRACTOR OF THE PARTY OF THE	ive teel	mical v	writing	how
to write report. Pane	r Developing a Research Proposal, Form	at of research pro	nosal	a prese	entation	n and
assessment by a review		an or research pro-	postar	Press	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
UNIT - III		Lecture Hrs:				
Nature of Intellectual	Property: Patents, Designs, Trade and Copy			and D	evelop	ment
	i, innovation, patenting, development. Inte		Intern	ational	coope	ratio
	 y. Procedure for grants of patents, Patenting 					
UNIT - IV	ATTENDED TO SELECT THE PARTY OF	Lecture Hrs:				
	of Patent Rights. Licensing and transfer of	technology. Patent i	nforma	tion an	d data	bases
Geographical Indication	ons.					
UNIT - V				inn	C D: 1	
			ton	TPR O	I Biole	ogica
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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR B.Tech (ECE)– II Sem L T P C 3 0 0 0

(20A99201) ENVIRONMENTAL SCIENCE

(Common to All Branches of Engineering)

Course Objectives:

- . To make the students to get awareness on environment
- To understand the importance of protecting natural resources, ecosystems for future generations and pollution causes due to the day to day activities of human life
- · To save earth from the inventions by the engineers.

UNIT-I

Multidisciplinary Nature Of Environmental Studies: - Definition, Scope and Importance - Need for Public Awareness.

Natural Resources: Renewable and non-renewable resources – Natural resources and associated problems – Forest resources – Use and over – exploitation, deforestation, case studies – Timber extraction – Mining, dams and 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, case studies – Food resources: World food problems, changes caused by agriculture and overgrazing, effects of modern agriculture, fertilizer-pesticide problems, water logging, salinity, case studies. – Energy resources:

Learning outcomes:

At the end of this unit, the students will be able to

- To know the importance of public awareness
- · To know about the various resources

UNIT-II

Ecosystems: Concept of an ecosystem. – Structure and function of an ecosystem – Producers, consumers and decomposers – Energy flow in the ecosystem – Ecological succession – Food chains, food webs and ecological pyramids – Introduction, types, characteristic features, structure and function of the following ecosystem:

- Forest ecosystem.
- Grassland ecosystem
- c. Desert ecosystem
- Aquatic ecosystems (ponds, streams, lakes, rivers, oceans, estuaries)

Biodiversity And Its Conservation: Introduction 0 Definition: genetic, species and ecosystem diversity – Bio-geographical classification of India – Value of biodiversity: consumptive use, Productive use, social, ethical, aesthetic and option values – Biodiversity at global, National and local levels – India as a mega-diversity nation – Hot-sports of biodiversity – Threats to biodiversity: habitat loss, poaching of wildlife, man-wildlife conflicts – Endangered and endemic species of India – Conservation of biodiversity: In-situ and Ex-situ conservation of biodiversity.

Learning outcomes:

At the end of this unit, the students will be able to

- · To know about various echo systems and their characteristics
- · To know about the biodiversity and its conservation

UNIT - III

Environmental Pollution: Definition, Cause, effects and control measures of:

- a. Air Pollution.
- b. Water pollution
- c. Soil pollution
- d. Marine pollution
- e. Noise pollution
- f. Thermal pollution
- g. Nuclear hazards

Solid Waste Management: Causes, effects and control measures of urban and industrial wastes – Role of an individual in prevention of pollution – Pollution case studies – Disaster management: floods, earthquake, cyclone and landslides.

Learning outcomes:

At the end of this unit, the students will be able to

- · To know about the various sources of pollution.
- · To know about the various sources of solid waste and preventive measures.
- To know about the different types of disasters and their managerial measures.

UNIT - IV

Social Issues and the Environment: From Unsustainable to Sustainable development – Urban problems related to energy – Water conservation, rain water harvesting, watershed management – Resettlement and rehabilitation of people; its problems and concerns. Case studies – Environmental ethics: Issues and possible solutions – Climate change, global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust. Case Studies – Wasteland reclamation. – Consumerism and waste products. – Environment Protection Act. – Air (Prevention and Control of Pollution) Act. – Water (Prevention and control of Pollution) Act. – Water (Prevention and control of Pollution) Act – Issues involved in enforcement of environmental legislation – Public awareness.

Learning outcomes:

At the end of this unit, the students will be able to

- To know about the social issues related to environment and their protection acts.
- To know about the various sources of conservation of natural resources.
- To know about the wild life protection and forest conservation acts.



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UNIT - V

Human Population And The Environment: Population growth, variation among nations.
Population explosion – Family Welfare Programmes. – Environment and human health – Human Rights – Value Education – HIV/AIDS – Women and Child Welfare – Role of information Technology in Environment and human health – Case studies.

Field Work: Visit to a local area to document environmental assets River/forest grassland/hill/mountain - Visit to a local polluted site-Urban/Rural/Industrial/Agricultural Study of common plants, insects, and birds - river, hill slopes, etc..

Learning outcomes:

At the end of this unit, the students will be able to

- · To know about the population explosion and family welfare programmes.
- · To identify the natural assets and related case studies.

TEXT BOOKS:

- Text book of Environmental Studies for Undergraduate Courses Erach Bharucha for University Grants Commission, Universities Press.
- 2. Palaniswamy, "Environmental Studies", Pearson education
- 3. S.Azeem Unnisa, "Environmental Studies" Academic Publishing Company
- K.Raghavan Nambiar, "Text book of Environmental Studies for Undergraduate Courses as per UGC model syllabus", Scitech Publications (India), Pvt. Ltd.

REFERENCES:

- Deeksha Dave and E.Sai Baba Reddy, "Textbook of Environmental Science", Cengage Publications.
- 2. M.Anji Reddy, "Text book of Environmental Sciences and Technology", BS Publication.
- 3. J.P.Sharma, Comprehensive Environmental studies, Laxmi publications.
- J. Glynn Henry and Gary W. Heinke, "Environmental Sciences and Engineering", Prentice hall of India Private limited
- 5. G.R.Chatwal, "A Text Book of Environmental Studies" Himalaya Publishing House
- Gilbert M. Masters and Wendell P. Ela, "Introduction to Environmental Engineering and Science, Prentice hall of India Private limited.

Course Outcomes:

At the end of the course, the student will be able to

- Grasp multidisciplinary nature of environmental studies and various renewable and nonrenewable resources.
- Understand flow and bio-geo- chemical cycles and ecological pyramids.
- Understand various causes of pollution and solid waste management and related preventive measures.
- About the rainwater harvesting, watershed management, ozone layer depletion and waste land reclamation.
- Casus of population explosion, value education and welfare programmes.

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B.Tech (EEE)- IV-I

LTPC

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(19A01704a) AIR POLLUTION AND CONTROL OPEN ELECTIVE-III

Course Objectives:

- · To identify the sources of air pollution
- · To know the composition and structure of atmosphere
- · To know the pollutants dispersion models
- To understand the working of air pollution control equipments
- To identify the sources of noise pollution and their controlling methods

UNIT I

Introduction: sources, effects on - ecosystems, characterization of atmospheric pollutants, air pollution episodes of environmental importance. Indoor Air Pollution- sources, effects.

Learning Outcomes:

After completing this Unit, students will be able to

· To understand the character of atmospheric pollutants and their effects

UNIT II

Meteorology - composition and structure of the atmosphere, wind circulation, solar radiation, lapse rates, atmospheric stability conditions, wind velocity profile, Maximum Mixing Depth (MMD), Temperature Inversions, Wind rose diagram.

Learning Outcomes:

After completing this Unit, students will be able to

- Understand the composition and structure and structure of atmosphere
- To understand the maximum mixing depth and windrose diagram.

UNIT III

General characteristics of stack emissions, plume behaviour, heat island effect. Pollutants dispersion models – description and application of point, line and areal sources. Monitoring of particulate matter and gaseous pollutants –respirable, non-respirable and nano - particulate matter. CO, CO2, Hydrocarbons (HC), SOX and NOX, photochemical oxidants.

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Learning Outcomes:

After completing this Unit, students will be able to

- · To know about the general characteristics of stack emissions and their behavior
- · To understand the monitoring of particulate matter and gaseous pollutants

UNIT IV

Air Pollution Control equipment for particulate matter & gaseous pollutants- gravity settling chambers, centrifugal collectors, wet collectors, fabric filters, electrostatic precipitator (ESP). - Adsorption, Absorption, Scrubbers, Condensation and Combustion.

Learning Outcomes:

After completing this Unit, students will be able to

· To know about the various air pollution control equipments

UNIT V

Noise - sources, measurements, effects and occupational hazards. Standards, Noise mapping, Noise attenuation equations and methods, prediction equations, control measures, Legal aspects of noise.

Learning Outcomes:

After completing this Unit, students will be able to

· To know about the noise sources, mapping, prediction equations etc.,

Course Outcomes:

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

- Identify the sources of air pollution
- Understand the composition and structure and structure of atmosphere.
- Know about the general characteristics of stack emissions and their behavior
- Know about the general characteristics of stake emission and their behavior
- Know about the noise sources, mapping, prediction equations etc.,

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CIVIL ENGINEERING

Course Code	Environmental Engineering - I		L	T	P	C
20A01404T			104T 3	3	0 0	0
Pre-requisite	NIL	Semester	IV			

Course Objectives:

- · To teach requirements of water and its treatment.
- · To impart knowledge on sewage treatment methodologies.
- To provide facts on Air pollution and control.
- To enable with design concepts of wastewater treatment UNITs
- To throw light on importance of plumbing.

Course Outcomes (CO):

At the end of the course, the student will be able to:

- · Understand about quality of water and purification process
- · Select appropriate technique for treatment of wastewater.
- Assess the impact of air pollution
- Understand consequences of solid waste and its management
- Design domestic plumbing systems

UNIT - I Water quality and treatment:

Water quality: Sources of Water and quality issues, water quality requirement for different beneficial uses, Water quality standards, water quality indices, water safety plans, Water Supply systems, Need for planned water supply schemes, Water demand industrial and agricultural water requirements, Components of water supply system; Transmission of water, Distribution system, Various valves used in W/S systems, service reservoirs and design. Water Treatment: aeration, sedimentation, coagulation flocculation, filtration, disinfection, advanced treatments like adsorption, ion exchange, membrane processes

UNIT - II Sewage and Treatment

Domestic and Storm water, Quantity of Sewage, Sewage flow variations. Conveyance of sewage-Sewers, shapes design parameters, operation and maintenance of sewers, Sewage pumping; Sewerage, Sewer appurtenances, Design of sewerage systems. Small bore systems, Storm Water-Quantification and design of Storm water, Sewage and Sullage, Pollution due to improper disposal of sewage, National River cleaning plans, Wastewater treatment – COD & BOD- aerobic and anaerobic treatment systems, suspended and attached growth systems, recycling of sewage – quality requirements for various purposes.

UNIT - III Air Pollution

Composition and properties of air, Quantification of air pollutants, Monitoring of air pollutants, Air pollution- Occupational hazards, Urban air pollution automobile pollution, Chemistry of combustion, Automobile engines, quality of fuel, operating conditions and interrelationship. Air quality standards, Control measures for Air pollution, construction and limitations.

UNIT - IV Solid Waste Management

Municipal solid waste-Composition - chemical and physical parameters - Collection, transport, treatment and disposal, waste from commercial establishments and other urban zonesconstruction activities - biomedical wastes, Effects of solid waste on environment. Disposal of solid waste-Disposal methods- Integrated solid waste management.



CIVIL ENGINEERING

UNIT - V

Domestic Plumbing

Types of home plumbing systems for water supply and waste water disposal, high rise building plumbing-Pressure reducing valves, Break pressure tanks, Storage tanks, Building drainage for high rise buildings, various kinds of fixtures and fittings. Role of Government authorities in water supply, sewerage disposal

Textbooks:

1. G. S. Birdi, "Water supply and sanitary Engineering", Dhanpat Rai & Sons Publishers.

 Peavy, H.S, Rowe, D. R. Tchobanoglous, "Environmental Engineering", Mc-Graw – Hill International Editions, New York 1985.

Reference Books:

 B.C. Punmia, Ashok Jain & Arun Jain, "Water Supply Engineering", Vol. 1, Waste water Engineering, Vol. II, Laxmi Publications Pvt. Ltd, New Delhi.

 MetCalf and Eddy, "Wastewater Engineering", Treatment, Disposal and Reuse, Tata McGraw-Hill, New Delhi.

S. M. Patil, "Plumbing EngineeringTheory, Design and Practice", 1999.

4. K. N. Duggal, "Elements of Environmental Engineering", S. Chand Publishers.

Online Learning Resources:

https://nptel.ac.in/courses/103/107/103107084/

https://ocw.mit.edu/courses/environment-courses/

 https://learningpath.org/articles/Free Online Environmental Engineering Courses from Top Universities.html

https://nptel.ac.in/noc/courses/noc19/SEM2/noc19-ge22/



CIVIL ENGINEERING

Course Code	ENVIRONMENTAL ENGINEERING LAB			T	P	C
20A01404P			0	0	3	1.5
Pre-requisite	NIL	Semester		1	V	

Course Objectives:

The object of the course is to enable the students to identify the characteristics of water sample

Course Outcomes (CO):

At the end of the course, the student will be able to Understand about quality of water standards

List of Experiments:

- 1. Determination of pH and Electrical Conductivity (Salinity) of Water and Soil.
- 2. Determination and estimation of Total Hardness-Calcium & Magnesium.
- 3. Determination of Alkalinity/Acidity
- 4. Determination of Chlorides in water and soil
- Determination and Estimation of total solids, organic solids and inorganic solids and settleable solids by Imhoff Cone.
- 6. Determination of Iron.
- 7. Determination of Dissolved Oxygen with D.O. Meter & Wrinklers Method and B.O.D.
- 8. Determination of N, P, K values in solid waste
- 9. Physical parameters Temperature, Colour, Odour, Turbidity, Taste.
- 10. Determination of C.O.D.
- 11. Determination of Optimum coagulant dose.
- 12. Determination of Chlorine demand.
- 13. Presumptive Coliform test.

References:

1.G. S. Birdi "Water supply and sanitary Engineering", Dhanpat Rai & Sons Publishers.
2.Peavy, H.S, Rowe, D. R. Tchobanoglous, "Environmental Engineering", Mc-Graw –Hill International Editions, New York 1985

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR B.Tech (CE)— III-II Sem L T P C 3 0 0 3

(20A01604c) ENVIRONMENTAL IMPACT ASSESSMENT (Professional Elective Course-II)

Course Objectives:

- To impart knowledge on different concepts of Environmental Impact Assessment.
- To teach procedures of risk assessment.
- To teach the EIA methodologies and the criterion for selection of EIA methods.
- · To teach the procedures for environmental clearances and audit.
- To know the impact quantification of various projects on the environment.

Course Outcomes:

- To prepare EMP, EIS, and EIA report.
- · To identify the risks and impacts of a project.
- · To choose an appropriate EIA methodology.
- To evaluation the EIA report.
- · To Estimate the cost benefit ratio of a project.

UNIT IConcepts and methodologies of EIA

Initial environmental Examination, Elements of EIA, - Factors affecting E-I-A Impact evaluation and analysis, preparation of Environmental Base map, Classification of environmental parameters-Criteria for the selection of EIA Methodology, E I A methods, Ad-hoc methods, matrix methods, Network method Environmental Media Quality Index method, overlay methods and cost/benefit Analysis.

UNIT IIImpact of Developmental Activities and Land Use

Introduction and Methodology for the assessment of soil and ground water, Delineation of study area, Identification of actives. Procurement of relevant soil quality, Impact prediction, Assessment of Impact significance, Identification and Incorporation of mitigation measures. E I A in surface water, Air and Biological environment: Methodology for the assessment of Impacts on surface water environment, Air pollution sources, Generalized approach for assessment of Air pollution Impact.

UNIT IIIAssessment of Impact on Vegetation, Wildlife and Risk Assessment

Introduction - Assessment of Impact of development Activities on Vegetation and wildlife, environmental Impact of Deforestation - Causes and effects of deforestation - Risk assessment and treatment of uncertainty-key stages in performing an Environmental Risk Assessment-Advantages of Environmental Risk Assessment

UNIT IVEnvironmental Audit

Introduction - Environmental Audit & Environmental legislation objectives of Environmental Audit, Types of environmental Audit, Audit protocol, stages of Environmental Audit, onsite activities, evaluation of Audit data and preparation of Audit report.

UNIT VEnvironmental Acts and Notifications

The Environmental protection Act, The water preservation Act, The Air (Prevention & Control of pollution Act), Wild life Act - Provisions in the EIA notification, procedure for environmental clearance, procedure for conducting environmental impact assessment report- Evaluation of EIA report. Environmental legislation objectives, evaluation of Audit data and preparation of Audit report. Post Audit activities, Concept of ISO and ISO 14000.

Textbooks:

- 1. Environmental Impact Assessment, by Canter Larry W., McGraw-Hill education Edi (1996)
- Environmental Impact Assessment Methodologies, by Y. Anjaneyulu, B. S. Publication, Hyderabad 2nd edition 2011

Reference Books:

- Environmental Engineering, by Peavy, H. S., Rowe, D. R., Tchobanoglous, G.Mc-Graw Hill International Editions, New York 1985
- 2. Environmental Science and Engineering, by J. Glynn and Gary W. Hein Ke, Prentice Hall Publishers
- Environmental Science and Engineering, by Suresh K. Dhaneja, S.K., Katania& Sons Publication, ND PRINCIPAL Academy

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B.Tech (EEE)- IV-II

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(19A01802b) GLOBAL WARMING AND CLIMATE CHANGES OPEN ELECTIVE-IV

Course Objectives:

The objective of this course is to:

- · To know the basics, importance of global warming.
- · To know the concepts of mitigation measures against global warming
- · To know the impacts of climate changes

UNIT I

EARTH'S CLIMATE SYSTEM:

Introduction to environment, Ozone, ozone layer and its functions, Ozone depletion and ozone hole, Vienna convention and Montreal protocol, Green house gases and green house effect, Hydrological cycle and Carbon cycle, Global warming and its impacts

Learning Outcomes:

After completing this Unit, students will be able to

- To identity the importance of Ozone and effect of green house gases
- · To know the effect of global warming

UNIT II

ATMOSPHERE & ITS COMPONENTS: Atmosphere and its layers-Characteristics of Atmosphere - Structure of Atmosphere - Composition of Atmosphere - Atmospheric stability - Temperature profile of the atmosphere - Temperature inversion and effects of inversion on pollution dispersion.

Learning Outcomes:

After completing this Unit, students will be able to

To know about the layers of atmosphere and their characteristics

UNIT III

IMPACTS OF CLIMATE CHANGE: Causes of Climate change - Change of Temperature in the environment - Melting of ice and sea level rise - Impacts of Climate Change on various

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sectors - Projected impacts for different regions, uncertainties in the projected impacts and risk of irreversible changes.

Learning Outcomes:

After completing this Unit, students will be able to

To know about the causes of climate change and its effects on various sectors.

UNIT IV

OBSERVED CHANGES AND ITS CAUSES: Climate change and Carbon credits-Clean Development Mechanism (CDM), CDM in India - Kyoto Protocol - Intergovernmental Panel on Climate Change (IPCC) - Climate Sensitivity - Montreal Protocol - United Nations Framework Convention on Climate Change (UNFCCC) - Global change in temperature and climate and changes within India

Learning Outcomes:

After completing this Unit, students will be able to

 To know about the causes of climate change and carbon credits, effect of change in temperature and climate on india.

UNIT V

CLIMATE CHANGE AND MITIGATION MEASURES: CDM and Carbon Trading - Clean Technology, biodiesel, compost, biodegradable plastics - Renewable energy usage as an alternative - Mitigation Technologies and Practices within India and around the world - Non-renewable energy supply to all sectors - Carbon sequestration - International and regional cooperation for waste disposalbiomedical wastes, hazardous wastes, e-wastes, industrial wastes, etc.,

Learning Outcomes:

After completing this Unit, students will be able to

 To know about the clean technology, use of renewable energy, mitigation technologies and their practices.

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(19A01801c1) ENVILRONMENTAL IMPACT ASSESSMENT PROFESSIONAL ELECTIVE-IV

Course Objectives:

- · To impart knowledge on different concepts of Environmental Impact Assessment
- · To teach procedures of risk assessment
- · To teach the EIA methodologies and the criterion for selection of EIA methods
- · To teach the procedures for environmental clearances and audit

UNIT -I:

Concepts and methodologies of EIA

Initial environmental Examination, Elements of EIA, - factors affecting E-I-A Impact evaluation and analysis, preparation of Environmental Base map, Classification of environmental parameters- Criteria for the selection of EIA Methodology, E I A methods, Adhoc methods, matrix methods, Network method Environmental Media Quality Index method, overlay methods and cost/benefit Analysis.

Learning Outcomes:

After completion of this unit student will

- Understand the elements of EIA.
- Explain the criteria for selection of EIA methodology

UNIT - II

Impact of Developmental Activities and Land Use

Introduction and Methodology for the assessment of soil and ground water, Delineation of study area, Identification of actives. Procurement of relevant soil quality, Impact prediction, Assessment of Impact significance, Identification and Incorporation of mitigation measures. E I A in surface water, Air and Biological environment: Methodology for the assessment of Impacts on surface water environment, Air pollution sources, Generalized approach for assessment of Air pollution Impact.

Learning Outcomes:

After completion of this unit student will

- Study the factors causing impact of development activities
- · Decide mitigation measures of pollution on environment

UNIT-III

Assessment of Impact on Vegetation, Wildlife and Risk Assessment principal

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Introduction - Assessment of Impact of development Activities on Vegetation and wildlife, environmental Impact of Deforestation - Causes and effects of deforestation - Risk assessment and treatment of uncertainty-key stages in performing an Environmental Risk Assessmentadvantages of Environmental Risk Assessment

Learning Outcomes:

After completion of this unit student will

- Understand effect of development activities on environment.
- Know the design procedures for assessment of environmental risk

UNIT-IV

Environmental audit:

Introduction - Environmental Audit & Environmental legislation objectives of Environmental Audit, Types of environmental Audit, Audit protocol, stages of Environmental Audit, onsite activities, evaluation of Audit data and preparation of Audit report.

Learning Outcomes:

After completion of this unit student will

- · Learn about the process of environmental auditing.
- Understand procedures for preparation of environmental audit report

UNIT-V

Environmental Acts and Notifications:

The Environmental protection Act, The water preservation Act, The Air (Prevention & Control of pollution Act), Wild life Act - Provisions in the EIA notification, procedure for environmental clearance, procedure for conducting environmental impact assessment report-evaluation of EIA report. Environmental legislation objectives, evaluation of Audit data and preparation of Audit report. Post Audit activities, Concept of ISO and ISO 14000.

Learning Outcomes:

After completion of this unit student will

- Understand the importance of environmental protection acts
- Explain acts and notifications in Environmental legislation

Course Outcomes

At the end of the course, the students will be able to:

- Prepare EMP, EIS, and EIA report.
- Identify the risks and impacts of a project.
- Choose an appropriate EIA methodology.
- Evaluation the EIA report.

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1.3.1 Institution Integrates cross cutting issues relevant to professional Ethics, Gender, Human values, Environment and Sustainability (2021-22)

Cross Cutting issue	Regulation	Course code	Name of the Course	Year of study	Academic year
	R20	20A52101T	Communicative English	I.I (CIVIL, EEE, ECE)	2021-22
	R20	20A52101P	Communicative English LAB	I.I (CIVIL, EEE, ECE)	2021-22
	R20	20A52201	Universal Human Values	I.II (ME, CSE)	2021-22
	R20	20A52101T	Communicative English	I.II (ME,CSE)	2021-22
	R20	20A52101P	Communicative English LAB	I.II (ME,CSE)	2021-22
	R20	20A52201	Universal Human Values	II.I (CIVIL,EEE,ECE)	2021-22
	R19	19A99501	Constitution of India	III-I(CE,ME)	2021-22
Human values and Professional	. R19	19A52506A	Technical communication & Presentation skills	III- I(CE,EEE,ECE,CS E)	2021-22
Ethics	R19	19A52601T	English Language Skills	III-I(EEE,ECE)	2021-22
	R19	19A52601P	English Language Skills Lab	III-I(EEE,ECE)	2021-22
	R20	20A52302	Organizational Behaviour	II-I(EEE,ECE)	2021-22
	R15	15A52601	Management Science	IV-I(ME,CSE)	2021-22
	R20	20A52401	Soft Skills	II-II(CE,ME,ECE)	2021-22
	R19	19A52604A	Soft Skills	III- II(CE,EEE,ME,EC E,CSE)	2021-22
	R19	19A52601T	English Language Skills	III- II(CE,ME,CSE)	2021-22
	R19	19A52602A	Entrepreneurship & Incubation	III- II(CE,EEE,ME,EC E,CSE)	2021-22
	R19	19A99501	Constitution of India	III-II(EEE,ECE)	2021-22
	R20	20A52302	Organizational Behaviour	II-II(ME, CSE)	2021-22
	R19	19A52601P	English Language Skills Lab	II(NE ESE) II(CE MINGSE) Siddartha of Institut	Acade 21-22
	R19	R19A99601	Research Methodology	II(CE Mines Palasidartha Group of Institute Maar C. GOLLIGOE). Tirupati Dist.	ati (2021-22 (A.P.)

	R21	21DAC101 a	English for Research paper Writing	M.Tech I- I(ES,CSE)	2021-22
	R21	21DRM101	Research Methodology & IPR	M.Tech I-I(SE)	2021-22
	R20	20A99201	Environment Science	I.II (CE, EEE,ECE)	2021-22
	R19	19A01505C	Environmental Pollution Control	III-I(CE)	2021-22
	R19	19A01508	Environmental Engineering Lab	III-I(CE)	2021-22
Environment	R19	19A01502	Water Resources Engineering	III-I(CE)	2021-22
and Sustainabilit	R15	15A01703	Environmental Engineering	IV-I(CE)	2021-22
у	R15	15A01712	Environmental Engineering Lab	IV-I(CE)	2021-22
	R15	15A01704	Water Resources Engineering-2	IV-I(CE)	2021-22
	R20	20A99201	Environment Science	II-I(ME,CSE)	2021-22
	R20	20A01404T	Environmental Engineering-1	II-II(CE)	2021-22
	R20	20A01404P	Environmental Engineering Lab	II-II(CE)	2021-22
	R19	19A01603c	Environmental Air Pollution	III-II(CE)	2021-22



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR B.Tech (ECE)- I Sem L T P C

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(20A52101T) COMMUNICATIVE ENGLISH

(Common to All Branches of Engineering)

Course Objectives

- Facilitate effective listening skills for better comprehension of academic lectures and English spoken by native speakers
- Focus on appropriate reading strategies for comprehension of various academic texts and authentic materials
- Help improve speaking skills through participation in activities such as role plays, discussions and structured talks/oral presentations
- Impart effective strategies for good writing and demonstrate the same in summarizing, writing well organized essays, record and report useful information
- Provide knowledge of grammatical structures and vocabulary and encourage their appropriate use in speech and writing

UNIT-1

Lesson: On the Conduct of Life: William Hazlitt

Listening: Identifying the topic, the context and specific pieces of information by listening to short audio texts and answering a series of questions. Speaking: Asking and answering general questions on familiar topics such as home, family, work, studies and interests; introducing oneself and others. Reading: Skimming to get the main idea of a text; scanning to look for specific pieces of information. Reading for Writing: Beginnings and endings of paragraphs - introducing the topic, summarizing the main idea and/or providing a transition to the next paragraph. Grammar and Vocabulary: Parts of Speech, Content words and function words; word forms: verbs, nouns, adjectives and adverbs; nouns: countable and uncountable; singular and plural; basic sentence structures; simple question form - wh-questions; word order in sentences.

Learning Outcomes

At the end of the module, the learners will be able to

- Understand social or transactional dialogues spoken by native speakers of English and identify the context, topic, and pieces of specific information
- · Ask and answer general questions on familiar topics and introduce oneself/others
- Employ suitable strategies for skimming and scanning to get the general idea of a text and locate specific information
- Recognize paragraph structure and be able to match beginnings/endings/headings with paragraphs
- Form sentences using proper grammatical structures and correct word forms

UNIT -2

Lesson: The Brook: Alfred Tennyson

Listening: Answering a series of questions about main idea and supporting ideas after listening to audio texts. Speaking: Discussion in pairs/small groups on specific topics followed by short structured

talks. Reading: Identifying sequence of ideas; recognizing verbal techniques that help to link the ideas in a paragraph together. Writing: Paragraph writing (specific topics) using suitable cohesive devices; mechanics of writing - punctuation, capital letters. Grammar and Vocabulary: Cohesive devices - linkers, sign posts and transition signals; use of articles and zero article; prepositions.

Learning Outcomes

At the end of the module, the learners will be able to

- · Comprehend short talks on general topics
- Participate in informal discussions and speak clearly on a specific topic using suitable discourse markers
- · Understand the use of cohesive devices for better reading comprehension
- · Write well structured paragraphs on specific topics
- · Identify basic errors of grammar/ usage and make necessary corrections in short texts

UNIT -3

Lesson: The Death Trap: Saki

Listening: Listening for global comprehension and summarizing what is listened to. Speaking: Discussing specific topics in pairs or small groups and reporting what is discussed Reading: Reading a text in detail by making basic inferences -recognizing and interpreting specific context clues; strategies to use text clues for comprehension. Writing: Summarizing, Paragraph Writing Grammar and Vocabulary: Verbs - tenses; subject-verb agreement; direct and indirect speech, reporting verbs for academic purposes.

Learning Outcomes

At the end of the module, the learners will be able to

- · Comprehend short talks and summarize the content with clarity and precision
- · Participate in informal discussions and report what is discussed
- Infer meanings of unfamiliar words using contextual clues
- · Write summaries based on global comprehension of reading/listening texts
- Use correct tense forms, appropriate structures and a range of reporting verbs in speech and writing

UNIT-4

Lesson: Innovation: Muhammad Yunus

Listening: Making predictions while listening to conversations/ transactional dialogues without video; listening with video. Speaking: Role plays for practice of conversational English in academic contexts (formal and informal) - asking for and giving information/directions. Reading: Studying the use of graphic elements in texts to convey information, reveal trends/patterns/relationships, communicate processes or display complicated data. Writing: Letter Writing: Official Letters/Report Writing Grammar and Vocabulary: Quantifying expressions - adjectives and adverbs; comparing and contrasting; Voice - Active & Passive Voice

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Learning Outcomes

At the end of the module, the learners will be able to

- · Infer and predict about content of spoken discourse
- Understand verbal and non-verbal features of communication and hold formal/informal conversations
- · Interpret graphic elements used in academic texts
- · Produce a coherent paragraph interpreting a figure/graph/chart/table
- · Use language appropriate for description and interpretation of graphical elements

UNIT-5

Lesson: Politics and the English Language: George Orwell

Listening: Identifying key terms, understanding concepts and answering a series of relevant questions that test comprehension. Speaking: Formal oral presentations on topics from academic contexts - without the use of PPT slides. Reading: Reading for comprehension. Writing: Writing structured essays on specific topics using suitable claims and evidences. Grammar and Vocabulary: Editing short texts --identifying and correcting common errors in grammar and usage (articles, prepositions, tenses, subject verb agreement)

Learning Outcomes

At the end of the module, the learners will be able to

- · Take notes while listening to a talk/lecture and make use of them to answer questions
- · Make formal oral presentations using effective strategies
- · Comprehend, discuss and respond to academic texts orally and in writing
- Produce a well-organized essay with adequate support and detail
- · Edit short texts by correcting common errors

Text Book:

1. Language and Life: A Skills Approach- I Edition 2019, Orient Black Swan

Reference Books:

- 1. Bailey, Stephen. Academic writing: A handbook for international students. Routledge, 2014.
- Chase, Becky Tarver. Pathways: Listening, Speaking and Critical Thinking. Heinley ELT; 2nd Edition, 2018.
- 3. Raymond Murphy's English Grammar in Use Fourth Edition (2012) E-book
- Hewings, Martin. Cambridge Academic English (B2). CUP, 2012.
- Oxford Learners Dictionary, 12th Edition, 2011
- Norman Lewis Word Power Made Easy- The Complete Handbook for Building a Superior Vocabulary (2014)
- Speed Reading with the Right Brain: Learn to Read Ideas Instead of Just Words by David Butler

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR B.Tech (ECE)– I Sem L T P C 0 0 3 1.5

(20A52101P) COMMUNICATIVE ENGLISH LAB

(Common to All Branches of Engineering)

Course Objectives

- students will be exposed to a variety of self instructional, learner friendly modes of language learning
- · students will learn better pronunciation through stress, intonation and rhythm
- students will be trained to use language effectively to face interviews, group discussions, public speaking
- students will be initiated into greater use of the computer in resume preparation, report writing, format making etc

List of Topics

- 1. Phonetics
- 2. Reading comprehension
- 3. Describing objects/places/persons
- 4. Role Play or Conversational Practice
- 5. JAM
- 6. Etiquettes of Telephonic Communication
- 7. Information Transfer
- 8. Note Making and Note Taking
- 9. E-mail Writing
- Group Discussions-1
- 11. Resume Writing
- 12. Debates
- 13. Oral Presentations
- 14. Poster Presentation
- 15. Interviews Skills-1

Suggested Software

Orel, Walden Infotech, Young India Films

Reference Books

- 1. Bailey, Stephen. Academic writing: A handbook for international students. Routledge, 2014.
- Chase, Becky Tarver. Pathways: Listening, Speaking and Critical Thinking. Heinley ELT; 2nd Edition, 2018.
- 3. Skillful Level 2 Reading & Writing Student's Book Pack (B1) Macmillan Educational.
- Hewings, Martin. Cambridge Academic English (B2). CUP, 2012.
- 5. A Textbook of English Phonetics for Indian Students by T.Balasubramanyam

Web Links

www.esl-lab.com www.englishmedialab.com www.englishinteractive.net

Course Outcomes

After completing the course, the student will be able to

- · Listening and repeating the sounds of English Language
- · Understand the different aspects of the English language
- · proficiency with emphasis on LSRW skills
- Apply communication skills through various language learning activities
- · Analyze the English speech sounds, stress, rhythm, intonation and syllable
- · Division for better listening and speaking comprehension.
- Evaluate and exhibit acceptable etiquette essential in social and professional settings
- · Create awareness on mother tongue influence and neutralize it in order to
- · Improve fluency in spoken English.

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR B.Tech (ME) – II Sem L T P C 3 0 0 0

(20A52201) UNIVERSAL HUMAN VALUES (Common to all branches)

Course Objective:

The objective of the course is four fold:

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

COURSE TOPICS:

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

Unit 1:

Course Introduction - Need, Basic Guidelines, Content and Process for Value Education

- Purpose and motivation for the course, recapitulation from Universal Human Values-I
- Self-Exploration—what is it? Its content and process; 'Natural Acceptance' and Experiential Validation- as the process for self-exploration
- · Continuous Happiness and Prosperity- A look at basic Human Aspirations
- Right understanding, Relationship and Physical Facility- the basic requirements for fulfilment of aspirations of every human being with their correct priority
- Understanding Happiness and Prosperity correctly- A critical appraisal of the current scenario
- Method to fulfil the above human aspirations: understanding and living in harmony at various levels.

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

Unit 2:

Understanding Harmony in the Human Being - Harmony in Myself!

Understanding human being as a co-existence of the sentient 'I' and the material 'Body's

Understanding the needs of Self ('1') and 'Body' - happiness and physical facility

. Understanding the Body as an instrument of 'I' (I being the doer, seer and enjoyer) CIPAL

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- · Understanding the characteristics and activities of 'I' and harmony in 'I'
- Understanding the harmony of I with the Body: Sanyam and Health; correct appraisal of Physical needs, meaning of Prosperity in detail
- · 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

Unit 3:

Understanding Harmony in the Family and Society- Harmony in Human-Human Relationship

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

Unit 4:

Understanding Harmony in the Nature and Existence - Whole existence as Coexistence

- · Understanding the harmony in the Nature
- Interconnectedness and mutual fulfilment among the four orders of naturerecyclability and self-regulation in nature
- Understanding Existence as Co-existence of mutually interacting units in all-pervasive space
- Holistic perception of harmony at all levels of existence.

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.

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR

B.Tech (CE)- III-I Sem

LTPC

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(19A99501) MANDATORY COURSE: CONSTITUTION OF INDIA

Course Objectives:

The objective of this course is

- · 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-state relation in financial and administrative control

Syllabus

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.

LearningOutcomes:-

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 and features of Indian constitution
- Learn about Preamble, Fundamental Rights and Duties

UNIT-II

Union Government and its Administration Structure of the Indian Union - Federalism - Centre-State relationship - President's 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

LearningOutcomes:-

After completion of this unit student will

Understand the structure of Indian government

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- · 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-Organization Structure and Functions

Learning Outcomes:-

After completion of this unit student will

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

UNIT-IV

Local Administration - District's Administration Head - Role and Importance - Municipalities Mayor and role of Elected Representatives -CEO of Municipal Corporation Pachayati Raj -Functions- PRI -Zilla Parishath - Elected officials and their roles - CEO, Zilla Parishath -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's role and importance
- Analyze the role of Mayor and elected representatives of Municipalities
- Learn about the role of Zilla Parishath block level organization

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

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR B.Tech (CE) – III-I L T P C

(19A52506a) TECHNICAL COMMUNICATION AND PRESENTATION SKILLS (OPEN ELECTIVE)

Course Objectives:

- To develop awareness in students of the relevance and importance of technical communication and presentation skills.
- · To prepare the students for placements
- To sensitize the students to the appropriate use of non-verbal communication
- To train students to use language appropriately for presentations and interviews
- To enhance the documentation skills of the students with emphasis on formal and informal writing

SYLLABUS

UNIT -1:

Basics of Technical Communication – Introduction – Objectives & Characteristics of Technical Communication – Importance and need for Technical communication - LSRW Skills – Barriers to effective communication

Learning Outcomes:

At the end of the module, the learners will be able to

- Understand the importance of LSRW skills
- · Identify and overcome the barriers to effective communication
- Realize the need and importance of technical communication

UNIT-II

Informal and Formal Conversation - Verbal and Non-verbal communication - Kinesics, Proxemics, Chronemics, Haptics, Paralanguage

LearningOutcomes:

At the end of the module, the learners will be able to

- · State the difference between formal and informal conversation.
- Apply the knowledge of the difference between the verbal and non-verbal communication
- Evaluate the different aspects of non-verbal communication.

UNIT-III

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- 1. Ashrif Rizvi, "Effective Technical Communication", TataMcGrahill, 2011
- Meenakshi Raman & Sangeeta Sharma, "Technical Communication", 3rd Edition, O U Press 2015

REFERENCES:

- 1. Pushpalatha & Sanjay Kumar, "Communication Skills", Oxford Univsesity Press
- Barron's/Books on TOEFL/GRE/GMAT/CAT/IELTS DELTA/Cambridge University Press.2012.
- 3. Butterfield Jeff, "Soft Skills for Everyone", Cengage Publications, 2011.
- Universities Press (India) Pvt Ltd., "Management Shapers Series", Himayatnagar, Hyderabad 2008.
- John Hughes & Andrew Mallett, "Successful Presentations" Oxford.
- 6. Edgar Thorpe and Showick Thorpe, "Winning at Interviews" Pearson
- 7. Munish Bhargava, "Winning Resumes and Successful Interviews", McGraw Hill

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR

B.Tech (CE)- III-II Sem

LTPC

(19A52601T) ENGLISH LANGUAGE SKILLS

Introduction

The course is designed to train students in receptive (listening and reading) as well as productive and interactive (speaking and writing) skills by incorporating a comprehensive, coherent and integrated approach that improves the learners' ability to effectively use English language skills in academic/ workplace contexts. The shift is from learning about the language to using the language. They should be able to express themselves clearly in speech and competently handle the writing tasks and verbal ability component of campus placement tests. Activity based teaching-learning methods would be adopted to ensure that learners would engage in actual use of language both in the classroom and laboratory sessions.

Course Objectives

- Facilitate active listening to enable inferential learning through expert lectures and talks
- Impart critical reading strategies for comprehension of complex texts
- Provide training and opportunities to develop fluency in English through participation in formal group discussions and presentations using audio-visual aids
- Demonstrate good writing skills for effective paraphrasing, argumentative essays and formal correspondence
- Encourage use of a wide range of grammatical structures and vocabulary in speech and writing

UNIT- I

Text:

- 1. Lines Composed a Few Miles above Tintern Abbey William Wordsworth
- 2. The Lotos-Eaters Alfred Tennyson

Listening: Listening to famous speeches for structure and style

Speaking: Oral presentations on general topics of interest.

Reading: Reading for meaning and pleasure - reading between the lines.

Writing: Appreciating and analyzing a poem -Paraphrasing, note-taking.

Grammar and Vocabulary: Tenses (Advanced Level) Correcting errors in punctuation -

Word roots and affixes.

LearningOutcomes

At the end of the module, the learners will be able to

- Understand the purpose of rhythm and rhyme and the use of figures of speech in making the presentation lively and attractive
- Apply the knowledge of structure and style in a presentation, identify the audience and make note of key points
- Make formal structured presentations on general topics using grammatical understanding
- · Prioritize information from reading texts after selecting relevant and useful points
- · Paraphrase short academic texts using suitable strategies and conventions

UNIT-II

Text: The Model Millionaire - Oscar Wilde

Listening: Following the development of theme; answering questions on key concepts after listening to stories online.

Speaking: Narrating personal experiences and opinions.

Reading: Reading for summarizing and paraphrasing; recognizing the difference between facts and opinions.

Writing: Summarizing, précis writing, letter and note-making

Grammar and Vocabulary: Subject-verb agreement, noun-pronoun agreement, collocations.

Learning Outcomes

At the end of the module, the learners will be able to

- · Comprehend academic lectures, take notes and answer questions
- · Make formal structured presentations on academic topics
- Distinguish facts from opinions while reading
- Summarize and make a précis of reports
- · Use correct english avoiding common errors in formal speech and writing

UNIT-III

Text: Speech at IIM Calcutta - AzimPremji

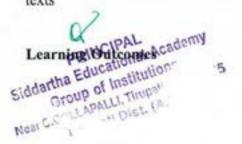
Listening: Identifying views and opinions expressed by different speakers while listening to speeches.

Speaking: Small talks on general topics; agreeing and disagreeing, using claims and examples/ evidences for presenting views, opinions and position.

Reading: Identifying claims, evidences, views, opinions and stance/position.

Writing: Writing structured persuasive/argumentative essays on topics of general interest using suitable claims, examples and evidences.

Grammar and Vocabulary: The use of Active and passive Voice, vocabulary for academic texts



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At the end of the module, the learners will be able to

- · Critically follow and participate in a discussion
- · Participate in group discussions using appropriate conventions and language strategies
- · Comprehend complex texts and identify the author's purpose
- Produce logically coherent argumentative essays
- · Use appropriate vocabulary to express ideas and opinions

UNIT-IV

Text: A Biography of Steve Jobs

Listening: Listening to identify important moments - Understanding inferences; processing of information using specific context clues from the audio.

Speaking: Group discussion; reaching consensus in group work (academic context).

Reading: Reading for inferential comprehension.

Writing: Applying for internship/ job - Writing one's CV/Resume and cover letter.

Grammar and Vocabulary: Phrasal verbs, phrasal prepositions and technical vocabulary.

LearningOutcomes

At the end of the module, the learners will be able to

- · Draw inferences and conclusions using prior knowledge and verbal cues
- Express thoughts and ideas with acceptable accuracy and fluency
- Develop advanced reading skills for deeper understanding of texts
- · Prepare a cv and write a cover letter to seek internship/job
- · Understand the use of technical vocabulary in academic writing

UNIT-V

Text: How I Became a Public Speaker - George Bernard Shaw

Listening: Understanding inferences - processing of explicit information presented in the text and implicit information inferable from the text or from previous/background knowledge.

Speaking: Formal team presentations on academic/general topics.

Reading: Intensive and extensive reading.

Writing: Structure and contents of a Report - Abstract - Project report features.

Grammar and Vocabulary: Correcting common errors, improving vocabulary and avoiding clichés and jargons.

Learning Outcomes:

At the end of the module, the learners will be able to

- Develop advanced listening skills for in-depth understanding of academic texts
- · Collaborate with a partner to make effective presentations
- · Understand and apply the structure of project reports

 Demonstrate ability to use grammatically correct structures and a wide range of vocabulary

Course Outcomes

At the end of the course, the learners will be able to

- Understand the context, topic, and pieces of specific information from social or transactional dialogues spoken by native speakers of English
- · Apply grammatical structures to formulate sentences and correct word forms
- Analyze discourse markers to speak clearly on a specific topic in informal discussions
- Evaluate reading/listening texts and to write summaries based on global comprehension of these texts.
- · Create a coherent paragraph interpreting a figure/graph/chart/table

Prescribed Book

1. Forging Ahead: A Course Book for B.Tech Students. Orient BlackSwan, 2020.

Reference Books

- Bailey, Stephen. "Academic writing: A handbook for international students". Routledge, 2014.
- Chase, Becky Tarver. Pathways: "Listening, Speaking and Critical Thinking" , Heinley ELT; 2nd Edition, 2018.
- Skillful Level 2 Reading & Writing Student's Book Pack (B1) Macmillan Educational.
- Hewings, Martin. "Cambridge Academic English (B2)". CUP, 2012. (Student Book, Teacher Resource Book, CD & DVD)

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Near Cool Landing

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR B.Tech (CE) – III-II Sem L T P C 0 0 3 1.5

(19A52601P) ENGLISH LANGUAGE SKILLS LAB

Course Objectives

- Students will be exposed to a variety of self instructional, learner friendly modes of language learning
- Students will cultivate the habit of reading passages from the computer monitor. Thus
 providing them with the required facility to face computer based competitive exams
 like gre, toefl, and gmat etc.
- · Students will learn better pronunciation through stress, intonation and rhythm
- Students will be trained to use language effectively to face interviews, group discussions, public speaking
- Students will be initiated into greater use of the computer in resume preparation, report writing, format making etc

UNIT -I

- Phonetics for listening comprehension of various accents 2
- 2. Formal Presentations using PPT slides without Graphic Elements
- Paraphrasing

LearningOutcomes

At the end of the module, the learners will be able to

- Understand different accents spoken by native speakers of English
- Make formal structured presentations on general topics using PPT slides without graphical elements
- · Paraphrase short academic texts using suitable strategies and conventions

UNIT-II

- Debate 2 (Following Argument)
- 2. Listening to short speeches/ short stories for note-making and summarizing
- 3. E-mail Writing

Learning Outcomes

At the end of the module, the learners will be able to

- Participate in formal discussions and speak clearly on a specific topic using suitable discourse markers
- Make formal structured presentations on academic topics using ppt slides with relevant graphical elements
- · Write formal emails in the standard format

UNIT -III

- 1. Listening for Discussions
- 2. Group Discussions
- Writing Persuasive/argumentative essays on general topics

Learning Outcomes

At the end of the module, the learners will be able to

- · Follow a discussion to identify the salient points
- Participate in group discussions using appropriate conventions and language strategies
- Produce logically coherent persuasive/argumentative essays

UNIT-IV

- 1. Reviewing film/ book
- 2. Group Discussions reaching consensus in Group Work
- 3. Resume Writing Cover Letter Applying for Internship

Learning Outcomes

At the end of the module, the learners will be able to

- Judge a film or book
- Express thoughts and ideas with acceptable accuracy and fluency with a view to reach consensus in group discussions
- Prepare a cv and write a cover letter to seek internship/job

UNIT-V

- Writing Project Reports
- 2. Editing Short Texts
- 3. Answering FAQs in Interviews

Learning Outcomes

At the end of the module, the learners will be able to

- Collaborate with a partner to make effective presentations
- Understand the structure and produce an effective project report.
- Edit short texts according to different needs of the work place.

Remember and understand the different aspects of the English language

Analyze the English speech sounds, stress, rhythm, intonation and syllable division

Remember and understand the different aspects of the English proficiency with emphasis on LSRW skills

Apply communication skills through various language learning activities

Analyze the English speech sounds, stress, rhythm, intonation and syllable for better listening and speaking comprehension.



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR (Established by Govt. of A.P., ACT No.30 of 2008) ANANTHAPURAMU – 515 002 (A.P) INDIA

CIVIL ENGINEERING

Course Code	ORGANISATIONAL BEHAVIOUR		L	T	P	C
20A52302	(Common to All branches	of Engineering)	3	0	0	3
Pre-requisite	NIL	Semester	1	1	II	

Course Objectives:

- To enable student's comprehension of organizational behavior
- · To offer knowledge to students on self-motivation, leadership and management
- · To facilitate them to become powerful leaders
- To Impart knowledge about group dynamics
- · To make them understand the importance of change and development

Course Outcomes (CO):

- Define the Organizational Behaviour, its nature and scope.
- · Understand the nature and concept of Organizational behaviour
- · Apply theories of motivation to analyse the performance problems
- · Analyse the different theories of leadership
- Evaluate group dynamics
- Develop as powerful leader

UNIT - I Introduction to Organizational Behavior

Meaning, definition, nature, scope and functions - Organizing Process - Making organizing effective -Understanding Individual Behaviour -Attitude -Perception - Learning - Personality.

UNIT - II Motivation and Leading

Theories of Motivation- Maslow's Hierarchy of Needs - Hertzberg's Two Factor Theory - Vroom's theory of expectancy - Mc Cleland's theory of needs-Mc Gregor's theory X and theory Y- Adam's equity theory - Locke's goal setting theory - Alderfer's ERG theory.

UNIT - III Organizational Culture

Introduction – Meaning, scope, definition, Nature - Organizational Climate - Leadership - Traits Theory–Managerial Grid - Transactional Vs Transformational Leadership - Qualities of good Leader - Conflict Management - Evaluating Leader- Women and Corporate leadership.

UNIT - IV Group Dynamics

Introduction – Meaning, scope, definition, Nature- Types of groups - Determinants of group behavior - Group process – Group Development - Group norms - Group cohesiveness - Small Groups - Group decision making - Team building - Conflict in the organization – Conflict resolution

UNIT - V Organizational Change and Development

Introduction -Nature, Meaning, scope, definition and functions- Organizational Culture - Changing the Culture - Change Management - Work Stress Management - Organizational management -Managerial implications of organization's change and development

Textbooks:

- 1. Luthans, Fred, Organisational Behaviour, McGraw-Hill, 12 Th edition 2011
- 2. P Subba Ran, Organisational Behaviour, Himalya Publishing House 2017

Reference Books:

- McShane, Organizational Behaviour, TMH 2009
- Nelson, Organisational Behaviour, Thomson, 2009.
- Robbins, P. Stephen, Timothy A. Judge, Organisational Behaviour, Pearson 2009.
- Aswathappa, Organisational Behaviour, Himalaya, 2009

Online Learning Resources:

httphttps://www.slideshare.net/Knight1040/organizational-culture-

9608857s://www.slideshare.net/AbhayRajpoot3/motivation-165556714

https://www.slideshare.net/harshrastogi1/group-dynamics-159412405

https://www.slideshare.net/vanyasingla1/organizational-change-development-26565951

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR

B. Tech IV-I Sem. (ME)

L T P C

15A52601 MANAGEMENT SCIENCE

Course Objective: The objective of the course is to equip the student the fundamental knowledge of management science and its application for effective management of human resource, materials and operation of an organization. It also aims to expose the students about the latest and contemporary developments in the field of management.

UNIT -I

Introduction to Management: Concept-Nature and Importance of Management, Functions-Evaluation of Scientific Management, Modern management-Motivation Theories-Leadership Styles-Decision MakingProcess-Designing Organization Structure-Principles and Types of Organization.

UNIT- II

Operations Management: Plant location and Layout, Methods of production, Work-Study-Statistical Quality Control through Control Charts, Objectives of Inventory Management, Need for Inventory Control-EOQ&ABC Analysis(Simple Problems)Marketing Management:

Meaning, Nature, Functions of Marketing, Marketing Mix, Channels of distribution-Advertisement and sales promotion-Marketing strategies-Product Life Cycle.

UNIT -III

Human Resource Management(HRM): Significant and Basic functions of HRM-Human Resource Planning(HRP), Job evaluation, Recruitment and Selection, Placement and Induction-Wage and Salary administration. Employee Training and development-Methods-Performance Appraisal-Employee Grievances-techniques of handling Grievances.

UNIT -IV

Strategic Management: Vision, Mission, Goals and Strategy- Corporate Planning Process-Environmental Scanning-SWOT analysis-Different Steps in Strateg Formulation, Implementation and Evaluation. Project Management: Network Analysis-PERT, CPM, Identifying Critical Path-Probability-Project Cost Analysis, Project Crashing (Simple Problems).

UNIT-V

Contemporary Management Practices: Basic concepts of MIS-Materials Requirement Planning(MRP), Just-In-Time(JIT)System, Total Quality Management(TQM)-Six Sigma

Page 59



and Capability Maturity Models(CMM) evies, Supply Chain Management, Enterprise Planning(ERP), Performance Management, Outsourcing(BPO), Business Process Re-Engineering and Bench Marking, Balance Business Score Card.

Learning Outcome: This course enables the student to know the principles and applications of management knowledge and exposure to the latest developments in the field. This helps to take effective and efficient management decisions on physical and human resources of an organization. Beside the knowledge of Management Science facilitates for his/her personal and professional development.

TEXT BOOKS:

- 1. A.R Aryasri: Management Science, TMH, 2013
- 2. Kumar /Rao/Chalill 'Introduction to Management Science' Cengage, Delhi, 2012.

REFERENCE BOOKS:

- A.K.Gupta "Engineering Management", S.CHAND, New Delhi, 2016.
- Stoner, Freeman, Gilbert, Management, Pearson Education, New Delhi, 2012.
- Kotler Philip & Keller Kevin Lane: Marketing Mangement, PHI, 2013.
- 5. Koontz & Weihrich: Essentials of Management, 6/e, TMH, 2005.
- 6. Kanishka Bedi, Production and Operations Management, Oxford University Press,
- Memoria & S.V.Gauker, Personnel Management, Himalaya, 25/e, 2005
- Parnell: Strategic Management, Biztantra, 2003.
- L.S.Srinath: PERT/CPM, Affiliated East-West Press, 2005.

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR B.Tech (CE)- III-II Sem L T P C 3 0 0 3

(19A52604a) SOFT SKILLS (OPEN ELECTIVE-II)

Course Objectives

- · To develop awareness in students of the relevance and importance of soft skills
- To provide students with interactive practice sessions to make them internalize soft skills
- · To develop Time management, Positive thinking & Decision making skills
- · To enable to manage stress effectively
- · To enable them to develop employability skills

SYLLABUS

UNIT-I

INTRODUCTION

Definition - Scope - Importance - Methods of improving soft skills - Limits - Analysis - Interpersonal and intrapersonal skills - Verbal and Non-verbal skills.

Learning Outcomes:

At the end of the module, the learners will be able to

- Understand the importance of soft skills
- · Identify the methods of improving soft skills
- Analyze various soft skills in different situations
- Distinguish various soft skills
- · Apply various soft skills in day to day life and in workplace

UNIT - II INTRAPERSONAL SKILLS

Knowing self/temperaments/traits - Johari windows - quotient skills(IQ, EQ, SQ), creativity, decision-making-Attitude - Confidence Building - Positive Thinking -Time Management - Goal setting.

Learning Outcomes:

At the end of the module, the learners will be able to

- Understandself and its temperament.
- Apply various techniques to know the self.
- · Develop positive thinking
- Develop creative thinking and decision-making skills

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233 Page

Apply self-knowing tools in day to day and professional life.

UNIT-III

INTERPERSONAL SKILLS

Leadership Skills - Negotiation skills - Team-building - Crisis Management - Event Management -Ethics and Etiquettes.

Learning Outcomes:

At the end of the module, the learners will be able to

- Understand the importance of interpersonal skills
- Analyze various tactics in negotiation skills.
- Develop team building spirit.
- Develop crisis management
- Apply interpersonal skills through etiquettes.

UNIT-IV

VERBAL SKILLS

Importance of verbal skills in corporate climate, Listening skills -Mother Tongue Influence (MTI) - Speaking skills - Public speaking - Oral presentations - Writing skills -E-mail etiquettes - Memos - Indianism

Learning Outcomes:

At the end of the module, the learners will be able to

- Understand the importance of verbal skills in corporate climate.
- Explain the need of listening skills.
- Explore MTI and suggest remedies to avoid it.
- Interpret various contexts of speaking.
- Apply verbal skills in personal and professional life.

UNIT - V NON-VERBAL SKILLS

Importance of body language in corporate culture - body language-Facial expressions - eye contact - posture - gestures - Proxemics - Haptics - Dress Code - Paralanguage - Tone, pitch, pause& selection of words

Learning Outcomes:

At the end of the module, the learners will be able to

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PRINCIPAL Expositional Exposition are importance of non-verbal communication.

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HUMANITIES ELECTIVE-I

(19A52602a)ENTREPRENEURSHIP& INCUBATION

COURSE OBJECTIVES :

The objective of this course is

- To make the student understand about Entrepreneurship
- · To enable the student in knowing various sources of generating new ideas in setting up of New enterprise
- To facilitate the student in knowing various sources of finance in starting up of a
- To impart knowledge about various government sources which provide financial assistance to entrepreneurs/ women entrepreneurs
- To encourage the student in creating and designing business plans

Syllabus

UNIT-I

Entrepreneurship - Concept, knowledge and skills requirement - Characteristics of successful entrepreneurs - Entrepreneurship process - Factors impacting emergence of entrepreneurship -Differences between Entrepreneur and Intrapreneur - Understanding individual entrepreneurial mindset and personality - Recent trends in Entrepreneurship.

Learning Outcomes:

At the end if the Unit, the learners will be able to

- Understand the concept of Entrepreneur and Entrepreneurship in India
- Know Entrepreneurship process and emergence of Entrepreneurship
- Analyze the differences between Entrepreneur and Intrapreneur
- Develop a creative mind set and personality
- Understand recent trends in Entrepreneurship across the globe

UNIT-II

Starting the New Venture - Generating business idea - Sources of new ideas & methods of generating ideas - Opportunity recognition - Feasibility study - Market feasibility, PRINCIPAL Academy technical/operational feasibility - Financial feasibility - Drawing business plan - Preparing project report - Presenting business plan to investors. Group of Institutions Near C. GOLLAPALLI, Trupali (R)-517 505

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Learning Outcomes:

At the end if the Unit, the learners will be able to

- Know the process of starting a new venture
- Analyze the sources of new methods in generating business idea
- · Evaluate market feasibility, financial feasibility and technical feasibility
- · Design and draw business plans in project preparation and prepare project reports

UNIT-III

Sources of finance - Various sources of Finance available - Long term sources - Short term sources - Institutional Finance - Commercial Banks, SFC's in India - NBFC's in India - their way of financing in India for small and medium business - Entrepreneurship development programs in India - The entrepreneurial journey- Institutions in aid of entrepreneurship development

Learning Outcomes:

At the end of the Unit, the learners will be able to

- · Know the various sources of finance to start a new venture
- · Contrast & compare between Long term & Short term finance sources
- Analyze the role of banks and other financial institutions in promoting entrepreneurship in India
- · Evaluate the need and importance of MSMEs in the growth of country

UNIT-IV

Women Entrepreneurship - Entrepreneurship Development and Government - Role of Central Government and State Government in promoting women Entrepreneurship - Introduction to various incentives, subsidies and grants - Export- oriented Units - Fiscal and Tax concessions available - Women entrepreneurship - Role and importance - Growth of women entrepreneurship in India - Issues & Challenges - Entrepreneurial motivations.

Learning Outcomes:

At the end of the Unit, the learners will be able to

- Understand the role of government in promoting women entrepreneurship
- Know various incentives, subsidies and grants available to women entrepreneurs
- Analyze the role of export-oriented units
- Know about the tax concessions available for Women entrepreneurs
 - Prepare to face the issues and challenges.

UNITEV

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR B.Tech (CE)– III-II Sem L T P C

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(19A99601) MANDATORY COURSE: RESEARCH METHODOLOGY

COURSE OBJECTIVES:

The objective of this course is

- To understand the basic concepts of research and research problem
- To make the students learn about various types of data collection and sampling design
- · To enable them to know the method of statistical evaluation
- · To make the students understand various testing tools in research
- · To make the student learn how to write a research report
- To create awareness on ethical issues n research

Syllabus UNIT- I

Meaning of Research – Objectives of Research – Types of Research – Research Approaches – Guidelines for Selecting and Defining a Research Problem – Research Design – Concepts related to Research Design – Basic Principles of Experimental Design.

LearningOutcomes:-

After completion of this unit student will

- Understand the concept of research and its process
- Explain various types of research
- Know the steps involved in research design
- · Understand the different research approaches

UNIT -II

Sampling Design – steps in Sampling Design –Characteristics of a Good Sample Design – Random Sampling Design. Measurement and Scaling Techniques-Errors in Measurement – Tests of Sound Measurement – Scaling and Scale Construction Techniques – Time Series Analysis – Interpolation and Extrapolation. Data Collection Methods – Primary Data – Secondary data – Questionnaire Survey and Interviews.

LearningOutcomes:-

After completion of this unit student will

Understand the concept of sampling and sampling design

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- Explain various techniques in measurement and scaling
- Learn various methods of data collection
- Design survey questionnaires for different kinds of research
- Analyze the questionnaires

UNIT- III

Correlation and Regression Analysis - Method of Least Squares - Regression vs Correlation -Correlation vs Determination - Types of Correlations and Their Applications

LearningOutcomes:-

After completion of this unit student will

- Know the association of two variables
- Understand the importance of correlation and regression
- Compare and contrast correlation and regression
- Learn various types of correlation
- Apply the knowledge of C&R Analysis to get the results

UNIT-IV

Statistical Inference: Tests of Hypothesis - Parametric vs Non-parametric Tests - Hypothesis Testing Procedure - Sampling Theory - Sampling Distribution - Chi-square Test - Analysis of variance and Co-variance - Multivariate Analysis

Learning Outcomes:-

After completion of this unit student will

- Know the statistical inference
- Understand the hypothesis testing procedure
- Compare and contrast Parametric and Non-parametric Tests
- Understand the use of chi-square test in investigating the distribution of categorical variables
- Analyze the significance of variance and covariance

UNIT-V

Report Writing and Professional Ethics: Interpretation of Data - Report Writing - Layout of a Research Paper - Techniques of Interpretation- Making Scientific Presentations in Conferences and Seminars - Professional Ethics in Research.

LearningOutcomes:-

Siddatha Group and District Conference of professional ethics in research 262 Page



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M.TECH. IN EMBEDDED SYSTEMS

COURSE STRUCTURE & SYLLABI

Course Code	ENGLISH FOR RESEARCH PAPER WRITING	L	T	P	C
21DAC101a		2	0	0	1
	Semester	-		I	
Course Objective	s: This course will enable students:				
Understan	d the essentials of writing skills and their level of readability				_
 Learn abo 	ut what to write in each section				
 Ensure qu 	alitative presentation with linguistic accuracy				
Course Outcome	s (CO): Student will be able to				
 Understan 	d the significance of writing skills and the level of readability				
	nd write title, abstract, different sections in research paper				
	he skills needed while writing a research paper				
UNIT - I		ectur	e Hrs	:10	
-Avoiding Ambig		2000	2011/0	-COSMI	
UNIT - II		matrix	e Hrs	-10	_
Highlight Finding	nents of a Research Paper- Abstracts- Building Hypothesis-R s- Hedging and Criticizing, Paraphrasing and Plagiarism, Cauteri	zatio	n		
UNIT - III			e Hrs	-	
Introducing Revie Conclusions-Reco	w of the Literature – Methodology - Analysis of the Data-Find mmendations.	ings	- Dis	cussi	on
UNIT - IV		Le	cture	Hrs:	9
Key skills needed	for writing a Title, Abstract, and Introduction				
UNIT - V		_	cture	NAME OF TAXABLE PARTY.	~
Appropriate langu Conclusions	age to formulate Methodology, incorporate Results, put forth Ar	gume	ents a	nd di	aw
Suggested Readir	ng				
1. Goldbort I Model Cu 2. Day R (20 3. Highman	R (2006) Writing for Science, Yale University Press (available or rriculum of Engineering & Technology PG Courses [Volume-I] 006) How to Write and Publish a Scientific Paper, Cambridge Un N (1998), Handbook of Writing for the Mathematical Sciences, S	iversi	ty Pr		()
	allwork, English for Writing Research Papers, Springer New Yo g London, 2011	rk Do	ordree	cht	

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M.TECH. IN STRUCTURAL ENGINEERING

Course Code	RESEARCH METHODOLOGY AND IPR	L	T	P	C
21DRM101		2	0	0	2
	Semester		I		
Course Objectives	•				
	appropriate research problem in their interesting domain.				
 Understand Understand Understand 	ethical issues understand the Preparation of a research project the the Preparation of a research project thesis report the law of patent and copyrights. the Adequate knowledge on IPR	esis rep	ort.		
	(CO): Student will be able to				
 Analyze re 	search related information				
 Follow reso 	earch ethics I that today's world is controlled by Computer, Information Te				
 Understand needless to students in Understand investment 	be ruled by ideas, concept, and creativity. ling that when IPR would take such important place in growth of emphasis the need of information about Intellectual Property Ri general & engineering in particular. I that IPR protection provides an incentive to inventors for f in R & D, which leads to creation of new and better products, growth and social benefits.	ght to burther	e pron	noted a	mong k and
UNIT - I	Lecture Hrs:				
The second section is a second	ch problem, Sources of research problem, Criteria Character		f a ec	od re	search
to write report, Pa	Lecture Hrs: studies approaches, analysis Plagiarism, Research ethics, Effect aper Developing a Research Proposal, Format of research pro	ive tech			
assessment by a rev		777	997		
UNIT - III	Lecture Hrs:		I D		
technological resea	al Property: Patents, Designs, Trade and Copyright. Process of Parch, innovation, patenting, development. International Scenario: perty. Procedure for grants of patents, Patenting under PCT.	Intern	and D ational	coope	ration
UNIT - IV	Lecture Hrs:				
Geographical Indic	oe of Patent Rights. Licensing and transfer of technology. Patent ations.	informa	tion an	d data	bases.
UNIT - V			150	0.00	
	s in IPR: Administration of Patent System. New developments Software etc. Traditional knowledge Case Studies, IPR and IITs.		IPR o	I Biol	ogical
Textbooks:	The state of the s				
1. Stuart ! engineering	Melville and Wayne Goddard, "Research methodology: an in g students" Goddard and Stuart Melville, "Research Methodology: An Introdu		ion fo	r scier	ice &
Reference Books:	foundard and Stuart Mervine, Research Methodology. An infound	cuon			
1. Ranjit	Kumar, 2nd Edition, "Research Methodology: A Step by Step Gu	ide for			
Mayall	t, "Resisting Intellectual Property", Taylor & Design", McGraw Hill, 1992.	07.	5/		
5. Asimo	"Product Design", McGraw Hill, 1974. v, "Introduction to Design", Prentice Hall, 1962. P. Merges, Peter S. Menell, Mark A. Lemley, "Intellectual Propological Age", 2016.	erty in N	RINC	IPAL	Acar
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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR B.Tech (ECE)- II Sem L T P C 3 0 0 0

(20A99201) ENVIRONMENTAL SCIENCE

(Common to All Branches of Engineering)

Course Objectives:

- · To make the students to get awareness on environment
- To understand the importance of protecting natural resources, ecosystems for future generations and pollution causes due to the day to day activities of human life
- · To save earth from the inventions by the engineers.

UNIT-I

Multidisciplinary Nature Of Environmental Studies: – Definition, Scope and Importance – Need for Public Awareness.

Natural Resources: Renewable and non-renewable resources – Natural resources and associated problems – Forest resources – Use and over – exploitation, deforestation, case studies – Timber extraction – Mining, dams and 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, case studies – Food resources: World food problems, changes caused by agriculture and overgrazing, effects of modern agriculture, fertilizer-pesticide problems, water logging, salinity, case studies. – Energy resources:

Learning outcomes:

At the end of this unit, the students will be able to

- · To know the importance of public awareness
- · To know about the various resources

UNIT - II

Ecosystems: Concept of an ecosystem. – Structure and function of an ecosystem – Producers, consumers and decomposers – Energy flow in the ecosystem – Ecological succession – Food chains, food webs and ecological pyramids – Introduction, types, characteristic features, structure and function of the following ecosystem:

- a. Forest ecosystem.
- b. Grassland ecosystem
- Desert ecosystem
- d. Aquatic ecosystems (ponds, streams, lakes, rivers, oceans, estuaries)

Biodiversity And Its Conservation: Introduction 0 Definition: genetic, species and ecosystem diversity – Bio-geographical classification of India – Value of biodiversity: consumptive use, Productive use, social, ethical, aesthetic and option values – Biodiversity at global, National and local levels – India as a mega-diversity nation – Hot-sports of biodiversity – Threats to biodiversity: habitat loss, poaching of wildlife, man-wildlife conflicts – Endangered and endemic species of India – Conservation of biodiversity: In-situ and Ex-situ conservation of biodiversity.

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Learning outcomes:

At the end of this unit, the students will be able to

- To know about various echo systems and their characteristics
- · To know about the biodiversity and its conservation

UNIT - III

Environmental Pollution: Definition, Cause, effects and control measures of:

- a. Air Pollution.
- b. Water pollution
- c. Soil pollution
- d. Marine pollution
- e. Noise pollution
- f. Thermal pollution
- g. Nuclear hazards

Solid Waste Management: Causes, effects and control measures of urban and industrial wastes – Role of an individual in prevention of pollution – Pollution case studies – Disaster management: floods, earthquake, cyclone and landslides.

Learning outcomes:

At the end of this unit, the students will be able to

- · To know about the various sources of pollution.
- To know about the various sources of solid waste and preventive measures.
- To know about the different types of disasters and their managerial measures.

UNIT-IV

Social Issues and the Environment: From Unsustainable to Sustainable development – Urban problems related to energy – Water conservation, rain water harvesting, watershed management – Resettlement and rehabilitation of people; its problems and concerns. Case studies – Environmental ethics: Issues and possible solutions – Climate change, global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust. Case Studies – Wasteland reclamation. – Consumerism and waste products. – Environment Protection Act. – Air (Prevention and Control of Pollution) Act. – Water (Prevention and control of Pollution) Act. – Wildlife Protection Act – Forest Conservation Act – Issues involved in enforcement of environmental legislation – Public awareness.

Learning outcomes:

At the end of this unit, the students will be able to

- To know about the social issues related to environment and their protection acts.
- To know about the various sources of conservation of natural resources.
- · To know about the wild life protection and forest conservation acts.

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Fundamentals of Business Incubation - Principles and good practices of business incubation-Process of business incubation and the business incubator and how they operate and influence the Type/benefits of incubators - Corporate/educational / institutional incubators - Broader business incubation environment - Pre-Incubation and Post - Incubation process - Idea lab, Business plan structure - Value proposition

Learning Outcomes:

At the end of the Unit, the learners will be able to:

- · Understand the importance of business incubation
- Apply brilliant ideas in the process of business incubation
- Analyze the process of business incubation/incubators.
- Contrast & Compare between business incubation and business incubators.
- Design their own business incubation/incubators as viable-business unit.

Course Outcomes:

At the end of the course, students will be able to

- Understand the concept of Entrepreneurship and challenges in the world of competition.
- Apply the Knowledge in generating ideas for New Ventures.
- Analyze various sources of finance and subsidies to entrepreneur/women Entrepreneurs.
- Evaluate the role of central government and state government in promoting Entrepreneurship.
- Create and design business plan structure through incubations.

TEXT BOOKS

- D F Kuratko and T V Rao, "Entrepreneurship" A South-Asian Perspective Cengage Learning, 2012. (For PPT, Case Solutions Faculty may visit : login.cengage.com)
- 2 . Nandan H, "Fundamentals of Entrepreneurship", PHI, 2013

REFERENCES

- Vasant Desai, "Small Scale Industries and Entrepreneurship", Himalaya Publishing 2012.
- Rajeev Roy "Entrepreneurship", 2nd Edition, Oxford, 2012.
- B.Janakiramand M.Rizwanal "Entrepreneurship Development: Text & Cases", Excel Books, 2011.
- Stuart Read, Effectual "Entrepreneurship", Routledge, 2013.

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E-RESOURCES

- 1. Entrepreneurship-Through-the-Lens-of-enture Capital
- 2. http://www.onlinevideolecture.com/?course=mba-programs&subject=entrepreneurship
- 3. http://nptel.ac.in/courses/122106032/Pdf/7_4.pd
- 4. http://freevideolectures.com/Course/3514/Economics-/-Management-/-Entrepreneurhip/50

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(19A01505c) ENVIRONMENTAL POLLUTION AND CONTROL PROFESSIONAL ELECTIVE-I

Course Objectives:

- · Impart knowledge on aspects of air pollution & control and noise pollution
- · Impart concepts of treatment of waste water from industrial source.
- · Differentiate the solid and hazardous waste based on characterization
- · Introduce sanitation methods essential for protection of community health.
- Provide basic knowledge on sustainable development.

UNIT - I:

Air Pollution:

Air pollution Control Methods—Particulate control devices — Methods of Controlling Gaseous Emissions — Air quality standards. Noise Pollution: Noise standards, Measurement and control methods — Reducing residential and industrial noise — ISO:14000.

Learning Outcomes:

At the end of this unit, the student will be able to

- · Understand control mechanism of air pollutants
- Design noise reduction techniques.

UNIT-II:

Industrial waste water Management:

Strategies for pollution control – Volume and Strength reduction – Neutralization – Equalization – Proportioning – Common Effluent Treatment Plants – Recirculation of industrial wastes – Effluent standards.

Learning Outcomes:

At the end of this unit, the student will be able to

- Understand the importance of treatment process of industrial effluents.
- Design treatment plants

UNIT - III:

Solid Waste Management: solid waste characteristics – basics of on-site handling and collection – separation and processing – Incineration- Composting-Solid waste disposal methods – fundamentals of Land filling. Hazardous Waste: Characterization – Nuclear waste – Biomedical wastes – Electronic wastes – Chemical wastes – Treatment and management of hazardous waste-Disposal and Control methods.

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Learning Outcomes:

At the end of this unit, the student will be able to

- Classification of solid waste and separation and procession solid waste
- · Identification of Hazardous wastes
- Plan and execute solid waste and hazardous waste management.

UNIT-IV:

Environmental Sanitation: Environmental Sanitation Methods for Hostels and Hotels, Hospitals, Swimming pools and public bathing places, social gatherings (melas and fares), Schools and Institutions, Rural Sanitation-low cost waste disposal methods.

Learning Outcomes:

At the end of this unit, the student will be able to

- Understand importance of hygienic environment
- Suggest appropriate rural sanitation methods to keep surrounding clean.

UNIT - V:

Sustainable Development: Definition- elements of sustainable developments-Indicators of sustainable development- Sustainability Strategies- Barriers to Sustainability-Industrialization and sustainable development - Cleaner production in achieving sustainability- sustainable development.

Learning Outcomes:

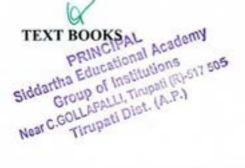
At the end of this unit, the student will be able to

Execute sustainable development strategies.

Course Outcomes:

At the end of the course, the students will be able to:

- Understand the fundamentals of solid waste management, practices adopted in his town/village and its importance in keeping the health of the city.
- Identify the air pollutant control devices and have knowledge on the NAAQ standards and air emission standards.
- Differentiate the treatment techniques used for sewage and industrial wastewater treatment.
- Inventing the methods of environmental sanitation and the management of community facilities without spread of epidemics.
- Appreciate the importance of sustainable development while planning a project or executing an activity.



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UNIT - V

Human Population And The Environment: Population growth, variation among nations.
Population explosion – Family Welfare Programmes. – Environment and human health – Human Rights – Value Education – HIV/AIDS – Women and Child Welfare – Role of information Technology in Environment and human health – Case studies.

Field Work: Visit to a local area to document environmental assets River/forest grassland/hill/mountain — Visit to a local polluted site-Urban/Rural/Industrial/Agricultural Study of common plants, insects, and birds — river, hill slopes, etc..

Learning outcomes:

At the end of this unit, the students will be able to

- · To know about the population explosion and family welfare programmes.
- · To identify the natural assets and related case studies.

TEXT BOOKS:

- Text book of Environmental Studies for Undergraduate Courses Erach Bharucha for University Grants Commission, Universities Press.
- 2. Palaniswamy, "Environmental Studies", Pearson education
- 3. S.Azeem Unnisa, "Environmental Studies" Academic Publishing Company
- K.Raghavan Nambiar, "Text book of Environmental Studies for Undergraduate Courses as per UGC model syllabus", Scitech Publications (India), Pvt. Ltd.

REFERENCES:

- Deeksha Dave and E.Sai Baba Reddy, "Textbook of Environmental Science", Cengage Publications
- 2. M.Anji Reddy, "Text book of Environmental Sciences and Technology", BS Publication.
- 3. J.P.Sharma, Comprehensive Environmental studies, Laxmi publications.
- J. Glynn Henry and Gary W. Heinke, "Environmental Sciences and Engineering", Prentice hall of India Private limited
- 5. G.R.Chatwal, "A Text Book of Environmental Studies" Himalaya Publishing House
- Gilbert M. Masters and Wendell P. Ela, "Introduction to Environmental Engineering and Science, Prentice hall of India Private limited.

Course Outcomes:

At the end of the course, the student will be able to

- Grasp multidisciplinary nature of environmental studies and various renewable and nonrenewable resources.
- Understand flow and bio-geo- chemical cycles and ecological pyramids.
- Understand various causes of pollution and solid waste management and related preventive
- About the rainwater harvesting, watershed management, ozone layer depletion and waste land reclamation.
- · Casus of population explosion, value education and welfare programmes.

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B.Tech (CE)- III-I Sem

LTPC

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(19A01508)ENVIRONMENTAL ENGINEERING LAB

OBJECTIVE: The object of the course is to enable the students to identify the characteristics of water sample.

LABORATORY EXPERIMENTS

- 1. Determination of pH and Electrical Conductivity (Salinity) of Water and Soil.
- Determination and estimation of Total Hardness-Calcium & Magnesium.
- 3.Determination of Alkalinity/Acidity
- 4. Determination of Chlorides in water and soil
- Determination and Estimation of total solids, organic solids and inorganic solids and settleable solids by Imhoff Cone.
- 6.Determination of Iron.
- 7.Determination of Dissolved Oxygen with D.O. Meter & Wrinklers Method and B.O.D.
- 8. Determination of N, P, K values in solid waste
- 9. Physical parameters Temperature, Colour, Odour, Turbidity, Taste.
- 10.Determination of C.O.D.
- 11.Determination of Optimum coagulant dose.
- 12.Determination of Chlorine demand.
- 13.Presumptive Coliform test.

Course Outcomes:

At the end of the course, the student will be able to:

- Understand about quality of water and purification process
- Select appropriate technique for treatment of waste water.
- Assess the impact of air pollution
- Understand consequences of solid waste and its management.
- Design domestic plumbing systems.

TEXT BOOKS:

1.G. S. Birdi "Water supply and sanitary Engineering", Dhanpat Rai & Sons Publishers.

 Peavy, H.S, Rowe, D. R. Tchobanoglous, "Environmental Engineering", Mc-Graw –Hill International Editions, New York 1985.

REFERENCES:

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B.Tech (CE)- III-I Sem

LTPC

3003

(19A01502) WATER RESOURCE ENGINEERING

Course Objectives:

- To Illustrate hydrologic cycle and its relevance to Civil engineering
- · Toteach students understand physical processes in hydrology & components of the
- · hydrologic cycle
- · Todemonstrate concepts and theory of physical processes and interactions
- Toimpart on measurement and estimation of the components hydrologic cycle.
- To provide an overview and understanding of Unit Hydrograph theory, flood frequency and its analysis

UNIT -I:

Introduction:

Engineering hydrology and its applications, Hydrologic cycle, hydrological data-sources of data. **Precipitation**:Types and forms, measurement, rain gauge network, presentation of rainfall data, average rainfall, continuity and consistency of rainfall data, frequency of rainfall, Intensity-Duration-Frequency (IDF) curves, Depth-Area-Duration (DAD) curves, Probable Maximum Precipitation (PMP), design storm

Learning Outcomes:

At the end of this unit, the student will be able to

- Understand basics of engineering hydrology and its applications.
- Demonstrate measurement techniques of precipitation.
- · Learn curves related to frequency of rainfall..

UNIT-II:

Abstractions from Precipitation:

Initial abstractions. Evaporation: factors affecting, measurement, reduction Evapotranspiration: factors affecting, measurement, control - Infiltration: factors affecting, Infiltration capacity curve, measurement, infiltration indices.

Learning Outcomes:

At the end of this unit, the student will be able to

- Attain knowledge on factors influencing evaporation.
- Analyze factors influencing infiltration.

UNIT-III:

Runoff and Hydrograph analysis:

Catchment characteristics, Factors affecting runoff, components, computation- empirical formulae, tables and curves, stream gauging, rating curve, flow mass curve and flow duration curve. Components of hydrograph, separation of base flow, effective rainfall hyetograph and direct runoff hydrograph, unit hydrograph, assumptions, derivation of unit hydrograph, unit

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hydrographs of different durations, principle of superposition and S-hydrograph methods, limitations and applications of unit hydrograph, synthetic unit hydrograph - Floods: Causes and effects.

Learning Outcomes:

At the end of this unit, the student will be able to

- Determine runoff characteristics and factors influencing runoff.
- Examine components of hydro graph.
- Develop knowledge on floods and its effects.

UNIT-IV:

Groundwater: Occurrence, types of aquifers, aquifer parameters, porosity, specific yield, permeability, transmissivity and storage coefficient, types of wells, Darcy's law, Dupuit's equation- steady radial flow to wells in confined and unconfined aquifers, yield of a open wellrecuperation test.

Learning Outcomes:

At the end of this unit, the student will be able to

- Understand basics about ground water.
- Learn and implement Darcy's law and Dupuit's equation.

UNIT-V:

IRRIGATION:

Introduction-necessity and impotence of irrigation-advantages and ill-effects of irrigation; types of irrigation; methods of application of water; quality for irrigation water; duty and delta; duty at various places; relation between duty and delta; factors affecting duty; methods of improving duty; soil-water-plant relationship; limiting soil moisture conditions, depth and frequency of irrigation.

LIST OF DRAWINGS:

Draw the following irrigation structures.

- 1. Sloping glacis weir
- 2. Surplus weir.
- 3. Tank sluice with tower head
- 4. Type III Syphon aqueduct.
- 5. Canal regulator.

Course Outcomes

At the end of the course the students are able to

- Understand of the theories and principles governing the hydrologic processes.
 Identify major hydrologic components and apply key concepts to several practical areas of engineering hydrology and related design aspects.
 Develop Intensity-Duration-Frequency and Depth-Area Duration curves to design

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B. Tech IV-I Sem. (C.E)

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15A01703 **ENVIRONMENTAL ENGINEERING**

Course Objective: This subject provides the knowledge of water sources, water treatment, design of distribution system, waste water treatment, and safe disposal methods. The topics of characteristics of waste water, sludge digestion are also included.

UNIT-I

INTRODUCTION: Importance and Necessity of Protected Water Supply systems, Objectives of Protected water supply system, Flow chart of public water supply system, Role of Environmental Engineer.

WATER DEMAND AND QUANTITY STUDIES: Estimation of water demand for a town or city, Types of water demands, Per capita Demand, Factors affecting the Per Capita Demand, Variations in the Demand, Design Period, Factors affecting the Design period, Population Studies, Population Forecasting Studies.

QUALITY AND ANALYSIS OF WATER: Characteristics of water - Physical, Chemical and Biological. Analysis of Water - Physical, Chemical and Biological. Impurities in water, Water borne diseases. Drinking water quality standards.

UNIT - II

WATER TREATMENT: Layout and general outline of water treatment units sedimentation - principles - design factors - coagulation-flocculation clarifier design coagulants - feeding arrangements. Filtration and Chlorination: Filtration - theory working of slow and rapid gravity filters - multimedia filters - design of filters - troubles in operation comparison of filters - disinfection - theory of chlorination, chlorine demand, other disinfection practices- Miscellaneous treatment methods

WATER DISTRIBUTION: Distribution systems - Requirements, Layout of Water distribution systems - Design procedures- Hardy Cross and equivalent pipe methods service reservoirs - joints, valves such as sluice valves, air valves, scour valves and check valves water meters - laying and testing of pipe lines - pump house, waste detection and prevention.

UNIT - III

INTRODUCTION TO SANITATION :systems of sanitation - relative merits & demerits collection and conveyance of waste water – sewerage – classification of sewerage

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systems- Estimation of sewage flow and storm water drainage – fluctuations – types of sewers – Hydraulics of sewers and storm drains– design of sewers – materials for sewers- appurtenances in sewerage – cleaning and ventilation of sewers.

WASTE WATER COLLECTION AND CHARACTERSTICS: Conservancy and water carriage systems – sewage and storm water estimation – time of concentration – storm water overflows combined flow – characteristics of sewage – cycles of decay – decomposition of sewage, examination of sewage – B.O.D. – C.O.D. equations.

UNIT IV

WASTE WATER TREATMENT: Layout and general out line of various units in a waste water treatment plant – primary treatment: design of screens – grit chambers – skimming tanks – sedimentation tanks – principles of design – biological treatment – trickling filters – standard and high rate – Construction and design of Oxidation ponds.

SLUDGE TREATMENT: Sludge digestion – factors effecting – design of Digestion tank – Sludge disposal by drying – septic tanks and Imhoff Tanks, working principles and design – soak pits.

UNIT - V

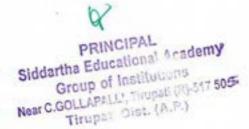
SOLID WATE MANAGEMENT: Characteristics, generation, collection and transportation of solid wastes, engineered systems for solid waste management (reuse/recycle, energy recovery, treatment and disposal).

AIR POLLUTION: Types of pollutants, their sources and impacts, air pollution meteorology, air pollution control, air quality standards and limits.

NOISE POLLUTION: Impacts of noise, permissible limits of noise pollution, measurement of noise and control of noise pollution.

TEXT BOOKS:

- Water Supply And Sanitary Engineering By G.S. Birdi, Dhanpat Rai & Sons Publishers.
- Water Supply Engineering, Vol. 1, Waste Water Engineering, Vol. II, B.C.Punmia, Ashok Jain & Arun Jain, Laxmi Publications Pvt.Ltd, New Delhi
- 3. Environmental Engineering By Peavy, TMH Publishers.



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15A01712 ENVIRONMENTAL ENGINEERING LABORATORY

Course Objective:

The laboratory provides knowledge of estimating various parameters like PH, Chlorides, Sulphates, Nitrates in water. For effective water treatment, the determination of optimum dosage of coagulant and chloride demand are also included. The estimation status of Industrial effluents will also be taught in the laboratory by estimating BOD and COD of effluent.

LIST OF EXPERIMENTS

- 1. Determination of pH and Turbidity
- 2. Determination of Conductivity and Total dissolved solids.
- 3. Determination of Alkalinity/Acidity.
- 4. Determination of Chlorides.
- Determination and Estimation of total solids, organic solids and inorganic solids.
- Determination of iron.
- 7. Determination of Dissolved Oxygen.
- 8. Determination of Nitrogen.
- 9. Determination of total Phosphorous.
- 10. Determination of B.O.D
- 11. Determination of C.O.D
- 12. Determination of Optimum coagulant dose.
- 13. Determination of Chlorine demand.
- Presumptive coliform test.

NOTE: At least 8 of the above experiments are to be conducted.

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15A01704 WATER RESOURCES ENGINEERING-II

Course Objective: This subject aims to impart the knowledge of various head works, canal structures and their design principles to the students. The subject also covers the river structures, their classifications, designs, etc.

UNIT - 1

CANAL REGULATION WORKS: Canal falls: Necessity and location of falls; Types of falls; classification of falls; cistern design; roughening devices; design of sarda type fall. Canal regulators: off-take alignment; head regulators and cross-regulators; design of cross-regulator and distributary head regulator.

CROSS DRAINAGE WORKS: Introduction; types of cross drainage works; selection of suitable type of cross drainage work; classification of aqueducts and siphon aqueducts.

UNIT-II

STREAM GAUGING: Necessity; Selection of gauging sites; methods of Discharge Measurement: Area-Velocity method; Slope-Area method; Tracer method, Electromagnetic induction method; Ultrasonic method; Measurement of depth -Sounding rod, Echo-sounder; Measurement of velocity: Floats - Surface floats, Subsurface float or Double float, Velocity rod; Pitot tube; Current meter- rating of current meter, measurement of velocity; chemical method; Measurementof stage-Staff gauge, wire gauge, water stage recorder, bubble gauge recorder; stage-dischargecurve.

RIVER ENGINEERING: Classification of rivers; Meandering; Causes of meandering; Basic factors controlling process of meandering; Aggrading type of river; Degrading type of River; River training: objectives, Classification of river training works; Types of River training works: Guide banks, Marginal embankments, Groynes or spur, levees, bank protection, pitched islands.

UNIT-III

RESERVOIR PLANNING: Introduction; Investigations for reservoir planning; Selection of site for a reservoir; Zones of storage in a reservoir; Storage capacity and yield; Mass inflow curve and demand curve; Calculation of reservoir capacity for a specified yield from the mass inflow curve; Determination of safe yield from a reservoir of a given capacity: Sediment flow in streams: Reservoir sedimentation; Life of reservoir; Reservoir sediment control; Flood routing; Methods of flood routing-Graphical Method (Inflow - storage discharge curves method).

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DAMS :GENERAL: Introduction; Classification according to use; classification according to material- Gravity dams, Arch dams, Buttress dams, Steel dams, Timber dams, Earth dams and rock fill dams-advantages and disadvantages; Physical factors governing selection of type of dam; selection of site for a dam.

UNIT-IV

GRAVITY DAMS: Introduction; Forces acting on a gravity dam; Combination of loading for design; Modes of failure: stability requirements; principal and shear stresses; Stability analysis; Elementary profile of a gravity dam; Practical profile of a gravity dam; Limiting height of a gravity dam- High and low gravity dams; Design of gravity dams-single step method; Galleries; Stability analysis of non-overflow section of Gravity dam.

EARTH DAMS: Introduction; Types of earth dams; Causes of failure of earth dams; Criteria for safe design of earth dams; Section of an earth dam; Design to suit available materials; Seepage control measures; Slope protection. Seepage through earth dam – graphical method

UNIT-V

SPILLWAYS: Introduction; Types of spillways; Profile of ogee spillway; Energy dissipation below spillways for relative positions of jump height curve and tail water curve; Stilling basins; Indian standards on criteria for design of hydraulic jump type stilling basins with horizontal aprons; Spillway crest gates-Types and description only.

WATER POWER ENGINEERING: Development of hydro power in India; Classification of hydel plants: runoff river plants, storage plants and pumped storage plants; low, medium and high head schemes; Investigation and planning; components of hydel schemes – fore bay, intake structure, surge tanks, penstocks ,power house, turbines-selection of suitable type of turbine, Scroll casing .draft tube and tail race; assessment of available power; definition of gross head, operating head ,effective head; Flow duration curve; Power duration curve; Load duration curve; Load curve; primary power and secondary power; installed capacity, dependable capacity; firm power, secondary power; power factor; load factor, capacity factor, utilization factor and Diversity factor.

TEXT BOOKS:

 Irrigation and Water Power Engineering by Dr. B.C.Punmia & Dr. Pande B.B. Lal; Laxmi Publications pvt. Ltd., New Delhi.

Irrigation Engineering and Hydraulic Structure by S. K. Garg; Khanna Publishers, Delhi.

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR B.Tech (ECE)- II Sem L T P C 3 0 0 0

(20A99201) ENVIRONMENTAL SCIENCE

(Common to All Branches of Engineering)

Course Objectives:

- · To make the students to get awareness on environment
- To understand the importance of protecting natural resources, ecosystems for future generations and pollution causes due to the day to day activities of human life
- · To save earth from the inventions by the engineers.

UNIT-I

Multidisciplinary Nature Of Environmental Studies: - Definition, Scope and Importance - Need for Public Awareness.

Natural Resources: Renewable and non-renewable resources – Natural resources and associated problems – Forest resources – Use and over – exploitation, deforestation, case studies – Timber extraction – Mining, dams and 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, case studies – Food resources: World food problems, changes caused by agriculture and overgrazing, effects of modern agriculture, fertilizer-pesticide problems, water logging, salinity, case studies. – Energy resources:

Learning outcomes:

At the end of this unit, the students will be able to

- · To know the importance of public awareness
- · To know about the various resources

UNIT - II

Ecosystems: Concept of an ecosystem. – Structure and function of an ecosystem – Producers, consumers and decomposers – Energy flow in the ecosystem – Ecological succession – Food chains, food webs and ecological pyramids – Introduction, types, characteristic features, structure and function of the following ecosystem:

- a. Forest ecosystem.
- b. Grassland ecosystem
- c. Desert ecosystem
- Aquatic ecosystems (ponds, streams, lakes, rivers, oceans, estuaries)

Biodiversity And Its Conservation: Introduction 0 Definition: genetic, species and ecosystem diversity – Bio-geographical classification of India – Value of biodiversity: consumptive use, Productive use, social, ethical, aesthetic and option values – Biodiversity at global, National and local levels – India as a mega-diversity nation – Hot-sports of biodiversity – Threats to biodiversity: habitat loss, poaching of wildlife, man-wildlife conflicts – Endangered and endemic species of India – Conservation of biodiversity: In-situ and Ex-situ conservation of biodiversity.

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Learning outcomes:

At the end of this unit, the students will be able to

- To know about various echo systems and their characteristics
- To know about the biodiversity and its conservation

UNIT - III

Environmental Pollution: Definition, Cause, effects and control measures of:

- a. Air Pollution.
- b. Water pollution
- c. Soil pollution
- Marine pollution
- e. Noise pollution
- f. Thermal pollution
- Nuclear hazards

Solid Waste Management: Causes, effects and control measures of urban and industrial wastes – Role of an individual in prevention of pollution – Pollution case studies – Disaster management: floods, earthquake, cyclone and landslides.

Learning outcomes:

At the end of this unit, the students will be able to

- · To know about the various sources of pollution.
- · To know about the various sources of solid waste and preventive measures.
- To know about the different types of disasters and their managerial measures.

UNIT-IV

Social Issues and the Environment: From Unsustainable to Sustainable development – Urban problems related to energy – Water conservation, rain water harvesting, watershed management – Resettlement and rehabilitation of people; its problems and concerns. Case studies – Environmental ethics: Issues and possible solutions – Climate change, global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust. Case Studies – Wasteland reclamation. – Consumerism and waste products. – Environment Protection Act. – Air (Prevention and Control of Pollution) Act. – Water (Prevention and control of Pollution) Act – Wildlife Protection Act – Forest Conservation Act – Issues involved in enforcement of environmental legislation – Public awareness.

Learning outcomes:

At the end of this unit, the students will be able to

- To know about the social issues related to environment and their protection acts.
- To know about the various sources of conservation of natural resources.
- To know about the wild life protection and forest conservation acts.



UNIT-V

Human Population And The Environment: Population growth, variation among nations.
Population explosion – Family Welfare Programmes. – Environment and human health – Human Rights – Value Education – HIV/AIDS – Women and Child Welfare – Role of information Technology in Environment and human health – Case studies.

Field Work: Visit to a local area to document environmental assets River/forest grassland/hill/mountain - Visit to a local polluted site-Urban/Rural/Industrial/Agricultural Study of common plants, insects, and birds - river, hill slopes, etc..

Learning outcomes:

At the end of this unit, the students will be able to

- To know about the population explosion and family welfare programmes.
- To identify the natural assets and related case studies.

TEXT BOOKS:

- Text book of Environmental Studies for Undergraduate Courses Erach Bharucha for University Grants Commission, Universities Press.
- 2. Palaniswamy, "Environmental Studies", Pearson education
- 3. S.Azeem Unnisa, "Environmental Studies" Academic Publishing Company
- K.Raghavan Nambiar, "Text book of Environmental Studies for Undergraduate Courses as per UGC model syllabus", Scitech Publications (India), Pvt. Ltd.

REFERENCES:

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- M.Anji Reddy, "Text book of Environmental Sciences and Technology", BS Publication.
- 3. J.P.Sharma, Comprehensive Environmental studies, Laxmi publications.
- J. Glynn Henry and Gary W. Heinke, "Environmental Sciences and Engineering", Prentice hall of India Private limited
- 5. G.R.Chatwal, "A Text Book of Environmental Studies" Himalaya Publishing House
- Gilbert M. Masters and Wendell P. Ela, "Introduction to Environmental Engineering and Science, Prentice hall of India Private limited.

Course Outcomes:

At the end of the course, the student will be able to

- Grasp multidisciplinary nature of environmental studies and various renewable and nonrenewable resources.
- Understand flow and bio-geo- chemical cycles and ecological pyramids.
- Understand various causes of pollution and solid waste management and related preventive measures.
- About the rainwater harvesting, watershed management, ozone layer depletion and waste land reclamation.
- Casus of population explosion, value education and welfare programmes.

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CIVIL ENGINEERING

Course Code	Environmental Engineering - I		L	T	P	C
20A01404T			3	0	0	3
Pre-requisite	NIL	Semester	IV			

Course Objectives:

- To teach requirements of water and its treatment.
- To impart knowledge on sewage treatment methodologies.
- · To provide facts on Air pollution and control.
- · To enable with design concepts of wastewater treatment UNITs
- To throw light on importance of plumbing.

Course Outcomes (CO):

At the end of the course, the student will be able to:

- Understand about quality of water and purification process
- Select appropriate technique for treatment of wastewater.
- Assess the impact of air pollution
- Understand consequences of solid waste and its management
- Design domestic plumbing systems

UNIT - I Water quality and treatment:

Water quality: Sources of Water and quality issues, water quality requirement for different beneficial uses, Water quality standards, water quality indices, water safety plans, Water Supply systems, Need for planned water supply schemes, Water demand industrial and agricultural water requirements, Components of water supply system; Transmission of water, Distribution system, Various valves used in W/S systems, service reservoirs and design. Water Treatment: aeration, sedimentation, coagulation flocculation, filtration, disinfection, advanced treatments like adsorption, ion exchange, membrane processes

UNIT – II Sewage and Treatment

Domestic and Storm water, Quantity of Sewage, Sewage flow variations. Conveyance of sewage-Sewers, shapes design parameters, operation and maintenance of sewers, Sewage pumping; Sewerage, Sewer appurtenances, Design of sewerage systems. Small bore systems, Storm Water-Quantification and design of Storm water; Sewage and Sullage, Pollution due to improper disposal of sewage, National River cleaning plans, Wastewater treatment – COD & BOD- aerobic and anaerobic treatment systems, suspended and attached growth systems, recycling of sewage – quality requirements for various purposes.

UNIT - III Air Pollution

Composition and properties of air, Quantification of air pollutants, Monitoring of air pollutants, Air pollution- Occupational hazards, Urban air pollution automobile pollution, Chemistry of combustion, Automobile engines, quality of fuel, operating conditions and interrelationship. Air quality standards, Control measures for Air pollution, construction and limitations.

UNIT - IV Solid Waste Management

Municipal solid waste-Composition - chemical and physical parameters - Collection, transport, treatment and disposal. waste from commercial establishments and other urban zonesconstruction activities - biomedical wastes, Effects of solid waste on environment. Disposal of solid waste-Disposal methods- Integrated solid waste management.

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CIVIL ENGINEERING

UNIT - V

Domestic Plumbing

Types of home plumbing systems for water supply and waste water disposal, high rise building plumbing-Pressure reducing valves, Break pressure tanks, Storage tanks, Building drainage for high rise buildings, various kinds of fixtures and fittings. Role of Government authorities in water supply, sewerage disposal

Textbooks:

- 1. G. S. Birdi, "Water supply and sanitary Engineering", Dhanpat Rai & Sons Publishers.
- Peavy, H.S, Rowe, D. R. Tchobanoglous, "Environmental Engineering", Mc-Graw Hill International Editions, New York 1985.

Reference Books:

- B.C. Punmia, Ashok Jain & Arun Jain, "Water Supply Engineering", Vol. 1, Waste water Engineering, Vol. II, Laxmi Publications Pvt. Ltd, New Delhi.
- MetCalf and Eddy, "Wastewater Engineering", Treatment, Disposal and Reuse, Tata McGraw-Hill, New Delhi.
- 3. S. M. Patil, "Plumbing EngineeringTheory, Design and Practice",1999.
- 4. K. N. Duggal, "Elements of Environmental Engineering", S. Chand Publishers.

Online Learning Resources:

- 1. https://nptel.ac.in/courses/103/107/103107084/
- https://ocw.mit.edu/courses/environment-courses/
- https://learningpath.org/articles/Free_Online_Environmental_Engineering_Courses_from_ Top_Universities.html
- https://nptel.ac.in/noc/courses/noc19/SEM2/noc19-ge22/

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CIVIL ENGINEERING

Course Code	ENVIRONMENTAL EN	L	T	P	C	
20A01404P			0	0	3	1.5
Pre-requisite	NIL	Semester	1	1	V	

Course Objectives:

The object of the course is to enable the students to identify the characteristics of water sample

Course Outcomes (CO):

At the end of the course, the student will be able to Understand about quality of water standards

List of Experiments:

- Determination of pH and Electrical Conductivity (Salinity) of Water and Soil.
 Determination and estimation of Total Hardness-Calcium & Magnesium.
 Determination of Alkalinity/Acidity
 Determination of Chlorides in water and soil

- 5. Determination and Estimation of total solids, organic solids and inorganic solids and settleable solids by Imhoff Cone.
- 6. Determination of Iron.
- Determination of Dissolved Oxygen with D.O. Meter & Wrinklers Method and B.O.D.
- 8. Determination of N, P, K values in solid waste
- 9. Physical parameters Temperature, Colour, Odour, Turbidity, Taste.
- 10. Determination of C.O.D.
- 11. Determination of Optimum coagulant dose.
- 12. Determination of Chlorine demand.
- 13. Presumptive Coliform test.

References:

1.G. S. Birdi "Water supply and sanitary Engineering", Dhanpat Rai & Sons Publishers. 2.Peavy, H.S, Rowe, D. R. Tchobanoglous, "Environmental Engineering", Mc-Graw -Hill International Editions, New York 1985

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR B.Tech (CE)— III-II L T P C 3 0 0 3

(19A01603c) ENVIRONMENTAL AIR POLLUTION PROFESSINAL ELECTIVE-II

Course Objective:

- To take up the basic concepts of air pollution.
- To introduce students to basic concepts of pollution.
- The contents involved the knowledge of causes of air pollution.
- The contents involved the knowledge of health related to air pollution.
- To develop skills relevant to control of air pollution.

Unit - I

Introduction and Scope - Environmental Systems: Source, Pollutant Transport and Impact on Receptor

Environmental Quality and Pollution: Air-Water quality parameters, units for expression; beneficial uses of water; water quality criteria and standards, air quality criteria, health effects and Indian national air quality standards (including methods for standard setting)

Unit - II

Air Pollution Sources and Assessment of Air Pollution Load- preparation of emission inventory, its presentation (data base) and interpretation Disposal, Fate and Transport of Waste: (i) pollutant dispersion in lakes, reservoirs, rivers, ground water, disposal and stream quality standards, (ii) air pollution dispersion, transportation and chemical transformation, meteorological parameters, simple box and gaussian type model for point, area and line (vehicular sources) (iii) Tutorials and simulated examples

Unit - III

Solid and Hazardous Waste Management: generation, collection, classification, processing and disposal, composting, land filling, incineration, hazardous waste definition and disposal

Unit - IV

Air Pollution Control Particulate removal mechanism and processes; reduction of gaseous pollution dry and wet scrubbing - Noise Pollution: causes, measurements, prevention and control

Unit - V

Environmental policies and regulations; water act, water cess act air act, environmental protection act, hazardous and biomedical waste rules, public liability insurance act, EIA notification, and regulatory mechanism -Environmental Impact Assessment (EIA): Assessment Procedure – Identification, prediction and evaluation; EIA methodologies; EIA statement and report preparation; examples and simulated case studies.

Course Outcomes

On the completion of the course one should be able to understand:

- Concepts of air pollution.
- · How to estimate the quantity of air pollutant.
- Be able to develop control technologies.

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SIDDARTHA EDUCATIONAL ACADEMY GROUP OF INSTITUTIONS

(An Integrated Campus for Engineering & MBA)

Approved by AICTE, New Delhi & Affiliated to JNTUA, Ananthapuramu, AP.

Near C. Gollapalli, Tirupati – 517 505, Andhra Pradesh

1.3.1 Institution Integrates cross cutting issues relevant to professional Ethics, Gender, Human values, Environment and Sustainability (2020-21)

Cross cutting issue	Regulation	Course code	Name of the Course	Year of study	Academic year
	R20	20A52101T	Communicative English	I.I (CIVIL, EEE, ECE)	2020-21
	R20	20A52101P	Communicative English	I.I (CIVIL, EEE, ECE)	2020-21
A-80-10-11-1-11-11-11-11-11-11-11-11-11-11-	R20	20A52201	Universal Human Values	I.II (ME, CSE)	2020-21
Human values and	R19	19A52301	Universal Human Values	II.I(CIVIL, ME,CSE)	2020-21
Professional Ethics	R19	19A52301	Universal Human Values	II.II(EEE,ECE)	2020-21
	R15	15A99501	Social Values and Ethics	III.I (CSE)	2020-21
	R15	15A52602	AELCS Lab	III.II (Common to All)	2020-21
	R17	17D20301	Research Methodology	M.Tech II- I(ES&DECS)	2020-21
	R17	17D20302	Human values and Professional Ethics	M.Tech II- I(SE,CSE)	2020-21
	R20	20A99201	Environment Science	I.II (CE, EEE,ECE)	2020-20
	R19	19A99301	Environment Science	II.I (CIVIL)	2020-21
	R19	19A99301	Environment Science	II.II (EEE,ECE)	2020-21
Environment and Sustainability	R19	19A01406	Environmental Engineering	II.II (CIVIL)	2020-21
	R19	19A01508	Environmental Engineering Lab	III-I(CE)	2020-21
	R15	15A01703	Environmental Engineering	IV.I (CIVIL)	2020-21
	R15	15A01712	Environmental Engineering Lab	IV.I (CIVIL)	2020-21
	R15	15A05607	Linux Environment System	III.II (CSE)	2020-21



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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR B.Tech (ECE)– I Sem L T P

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(20A52101T) COMMUNICATIVE ENGLISH

(Common to All Branches of Engineering)

Course Objectives

- Facilitate effective listening skills for better comprehension of academic lectures and English spoken by native speakers
- Focus on appropriate reading strategies for comprehension of various academic texts and authentic materials
- Help improve speaking skills through participation in activities such as role plays, discussions and structured talks/oral presentations
- Impart effective strategies for good writing and demonstrate the same in summarizing, writing well organized essays, record and report useful information
- Provide knowledge of grammatical structures and vocabulary and encourage their appropriate use in speech and writing

UNIT-1

Lesson: On the Conduct of Life: William Hazlitt

Listening: Identifying the topic, the context and specific pieces of information by listening to short audio texts and answering a series of questions. Speaking: Asking and answering general questions on familiar topics such as home, family, work, studies and interests; introducing oneself and others. Reading: Skimming to get the main idea of a text; scanning to look for specific pieces of information. Reading for Writing: Beginnings and endings of paragraphs - introducing the topic, summarizing the main idea and/or providing a transition to the next paragraph. Grammar and Vocabulary: Parts of Speech, Content words and function words; word forms: verbs, nouns, adjectives and adverbs; nouns: countable and uncountable; singular and plural; basic sentence structures; simple question form - wh-questions; word order in sentences.

Learning Outcomes

At the end of the module, the learners will be able to

- Understand social or transactional dialogues spoken by native speakers of English and identify the context, topic, and pieces of specific information
- · Ask and answer general questions on familiar topics and introduce oneself/others
- Employ suitable strategies for skimming and scanning to get the general idea of a text and locate specific information
- Recognize paragraph structure and be able to match beginnings/endings/headings with paragraphs
- Form sentences using proper grammatical structures and correct word forms

UNIT -2

Lesson: The Brook: Alfred Tennyson

Listening: Answering a series of questions about main idea and supporting ideas after listening to audio texts. Speaking: Discussion in pairs/small groups on specific topics followed by short structured

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talks. Reading: Identifying sequence of ideas; recognizing verbal techniques that help to link the ideas in a paragraph together. Writing: Paragraph writing (specific topics) using suitable cohesive devices; mechanics of writing - punctuation, capital letters. Grammar and Vocabulary: Cohesive devices - linkers, sign posts and transition signals; use of articles and zero article; prepositions.

Learning Outcomes

At the end of the module, the learners will be able to

- · Comprehend short talks on general topics
- Participate in informal discussions and speak clearly on a specific topic using suitable discourse markers
- Understand the use of cohesive devices for better reading comprehension
- Write well structured paragraphs on specific topics
- · Identify basic errors of grammar/ usage and make necessary corrections in short texts

UNIT -3

Lesson: The Death Trap: Saki

Listening: Listening for global comprehension and summarizing what is listened to. Speaking: Discussing specific topics in pairs or small groups and reporting what is discussed Reading: Reading a text in detail by making basic inferences -recognizing and interpreting specific context clues; strategies to use text clues for comprehension. Writing: Summarizing, Paragraph Writing Grammar and Vocabulary: Verbs - tenses; subject-verb agreement; direct and indirect speech, reporting verbs for academic purposes.

Learning Outcomes

At the end of the module, the learners will be able to

- · Comprehend short talks and summarize the content with clarity and precision
- Participate in informal discussions and report what is discussed
- · Infer meanings of unfamiliar words using contextual clues
- Write summaries based on global comprehension of reading/listening texts
- Use correct tense forms, appropriate structures and a range of reporting verbs in speech and writing

UNIT-4

Lesson: Innovation: Muhammad Yunus

Listening: Making predictions while listening to conversations/ transactional dialogues without video; listening with video. Speaking: Role plays for practice of conversational English in academic contexts (formal and informal) - asking for and giving information/directions. Reading: Studying the use of graphic elements in texts to convey information, reveal trends/patterns/relationships, communicate processes or display complicated data. Writing: Letter Writing: Official Letters/Report Writing Grammar and Vocabulary: Quantifying expressions - adjectives and adverbs; comparing and contrasting; Voice - Active & Passive Voice

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Learning Outcomes

At the end of the module, the learners will be able to

- · Infer and predict about content of spoken discourse
- Understand verbal and non-verbal features of communication and hold formal/informal conversations
- · Interpret graphic elements used in academic texts
- · Produce a coherent paragraph interpreting a figure/graph/chart/table
- · Use language appropriate for description and interpretation of graphical elements

UNIT-5

Lesson: Politics and the English Language: George Orwell

Listening: Identifying key terms, understanding concepts and answering a series of relevant questions that test comprehension. Speaking: Formal oral presentations on topics from academic contexts - without the use of PPT slides. Reading: Reading for comprehension. Writing: Writing structured essays on specific topics using suitable claims and evidences. Grammar and Vocabulary: Editing short texts -identifying and correcting common errors in grammar and usage (articles, prepositions, tenses, subject verb agreement)

Learning Outcomes

At the end of the module, the learners will be able to

- Take notes while listening to a talk/lecture and make use of them to answer questions
- · Make formal oral presentations using effective strategies
- · Comprehend, discuss and respond to academic texts orally and in writing
- · Produce a well-organized essay with adequate support and detail
- Edit short texts by correcting common errors

Text Book:

1. Language and Life: A Skills Approach-1 Edition 2019, Orient Black Swan

Reference Books:

- Bailey, Stephen. Academic writing: A handbook for international students. Routledge, 2014.
- Chase, Becky Tarver. Pathways: Listening, Speaking and Critical Thinking. Heinley ELT; 2nd Edition, 2018.
- 3. Raymond Murphy's English Grammar in Use Fourth Edition (2012) E-book
- 4. Hewings, Martin. Cambridge Academic English (B2). CUP, 2012.
- Oxford Learners Dictionary, 12th Edition, 2011
- Norman Lewis Word Power Made Easy- The Complete Handbook for Building a Superior Vocabulary (2014)
- Speed Reading with the Right Brain: Learn to Read Ideas Instead of Just Words by David Butler

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR B.Tech (ECE)– I Sem L T P C 0 0 3 1.5

(20A52101P) COMMUNICATIVE ENGLISH LAB

(Common to All Branches of Engineering)

Course Objectives

- students will be exposed to a variety of self instructional, learner friendly modes of language learning
- · students will learn better pronunciation through stress, intonation and rhythm
- students will be trained to use language effectively to face interviews, group discussions, public speaking
- students will be initiated into greater use of the computer in resume preparation, report writing, format making etc

List of Topics

- 1. Phonetics
- 2. Reading comprehension
- 3. Describing objects/places/persons
- 4. Role Play or Conversational Practice
- 5. JAM
- 6. Etiquettes of Telephonic Communication
- 7. Information Transfer
- 8. Note Making and Note Taking
- 9. E-mail Writing
- 10. Group Discussions-1
- 11. Resume Writing
- 12. Debates
- 13. Oral Presentations
- 14. Poster Presentation
- 15. Interviews Skills-1

Suggested Software

Orel, Walden Infotech, Young India Films

Reference Books

- 1. Bailey, Stephen. Academic writing: A handbook for international students. Routledge, 2014.
- Chase, Becky Tarver. Pathways: Listening, Speaking and Critical Thinking. Heinley ELT; 2nd Edition, 2018.
- 3. Skillful Level 2 Reading & Writing Student's Book Pack (B1) Macmillan Educational.
- Hewings, Martin. Cambridge Academic English (B2). CUP, 2012.
- 5. A Textbook of English Phonetics for Indian Students by T.Balasubramanyam

Web Links

www.esl-lab.com www.englishmedialab.com www.englishinteractive.net PRINCIPAL
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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR B.Tech (ME) – II Sem L T P C 3 0 0 0

(20A52201) UNIVERSAL HUMAN VALUES (Common to all branches)

Course Objective:

The objective of the course is four fold:

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

COURSE TOPICS:

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

Unit 1:

Course Introduction - Need, Basic Guidelines, Content and Process for Value Education

- Purpose and motivation for the course, recapitulation from Universal Human Values-1
- Self-Exploration—what is it? Its content and process; 'Natural Acceptance' and Experiential Validation- as the process for self-exploration
- Continuous Happiness and Prosperity- A look at basic Human Aspirations
- Right understanding, Relationship and Physical Facility- the basic requirements for fulfilment of aspirations of every human being with their correct priority
- Understanding Happiness and Prosperity correctly- A critical appraisal of the current scenario
- Method to fulfil the above human aspirations: understanding and living in harmony at various levels.

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

Unit 2:

Understanding Harmony in the Human Being - Harmony in Myself!

Understanding human being as a co-existence of the sentient 'I' and the material 'Body'

Understanding the needs of Self ('1') and 'Body' - happiness and physical facility

Understanding the Body as an instrument of 'I' (I being the doer, seer and enjoyer part)

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- · Understanding the characteristics and activities of 'I' and harmony in 'I'
- Understanding the harmony of I with the Body: Sanyam and Health; correct appraisal of Physical needs, meaning of Prosperity in detail
- · 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

Unit 3:

Understanding Harmony in the Family and Society- Harmony in Human-Human Relationship

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

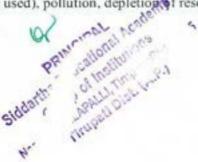
Include practice sessions to reflect on relationships in family, hostel and institute as extended family, real life examples, teacher-student relationship, goal of education etc. Gratitude as a universal value in relationships. Discuss with scenarios. Elicit examples from students' lives

Unit 4:

Understanding Harmony in the Nature and Existence - Whole existence as Coexistence

- Understanding the harmony in the Nature
- Interconnectedness and mutual fulfilment among the four orders of naturerecyclability and self-regulation in nature
- Understanding Existence as Co-existence of mutually interacting units in all- pervasive space
- · Holistic perception of harmony at all levels of existence.

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



Unit 5:

Implications of the above Holistic Understanding of Harmony on Professional Ethics

- Natural acceptance of human values
- · Definitiveness of Ethical Human Conduct
- Basis for Humanistic Education, Humanistic Constitution and Humanistic Universal Order
- Competence in professional ethics: a. Ability to utilize the professional competence for augmenting universal human order b. Ability to identify the scope and characteristics of people friendly and eco-friendly production systems, c. Ability to identify and develop appropriate technologies and management patterns for above production systems.
- Case studies of typical holistic technologies, management models and production systems
- Strategy for transition from the present state to Universal Human Order: a. At the level of individual: as socially and ecologically responsible engineers, technologists and managers b. At the level of society: as mutually enriching institutions and organizations
- · 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.

Text Book

- R R Gaur, R Asthana, G P Bagaria, "A Foundation Course in Human Values and Professional Ethics", 2nd Revised Edition, Excel Books, New Delhi, 2019. ISBN 978-93-87034-47-1
- R R Gaur, R Asthana, G P Bagaria, "Teachers' Manual for A Foundation Course in Human Values and Professional Ethics", 2nd Revised Edition, Excel Books, New Delhi, 2019. ISBN 978-93-87034-53-2

Reference Books

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

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR

B.Tech (CE)- II-I Sem

(19A52301) UNIVERSAL HUMAN VALUES 2: UNDERSTANDINGHARMONY (Common to all)

Introduction:

This course discusses the role of human values in one's 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 names as"H-102 Universal Human Values 2 : "Understanding Harmony" is designed which may be covered in their III or IV Semester.

In the Induction Program, students would get an initial exposure to human valuesthroughUniversalHumanValues-I.Thisexposureistobeaugmentedby compulsory full semester foundationcourse.

Course Objective:

The objective of the course is four fold:

- Development of a holistic perspective based on self-exploration about themselves (human being), family, society andnature/existence.
- Understanding (or developing clarity) of the harmony in the human being, family, society andnature/existence
- Strengthening ofself-reflection.
- Development of commitment and courage toact.

COURSE TOPICS:

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

Unit -1:

Course Introduction - Need, Basic Guidelines, Content and Process for Value Education

- Purpose and motivation for the course, recapitulation from Universal HumanValues-
- Self-Exploration—what is it? Its content and process; 'Natural Acceptance' and Experiential Validation- as the process for self-exploration
- Continuous Happiness and Prosperity- A look at basic Human Aspirations
- Right understanding, Relationship and Physical Facility- the basic requirements for fulfilment of aspirations of every human being with their correct priority
- · Understanding Happiness and Prosperity correctly- A critical appraisal of the
- current scenario

 Method to fulfil the above human aspirations: understanding and living in harmony

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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

Unit -2:

Understanding Harmony in the Human Being - Harmony in Myself!

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

Unit -3:

Understanding Harmony in the Family and Society- Harmony in Human-Human Relationship

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

Order- from tame,

Include practice sessions to reflect on relationships in family, hoster extended family, real life examples, teacher-student relationship, goal of education as extended family, real life examples, teacher-student relationship, goal of education as extended family, real life examples, teacher-student relationship, goal of education as extended family, real life examples, teacher-student relationship, goal of education as extended family, real life examples, teacher-student relationship, goal of education as extended family, real life examples, teacher-student relationship, goal of education as extended family, real life examples, teacher-student relationship, goal of education as extended family, real life examples, teacher-student relationship, goal of education as extended family, real life examples, teacher-student relationship, goal of education as extended family, real life examples, teacher-student relationship, goal of education as extended family, real life examples, teacher-student relationship, goal of education as extended family, real life examples, teacher-student relationship, goal of education as extended family, real life examples, teacher-student relationship, goal of education as extended family, real life examples, teacher-student relationship, goal of education as extended family, real life examples, teacher-student relationship, goal of education as extended family, real life examples, teacher-student relationship, goal of education as extended family, real life examples, teacher-student relationship, goal of education as extended family, real life examples, teacher-student relationship, goal of education as extended family, real life examples, teacher-student relationship, goal of education as extended family, real life examples, teacher-student relationship, goal of education as extended family, real life examples, goal of education as extended family, real life examples, goal of education as extended family, goal of education as extended family, goal of education as ext

Unit -4:

Understanding Harmony in the Nature and Existence - Whole existence as Coexistence

- Understanding the harmony in the Nature
- · Interconnectedness and mutual fulfilment among the four orders of naturerecyclability and self-regulation innature
- · Understanding Existence as Co-existence of mutually interacting units in allpervasivespace
- 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.

Unit -5:

Implications of the above Holistic Understanding of Harmony on Professional Ethics

- Natural acceptance of humanvalues
- Definitiveness of Ethical HumanConduct
- · Basis for Humanistic Education, Humanistic Constitution and Humanistic UniversalOrder
- 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 productionsystems.
- · Case studies of typical holistic technologies, management models and productionsystems
- 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 andorganizations
- · 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.

Text Book

1. R R Gaur, R Asthana, G P Bagaria, "A Foundation Course in Human Values and Siddartha Educational Academy
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Of up of Institutions
NEW GROLLAPALLI, Timpau (R.E.)
Tirupau Dist. (A.E.) Professional Ethics", 2nd Revised Edition, Excel Books, New Delhi, 2019, ISBN 978-93-87034-47-1

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR

B. Tech III-I Sem. (CSE)

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SOCIAL VALUES & ETHICS (AUDIT COURSE) (Common to all Branches)

UNIT - I

Introduction and Basic Concepts of Society: Family and Society: Concept of family, community, PRIs and other community based organizations and society, growing up in the family – dynamics and impact, Human values, Gender Justice.

Channels of Youth Moments for National Building: NSS & NCC: History, philosophy, aims & objectives; Emblems, flags, mottos, songs, badge etc.; Organizational structure, roles and responsibilities of various NSS functionaries. Nehru Yuva Kendra (NYK): Activities – Socio Cultural and Sports.

UNIT-II

Activities of NSS, NCC, NYK:

Citizenship: Basic Features Constitution of India, Fundamental Rights and Fundamental Duties, Human Rights, Consumer awareness and the legal rights of the consumer, RTI.

Youth and Crime: Sociological and psychological Factors influencing youth crime, Peer Mentoring in preventing crimes, Awareness about Anti-Ragging, Cyber Crime and its prevention, Juvenile Justice

Social Harmony and National Integration: Indian history and culture, Role of youth in peace-building and conflict resolution, Role of youth in Nation building.

UNIT - III

Environment Issues: Environment conservation, enrichment and Sustainability, Climate change, Waste management, Natural resource management (Rain water harvesting, energy conservation, waste land development, soil conservations and attorestation).

Health, Hygiene & Sanitation: Definition, needs and scope of health education, Food and Nutrition, Safe drinking water, Sanitation, Swachh Bharat Abhiyan.

Disaster Management: Introduction to Disaster Management, classification of disasters, Role of youth in Disaster Management. Home Nursing, First Ald.

Civil/ Self Defense: Civil defense services, aims and objectives of civil defense, Need for self defense training - Teakwondo, Judo, karate etc.,

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UNIT-IV

Gender Sensitization: Understanding Gender – Gender inequality – Role of Family, Society and State; Challenges – Declining Sex Ratio – Sexual Harassment – Domestic Violence; Gender Equality – Initiatives of Government – Schemes, Law; Initiates of NGOs – Awareness, Movements;

UNIT - V

Physical Education: Games & Sports: Health and Recreation – Biological basis of Physical activity – beneficts of exercise – Physical, Psychological, Social; Physiology of Musucular Activity, Respiration, Blood Circulation.

Yoga: Basics of Yoga - Yoga Protocol, Postures, Asanas, Pranayama: Introduction of Kriyas, Bandhas and Mudras.

TEXT BOOKS:

- 1. NSS MANUAL
- SOCIETY AND ENVIRONMENT: A.S. Chauha, Jain Brothers Publications, 6° Edition. 2006
- 3. INDIAN SOCIAL PROBLEM: G.R.Madan, Asian Publisher House
- 4. INDIAN SOCIAL PROBLEM: Ram Ahuja, Rawat Publications
- 5. HUMAN SOCIETY: Kingsley Davis, Macmillan
- 6. SOCIETY: Mac Iver D Page, Macmillan
- SOCIOLOGY THEMES AND PERSPECTIVES: Michael Honalambos, Oxford University Press
- 8. CONSTITUTION OF INDIA: D.D.Basu, Lexis Nexis Butterworth Publishers
- 9. National Youth Policy 2014 (available on www.yas.nic.in)
- 10.TOWARS A WORLD OF EQUALS: A.Suneetha, Uma Bhrugudanda, Duggirala Vasantha, Rama Melkote, Vasudha Nagraj, Asma Rasheed, Gogu Shyamala, Deepa Streenivas and Susie Tharu
- 11. LIGHT ON YOGA: B.K.S.lyengar, Penguin Random House Publishers

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR

B. Tech III-II Sem. (C.E)

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15A52602 ADVANCED ENGLISH LANGUAGE COMMUNICATION SKILLS (AELCS) LAB (Audit Course)

1. INTRODUCTION

With increased globalization and rapidly changing industry expectations, employers are looking for the wide cluster of skills to cater to the changing demand. The introduction of the Advanced Communication Skills Lab is considered essential at 3rd year level. At this stage, the students need to prepare themselves for their careers which may require them to listen to, read, speak and write in English both for their professional and interpersonal communication in the globalised context.

The proposed course should be a laboratory course to enable students to use 'good' English and perform the following:

- Gathering ideas and information and to organise ideas relevantly and coherently.
- Engaging in debates.
- Participating in group discussions.
- Facing interviews.
- Writing project/research reports/technical reports.
- Making oral presentations.
- Taking part in social and professional communication.

1. OBJECTIVES:

This Lab focuses on using multi-media instruction for language development to meet the following targets:

 To improve the students' fluency in English, through a well-developed vocabulary and enable them to listen to English spoken at normal conversational speed by educated English speakers and respond appropriately in different socio-cultural and professional contexts.

 Further, they would be required to communicate their ideas relevantly and coherently in writing

coherently in writing.

To prepare all the students for their placements.

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3. SYLLABUS:

The following course content to conduct the activities is prescribed for the Advanced English Communication Skills (AECS) Lab:

UNIT-I: COMMUNICATION SKILLS

- Reading Comprehension
- Listening comprehension
- Vocabulary Development
- Common Errors

UNIT-II: WRITING SKILLS

- Report writing
- Resume Preparation
- E-mail Writing

UNIT-III: PRESENTATION SKILLS

- Oral presentation
- Power point presentation
- Poster presentation

UNIT-IV: GETTING READY FOR JOB

- Debates
- Group discussions
- Job Interviews

UNIT-V: INTERPERSONAL SKILLS

- Time Management
- 2. Problem Solving & Decision Making
- Etiquettes

4. LEARNING OUTCOMES:

- Accomplishment of sound vocabulary and its proper use contextually
- Flair in Writing and felicity in written expression.
- Enhanced job prospects.
- Effective Speaking Abilities

5. MINIMUM REQUIREMENT:

The Advanced English Communication Skills (AECS) Laboratory shall have the following infra-structural facilities to accommodate at least 60 students in the lab:

- Spacious room with appropriate acoustics.
- Round Tables with movable chairs
- Audio-visual aids
- LCD Projector
- Public Address system

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- P IV Processor, Hard Disk 80 GB, RAM–512 MB Minimum, Speed – 2.8 GHZ
- T. V, a digital stereo & Camcorder
- Headphones of High quality

6. SUGGESTED SOFTWARE:

The software consisting of the prescribed topics elaborated above should be procured and G

- 1. Walden Infotech: Advanced English Communication Skills Lab
- 2. K-VAN SOLUTIONS-Advanced English Language Communication Skills lab
- DELTA's key to the Next Generation TOEFL Test: Advanced Skills Practice.
- TOEFL & GRE(KAPLAN, AARCO & BARRONS, USA, Cracking GRE by CLIFFS)
- 5. Train2success.com

7. BOOKS RECOMMENDED:

- Objective English for Competitive Exams, Hari Mohana Prasad, 4th edition, Tata Mc Graw Hill.
- Technical Communication by Meenakshi Raman & Sangeeta Sharma, O U Press 3rd Edn. 2015.
- Essay Writing for Exams, Audrone Raskauskiene, Irena Ragaisience & Ramute Zemaitience, OUP, 2016
- 4. Soft Skills for Everyone, Butterfield Jeff, Cengage Publications, 2011.
- Management Shapers Series by Universities Press (India) Pvt Ltd., Himayatnagar, Hyderabad 2008.
- Campus to Corporate, Gangadhar Joshi, Sage Publications, 2015
- Communicative English, E Suresh Kumar & P.Sreehari, Orient Blackswan, 2009.
- English for Success in Competitive Exams, Philip Sunil Solomon OUP, 2015



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR M.Tech III semester (ES) L T P C 4 0 0 4

(17D20301) RESEARCH METHODOLOGY (Elective V-OPEN ELECTIVE)

UNIT I

Meaning of Research - Objectives of Research - Types of Research - Research Approaches - Guidelines for Selecting and Defining a Research Problem - research Design - Concepts related to Research Design - Basic Principles of Experimental Design.

UNIT II

Sampling Design - steps in Sampling Design - Characteristics of a Good Sample Design - Random Sampling Design.

Measurement and Scaling Techniques-Errors in Measurement – Tests of Sound Measurement – Scaling and Scale Construction Techniques – Time Series Analysis – Interpolation and Extrapolation.

Data Collection Methods - Primary Data - Secondary data - Questionnaire Survey and Interviews.

UNIT III

Correlation and Regression Analysis - Method of Least Squares - Regression vs Correlation - Correlation vs Determination - Types of Correlations and Their Applications

UNIT IV

Statistical Inference: Tests of Hypothesis – Parametric vs Non-parametric Tests – Hypothesis Testing Procedure – Sampling Theory – Sampling Distribution – Chi-square Test – Analysis of variance and Co-variance – Multi-variate Analysis.

UNIT V

Report Writing and Professional Ethics: Interpretation of Data – Report Writing – Layout of a Research Paper – Techniques of Interpretation- Making Scientific Presentations in Conferences and Seminars – Professional Ethics in Research.

Text Books:

Research Methodology:Methods And Techniques - C.R.Kothari, 2nd Edition,New Age International Publishers.

Research Methodology: A Step By Step Guide For Beginners- Ranjit Kumar, Sage Publications (Available As Pdf On Internet)

Research Methodology And Statistical Tools – P.Narayana Reddy And G.V.R.K.Acharyulu, 1st Edition, Excel Books, New Delhi.

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR M.Tech III semester (SE)

L T P C

(17D20302) HUMAN VALUES AND PROFESSIONAL ETHICS (Elective V-OPEN ELECTIVE)

Unit I:

HUMAN VALUES: Morals, Values and Ethics-Integrity-Work Ethic-Service learning – Civic Virtue – Respect for others – Living Peacefully – Caring – Sharing – Honesty -Courage- Co Operation – Commitment – Empathy –Self Confidence Character – Spirituality.

Unit II:

ENGINEERING ETHICS: Senses of Engineering Ethics- Variety of moral issues –
Types of inquiry – Moral dilemmas – Moral autonomy –Kohlberg"s theory- Gilligan"s
theory- Consensus and controversy – Models of professional roles- Theories about right
action- Self interest - Customs and religion –Uses of Ethical theories – Valuing time –Co
operation – Commitment.

Unit III:

ENGINEERING AS SOCIAL EXPERIMENTATION: Engineering As Social Experimentation – Framing the problem – Determining the facts – Codes of Ethics – Clarifying Concepts – Application issues – Common Ground - General Principles – Utilitarian thinking respect for persons.

UNIT IV:

ENGINEERS RESPONSIBILITY FOR SAFETY AND RISK: Safety and risk – Assessment of safety and risk – Risk benefit analysis and reducing riskSafety and the Engineer- Designing for the safety- Intellectual Property rights(IPR).

UINIT V:

GLOBAL ISSUES: Globalization – Cross culture issues- Environmental Ethics –
Computer Ethics – Computers as the instrument of Unethical behavior – Computers as the object of Unethical acts – Autonomous Computers- Computer codes of Ethics – Weapons Development - Ethics.



Text Books:

 "Engineering Ethics includes Human Values" by M.Govindarajan, S.Natarajan and V.S.SenthilKumar-PHI Learning Pvt. Ltd-2009.

2. "Engineering Ethics" by Harris, Pritchard and Rabins, CENGAGE Learning, India

Edition, 2009.

 "Ethics in Engineering" by Mike W. Martin and Roland Schinzinger – Tata McGrawHill– 2003.

 "Professional Ethics and Morals" by Prof. A.R. Aryasri, Dharanikota Suyodhana-Maruthi Publications.

 "Professional Ethics and Human Values" by A.Alavudeen, R.Kalil Rahman and M.Jayakumaran, Laxmi Publications.

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR B.Tech (ECE)- II Sem L T P C 3 0 0 0

(20A99201) ENVIRONMENTAL SCIENCE

(Common to All Branches of Engineering)

Course Objectives:

- . To make the students to get awareness on environment
- To understand the importance of protecting natural resources, ecosystems for future generations and pollution causes due to the day to day activities of human life
- · To save earth from the inventions by the engineers.

UNIT-I

Multidisciplinary Nature Of Environmental Studies: – Definition, Scope and Importance – Need for Public Awareness.

Natural Resources: Renewable and non-renewable resources – Natural resources and associated problems – Forest resources – Use and over – exploitation, deforestation, case studies – Timber extraction – Mining, dams and 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, case studies – Food resources: World food problems, changes caused by agriculture and overgrazing, effects of modern agriculture, fertilizer-pesticide problems, water logging, salinity, case studies. – Energy resources:

Learning outcomes:

At the end of this unit, the students will be able to

- · To know the importance of public awareness
- · To know about the various resources

UNIT - II

Ecosystems: Concept of an ecosystem. – Structure and function of an ecosystem – Producers, consumers and decomposers – Energy flow in the ecosystem – Ecological succession – Food chains, food webs and ecological pyramids – Introduction, types, characteristic features, structure and function of the following ecosystem:

- Forest ecosystem.
- Grassland ecosystem
- Desert ecosystem
- d. Aquatic ecosystems (ponds, streams, lakes, rivers, oceans, estuaries)

Biodiversity And Its Conservation: Introduction 0 Definition: genetic, species and ecosystem diversity – Bio-geographical classification of India – Value of biodiversity: consumptive use, Productive use, social, ethical, aesthetic and option values – Biodiversity at global, National and local levels – India as a mega-diversity nation – Hot-sports of biodiversity – Threats to biodiversity: habitat loss, poaching of wildlife, man-wildlife conflicts – Endangered and endemic species of India – Conservation of biodiversity: In-situ and Ex-situ conservation of biodiversity.

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Learning outcomes:

At the end of this unit, the students will be able to

- · To know about various echo systems and their characteristics
- · To know about the biodiversity and its conservation

UNIT - III

Environmental Pollution: Definition, Cause, effects and control measures of :

- a. Air Pollution.
- b. Water pollution
- c. Soil pollution
- d. Marine pollution
- e. Noise pollution
- f. Thermal pollution
- g. Nuclear hazards

Solid Waste Management: Causes, effects and control measures of urban and industrial wastes – Role of an individual in prevention of pollution – Pollution case studies – Disaster management: floods, earthquake, cyclone and landslides.

Learning outcomes:

At the end of this unit, the students will be able to

- · To know about the various sources of pollution.
- To know about the various sources of solid waste and preventive measures.
- To know about the different types of disasters and their managerial measures.

UNIT-IV

Social Issues and the Environment: From Unsustainable to Sustainable development – Urban problems related to energy – Water conservation, rain water harvesting, watershed management – Resettlement and rehabilitation of people; its problems and concerns. Case studies – Environmental ethics: Issues and possible solutions – Climate change, global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust. Case Studies – Wasteland reclamation. – Consumerism and waste products. – Environment Protection Act. – Air (Prevention and Control of Pollution) Act. – Water (Prevention and control of Pollution) Act – Wildlife Protection Act – Forest Conservation Act – Issues involved in enforcement of environmental legislation – Public awareness.

Learning outcomes:

At the end of this unit, the students will be able to

- To know about the social issues related to environment and their protection acts.
- · To know about the various sources of conservation of natural resources.
- To know about the wild life protection and forest conservation acts.



UNIT - V

Human Population And The Environment: Population growth, variation among nations.
Population explosion – Family Welfare Programmes. – Environment and human health – Human Rights – Value Education – HIV/AIDS – Women and Child Welfare – Role of information Technology in Environment and human health – Case studies.

Field Work: Visit to a local area to document environmental assets River/forest grassland/hill/mountain – Visit to a local polluted site-Urban/Rural/Industrial/Agricultural Study of common plants, insects, and birds – river, hill slopes, etc..

Learning outcomes:

At the end of this unit, the students will be able to

- To know about the population explosion and family welfare programmes.
- To identify the natural assets and related case studies.

TEXT BOOKS:

- Text book of Environmental Studies for Undergraduate Courses Erach Bharucha for University Grants Commission, Universities Press.
- 2. Palaniswamy, "Environmental Studies", Pearson education
- 3. S.Azeem Unnisa, "Environmental Studies" Academic Publishing Company
- K.Raghavan Nambiar, "Text book of Environmental Studies for Undergraduate Courses as per UGC model syllabus", Scitech Publications (India), Pvt. Ltd.

REFERENCES:

- Deeksha Dave and E.Sai Baba Reddy, "Textbook of Environmental Science", Cengage Publications.
- M.Anji Reddy, "Text book of Environmental Sciences and Technology", BS Publication.
- 3. J.P.Sharma, Comprehensive Environmental studies, Laxmi publications.
- J. Glynn Henry and Gary W. Heinke, "Environmental Sciences and Engineering", Prentice hall of India Private limited
- 5. G.R.Chatwal, "A Text Book of Environmental Studies" Himalaya Publishing House
- Gilbert M. Masters and Wendell P. Ela, "Introduction to Environmental Engineering and Science, Prentice hall of India Private limited.

Course Outcomes:

At the end of the course, the student will be able to

- Grasp multidisciplinary nature of environmental studies and various renewable and nonrenewable resources.
- · Understand flow and bio-geo- chemical cycles and ecological pyramids.
- Understand various causes of pollution and solid waste management and related preventive measures.
- About the rainwater harvesting, watershed management, ozone layer depletion and waste land reclamation.
- Casus of population explosion, value education and welfare programmes.

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR B.Tech (CE)– II-I Sem L T P C 3 0 0 0

(19A99301) ENVIRONMENTAL SCIENCE

Course Objectives:

- · To make the students to get awareness on environment
- To understand the importance of protecting natural resources, ecosystems for future generations and pollution causes due to the day to day activities of human life
- · To save earth from the inventions by the engineers.

UNIT - I:

Multidisciplinary Nature of Environmental Studies: – Definition, Scope and Importance – Need for Public Awareness.

Natural Resources: Renewable and non-renewable resources – Natural resources and associated problems – Forest resources – Use and over – exploitation, deforestation, case studies – Timber extraction – Mining, dams and 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, case studies – Food resources: World food problems, changes caused by agriculture and overgrazing, effects of modern agriculture, fertilizer-pesticide problems, water logging, salinity, case studies. – Energy resources:

Unit Outcomes

- · To know the importance of public awareness
- · To know about the various resources

UNIT - II:

Ecosystems: Concept of an ecosystem. – Structure and function of an ecosystem – Producers, consumers and decomposers – Energy flow in the ecosystem – Ecological succession – Food chains, food webs and ecological pyramids – Introduction, types, characteristic features, structure and function of the following ecosystem:

- Forest ecosystem.
- Grassland ecosystem
- Desert ecosystem
- Aquatic ecosystems (ponds, streams, lakes, rivers, oceans, estuaries)

Biodiversity And Its Conservation: Introduction 0 Definition: genetic, species and ecosystem diversity – Bio-geographical classification of India – Value of biodiversity: consumptive use, Productive use, social, ethical, aesthetic and option values – Biodiversity at

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global, National and local levels – India as a mega-diversity nation – Hot-sports of biodiversity – Threats to biodiversity: habitat loss, poaching of wildlife, man-wildlife conflicts – Endangered and endemic species of India – Conservation of biodiversity: In-situ and Ex-situ conservation of biodiversity.

Course Outcomes:

- To know about various echo systems and their characteristics
- · To know about the biodiversity and its conservation

UNIT - III:

Environmental Pollution: Definition, Cause, effects and control measures of :

- a. Air Pollution.
- Water pollution
- c. Soil pollution
- d. Marine pollution
- e. Noise pollution
- f. Thermal pollution
- g. Nuclear hazards

Solid Waste Management: Causes, effects and control measures of urban and industrial wastes – Role of an individual in prevention of pollution – Pollution case studies – Disaster management: floods, earthquake, cyclone and landslides.

Course Outcomes:

- · To know about the various sources of pollution.
- To know about the various sources of solid waste and preventive measures.
- To know about the different types of disasters and their managerial measures.

UNIT-IV:

Social Issues And The Environment: From Unsustainable to Sustainable development – Urban problems related to energy – Water conservation, rain water harvesting, watershed management – Resettlement and rehabilitation of people; its problems and concerns. Case studies – Environmental ethics: Issues and possible solutions – Climate change, global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust. Case Studies – Wasteland reclamation. – Consumerism and waste products. – Environment Protection Act. – Air (Prevention and Control of Pollution) Act. – Water (Prevention and control of Pollution) Act. – Wildlife Protection Act – Forest Conservation Act – Issues involved in enforcement of environmental legislation – Public awareness.

Course Outcomes: PRINCIPAL Academy

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- · To know about the social issues related to environment and their protection acts.
- To know about the various sources of conservation of natural resources.
- To know about the wild life protection and forest conservation acts.

UNIT-V

Human Population And The Environment: Population growth, variation among nations.
Population explosion – Family Welfare Programmes. – Environment and human health –
Human Rights – Value Education – HIV/AIDS – Women and Child Welfare – Role of information Technology in Environment and human health – Case studies.

Field Work: Visit to a local area to document environmental assets River/forest grassland/hill/mountain – Visit to a local polluted site-Urban/Rural/Industrial/Agricultural Study of common plants, insects, and birds – river, hill slopes, etc..

Unit Outcomes:

- To know about the population explosion and family welfare programmes.
- To identify the natural assets and related case studies.

Course Outcomes:

At the end of the course, the student will be able to

- Grasp multidisciplinary nature of environmental studies and various renewable and nonrenewable resources.
- · Understand flow and bio-geo- chemical cycles and ecological pyramids.
- Understand various causes of pollution and solid waste management and related preventive measures.
- About the rainwater harvesting, watershed management, ozone layer depletion and waste land reclamation.
- Casus of population explosion, value education and welfare programmes.

TEXT BOOKS:

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- Palaniswamy, "Environmental Studies", Pearson education
- 3. S.Azeem Unnisa, "Environmental Studies" Academic Publishing Company
- K.Raghavan Nambiar, "Text book of Environmental Studies for Undergraduate Courses as per UGC model syllabus", Scitech Publications (India), Pvt. Ltd.

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- Deeksha Dave and E.Sai Baba Reddy, "Textbook of Environmental Science", Cengage Publications.
- M.Anji Reddy, "Text book of Environmental Sciences and Technology", BS Publication.
- 3. J.P.Sharma, Comprehensive Environmental studies, Laxmi publications.
- J. Glynn Henry and Gary W. Heinke, "Environmental Sciences and Engineering", Prentice hall of India Private limited
- 5. G.R.Chatwal, "A Text Book of Environmental Studies" Himalaya Pubilishing House
- Gilbert M. Masters and Wendell P. Ela, "Introduction to Environmental Engineering and Science, Prentice hall of India Private limited.

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR LTPC B.Tech (CE)- II-II Sem 3 0 0 3

(19A01406) ENVIRONMENTAL ENGINEERING

Course Objectives:

- To teach requirements of water and its treatment.
- To impart knowledge on sewage treatment methodologies.
- To provide facts on Air pollution and control.
- To enable with design concepts of wastewater treatment UNITs
- To throw light on importance of plumbing.

UNIT I:

Water quality and treatment:

Water quality: Sources of Water and quality issues, water quality requirement for different beneficial uses, Water quality standards, water quality indices, water safety plans, Water Supply systems, Need for planned water supply schemes, Water demand industrial and agricultural water requirements, Components of water supply system; Transmission of water, Distribution system, Various valves used in W/S systems, service reservoirs and design. Water Treatment: aeration, sedimentation, coagulation flocculation, filtration, disinfection, advanced treatments like adsorption, ion exchange, membrane processes

Unit Outcomes

- Understand importance of water quality
- Explain water quality standards
- Plan water supply systems in terms of transmission and distribution
- Categorize different water treatment procedures

UNIT II:

Sewage and Treatment:

Domestic and Storm water, Quantity of Sewage, Sewage flow variations. Conveyance of sewage- Sewers, shapes design parameters, operation and maintenance of sewers, Sewage pumping; Sewerage, Sewer appurtenances, Design of sewerage systems. Small bore systems, Storm Water- Quantification and design of Storm water; Sewage and Sullage, Pollution due to improper disposal of sewage, National River cleaning plans, Wastewater treatment - COD & BOD- aerobic and anaerobic treatment systems, suspended and attached growth systems, recycling of sewage - quality requirements for various purposes.

Unit Outcomes

- Distinguish characteristics of domestic and storm water
- Plan Sewage treatment and disposal methodologies

UNIT III:

Air Pollution;

Composition and properties of air, Quantification of air pollutants, Monitoring of air pollutants, Air pollution- Occupational hazards, Urban air pollution automobile pollution, Chemistry of combustion, Automobile engines, quality of fuel, operating conditions and interrelationship. Air quality standards, Control measures for Air pollution, construction and limitations.

PRINCIPAL Design waste water treatment systems leading to cleaning of weeth Educational Academy

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Unit Outcomes

- Identify causes and types of air pollution
- Understand occupational hazards due to different pollutions
- · Assess air quality parameters
- · Design methodologies to control air pollution

UNIT IV:

Solid Waste Management-

Municipal solid waste-Composition - chemical and physical parameters - Collection, transport, treatment and disposal. waste from commercial establishments and other urban zones-construction activities - biomedical wastes, Effects of solid waste on environment. Disposal of solid waste- Disposal methods- Integrated solid waste management.

Unit Outcomes

- · Segregate different types of municipal wastes
- · Understand stages of handling municipals solid wastes
- · Sewage treatment and disposal methodologies
- Design solid waste disposal leading to integrated solid waste management

UNIT V:

Domestic Plumbing

Types of home plumbing systems for water supply and waste water disposal, high rise building plumbing-Pressure reducing valves, Break pressure tanks, Storage tanks, Building drainage for high rise buildings, various kinds of fixtures and fittings. Role of Government authorities in water supply, sewerage disposal.

Unit Outcomes

- Understand the importance of plumbing.
- · Explain different plumbing techniques

Course Outcomes:

At the end of the course, the student will be able to:

- Understand about quality of water and purification process
- Select appropriate technique for treatment of waste water.
- Assess the impact of air pollution
- Understand consequences of solid waste and its management.

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR

B.Tech (CE)- III-I Sem

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(19A01508)ENVIRONMENTAL ENGINEERING LAB

OBJECTIVE: The object of the course is to enable the students to identify the characteristics of water sample.

LABORATORY EXPERIMENTS

- Determination of pH and Electrical Conductivity (Salinity) of Water and Soil.
- Determination and estimation of Total Hardness-Calcium & Magnesium.
- Determination of Alkalinity/Acidity
- 4. Determination of Chlorides in water and soil
- 5. Determination and Estimation of total solids, organic solids and inorganic solids and settleable solids by Imhoff Cone.
- 6. Determination of Iron.
- Determination of Dissolved Oxygen with D.O. Meter & Wrinklers Method and B.O.D.
- 8.Determination of N, P, K values in solid waste
- Physical parameters Temperature, Colour, Odour, Turbidity, Taste.
- Determination of C.O.D.
- Determination of Optimum coagulant dose.
- Determination of Chlorine demand.
- Presumptive Coliform test.

Course Outcomes:

At the end of the course, the student will be able to:

- Understand about quality of water and purification process
- Select appropriate technique for treatment of waste water.
- Assess the impact of air pollution
- Understand consequences of solid waste and its management.
- Design domestic plumbing systems.

TEXT BOOKS:

1.G. S. Birdi "Water supply and sanitary Engineering", Dhanpat Rai & Sons Publishers.

PRINCIPAL Academy 2.Peavy, H.S, Rowe, D. R. Tchobanoglous, "Environmental Engineering", Mc-Graw -Hill International Editions, New York 1985. Group of Institutions Water & COULD APALLA, TRUPAN (R)-517

REFERENCES:

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B. Tech IV-I Sem. (C.E)

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15A01703 ENVIRONMENTAL ENGINEERING

Course Objective: This subject provides the knowledge of water sources, water treatment, design of distribution system, waste water treatment, and safe disposal methods. The topics of characteristics of waste water, sludge digestion are also included.

UNIT - I

INTRODUCTION: Importance and Necessity of Protected Water Supply systems. Objectives of Protected water supply system, Flow chart of public water supply system, Role of Environmental Engineer.

WATER DEMAND AND QUANTITY STUDIES: Estimation of water demand for a town or city, Types of water demands, Per capita Demand, Factors affecting the Per Capita Demand, Variations in the Demand, Design Period, Factors affecting the Design period, Population Studies, Population Forecasting Studies.

QUALITY AND ANALYSIS OF WATER: Characteristics of water - Physical, Chemical and Biological. Analysis of Water - Physical, Chemical and Biological. Impurities in water, Water borne diseases. Drinking water quality standards.

UNIT - II

WATER TREATMENT: Layout and general outline of water treatment units sedimentation - principles - design factors - coagulation-flocculation clarifier design coagulants - feeding arrangements. Filtration and Chlorination: Filtration - theory working of slow and rapid gravity filters - multimedia filters - design of filters - troubles in operation comparison of filters - disinfection - theory of chlorination, chlorine demand, other disinfection practices- Miscellaneous treatment methods

WATER DISTRIBUTION: Distribution systems - Requirements, Layout of Water distribution systems - Design procedures- Hardy Cross and equivalent pipe methods service reservoirs - joints, valves such as sluice valves, air valves, scour valves and check valves water meters - laying and testing of pipe lines - pump house, waste detection and prevention.

UNIT - III

INTRODUCTION TO SANITATION :systems of sanitation – relative merits & demerits – collection and conveyance of waste water - sewerage - classification of sewerage

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systems- Estimation of sewage flow and storm water drainage – fluctuations – types of sewers – Hydraulics of sewers and storm drains– design of sewers – materials for sewers- appurtenances in sewerage – cleaning and ventilation of sewers.

WASTE WATER COLLECTION AND CHARACTERSTICS: Conservancy and water carriage systems – sewage and storm water estimation – time of concentration – storm water overflows combined flow – characteristics of sewage – cycles of decay – decomposition of sewage, examination of sewage – B.O.D. – C.O.D. equations.

UNIT IV

WASTE WATER TREATMENT: Layout and general out line of various units in a waste water treatment plant – primary treatment: design of screens – grit chambers – skimming tanks – sedimentation tanks – principles of design – biological treatment – trickling filters – standard and high rate – Construction and design of Oxidation ponds.

SLUDGE TREATMENT: Sludge digestion – factors effecting – design of Digestion tank – Sludge disposal by drying – septic tanks and Imhoff Tanks, working principles and design – soak pits.

UNIT - V

SOLID WATE MANAGEMENT: Characteristics, generation, collection and transportation of solid wastes, engineered systems for solid waste management (reuse/recycle, energy recovery, treatment and disposal).

AIR POLLUTION: Types of pollutants, their sources and impacts, air pollution meteorology, air pollution control, air quality standards and limits.

NOISE POLLUTION: Impacts of noise, permissible limits of noise pollution, measurement of noise and control of noise pollution.

TEXT BOOKS:

- Water Supply And Sanitary Engineering By G.S. Birdi, Dhanpat Rai & Sons Publishers.
- Water Supply Engineering, Vol. 1, Waste Water Engineering, Vol. II, B.C.Punmia, Ashok Jain & Arun Jain, Laxmi Publications Pvt.Ltd, New Delhi
- Environmental Engineering By Peavy, TMH Publishers.

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR

B. Tech IV-I Sem. (C.E)

L T P C 0 0 4 2

15A01712 ENVIRONMENTAL ENGINEERING LABORATORY

Course Objective:

The laboratory provides knowledge of estimating various parameters like PH, Chlorides, Sulphates, Nitrates in water. For effective water treatment, the determination of optimum dosage of coagulant and chloride demand are also included. The estimation status of Industrial effluents will also be taught in the laboratory by estimating BOD and COD of effluent.

LIST OF EXPERIMENTS

- 1. Determination of pH and Turbidity
- 2. Determination of Conductivity and Total dissolved solids.
- 3. Determination of Alkalinity/Acidity.
- Determination of Chlorides.
- Determination and Estimation of total solids, organic solids and inorganic solids.
- 6. Determination of iron.
- Determination of Dissolved Oxygen.
- 8. Determination of Nitrogen.
- 9. Determination of total Phosphorous.
- 10. Determination of B.O.D
- 11. Determination of C.O.D
- Determination of Optimum coagulant dose.
- 13. Determination of Chlorine demand.
- 14. Presumptive coliform test.

NOTE: At least 8 of the above experiments are to be conducted.

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR

B. Tech III-II Sem. (CSE)

15A05807 LINUX ENVIRONMENT SYSTEM (CBCC-I)

Course Objectives:

The student should be made to:

- Understand the Multiuser, Multiprocessing, Multitasking, and multiprogramming environment.
- Learn the various flavors and installation types of Linux operating system.
- Experiences the installation and configuration status of Linux system.
- Learn the file system and various commands of Linux environment system.

Course Outcomes:

- · Able to describe and use the LINUX operating system.
- Able to describe and use the fundamental LINUX system tools and utilities.
- · Able to describe and write shell scripts in order to perform basic shell programming.
- Able to describe and understand the LINUX file system.

INTRODUCTION TO LINUX OPERATING SYSTEM: Introduction and Types of Operating Systems, Linux Operating System, Features, Architecture Of Linux OS and Shell Interface, Linux System Calls, Linux Shared Management, Device and Disk Management in Linux, Swap space and its management. File System and Directory Structure in Linux. Multi-Processing, load sharing and Multi-Threading in Linux, Types of Users in Linux, Capabilities of Super Users and equivalents.

UNIT-II

INSTALLING LINUX AS A SERVER : Unux and Unux Distributions ; Major differences between various Operating Systems (on the basis of: Single Users vs. Multiusers vs Network Users; Separation of the GUI and the Kernet; Domains; Active Directory:).

INSTALLING LINUX IN A SERVER CONFIGUARTION : Before Installation; Hardware; Server Design ;Dual-Booting Issues; Modes of Installation; Installing Fedora Linux; Creating a Boot Disk; Starting the Installation; GNOME AND KDE

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: The History of X Windows; The Downside; Enter GNOME; About GNOME; Starting X Windows and GNOME; GNOME Basics; The GNOME Configuration Tool.

HIMIT-III

INSTALLING SOFTWARE: The Fedora Package Manager; Installing a New Package using dpkg and RPM; Querying a Package; Uninstalling a Package using dpkg and RPM; Compiling Software; Getting and Unpacking the Package; Looking for Documentation; Configuring the Package; Compiling Your Package; Installing the Package, Driver Support for various devices in linux.

MANAGING USERS: Home Directories; Passwords; Shells; Stratup Scripts; Malt; User Databases; The / etc /passwd File; The / etc /group File; User Management Tools; Command-Une User Management; User UnuxConf to Manipulate Users and Groups; SetUID and SetGID Programs.

UNIT IV

THE COMMAND LINE: An introduction to BASH, KORN, C, A Shell etc.; BASH commands: Job Control; Environment Variables; Pipes; Redirection; Command-Line Shortcuts; Documentation Tools; The man Command; the text into System; File Listings; Owner ships and permissions; Listing Files; File and Directory Types; Change Ownership; Change Group; Change Mode; File Management and Maniputation; Process Maniputation; Miscellaneous Tools; Various Editors Available like; VI and its modes, Pico, Joe and emacs, , Su Command.

BOOTING AND SHUTTING DOWN: LILO and GRUB; Configuring LILO; Additional LILO options; Adding a New Kernel to Boot; Running LILO; The Steps of Booting: Enabling and disabling Services.

UNIT-V
FILE SYSTEMS: The Makeup File Systems; Managing File Systems; Adding and Partitioning a Disk; Network File Systems; Quota Management;
CORE SYSTEM SERVICES: The init Service; The Inetd and xinetd Processess; The syslogd Daemon; The cron Program.
PRINTING: The Basic of Ipd; Installing LPRng: Configuring /etc/printcap; The /ETC/Ipd_perms File; Clients of Ipd, Interfacing Printer through Operating System.

Text Books:

- Linux Administration: A Beginner's Guide by Steve Shah, Wale Soyinka, ISBN 0072262591 (0-07-226259-1), McGraw-Hill Education.
- Unitx Shell Programming, Yashavant P. Kanetkar, BPB Publications, 2003.
 UNIX Concepts and Applications by Sumitabha Das Tata McGraw-Hill, 2006.

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- P IV Processor, Hard Disk 80 GB, RAM–512 MB Minimum, Speed – 2.8 GHZ
- . T. V, a digital stereo & Camcorder
- Headphones of High quality

6. SUGGESTED SOFTWARE:

The software consisting of the prescribed topics elaborated above should be procured and G

1. Walden Infotech: Advanced English Communication Skills Lab

- 2. K-VAN SOLUTIONS-Advanced English Language Communication Skills lab
- 3. DELTA's key to the Next Generation TOEFL Test: Advanced Skills
- TOEFL & GRE(KAPLAN, AARCO & BARRONS, USA, Cracking GRE by CLIFFS)
- 5. Train2success.com

7. BOOKS RECOMMENDED:

- Objective English for Competitive Exams, Hari Mohana Prasad, 4th edition, Tata Mc Graw Hill.
- Technical Communication by Meenakshi Raman & Sangeeta Sharma, O U Press 3rd Edn. 2015.
- Essay Writing for Exams, Audrone Raskauskiene, Irena Ragaisience & Ramute Zemaitience, OUP, 2016
- Soft Skills for Everyone, Butterfield Jeff, Cengage Publications, 2011.
- Management Shapers Series by Universities Press (India) Pvt Ltd., Himayatnagar, Hyderabad 2008.
- 6. Campus to Corporate, Gangadhar Joshi, Sage Publications, 2015
- Communicative English, E Suresh Kumar & P.Sreehari, Orient Blackswan, 2009.
- English for Success in Competitive Exams, Philip Sunil Solomon OUP, 2015

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SIDDARTHA EDUCATIONAL ACADEMY GROUP OF INSTITUTIONS

(An Integrated Campus for Engineering & MBA)

Approved by AICTE, New Delhi & Affiliated to JNTUA, Ananthapuramu, AP.

Near C. Gollapalli, Tirupati – 517 505, Andhra Pradesh

1.3.1 Institution Integrates cross cutting issues relevant to professional Ethics, Gender, Human values, Environment and Sustainability (2019-20)

Cross cutting issue	Regulation	Course code	Name of the Course	Year of study	Academic year
Human values and Professional Ethics	R19	19A52101T	Communicative English -1	I.I (CIVIL,EEE,ECE)	2019-20
	R19	19A52101P	Communicative English Lab	I.I (CIVIL,EEE,ECE)	2019-20
	R15	15A99501	Social Values and Ethics	III.I (CSE)	2019-20
	R19	19A52101T	Communicative English -1	I.II (CSE,ME)	2019-20
	R19	19A52101P	Communicative English Lab	I.II (CSE,ME)	2019-20
	R15	15A52602	AELCS Lab	III.II (Common to All)	2019-20
	R17	17D20301	Research Methodology	M.Tech II-I (ES&DECS)	2019-20
	R17	17D20302	Human values and Professional Ethics	M.Tech(II-I SE,CSE)	2019-20
Environment and Sustainability	R15	15A01703	Environmental Engineering	IV.I (CIVIL)	2019-20
	R15	15A01712	Environmental Engineering Lab	IV.I (CIVIL)	2019-20
	R15	15A05607	Linux Environment System	III.II (CSE)	2019-20

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR

B.Tech - I/II Sem

L T P C 2 0 0 2

(19A52101T) Communicative English I (Common to All Branches of Engineering)

Introduction

The course is designed to train students in receptive (listening and reading) as well as productive and interactive (speaking and writing) skills by incorporating a comprehensive, coherent and integrated approach that improves the learners' ability to effectively use English language in academic/ workplace contexts. The shift is from learning about the language to using the language. On successful completion of the compulsory English language course/s in B.Tech., learners would be confident of appearing for international language. alification/proficiency tests such as IELTS, TOEFL, or BEC, besides being able to express themselves clearly in speech and competently handle the writing tasks and verbal ability component of campus placement tests. Activity based teaching-learning methods would be adopted to ensure that learners would engage in actual use of language both in the classroom and laboratory sessions.

Course Objectives

Facilitate effective listening skills for better comprehension of academic lectures and English spoken by native speakers

Focus on appropriate reading strategies for comprehension of various academic texts and authentic materials

Help improve speaking skills through participation in activities such as role plays, discussions and structured talks/oral presentations

Impart effective strategies for good writing and demonstrate use same in summarizing, writing well organized essays, record and report useful information

Provide knowledge of grammatical structures and vocabulary and encourage their appropriate use in speech and writing

Unit 1

Listening: Identifying the topic, the context and specific pieces of information by listening to short audio texts and answering a series of questions. Speaking: Asking and answering general questions on familiar topics such as home, family, work, studies and interests; introducing oneself and others. Reading: Skimming to get the main idea of a text; scanning to look for specific pieces of information. Reading for Writing: Beginnings and endings of paragraphs - introducing the topic, summarizing the main idea and/or providing a transition to the next paragraph. Grammar and Vocabulary: Content words and function and significant verbs, nouns, adjectives and adverbs; nouns: countables and uncountables; singular and plural; basic sentence structures; simple question form - wh-questions; word order in sentences.

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Learning Outcomes

At the end of the module, the learners will be able to

- understand social or transactional dialogues spoken by native speakers of English and identify the context, topic, and pieces of specific information
- > ask and answer general questions on familiar topics and introduce oneself/others
- employ suitable strategies for skimming and scanning to get the general idea of a text and locate specific information
- recognize paragraph structure and be able to match beginnings/endings/headings with paragraphs
- > form sentences using proper grammatical structures and correct word forms

Unit 2

Listening: Answering a series of questions about main idea and supporting ideas after listening to audio texts. Speaking: Discussion in pairs/small groups on specific topics followed by short structured talks.Reading: Identifying sequence of ideas; recognizing verbal techniques that help to link the ideas in a paragraph together. Writing: Paragraph writing (specific topics) using suitable cohesive devices; mechanics of writing - punctuation, capital letters. Grammar and Vocabulary: Cohesive devices - linkers, sign posts and transition signals; use of articles and zero article; prepositions.

Learning Outcomes

At the end of the module, the learners will be able to

- > comprehend short talks on general topics
- participate in informal discussions and speak clearly on a specific topic using suitable discourse markers
- > understand the use of cohesive devices for better reading comprehension
- write well structured paragraphs on specific topics
- > identify basic errors of grammar/ usage and make necessary corrections in short texts

Unit 3

Listening: Listening for global comprehension and summarizing what is listened to. Speaking: Discussing specific topics in pairs or small groups and reporting what is discussed Reading: Reading a text in detail by making basic inferences -recognizing and interpreting specific context clues; strategies to use text clues for comprehension. Writing: Summarizing - identifying main idea/s and rephrasing what is read; avoiding redundancies and repetitions. Grammar and Vocabulary: Verbs - tenses; subject-verb agreement; direct and indirect speech, reporting verbs for academic purposes.

Learning Outcomes

At the end of the module, the learners will be able to

- > comprehend short talks and summarize the content with clarity and precision
- participate in informal discussions and report what is discussed
- infer meanings of unfamiliar words using contextual clues
- write summaries based on global comprehension of reading/listening texts
- use correct tense forms, appropriate structures and a range of reporting verbs in speech and writing

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Listening: Making predictions while listening to conversations/ transactional dialogues without video; listening with video. Speaking: Role plays for practice of conversational English in academic contexts (formal and informal) - asking for and giving information/directions. Reading:Studying the use of graphic elements in texts to convey information, reveal trends/patterns/relationships, communicate processes or display complicated data. Writing: Information transfer, describe, compare, contrast, identify significance/trendsbased on information provided in figures/charts/graphs/tables.Grammar and Vocabulary:Quantifying expressions - adjectives and adverbs; comparing and contrasting; degrees of comparison; use of antonyms

Learning Outcomes

At the end of the module, the learners will be able to

- infer and predict about content of spoken discourse
- > understand verbal and non-verbal features of communication and hold formal/informal conversations
- interpret graphic elements used in academic texts
- produce a coherent paragraph interpreting a figure/graph/chart/table
- use language appropriate for description and interpretation of graphical elements

Unit 5

Listening: Identifying key terms, understanding concepts and answering a series of relevant questions that test comprehension. Speaking: Formal oral presentations on topics from academic contexts - without the use of PPT slides. Reading: Reading for comprehension. Writing: Writing structured essays on specific topics using suitable claims and evidencesGrammar and Vocabulary: Editing short texts -identifying and correcting common errors in grammar and usage (articles, prepositions, tenses, subject verb agreement)

Learning Outcomes

At the end of the module, the learners will be able to

- > take notes while listening to a talk/lecture and make use of them to answer questions
- make formal oral presentations using effective strategies
- comprehend, discuss and respond to academic texts orally and in writing
- produce a well-organized essay with adequate support and detail
- edit short texts by correcting common errors

Text Book

 English all round: Communication Skills for Undegurdation Learners Vol. I, Orient BlackSwan Publisers, First Edition 2019.

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B.Tech - I/II Sem

L T P C

(19A52101P) Communicative English I Lab (Common to All Branches of Engineering)

Course Objectives

> students will be exposed to a variety of self instructional, learner friendly modes of language learning

students will cultivate the habit of reading passages from the computer monitor. Thus providing them with the required facility to face computer based competitive exams like GRE, TOEFL, and GMAT etc.

> students will learn better pronunciation through stress, intonation and rhythm

students will be trained to use language effectively to face interviews, group discussions, public speaking

students will be initiated into greater use of the computer in resume preparation, report writing, format making etc

Course Outcomes

 CO1: Remember and understand the different aspects of the English language proficiency with emphasis on LSRW skills

CO2: Apply communication skills through various language learning activities

CO3: Analyze the English speech sounds, stress, rhythm, intonation and syllable division for better listening and speaking comprehension.

 CO4: Evaluate and exhibit acceptable etiquette essential in social and professional settings

CO5: Create awareness on mother tongue influence and neutralize it in order to improve fluency in spoken English.

Unit 1

1. Phonetics for listening comprehension of various accents

Reading comprehension

Describing objects/places/persons

Learning Outcomes

At the end of the module, the learners will be able to

understand different accents spoken by native speakers of English

employ suitable strategies for skimming and scanning on monitor to get the general idea of a text and locate specific information

learn different professional registers and specific vocabulary to describe different persons, places and objects

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR

B. Tech III-I Sem. (CSE)

L T P C 2 0 2 0

15A99501

SOCIAL VALUES & ETHICS (AUDIT COURSE) (Common to all Branches)

UNIT -1

Introduction and Basic Concepts of Society: Family and Society: Concept of family, community, PRIs and other community based organizations and society, growing up in the family – dynamics and impact, Human values, Gender Justice.

Channels of Youth Moments for National Building: NSS & NCC: History, philosophy, aims & objectives; Emblems, flags, motios, songs, badge etc.; Organizational structure, roles and responsibilities of various NSS functionaries. Nehru Yuva Kendra (NYK): Activities – Socio Cultural and Sports.

UNIT-II

Activities of NSS, NCC, NYK:

Citizenship: Basic Features Constitution of India, Fundamental Rights and Fundamental Duties, Human Rights, Consumer awareness and the legal rights of the consumer, RTI.

Youth and Crime: Sociological and psychological Factors influencing youth crime, Peer Mentoring in preventing crimes, Awareness about Anti-Ragging, Cyber Crime and its prevention, Juvenile Justice

Social Harmony and National Integration: Indian history and culture, Role of youth in peace-building and conflict resolution, Role of youth in Nation building.

UNIT-III

Environment Issues: Environment conservation, enrichment and Sustainability, Climate change. Waste management, Natural resource management (Rain water harvesting, energy conservation, waste land development, soil conservations and afforestation).

Health, Hygiene & Sanitation: Definition, needs and scope of health education, Food and Nutrition, Safe drinking water, Sanitation, Swachh Bharat Abhiyan.

Disaster Management: Introduction to Disaster Management, classification of disasters, Role of youth in Disaster Management. Home Nursing, First Aid.

Civit/ Self Defense: Civil defense services, aims and objectives of civil defense, Need for self defense training — Teakwondo, Judo, karate etc.,

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UNIT - IV

Gender Sensitization: Understanding Gender – Gender inequality – Role of Family, Society and State; Challenges – Declining Sex Ratio – Sexual Harassment – Domestic Violence; Gender Equality – Initiatives of Government – Schemes, Law; Initiates of NGOs – Awareness, Movements;

UNIT - V

Physical Education: Games & Sports: Health and Recreation — Biological basis of Physical activity — benefiets of exercise — Physical, Psychological, Social; Physiology of Musucular Activity, Respiration, Blood Circulation. Yoga: Basics of Yoga — Yoga Protocol, Postures, Asanas, Pranayama: Introduction of

Kriyas, Bandhas and Mudras.

TEXT BOOKS:

- 1. NSS MANUAL
- SOCIETY AND ENVIRONMENT: A.S. Chauha, Jain Brothers Publications, 6th Edition, 2006
- 3. INDIAN SOCIAL PROBLEM: G.R.Madan, Asian Publisher House
- 4. INDIAN SOCIAL PROBLEM: Ram Ahuja, Rawat Publications
- 5. HUMAN SOCIETY: Kingsley Davis, Macmilian
- 6. SOCIETY: Mac Iver D Page, Macmillan
- SOCIOLOGY THEMES AND PERSPECTIVES: Michael Honalambos, Oxford University Press
- 8. CONSTITUTION OF INDIA: D.D.Basu, Lexis Nexis Butterworth Publishers
- 9. National Youth Policy 2014 (available on www.yas.nic.in)
- 10.TOWARS A WORLD OF EQUALS: A.Suneetha, Uma Bhrugudanda, Duggirala Vasantha, Rama Melkote, Vasudha Nagraj, Asma Rasheed, Gogu Shyamala, Deepa Streenivas and Susie Tharu
- 11. LIGHT ON YOGA: B.K.S.lyengar, Penguin Random House Publishers

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www.india.gov.in

www.yas.nlc.in

http://www.who.int/countries/ind/en/

http://www.ndma.gov.in

http://ayush.gov.in/event/common-yoga-protocol-2016-0

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR

B. Tech III-II Sem. (C.E)

LTPC

15A52602

ADVANCED ENGLISH LANGUAGE COMMUNICATION SKILLS (AELCS) LAB (Audit Course)

1. INTRODUCTION

With increased globalization and rapidly changing industry expectations, employers are looking for the wide cluster of skills to cater to the changing demand. The introduction of the Advanced Communication Skills Lab is considered essential at 3rd year level. At this stage, the students need to prepare themselves for their careers which may require them to listen to, read, speak and write in English both for their professional and interpersonal communication in the globalised context.

The proposed course should be a laboratory course to enable students to use 'good' English and perform the following:

- Gathering ideas and information and to organise ideas relevantly and coherently.
- Engaging in debates.
- · Participating in group discussions.
- · Facing interviews.
- Writing project/research reports/technical reports.
- · Making oral presentations.
- Taking part in social and professional communication.

OBJECTIVES:

This Lab focuses on using multi-media instruction for language development to meet the following targets:

- To improve the students' fluency in English, through a well-developed vocabulary and enable them to listen to English spoken at normal conversational speed by educated English speakers and respond appropriately in different socio-cultural and professional contexts.
- Further, they would be required to communicate their ideas relevantly and coherently in writing.
- To prepare all the students for their placements.

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3. SYLLABUS:

The following course content to conduct the activities is prescribed for the Advanced English Communication Skills (AECS) Lab:

UNIT-I: COMMUNICATION SKILLS

- Reading Comprehension
- Listening comprehension
- Vocabulary Development
- Common Errors

UNIT-II: WRITING SKILLS

- Report writing
- 2. Resume Preparation
- E-mail Writing

UNIT-III: PRESENTATION SKILLS

- Oral presentation
- Power point presentation
- Poster presentation

UNIT-IV: GETTING READY FOR JOB

- Debates
- Group discussions
- Job Interviews

UNIT-V: INTERPERSONAL SKILLS

- Time Management
- 2. Problem Solving & Decision Making
- Etiquettes

4. LEARNING OUTCOMES:

- · Accomplishment of sound vocabulary and its proper use contextually
- · Flair in Writing and felicity in written expression.
- Enhanced job prospects.
- Effective Speaking Abilities

5. MINIMUM REQUIREMENT:

The Advanced English Communication Skills (AECS) Laboratory shall have the following infra-structural facilities to accommodate at least 60 students in the lab:

- Spacious room with appropriate acoustics.
- Round Tables with movable chairs
- Audio-visual aids
- LCD Projector
- Public Address system

- P IV Processor, Hard Disk 80 GB, RAM–512 MB Minimum, Speed – 2.8 GHZ
- T. V, a digital stereo & Camcorder
- Headphones of High quality

6. SUGGESTED SOFTWARE:

The software consisting of the prescribed topics elaborated above should be procured and G

- 1. Walden Infotech: Advanced English Communication Skills Lab
- 2. K-VAN SOLUTIONS-Advanced English Language Communication Skills lab
- DELTA's key to the Next Generation TOEFL Test: Advanced Skills Practice.
- TOEFL & GRE(KAPLAN, AARCO & BARRONS, USA, Cracking GRE by CLIFFS)
- 5. Train2success.com

7. BOOKS RECOMMENDED:

- Objective English for Competitive Exams, Hari Mohana Prasad, 4th edition, Tata Mc Graw Hill.
- Technical Communication by Meenakshi Raman & Sangeeta Sharma, O U Press 3rd Edn. 2015.
- Essay Writing for Exams, Audrone Raskauskiene, Irena Ragaisience & Ramute Zemaitience, OUP, 2016
- 4. Soft Skills for Everyone, Butterfield Jeff, Cengage Publications, 2011.
- Management Shapers Series by Universities Press (India) Pvt Ltd., Himayatnagar, Hyderabad 2008.
- 6. Campus to Corporate, Gangadhar Joshi, Sage Publications, 2015
- Communicative English, E Suresh Kumar & P.Sreehari, Orient Blackswan, 2009.
- English for Success in Competitive Exams, Philip Sunil Solomon OUP, 2015

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(17D20301) RESEARCH METHODOLOGY (Elective V-OPEN ELECTIVE)

UNIT I

Meaning of Research – Objectives of Research – Types of Research – Research Approaches – Guidelines for Selecting and Defining a Research Problem – research Design – Concepts related to Research Design – Basic Principles of Experimental Design.

UNIT II

Sampling Design – steps in Sampling Design – Characteristics of a Good Sample Design – Random Sampling Design.

Measurement and Scaling Techniques-Errors in Measurement – Tests of Sound Measurement – Scaling and Scale Construction Techniques – Time Series Analysis – Interpolation and Extrapolation.

Data Collection Methods – Primary Data – Secondary data – Questionnaire Survey and Interviews.

UNIT III

Correlation and Regression Analysis – Method of Least Squares – Regression vs Correlation – Correlation vs Determination – Types of Correlations and Their Applications

UNIT IV

Statistical Inference: Tests of Hypothesis – Parametric vs Non-parametric Tests – Hypothesis Testing Procedure – Sampling Theory – Sampling Distribution – Chi-square Test – Analysis of variance and Co-variance – Multi-variate Analysis.

UNIT V

Report Writing and Professional Ethics: Interpretation of Data – Report Writing – Layout of a Research Paper – Techniques of Interpretation- Making Scientific Presentations in Conferences and Seminars – Professional Ethics in Research.

Text Books:

Research Methodology:Methods And Techniques - C.R.Kothari, 2nd Edition,New Age International Publishers.

Research Methodology: A Step By Step Guide For Beginners- Ranjit Kumar, Sage Publications (Available As Pdf On Internet)

Research Methodology And Statistical Tools – P.Narayana Reddy And G.V.R.K.Acharyulu, 1st Edition, Excel Books, New Delhi.

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR M.Tech III semester (SE)

L T P C

(17D20302) HUMAN VALUES AND PROFESSIONAL ETHICS (Elective V-OPEN ELECTIVE)

Unit I:

HUMAN VALUES:Morals, Values and Ethics-Integrity-Work Ethic-Service learning – Civic Virtue – Respect for others – Living Peacefully – Caring – Sharing – Honesty -Courage- Co Operation – Commitment – Empathy –Self Confidence Character – Spirituality.

Unit II:

ENGINEERING ETHICS: Senses of Engineering Ethics- Variety of moral issues – Types of inquiry – Moral dilemmas – Moral autonomy –Kohlberg''s theory- Gilligan''s theory- Consensus and controversy – Models of professional roles- Theories about right action- Self interest - Customs and religion –Uses of Ethical theories – Valuing time –Co operation – Commitment.

Unit III:

ENGINEERING AS SOCIAL EXPERIMENTATION: Engineering As Social Experimentation – Framing the problem – Determining the facts – Codes of Ethics – Clarifying Concepts – Application issues – Common Ground - General Principles – Utilitarian thinking respect for persons.

UNIT IV:

ENGINEERS RESPONSIBILITY FOR SAFETY AND RISK: Safety and risk –
Assessment of safety and risk – Risk benefit analysis and reducing riskSafety and the
Engineer- Designing for the safety- Intellectual Property rights(IPR).

UINIT V:

GLOBAL ISSUES: Globalization – Cross culture issues- Environmental Ethics –
Computer Ethics – Computers as the instrument of Unethical behavior – Computers as the object of Unethical acts – Autonomous Computers- Computer codes of Ethics – Weapons Development - Ethics .

Text Books:

 "Engineering Ethics includes Human Values" by M.Govindarajan, S.Natarajan and V.S.SenthilKumar-PHI Learning Pvt. Ltd-2009.

"Engineering Ethics" by Harris, Pritchard and Rabins, CENGAGE Learning, India Edition, 2009.

3. "Ethics in Engineering" by Mike W. Martin and Roland Schinzinger - Tata McGrawHill- 2003.

 "Professional Ethics and Morals" by Prof.A.R.Aryasri, Dharanikota Suyodhana-Maruthi Publications.

"Professional Ethics and Human Values" by A.Alavudeen, R.Kalil Rahman and M.Jayakumaran , Laxmi Publications.

B. Tech IV-I Sem. (C.E)

3

R15

ENVIRONMENTAL ENGINEERING 15A01703

Course Objective: This subject provides the knowledge of water sources, water treatment, design of distribution system, waste water treatment, and safe disposal methods. The topics of characteristics of waste water, sludge digestion are also included.

UNIT - I

INTRODUCTION: Importance and Necessity of Protected Water Supply systems, Objectives of Protected water supply system, Flow chart of public water supply system, Role of Environmental Engineer.

WATER DEMAND AND QUANTITY STUDIES: Estimation of water demand for a town or city, Types of water demands, Per capita Demand, Factors affecting the Per Capita Demand, Variations in the Demand, Design Period, Factors affecting the Design period, Population Studies, Population Forecasting Studies.

QUALITY AND ANALYSIS OF WATER: Characteristics of water - Physical, Chemical and Biological. Analysis of Water - Physical, Chemical and Biological. Impurities in water, Water borne diseases. Drinking water quality standards.

UNIT - II

WATER TREATMENT: Layout and general outline of water treatment units sedimentation - principles - design factors - coagulation-flocculation clarifier design coagulants - feeding arrangements. Filtration and Chlorination: Filtration - theory working of slow and rapid gravity filters - multimedia filters - design of filters - troubles in operation comparison of filters - disinfection - theory of chlorination, chlorine demand, other disinfection practices- Miscellaneous treatment methods

WATER DISTRIBUTION: Distribution systems - Requirements, Layout of Water distribution systems - Design procedures- Hardy Cross and equivalent pipe methods service reservoirs - joints, valves such as sluice valves, air valves, scour valves and check valves water meters - laying and testing of pipe lines - pump house, waster Siddartha Educational Aca Group of institutions detection and prevention. APALLI, Tirupati (R)-517 505

UNIT - III

INTRODUCTION TO SANITATION :systems of sanitation - relative merits & demerits collection and conveyance of waste water - sewerage - classification of sewerage

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systems- Estimation of sewage flow and storm water drainage – fluctuations – types of sewers – Hydraulics of sewers and storm drains– design of sewers – materials for sewers- appurtenances in sewerage – cleaning and ventilation of sewers .

WASTE WATER COLLECTION AND CHARACTERSTICS: Conservancy and water carriage systems – sewage and storm water estimation – time of concentration – storm water overflows combined flow – characteristics of sewage – cycles of decay – decomposition of sewage, examination of sewage – B.O.D. – C.O.D. equations.

UNIT IV

WASTE WATER TREATMENT: Layout and general out line of various units in a waste water treatment plant – primary treatment: design of screens – grit chambers – skimming tanks – sedimentation tanks – principles of design – biological treatment – trickling filters – standard and high rate – Construction and design of Oxidation ponds.

SLUDGE TREATMENT: Sludge digestion – factors effecting – design of Digestion tank – Sludge disposal by drying – septic tanks and Imhoff Tanks, working principles and design – soak pits.

UNIT - V

SOLID WATE MANAGEMENT: Characteristics, generation, collection and transportation of solid wastes, engineered systems for solid waste management (reuse/recycle, energy recovery, treatment and disposal).

AIR POLLUTION: Types of pollutants, their sources and impacts, air pollution meteorology, air pollution control, air quality standards and limits.

NOISE POLLUTION: Impacts of noise, permissible limits of noise pollution, measurement of noise and control of noise pollution.

TEXT BOOKS:

- Water Supply And Sanitary Engineering By G.S. Birdi, Dhanpat Rai & Sons Publishers.
- Water Supply Engineering, Vol. 1, Waste Water Engineering, Vol. II, B.C.Punmia, Ashok Jain & Arun Jain, Laxmi Publications Pvt.Ltd, New Delhi
- Environmental Engineering By Peavy, TMH Publishers.

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B. Tech IV-I Sem. (C.E)

L T P C

R15

15A01712 ENVIRONMENTAL ENGINEERING LABORATORY

Course Objective:

The laboratory provides knowledge of estimating various parameters like PH, Chlorides, Sulphates, Nitrates in water. For effective water treatment, the determination of optimum dosage of coagulant and chloride demand are also included. The estimation status of Industrial effluents will also be taught in the laboratory by estimating BOD and COD of effluent.

LIST OF EXPERIMENTS

- Determination of pH and Turbidity
- Determination of Conductivity and Total dissolved solids.
- Determination of Alkalinity/Acidity.
- Determination of Chlorides.
- Determination and Estimation of total solids, organic solids and inorganic solids.
- Determination of iron.
- Determination of Dissolved Oxygen.
- 8. Determination of Nitrogen.
- 9. Determination of total Phosphorous.
- 10. Determination of B.O.D
- Determination of C.O.D.
- Determination of Optimum coagulant dose.
- 13. Determination of Chlorine demand.
- 14. Presumptive coliform test.

NOTE: At least 8 of the above experiments are to be conducted.

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR

B. Tech III-II Sem. (CSE)

L T P C

15A05607 LINUX ENVIRONMENT SYSTEM (CBCC-I)

Course Objectives:

The student should be made to:

- Understand the Multiuser, Multiprocessing, Multitasking, and multiprogramming environment.
- Learn the various flavors and installation types of Linux operating system.
- · Experiences the installation and configuration status of Linux system.
- Learn the file system and various commands of Linux environment system.

Course Outcomes:

- · Able to describe and use the LINUX operating system.
- Able to describe and use the fundamental LINUX system tools and utilities.
- Able to describe and write shell scripts in order to perform basic shell programming.
- · Able to describe and understand the LINUX file system.

UNIT-1
INTRODUCTION TO LINUX OPERATING SYSTEM: Introduction and Types of Operating Systems, Linux Operating System, Features, Architecture Of Linux OS and Shell Interface, Linux System Calls, Linux Shared Memory Management, Device and Disk Management in Linux, Swap space and its management. File System and Directory Structure in Linux, Multi-Processing, load sharing and Multi-Threading in Linux, Types of Users in Linux, Capabilities of Super Users and equivalents.

UNIT -II
INSTALLING LINUX AS A SERVER: Linux and Linux Distributions;
Major differences between various Operating Systems (on the basis of: Single Users vs
Multiusers vs Network Users; Separation of the GUI and the Kernel; Domains; Active
Directory.).

INSTALLING LINUX IN A SERVER CONFIGUARTION: Before Installation; Hardware; Server Design ;Dual-Booting Issues; Modes of Installation; Installing Fedora Linux; Creating a Boot Disk; Starting the Installation; GNOME AND KDE

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: The History of X Windows; The Downside; Enter GNOME; About GNOME; Starting X Windows and GNOME; GNOME Basics; The GNOME Configuration Tool.

UNIT-III

INSTALLING SOFTWARE: The Fedora Package Manager: Installing a New Package using dpkg and RPM; Querying a Package; Uninstalling a Package RPM; Compiling Software; Getting and Unpacking the and Package; Looking for Documentation; Configuring the Package; Compiling Your Package; Installing the Package, Driver Support for various devices in linux. MANAGING USERS: Home Directories ; Passwords; Shells; Stratup Scripts; Mail; User Databases; The / etc /passwd File; The / etc / shadow File; The / etc /group File; User Management Tools; Command-Line User Management; User LinuxConf to Manipulate Users and Groups; SetUID and SetGID Programs.

UNIT IV

THE COMMAND LINE: An Introduction to BASH, KORN, C, A Shell etc.; BASH commands: Job Control: Environment Variables: Pipes: Redirection; Command-Line Shortcuts: Documentation Tools: The man Command; the text into System; File Listings; Owner ships and permissions; Listing Files; File and Directory Types; Change Ownership; Change Group; Change Mode ; File Management and Manipulation; Process Manipulation; Miscellaneous Tools; Various Editors Available like: VI and its modes, Pico, Joe and emacs, , Su Command.

AND SHUTTING DOWN: LILO and GRUB; Configuring LILO; Additional LILO options; Adding a New Kernel to Boot; Running LILO; The Steps of Booting; Enabling and disabling Services.

UNIT-V

FILE SYSTEMS: The Makeup File Systems; Managing File Systems; Adding and Partitioning a Disk; Network File Systems; Quota Management; CORE SYSTEM SERVICES: The Init Service; The Inetd and xinetd Processess; The syslogd Daemon; The cron Program. PRINTING: The Basic of lpd; Installing LPRng; Configuring /etc/printcap; The /ETC/lpd.perms File; Clients of lpd, Interlacing Printer through Operating System.

Text Books:

- Linux Administration: A Beginner's Guide by Steve Shah, Wale Soyinka, ISBN 0072262591 (0-07-226259-1), McGraw-Hill Education.
- Unix Shell Programming, Yashavant P. Kanetkar, BPB Publications, 2003.
- UNIX Concepts and Applications by Sumitabha Das Tata McGraw-Hill, 2006.

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SIDDARTHA EDUCATIONAL ACADEMY GROUP OF INSTITUTIONS

(An Integrated Campus for Engineering & MBA)

Approved by AICTE, New Delhi & Affiliated to JNTUA, Ananthapuramu, AP. Near C. Gollapalli, Tirupati - 517 505, Andhra Pradesh

1.3.1 Institution Integrates cross cutting issues relevant to professional Ethics, Gender, Human values, Environment and Sustainability (2018-19)

Cross cutting issue	Regulation	Course code	Name of the Course	Year of study	Academic year
Human values and Professional Ethics	R15	15A52102	ELCS LAB	I.I (Common to All)	2018-19
	R15	15A52201	EPC	I.II (Common to All)	2018-19
	R15	15A03505	Entrepreneurship	III.I (ME)	2018-19
	R15	15A99501	Social Values and Ethics	III.I (ME, ECE,CSE)	2018-19
	R15	15A52602	AELCS Lab	III.II (Common to All)	2018-19
	R17	17D20301	Research Methodology	M.Tech II-I (ES&DECS)	2018-19
	R17	17D20302	Human values and Professional Ethics	M.Tech(II-I SE,CSE)	2018-19
Environment and Sustainability	R15	15A01101	Environment Studies	I.I (ME, ECE)	2018-19
	R15	15A01101	Environment Studies	I.II (CIVIL,EEE, CSE)	2018-19
	R15	15A01607	Disaster Management and mitigation	III.II (CIVIL)	2018-19
	R15	15A05607	Linux Environment System	III.II (CSE)	2018-19
	R15	15A01703	Environmental Engineering	IV.I (CIVIL)	2018-19
	R15	15A01712	Environmental Engineering Lab	IV.I (CIVIL)	2018-19

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR ANANTHAPURAMU

I B. Tech. I - Semester

P C

(15A52102) ENGLISH LANGUAGE COMMUNICATION SKILLS (ELCS) LAB (Common to All Branches)

The Language Lab focuses on the production and practice of sounds of language and familiarizes the students with the use of English in everyday situations and contexts.

Objectives:

- To enable students to learn better pronunciation through stress on word accent, intonation, and rhythm.
- To help the second language learners to acquire fluency in spoken English and neutralize mother tongue influence
- To train students to use language appropriately for interviews, group discussion and public speaking

UNIT-1

- 1. Phonetics -importance
- 2. Introduction to Sounds of Speech
- 3. Vowels and consonants sounds
- 4. Phonetic Transcription

UNIT - II

- Word Stress
- 6. Syllabification
- 7. Rules of word stress
- 8. Intonation

UNIT - III

- 9. Situational Dialogues
- 10. Role Plays
- 11. JAM
- 12. Describing people/objects/places

UNIT - IV

- 13. Debates
- 14. Group Discussions
- 15. Interview skills

UNIT - V

- 16. Video speech writing
- 17. Book reviews -oral and written

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Minimum Requirements for ELCS Lab:

The English Language Lab shall have two parts:

- Computer Assisted Language Learning (CALL) Lab: The Computer aided Language Lab for 60 students with 60 systems, one master console, LAN facility and English language software for selfstudy by learners.
- The Communication Skills Lab with movable chairs and audio-visual aids with a P.A. system, Projector, a digital stereo-audio & video system and camcorder etc.

System Requirement (Hardware component):

Computer network with LAN with minimum 60 multimedia systems with the following specifications:

- P IV Processor
 - a) Speed 2.8 GHZ
 - b) RAM 512 MB Minimum
 - c) Hard Disk 80 GB
- ii) Headphones of High quality

Suggested Software:

- 1. Clarity Pronunciation Power Part I (Sky Pronunciation)
- 2. Clarity Pronunciation Power part II
- 3. K-Van Advanced Communication Skills
- 4. Walden InfoTech Software.

References:

- A Textbook of English Phonetics for Indian Students 2nd Ed T. Balasubramanian. (Macmillian),2012.
- 2. A Course in Phonetics and Spoken English, Dhamija Sethi, Prentice-Hall of India Pvt.Ltd
- Speaking English Effectively, 2nd Edition Krishna Mohan & NP Singh, 2011. (Mcmillan).
- 4. A Hand book for English Laboratories, E.Suresh Kumar, P.Sreehari, Foundation Books, 2011
- Spring Board Succes, Sharada Kouhik, Bindu Bajwa, Orient Blackswan, Hyderbad, 2010.

Outcomes:

- Become active participants in the learning process and acquire proficiency in spoken English.
- Speak with clarity and confidence thereby enhance employability skills.



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B.Tech. 1 - II Sem. (CSE)

Tu C 3 1 :

(15A52201) ENGLISH FOR PROFESSIONAL COMMUNICATION

1. INTRODUCTION:

English is a global language and has international appeal and application. It is widely used in a variety of contexts and for varied purposes. The students would find it useful both for social and professional development. There is every need to help the students acquire skills useful to them in their career as well as workplace. They need to write a variety of documents and letters now extending into professional domain that cuts across business and research also. The syllabus has been designed to enhance communication skills of the students of engineering and pharmacy. The prescribed book serves the purpose of preparing them for everyday communication and to face the global competitions in future.

The text prescribed for detailed study focuses on LSRW skills and vocabulary development. The teachers should encourage the students to use the target language. The classes should be interactive and learner-centered. They should be encouraged to participate in the classroom activities keenly.

In addition to the exercises from the text done in the class, the teacher can bring variety by using authentic materials such as newspaper articles, advertisements, promotional material etc.

2. OBJECTIVES:

- To develop confidence in the students to use English in everyday situations.
- To enable the students to read different discourses so that they appreciate English for science and technologies.
- 3. To improve familiarity with a variety of technical writings.
- To enable the students to acquire structure and written expressions required for their profession.
- To develop the listening skills of the students.

3. SYLLABUS:

UNIT -I

Topics: Group discussion, cause and effect, events and perspectives, debate, if conditional, essay writing.

Text: LESSONS FROM THE PAST from MINDSCAPES

Importance of History - Differing Perspectives - Modern Corporatism - Lessons From The Past

UNIT-II

Topics: Idioms, essay writing, power point presentation, modals, listening and rewriting, preparing summary, debate, group discussion, role play, writing a book review, conversation

Text: 'ENERGY' from MINDSCAPES

Renewable and Non-Renewable Sources - Alternative Sources - Conservation - Nuclear

Energy

UNIT-III

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Topics: Vocabulary, impromptu speech, creative writing, direct and indirect speech, fixed expressions, developing creative writing skills, accents, presentation skills, making posters, report writing

Text: 'ENGINEERING ETHICS' from MINDSCAPES

Challenger Disaster - Biotechnology - Genetic Engineering - Protection From Natural Calamities

UNIT-IV

Topics: Vocabulary, Conversation, Collocation, Group discussion, Note-making, Clauses, Interpreting charts and tables, Report writing.

Text: 'TRAVEL AND TOURISM' from MINDSCAPES

Advantages and Disadvantages of Travel - Tourism - Atithi Devo Bhava - Tourism in India

UNIT-V

Topics: Vocabulary, phrasal verbs, writing a profile, connectives, discourse markers, problem-solving, telephone skills, application letters, curriculum vitae, interviews (telephone and personal)

Text: 'GETTING JOB-READY' from MINDSCAPES

SWOT Analysis - Companies And Ways Of Powering Growth - Preparing For Interviews

Prescribed Text

MINDSCAPES: English for Technologists and Engineers, Orient Blackswan, 2014.

REFERENCES:

- 1. Effective Tech Communication, Rizvi, Tata McGraw-Hill Education, 2007.
- Technical Communication, Meenakshi Raman, Oxford University Press.
- English Conversations Preatice, Grant Taylor, Tata Mc GrawHill publications, 2013.
- 4.Practical English Grammar. Thomson and Martinet, OUP, 2010.

Expected Outcomes:

At the end of the course, students would be expected to:

- 1. Have acquired ability to participate effectively in group discussions.
- Have developed ability in writing in various contexts.
- 3. Have acquired a proper level of competence for employability.

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B. Tech III-I Sem. (ME)

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15A03505 ENTREPRENEURSHIP (MOOCS-I)

UNIT 1: Introduction to Entrepreneurship Definition Types of Entrepreneur, Entrepreneurial Traits, Entrepreneur vs. Manager, Entrepreneur vs Intrapreneur. The Entrepreneurial decision process. Ethics and Social responsibility of Entrepreneurs. Opportunities for Entrepreneurs in India and abroad.

Creating and Starting the Venture, Sources of new Ideas, Methods of generating ideas, creative problem solving, product planning and development process.

UNIT II: The Business Plan Nature and scope of Business plan, Writing Business Plan, Evaluating Business plans, Using and implementing business plans. Marketing plan, financial plan and the organizational plan, Launching formalities.

UNIT III: Financing and Managing the new venture, Sources of capital, venture capital, angel investment, Record keeping, recruitment, motivating and leading teams, financial controls. Marketing and sales controls. E-commerce and Entrepreneurship, Internet advertising.

UNIT IV: New venture Expansion Strategies and Issues, Features and evaluation of joint ventures, acquisitions, merges, franchising. Public issues, rights issues, bonus issues and stock splits. Choosing location and layout, Issues related to Selection of layout.

UNIT V: Production and Marketing Management Thrust of production management, Selection of production Techniques, plant utilization and maintenance, Designing the work place, Inventory control, material handling and quality control. Marketing functions, market segmentation, market research and channels of distribution, Sales promotion and product pricing. Global aspects of Enterprenership.

Text Books:

1Entrepreneurship, Robert Hisrich, & Michael Peters, TMH, 5th Edition

2. Entrepreneurship, Dollinger, Pearson, 4/e 2004.

REFERENCES:

- Dynamics of Entrepreneurial Development and management, Vasant Desai, Himalaya Publishing House, 2004.
- Harvard Business Review on Entrepreneurship. HBR Paper Back, 1999.
- Entrepreneurial Management, . Robert J.Calvin:, TMH, 2004.



B. Tech III-I Sem. (CSE)

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SOCIAL VALUES & ETHICS (AUDIT COURSE)

(Common to all Branches)

UNIT - I

Introduction and Basic Concepts of Society: Family and Society: Concept of family, community, PRIs and other community based organizations and society, growing up in the family – dynamics and impact, Human values, Gender Justice.

Channels of Youth Moments for National Building: NSS & NCC: History, philosophy, aims & objectives; Emblems, flags, mottos, songs, badge etc.; Organizational structure, roles and responsibilities of various NSS functionaries. Nehru Yuva Kendra (NYK): Activities – Socio Cultural and Sports.

UNIT - II

Activities of NSS, NCC, NYK:

Citizenship: Basic Features Constitution of India, Fundamental Rights and Fundamental Duties, Human Rights, Consumer awareness and the legal rights of the consumer, RTI.

Youth and Crime: Sociological and psychological Factors influencing youth crime, Peer Mentoring in preventing crimes, Awareness about Anti-Ragging, Cyber Crime and its prevention, Juvenile Justice

Social Harmony and National Integration: Indian history and culture, Role of youth in peace-building and conflict resolution, Role of youth in Nation building.

UNIT - III

Environment Issues: Environment conservation, enrichment and Sustainability, Climate change, Waste management, Natural resource management (Rain water harvesting, energy conservation, waste land development, soil conservations and afforestation).

Health, Hygiene & Sanitation: Definition, needs and scope of health education, Food and Nutrition, Safe drinking water, Sanitation, Swachh Bharat Abhiyan.

Disaster Management: Introduction to Disaster Management, classification of disasters, Role of youth in Disaster Management. Home Nursing, First Aid.

Civil/ Self Defense: Civil defense services, aims and objectives of civil defense, Need for self defense training – Teakwondo, Judo, karate etc.,

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UNIT - IV

Gender Sensitization: Understanding Gender – Gender inequality – Role of Family, Society and State; Challenges – Declining Sex Ratio – Sexual Harassment – Domestic Violence; Gender Equality – Initiatives of Government – Schemes, Law; Initiates of NGOs – Awareness, Movements;

UNIT - V

Physical Education: Games & Sports: Health and Recreation – Biological basis of Physical activity – benefiets of exercise – Physical, Psychological, Social; Physiology of Musucular Activity, Respiration, Blood Circulation.

Yoga: Basics of Yoga – Yoga Protocol, Postures, Asanas, Pranayama: Introduction of Kriyas, Bandhas and Mudras.

TEXT BOOKS:

- 1. NSS MANUAL
- SOCIETY AND ENVIRONMENT: A.S.Chauha, Jain Brothers Publications, 6th Edition, 2006
- 3. INDIAN SOCIAL PROBLEM: G.R.Madan, Asian Publisher House
- 4. INDIAN SOCIAL PROBLEM: Ram Ahuja, Rawat Publications
- 5. HUMAN SOCIETY: Kingsley Davis, Macmillan
- 6. SOCIETY: Mac Iver D Page, Macmillan
- SOCIOLOGY THEMES AND PERSPECTIVES: Michael Honalambos, Oxford University Press
- 8. CONSTITUTION OF INDIA: D.D.Basu, Lexis Nexis Butterworth Publishers
- 9. National Youth Policy 2014 (available on www.yas.nic.in)
- 10.TOWARS A WORLD OF EQUALS: A.Suneetha, Uma Bhrugudanda, Duggirala Vasantha, Rama Melkote, Vasudha Nagraj, Asma Rasheed, Gogu Shyamala, Deepa Streenivas and Susie Tharu
- 11. LIGHT ON YOGA: B.K.S.Iyengar, Penguin Random House Publishers

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http://ayush.gov.in/event/common-yoga-protocol-2016-0

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B. Tech III-II Sem. (CSE)

L T P C

15A52602 ADVANCED ENGLISH LANGUAGE COMMUNICATION SKILLS (AELCS) LAB (Audit Course)

1. Introduction

With increased globalization and rapidly changing industry expectations, employers are looking for the wide cluster of skills to cater to the changing demand. The introduction of the Advanced Communication Skills Lab is considered essential at 3rd year level. At this stage, the students need to prepare themselves for their careers which may require them to listen to, read, speak and write in English both for their professional and interpersonal communication in the globalised context.

The proposed course should be a laboratory course to enable students to use 'good' English and perform the following:

- Gathering ideas and information and to organise ideas relevantly and coherently.
- Engaging in debates.
- · Participating in group discussions.
- · Facing interviews.
- Writing project/research reports/technical reports.
- · Making oral presentations.
- · Taking part in social and professional communication.

2 OBJECTIVES:

This Lab focuses on using multi-media instruction for language development to meet the following targets:

- To improve the students' fluency in English, through a well-developed vocabulary and enable them to listen to English spoken at normal conversational speed by educated English speakers and respond appropriately in different socio-cultural and professional contexts.
- Further, they would be required to communicate their ideas relevantly and coherently in writing.
- To prepare all the students for their placements.

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3. SYLLABUS:

The following course content to conduct the activities is prescribed for the Advanced English Communication Skills (AECS) Lab:

UNIT-I: COMMUNICATION SKILLS

- Reading Comprehension
- 2. Listening comprehension
- 3. Vocabulary Development
- Common Errors

UNIT-II: WRITING SKILLS

- 1. Report writing
- Resume Preparation
- E-mail Writing

UNIT-III: PRESENTATION SKILLS

- 1. Oral presentation
- 2. Power point presentation
- 3. Poster presentation

UNIT-IV: GETTING READY FOR JOB

- Debates
- Group discussions
- Job Interviews

UNIT-V: INTERPERSONAL SKILLS

- Time Management
- 2. Problem Solving & Decision Making
- Etiquettes

4. LEARNING OUTCOMES:

- Accomplishment of sound vocabulary and its proper use contextually
- Flair in Writing and felicity in written expression.
- Enhanced job prospects.
- Effective Speaking Abilities



5. MINIMUM REQUIREMENT:

The Advanced English Communication Skills (AECS) Laboratory shall have the following infra-structural facilities to accommodate at least 60 students in the lab:

- · Spacious room with appropriate acoustics.
- · Round Tables with movable chairs
- Audio-visual aids
- LCD Projector
- Public Address system
- P IV Processor, Hard Disk 80 GB, RAM–512 MB Minimum, Speed 2.8 GHZ
- T. V, a digital stereo & Camcorder
- Headphones of High quality

6. SUGGESTED SOFTWARE:

The software consisting of the prescribed topics elaborated above should be procured and G

- 1. Walden Infotech: Advanced English Communication Skills Lab
- 2. K-VAN SOLUTIONS-Advanced English Language Communication Skills lab
- DELTA's key to the Next Generation TOEFL Test: Advanced Skills Practice.
- TOEFL & GRE(KAPLAN, AARCO & BARRONS, USA, Cracking GRE by CLIFFS)
- Train2success.com

7. BOOKS RECOMMENDED:

- Objective English for Competitive Exams, Hari Mohana Prasad, 4th edition, Tata Mc Graw Hill.
- Technical Communication by Meenakshi Raman & Sangeeta Sharma, O U Press 3rd Edn. 2015.
- Essay Writing for Exams, Audrone Raskauskiene, Irena Ragaisience & Ramute Zemaitience, OUP, 2016
- Soft Skills for Everyone, Butterfield Jeff, Cengage Publications, 2011.
- Management Shapers Series by Universities Press (India) Pvt Ltd., Himayatnagar, Hyderabad 2008.
- Campus to Corporate, Gangadhar Joshi, Sage Publications, 2015

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- Communicative English, E Suresh Kumar & P.Sreehari, Orient Blackswan, 2009.
- 8. English for Success in Competitive Exams, Philip Sunil Solomon OUP, 2015



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR M.Tech III semester (ES) L T P C 4 0 0 4

(17D20301) RESEARCH METHODOLOGY (Elective V-OPEN ELECTIVE)

UNIT I

Meaning of Research – Objectives of Research – Types of Research – Research Approaches – Guidelines for Selecting and Defining a Research Problem – research Design – Concepts related to Research Design – Basic Principles of Experimental Design.

UNIT II

Sampling Design – steps in Sampling Design – Characteristics of a Good Sample Design – Random Sampling Design.

Measurement and Scaling Techniques-Errors in Measurement – Tests of Sound Measurement – Scaling and Scale Construction Techniques – Time Series Analysis – Interpolation and Extrapolation.

Data Collection Methods – Primary Data – Secondary data – Questionnaire Survey and Interviews.

UNIT III

Correlation and Regression Analysis – Method of Least Squares – Regression vs Correlation – Correlation vs Determination – Types of Correlations and Their Applications

UNIT IV

Statistical Inference: Tests of Hypothesis – Parametric vs Non-parametric Tests – Hypothesis Testing Procedure – Sampling Theory – Sampling Distribution – Chi-square Test – Analysis of variance and Co-variance – Multi-variate Analysis.

UNIT V

Report Writing and Professional Ethics: Interpretation of Data – Report Writing – Layout of a Research Paper – Techniques of Interpretation- Making Scientific Presentations in Conferences and Seminars – Professional Ethics in Research.

Text Books:

Research Methodology: Methods And Techniques - C.R. Kothari, 2nd Edition, New Age International Publishers.

Research Methodology: A Step By Step Guide For Beginners- Ranjit Kumar, Sage Publications (Available As Pdf On Internet)

Research Methodology And Statistical Tools - P.Narayana Reddy And G.V.R.K.Acharyulu, 1st Edition, Excel Books, New Delhi.

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR M.Tech III semester (SE)

L T P C 4 0 0 4

(17D20302) HUMAN VALUES AND PROFESSIONAL ETHICS (Elective V-OPEN ELECTIVE)

Unit I:

HUMAN VALUES: Morals, Values and Ethics-Integrity-Work Ethic-Service learning – Civic Virtue – Respect for others – Living Peacefully – Caring – Sharing – Honesty -Courage- Co Operation – Commitment – Empathy –Self Confidence Character – Spirituality.

Unit II:

ENGINEERING ETHICS: Senses of Engineering Ethics- Variety of moral issues – Types of inquiry – Moral dilemmas – Moral autonomy –Kohlberg"s theory- Gilligan"s theory- Consensus and controversy – Models of professional roles- Theories about right action- Self interest - Customs and religion –Uses of Ethical theories – Valuing time –Co operation – Commitment.

Unit III:

ENGINEERING AS SOCIAL EXPERIMENTATION: Engineering As Social Experimentation – Framing the problem – Determining the facts – Codes of Ethics – Clarifying Concepts – Application issues – Common Ground - General Principles – Utilitarian thinking respect for persons.

UNIT IV:

ENGINEERS RESPONSIBILITY FOR SAFETY AND RISK: Safety and risk —
Assessment of safety and risk — Risk benefit analysis and reducing riskSafety and the
Engineer- Designing for the safety- Intellectual Property rights(IPR).

UINIT V:

GLOBAL ISSUES: Globalization – Cross culture issues- Environmental Ethics – Computer Ethics – Computers as the instrument of Unethical behavior – Computers as the object of Unethical acts – Autonomous Computers- Computer codes of Ethics – Weapons Development - Ethics .

Text Books:

- "Engineering Ethics includes Human Values" by M.Govindarajan, S.Natarajan and V.S.SenthilKumar-PHI Learning Pvt. Ltd-2009.
- "Engineering Ethics" by Harris, Pritchard and Rabins, CENGAGE Learning, India Edition, 2009.
- "Ethics in Engineering" by Mike W. Martin and Roland Schinzinger Tata McGrawHill– 2003.
- "Professional Ethics and Morals" by Prof.A.R.Aryasri, Dharanikota Suyodhana-Maruthi Publications.
- "Professional Ethics and Human Values" by A.Alavudeen, R.Kalil Rahman and M.Jayakumaran, Laxmi Publications.

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B.Tech. I - II Sem. (CSE)

T Tu C

(15A01101) ENVIRONMENTAL STUDIES

OBJECTIVE: To make the students to get awareness on environment, to understand the importance of protecting natural resources, ecosystems for future generations and pollution causes due to the day to day activities of human life to save earth from the inventions by the engineers.

UNIT-I

MULTIDISCIPLINARY NATURE OF ENVIRONMENTAL STUDIES: - Definition, Scope and Importance - Need for Public Awareness.

NATURAL RESOURCES: Renewable and non-renewable resources – Natural resources and associated problems – Forest resources – Use and over – exploitation, deforestation, case studies – Timber extraction – Mining, dams and 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, case studies – Food resources: World food problems, changes caused by agriculture and overgrazing, effects of modern agriculture, fertilizer-pesticide problems, water logging, salinity, case studies. – Energy resources:

UNIT - II

ECOSYSTEMS: Concept of an ecosystem. – Structure and function of an ecosystem – Producers, consumers and decomposers – Energy flow in the ecosystem – Ecological succession – Food chains, food webs and ecological pyramids – Introduction, types, characteristic features, structure and function of the following ecosystem:

- Forest ecosystem.
- Grassland ecosystem
- Desert ecosystem
- Aquatic ecosystems (ponds, streams, lakes, rivers, oceans, estuaries)

BIODIVERSITY AND ITS CONSERVATION: Introduction 0 Definition: genetic, species and ecosystem diversity – Bio-geographical classification of India – Value of biodiversity: consumptive use, Productive use, social, ethical, aesthetic and option values – Biodiversity at global, National and local levels – India as a mega-diversity nation – Hotsports of biodiversity – Threats to biodiversity: habitat loss, poaching of wildlife, manwildlife conflicts – Endangered and endemic species of India – Conservation of biodiversity: In-situ and Ex-situ conservation of biodiversity.

UNIT - III

ENVIRONMENTAL POLLUTION: Definition, Cause, effects and control measures of:

- Air Pollution.
- b. Water pollution
- c. Soil pollution
- d. Marine pollution
- e. Noise pollution

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- f. Thermal pollution
- g. Nuclear hazards

SOLID WASTE MANAGEMENT: Causes, effects and control measures of urban and industrial wastes – Role of an individual in prevention of pollution – Pollution case studies – Disaster management: floods, earthquake, cyclone and landslides.

UNIT - IV

SOCIAL ISSUES AND THE ENVIRONMENT: From Unsustainable to Sustainable development – Urban problems related to energy – Water conservation, rain water harvesting, watershed management – Resettlement and rehabilitation of people; its problems and concerns. Case studies – Environmental ethics: Issues and possible solutions – Climate change, global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust. Case Studies – Wasteland reclamation. – Consumerism and waste products. – Environment Protection Act. – Air (Prevention and Control of Pollution) Act. – Water (Prevention and control of Pollution) Act. – Water (Prevention and control of Pollution) Act – Wildlife Protection Act – Forest Conservation Act – Issues involved in enforcement of environmental legislation – Public awareness.

UNIT - V

HUMAN POPULATION AND THE ENVIRONMENT: Population growth, variation among nations. Population explosion – Family Welfare Programmed. – Environment and human health – Human Rights – Value Education – HIV/AIDS – Women and Child Welfare – Role of information Technology in Environment and human health – Case studies.

FIELD WORK: Visit to a local area to document environmental assets River/forest grassland/hill/mountain - Visit to a local polluted site-Urban/Rural/Industrial/Agricultural Study of common plants, insects, and birds - river, hill slopes, etc..

TEXT BOOKS:

- Text book of Environmental Studies for Undergraduate Courses by Erach Bharucha for University Grants Commission, Universities Press.
- 2. Environmental Studies by Kaushik, New Age Pubilishers.

REFERENCES:

- 1. Environmental studies by R.Rajagopalan, Oxford University Press.
- Comprehensive Environmental studies by J.P.Sharma, Laxmi publications.
- Introduction to Environmental engineering and science by Gilbert M. Masters and Wendell P. Ela - Printice hall of India Private limited.

Outcomes:

- Students will get the sufficient information that will clarify modern environmental concepts like equitable use of natural resources, more sustainable life styles etc.
- (2) Students will realize the need to change their approach so as to perceive our own environmental issues correctly, using practical approach based on observation and self learning.
- (3) Students become conversant with the fact that there is a need to create a concern for our environment that will trigger pro-environmental action; including simple activities we can do in our daily life to protect it.
- (4) By studying environmental sciences, students is exposed to the environment that enables one to find out solution of various environmental problems encountered on and often.

B. Tech III-II Sem. (C.E)

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R15

15A01607 DISASTER MANAGEMENT AND MITIGATION (CBCC – I)

Course Objective:-The objectives of this subject is to give the basic knowledge of Environmental Hazards and disasters. The syllabus includes the basics of Endogenous and Exogenous hazards and gives a suitable picture on the different types of hazard and disaster mitigation methods.

Unit-I

Environmental Hazards & Disasters: Meaning of Environmental hazards, Environmental Disasters and Environmental stress. Concept of Environmental Hazards, Environmental stress & Environmental Disasters. Different approaches & relation with human Ecology - Landscape Approach - Ecosystem Approach - Perception approach - Human ecology & its application in geographical researches.

Unit -II

Types of Environmental hazards & Disasters: Natural hazards and Disasters - Man induced hazards & Disasters - Natural Hazards- Planetary Hazards/ Disasters - Extra Planetary Hazards/ disasters - Planetary Hazards- Endogenous Hazards - Exogenous Hazards -

Unit-III

Endogenous Hazards - Volcanic Eruption - Earthquakes - Landslides - Volcanic Hazards/ Disasters - Causes and distribution of Volcanoes - Hazardous effects of volcanic eruptions - Environmental impacts of volcanic eruptions - Earthquake Hazards/ disasters - Causes of Earthquakes - Distribution of earthquakes - Hazardous effects of - earthquakes - Earthquake Hazards in India - - Human adjustment, perception & mitigation of earthquake.

Unit -IV

Exogenous hazards/ disasters - Infrequent events- Cumulative atmospheric hazards/ disasters Infrequent events: Cyclones - Lightning - Hailstorms Cyclones: Tropical cyclones & Local storms - Destruction by tropical cyclones & local storms (causes, distribution human adjustment, perception & mitigation)Cumulative atmospheric hazards/ disasters: - Floods- Droughts- Cold waves- Heat waves. Floods:- Causes of floods- Flood hazards India- Flood control measures (Human adjustment, perception & mitigation).Droughts:- Impacts of droughts- Drought hazards in India- Drought control

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measures- Extra Palnetary Hazards/ Disasters- Man induced Hazards /Disasters-Physical hazards/ Disasters-Soil Erosion

Soil Erosion:-- Mechanics & forms of Soil Erosion- Factors & causes of Soil Erosion-Conservation measures of Soil Erosion. Chemical hazards/ disasters:-- Release of toxic chemicals, nuclear explosion- Sedimentation processes. Sedimentation processes:- Global Sedimentation problems- Regional Sedimentation problems- Sedimentation & Environmental problems- Corrective measures of Erosion & Sedimentation. Biological hazards/ disasters:- Population Explosion.

Unit -V

Emerging approaches in Disaster Management- Three Stages

- Pre- disaster stage (preparedness)
- 2. Emergency Stage
- Post Disaster stage-Rehabilitation

Text books:

- Disaster Management by Rajib Shah, Universities Press, India, 2003
- Disaster Science and Management by Tushar Bhattacharya, TMH Publications.
- 3. Disaster Mitigation: Experiences And Reflections by Pardeep Sahni
- Natural Hazards & Disasters by Donald Hyndman & David Hyndman Cengage Learning

References:

- The Environment as Hazards by Kates, B.I & White, G.F, Oxford Publishers, New York, 1978
- 2. Disaster Management by R.B. Singh (Ed), Rawat Publication, New Delhi, 2000
- Disaster Management by H.K. Gupta (Ed), Universiters Press, India, 2003
- Space Technology for Disaster Mitigation in India (INCED) by R.B. Singh,, University of Tokyo, 1994.

Course Outcomes:

On completion of the course the students will have knowledge on

- Types of disasters and their effects on environment
- Causes of disasters
- Disaster management through engineering applications

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B. Tech III-II Sem. (CSE)

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R15

15A05607 LINUX ENVIRONMENT SYSTEM (CBCC-I)

Course Objectives:

The student should be made to:

- Understand the Multiuser, Multiprocessing, Multitasking, and multiprogramming environment.
- Learn the various flavors and installation types of Linux operating system.
- Experiences the installation and configuration status of Linux system.
- Learn the file system and various commands of Linux environment system.

Course Outcomes:

- Able to describe and use the LINUX operating system.
- Able to describe and use the fundamental LINUX system tools and utilities.
- Able to describe and write shell scripts in order to perform basic shell programming.
- Able to describe and understand the LINUX file system.

UNIT- I

INTRODUCTION TO LINUX OPERATING SYSTEM: Introduction and Types of Operating Systems, Linux Operating System, Features, Architecture Of Linux OS Linux System Calls, Linux Shared Interface. Shell Disk Management in Linux, Swap space and its Management, Device and management. File System and Directory Structure in Linux. Multi-Processing, load sharing and Multi-Threading in Linux, Types of Users in Linux, Capabilities of Super Users and equivalents.

UNIT -II

INSTALLING LINUX AS A SERVER: Linux and Linux Distributions; Major differences between various Operating Systems (on the basis of: Single Users vs Multiusers vs Network Users; Separation of the GUI and the Kernel; Domains; Active Directory;).

INSTALLING LINUX IN A SERVER CONFIGUARTION: Before Installation; Hardware; Server Design ;Dual-Booting Issues; Modes of Installation; Installing Fedora Linux; Creating a Boot Disk; Starting the Installation; GNOME AND KDE



: The History of X Windows; The Downside; Enter GNOME; About GNOME; Starting X Windows and GNOME; GNOME Basics; The GNOME Configuration Tool.

UNIT-III

INSTALLING SOFTWARE: The Fedora Package Manager; Installing a New Package using dpkg and RPM; Querying a Package; Uninstalling a Package using dpkg and RPM; Compiling Software; Getting and Unpacking the Package; Looking for Documentation; Configuring the Package; Compiling Your Package; Installing the Package, Driver Support for various devices in linux.

MANAGING USERS: Home Directories ; Passwords; Shells; Stratup Scripts; Mail; User Databases; The / etc /passwd File; The / etc / shadow File; The / etc /group File; User Management Tools; Command-Line User Management; User LinuxConf to Manipulate Users and Groups; SetUID and SetGID Programs.

UNIT IV

THE COMMAND LINE: An Introduction to BASH, KORN, C, A Shell etc.; BASH commands: Job Control; Environment Variables; Pipes; Redirection; Command-Line Shortcuts; Documentation Tools; The man Command; the text info System; File Listings; Owner ships and permissions; Listing Files; File and Directory Types; Change Ownership; Change Group; Change Mode; File Management and Manipulation; Process Manipulation; Miscellaneous Tools; Various Editors Available like: Vi and its modes, Pico, Joe and emacs, , Su Command.

BOOTING AND SHUTTING DOWN: LILO and GRUB; Configuring LILO; Additional LILO options; Adding a New Kernel to Boot; Running LILO; The Steps of Booting; Enabling and disabling Services.

UNIT-V

FILE SYSTEMS: The Makeup File Systems; Managing File Systems; Adding and Partitioning a Disk; Network File Systems; Quota Management;

CORE SYSTEM SERVICES: The init Service; The inetd and xinetd Processess; The syslogd Daemon; The cron Program.

PRINTING: The Basic of Ipd; Installing LPRng; Configuring /etc/printcap; The /ETC/Ipd.perms File; Clients of Ipd, Interfacing Printer through Operating System.

Text Books:

- <u>Linux Administration: A Beginner's Guide</u> by Steve Shah, Wale Soyinka, ISBN 0072262591 (0-07-226259-1), McGraw-Hill Education.
- Unix Shell Programming, Yashavant P. Kanetkar, BPB Publications, 2003.
- 3. UNIX Concepts and Applications by Sumitabha Das Tata McGraw-Hill, 2006.

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 Operating System Concepts 8th edition, by Galvin Wiley Global Education, 2012.

References:

- Unix operating system, by <u>Grace Todino</u>, <u>John Strang</u>, <u>Jerry D. Peek</u> <u>Oreily</u> publications 1993.
- Operating System Concepts 8th edition, by Galvin Wiley Global Education, 2012.



B. Tech IV-I Sem. (C.E)

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ENVIRONMENTAL ENGINEERING 15A01703

Course Objective: This subject provides the knowledge of water sources, water treatment, design of distribution system, waste water treatment, and safe disposal methods. The topics of characteristics of waste water, sludge digestion are also included.

UNIT - I

INTRODUCTION: Importance and Necessity of Protected Water Supply systems, Objectives of Protected water supply system, Flow chart of public water supply system, Role of Environmental Engineer.

WATER DEMAND AND QUANTITY STUDIES: Estimation of water demand for a town or city, Types of water demands, Per capita Demand, Factors affecting the Per Capita Demand, Variations in the Demand, Design Period, Factors affecting the Design period, Population Studies, Population Forecasting Studies.

QUALITY AND ANALYSIS OF WATER: Characteristics of water - Physical, Chemical and Biological. Analysis of Water - Physical, Chemical and Biological. Impurities in water, Water borne diseases. Drinking water quality standards.

UNIT - II

WATER TREATMENT: Layout and general outline of water treatment units sedimentation - principles - design factors - coagulation-flocculation clarifier design coagulants - feeding arrangements. Filtration and Chlorination: Filtration - theory working of slow and rapid gravity filters - multimedia filters - design of filters - troubles in operation comparison of filters - disinfection - theory of chlorination, chlorine demand, other disinfection practices- Miscellaneous treatment methods

WATER DISTRIBUTION: Distribution systems - Requirements, Layout of Water distribution systems - Design procedures- Hardy Cross and equivalent pipe methods service reservoirs - joints, valves such as sluice valves, air valves, scour valves and check valves water meters - laying and testing of pipe lines - pump house, waste detection and prevention.

UNIT - III

INTRODUCTION TO SANITATION :systems of sanitation - relative merits & demerits collection and conveyance of waste water - sewerage - classification of sewerage

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systems- Estimation of sewage flow and storm water drainage – fluctuations – types of sewers – Hydraulics of sewers and storm drains- design of sewers – materials for sewers- appurtenances in sewerage – cleaning and ventilation of sewers.

WASTE WATER COLLECTION AND CHARACTERSTICS: Conservancy and water carriage systems – sewage and storm water estimation – time of concentration – storm water overflows combined flow – characteristics of sewage – cycles of decay – decomposition of sewage, examination of sewage – B.O.D. – C.O.D. equations.

UNIT IV

WASTE WATER TREATMENT: Layout and general out line of various units in a waste water treatment plant – primary treatment: design of screens – grit chambers – skimming tanks – sedimentation tanks – principles of design – biological treatment – trickling filters – standard and high rate – Construction and design of Oxidation ponds.

SLUDGE TREATMENT: Sludge digestion – factors effecting – design of Digestion tank – Sludge disposal by drying – septic tanks and Imhoff Tanks, working principles and design – soak pits.

UNIT - V

SOLID WATE MANAGEMENT: Characteristics, generation, collection and transportation of solid wastes, engineered systems for solid waste management (reuse/recycle, energy recovery, treatment and disposal).

AIR POLLUTION: Types of pollutants, their sources and impacts, air pollution meteorology, air pollution control, air quality standards and limits.

NOISE POLLUTION: Impacts of noise, permissible limits of noise pollution, measurement of noise and control of noise pollution.

TEXT BOOKS:

- Water Supply And Sanitary Engineering By G.S. Birdi, Dhanpat Rai & Sons Publishers.
- Water Supply Engineering, Vol. 1, Waste Water Engineering, Vol. II, B.C.Punmia, Ashok Jain & Arun Jain, Laxmi Publications Pvt.Ltd, New Delhi
- 3. Environmental Engineering By Peavy, TMH Publishers.

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B. Tech IV-I Sem. (C.E)

ENVIRONMENTAL ENGINEERING LABORATORY 15A01712

Course Objective:

The laboratory provides knowledge of estimating various parameters like PH, Chlorides, Sulphates, Nitrates in water. For effective water treatment, the determination of optimum dosage of coagulant and chloride demand are also included. The estimation status of Industrial effluents will also be taught in the laboratory by estimating BOD and COD of effluent.

LIST OF EXPERIMENTS

- Determination of pH and Turbidity
- Determination of Conductivity and Total dissolved solids.
- Determination of Alkalinity/Acidity.
- Determination of Chlorides.
- Determination and Estimation of total solids, organic solids and inorganic solids.
- Determination of iron.
- Determination of Dissolved Oxygen.
- Determination of Nitrogen.
- Determination of total Phosphorous.
- 10. Determination of B.O.D
- 11. Determination of C.O.D
- Determination of Optimum coagulant dose.
- Determination of Chlorine demand.
- Presumptive coliform test.

NOTE: At least 8 of the above experiments are to be conducted.