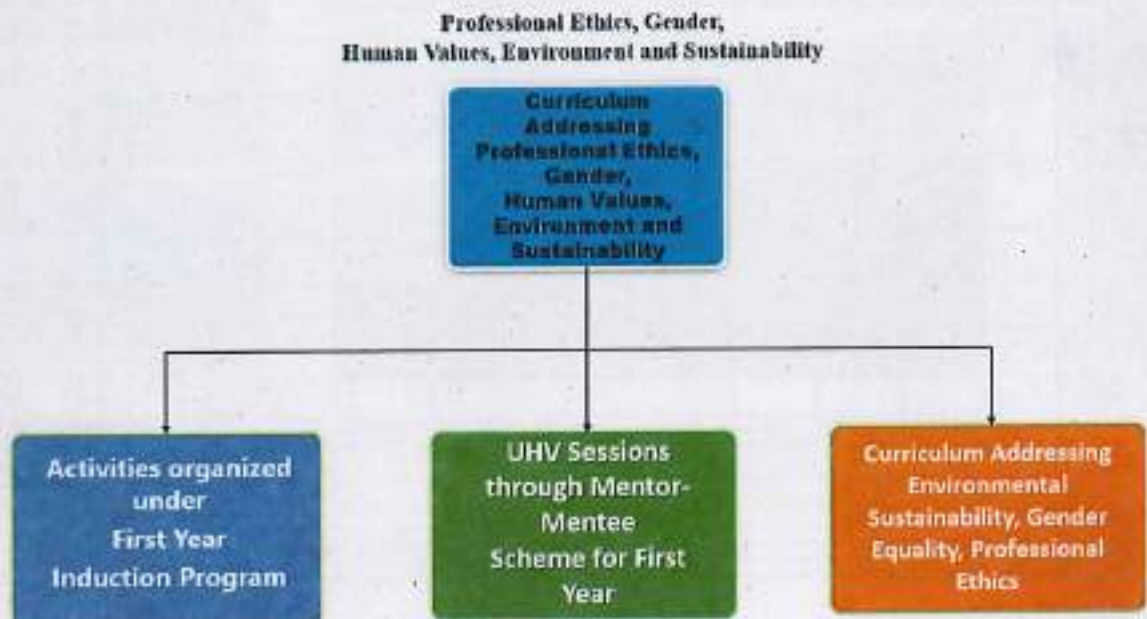



1.3.1. Institution integrates crosscutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum

Proof of 1.3.1




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First Year Induction Program as a part of AICTE Initiative:

Event Schedule:

DAY 1 (07/08/2019)									
Group 1 (08:00)		Group 2 (8:30)				Group 3 (9:00)		Time	
8:30 AM	Reporting Time 8:30		Reporting Time 9:30				Reporting Time		
8:30 AM	Technical Orientation (Sudhakar-Pareek) (SST Auditorium)								
9:45 AM	MCAET (115)								
10:45 AM	College Tour (A1-101)	College Tour (A2-101)	College Tour (B1-101)	College Tour (B2-101)	Technical Orientation (Sudhakar-Pareek) (SST Auditorium)				
12:00 PM	Break		MCAET (115)						
1:30 PM	Department In-charge (HOD/Deputy In-charge/Coordinator of the department) (SST)	Department In-charge (HOD/Deputy In-charge/Coordinator of the department) (SST)	College Tour (A1-101)	College Tour (A2-101)	College Tour (B1-101)	College Tour (B2-101)	Technical Orientation (Sudhakar-Pareek) (SST Auditorium)		
3:00 PM	Break		MCAET (115)						
3:30 PM	Department In-charge (HOD/Deputy In-charge/Coordinator of the department) (SST)	Department In-charge (HOD/Deputy In-charge/Coordinator of the department) (SST)	College Tour (A1-101)	College Tour (A2-101)	College Tour (B1-101)	College Tour (B2-101)			
4:30 PM	Department In-charge (HOD/Deputy In-charge/Coordinator of the department) (SST)	Department In-charge (HOD/Deputy In-charge/Coordinator of the department) (SST)	College Tour (A1-101)	College Tour (A2-101)	College Tour (B1-101)	College Tour (B2-101)			
5:30 PM	Department In-charge (HOD/Deputy In-charge/Coordinator of the department) (SST)	Department In-charge (HOD/Deputy In-charge/Coordinator of the department) (SST)	College Tour (A1-101)	College Tour (A2-101)	College Tour (B1-101)	College Tour (B2-101)			
GROUP 1A and 1B		GROUP 2A and 2B				GROUP 3A and 3B			
Group 1A - Dr. Sridha Kumar Group 1B - Prof. Jayashankar		Group 2A - Prof. Mahesh Chavan Group 2B - Prof. Suresh Chavan				Group 3A - Dr. Suresh Chavan Group 3B - Prof. Suresh Chavan			
Registration Dr. Karthikeyan, Dr. Suresh		Registration Dr. Karthikeyan, Dr. Suresh				Registration Dr. Karthikeyan, Dr. Suresh			
Self Training Wood hall Group		Self Training Wood hall Group				Self Training Wood hall Group			

Day 2 (08/08/2019)									
Group 1		Group 2		Group 3		Group 4		Group 5	
Time (From)	Time (To)	Group 1A	Group 1B	Time (From)	Time (To)	Group 2A	Group 2B	Time (From)	Time (To)
9:00 AM	10:00 AM	2nd Year (Sudhakar-Pareek) (SST)		9:00 AM	10:00 AM	2A - Yoga (Ved Vidyapeeth)	2B - Self Defense (Canteen First Floor)	9:00 AM	10:30 AM
10:00 AM	11:00 AM	College Tour (SST)		10:00 AM	11:00 AM	3A - Self Defense (Canteen First Floor)	3B - Yoga (Ved Vidyapeeth)		
11:00 AM	12:30 PM	UHV (Aud)		11:00 AM	12:00 PM	MCAET (SST)		10:30 AM	11:30 AM
				12:00 PM	1:00 PM	College Tour (SST)		11:30 AM	12:30 PM
12:30 PM	1:30 PM	BREAK		1:00 PM	2:15 PM	UHV (Aud)		12:30 PM	1:30 PM
1:30 PM	2:30 PM	Codachal (1A-302)	Resource Building (1B-302)	2:15 PM	3:00 PM	BREAK		1:30 PM	2:30 PM
2:00 PM	3:30 PM	Resource Building (1A-302)	Codachal (1B-302)	3:00 PM	4:00 PM	Physical Activity (Canteen First Floor & SCP area)		2:30 PM	3:30 PM
GROUP 1A and 1B		GROUP 2A and 2B				GROUP 3A and 3B			
Group 1A - Dr. Sridha Kumar Group 1B - Prof. Jayashankar		Group 2A - Dr. Suresh Chavan Group 2B - Prof. Suresh Chavan				Group 3A - Dr. Suresh Chavan Group 3B - Prof. Suresh Chavan			

Suresh
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Day 3 (09/08/2019)

		Group 1A	Group 1B	Group 2A	Group 2B	Group 3A	Group 3B
9:00 AM	10:00 AM	Disaster Management (GST Auit)		Computer Diagnostic Test (401)		3A - Yoga (Ved Vidyapeeth)	3B - Self Defense (Carleen First Floor)
10:00 AM	11:00 AM			Project/Problem solving (302 & 303)		3A - Self Defense (Carleen First Floor)	3B - Yoga (Ved Vidyapeeth)
11:00 AM	12:00 PM	Project/Problem solving (302 & 303)		Disaster Management (GST Auit)		Computer Diagnostic Test (401)	
12:00 PM	1:00 PM	Computer Diagnostic Test (401)				Project/Problem solving (302 & 303)	
1:00 PM	2:00 PM	BREAK		BREAK		BREAK	
2:00 PM	3:00 PM	*Physical Activity (Carleen First Floor & SCOP Area)		Codachef (2A-302)	Resume Building (2B-303)	Disaster Management (GST Auit)	
3:00 PM	4:00 PM			Resume Building (2A-303)	Codachef (2B-302)		

GROUP 1A and 1B	GROUP 2A and 2B	GROUP 3A and 3B
Group 1A - Dr. Smita Kumar	Group 2A - Prof Pratibha Sharma	Group 3A - Dr. Smita Kalyar
Group 1B - Prof Vijaya Patil/Prof Senhil	Group 2B - Prof Sandhya Shanambe	Group 3B - Prof G. Karthimathi/ Prof Mahesh Bhatar

DAY 4 (10/08/2019)

Time	Group 1 (80)				Group 2 (80)				Group 3 (80)				Group 4 (80)			
	1A (40)	1B (40)	2A (40)	2B (40)	3A (40)	3B (40)	4A (40)	4B (40)	5A (40)	5B (40)	6A (40)	6B (40)	7A (40)	7B (40)		
9:00-10:30	Student Council Orientation												Library (40)			
10:00-11:30	Design (211)	Spots (30P)	Creative (30P)	Creative (30P)	Library (40)	Library (40)	Library (40)	Library (40)	Design (211)	Spots (30P)	Spots (30P)	Spots (30P)	Design (211)	Spots (30P)		
11:30-1:00	Library (80)												Student Council Orientation			
1:00-2:00	Break												Library (80)			
2:00-3:30	Design (211)	Spots (30P)	Spots (30P)	Spots (30P)	Design (211)	Spots (30P)	Spots (30P)	Spots (30P)	Design (211)	Spots (30P)	Spots (30P)	Spots (30P)	Design (211)	Spots (30P)		
3:30-4:00	Design (211)	Spots (30P)	Spots (30P)	Spots (30P)	Design (211)	Spots (30P)	Spots (30P)	Spots (30P)	Design (211)	Spots (30P)	Spots (30P)	Spots (30P)	Design (211)	Spots (30P)		

Note: All student activities will start with interactive videos of activities etc.

GROUP 1A and 1B	GROUP 2A and 2B	GROUP 3A and 3B	GROUP 4A and 4B
Group 1A - Dr. Smita Kumar	Group 2A - Dr. G. Karthimathi	Group 3A - Dr. Sandhya Shanambe	Group 4A - Dr. Smita Kalyar
Group 1B - Prof Anshu Chavan	Group 2B - Prof Mahesh Bhatar	Group 3B - Prof Pratibha Sharma	Group 4B - Prof Vijaya Patil



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Day 5 (13/08/2019)

Time (From)		Time (To)		Group 1		Time (From)		Time (To)		Group 2		Time (From)		Time (To)		Group 3	
				Group 1A	Group 1B			Group 2A	Group 2B			Group 3A	Group 3B				
9:00 AM	10:00 AM	1A - Yoga (Ved Vidyapeeth)	1B - Self Defence (Cairton First Floor)	9:00 AM	10:30 AM	Educational Games(401)		9:00 AM	10:00 AM	Block Chain (Aud)							
10:00 AM	11:30 AM	1A - Self Defence (Cairton First Floor)	1B - Yoga (Ved Vidyapeeth)	10:00 AM	11:00 AM			10:15 AM	11:15 AM	Speaker Session/Alumnus Interaction (111) Ashish (Ahmed)							
11:30 AM	12:30 PM	Block Chain (Aud)		11:15 AM	12:15 PM	Speaker Session (111) (Cairton)		11:30 AM	12:30 PM	Feedback (2A - 302)		Feedback (2B - 303)					
12:45 PM	1:45 PM	Speaker Session/Alumnus Interaction (111) Ashish (Ahmed)		12:30 PM	1:30 PM	Block Chain (Aud)		12:30 PM	1:30 PM	Physical Activity (Cairton First Floor & SCP area)							
1:45 PM	2:30 PM	BREAK		1:35 PM	2:30 PM	BREAK		1:30 PM	2:30 PM	BREAK							
2:30 PM	3:30 PM	Feedback (1A - 302)		2:30 PM	3:30 PM	Speaker Session/Alumnus Interaction (111) Ashish (Ahmed)		2:30 PM	3:30 PM								
3:00 PM	4:00 PM			3:00 PM	4:30 PM	Feedback (111)		3:30 PM	4:30 PM								


GROUP 1A and 1B
Group 1A - Dr. Smitha Kumar
Group 1B - Prof Vijaya Patil

GROUP 2A and 2B
Group 2A - Prof Mahesh Biradar/ Prof Senthikumar
Group 2B - Prof Ashwin Chavan/ Dr. G. Kanthimathi

GROUP 3A and 3B
Group 3A - Dr. Savita Katiyar
Group 3B - Prof Sandhya Shanmug

Venue Incharges
Yoga Incharge - Prof Mahesh Biradar & Mr. Vinodkumar Gupta
401, 301, 302 303- Prof AshaRaj & Mr Indersingh
Physical Activity - Prof Sumithra P & Mr. Anantha
BCR & GCR - Mr Vinod kumar Gupta

Content Developer for Proficiency Test and Session Coordinator	
English	Dr. Geetanjali Mishra
Maths	Prof. AshaRaj, Prof Pratibha S, Prof Vijaya P, Prof Mahesh B & student Volunteers
Computer	Prof Ashwin Chavan & student Volunteers
Literary	Dr. Manasi Karkare & G. Kanthimathi & Student Volunteers
Physical Activity	Prof Mahesh Biradar, Dr. Snehal Karginwar & Student Volunteers
Code Chef	Prof Sumithra P & Student Volunteers
Cultural and Creativity	Prof Vijaya Patil, Dr. Savita Katiyar, Dr. Smitha Kumar & student Volunteers
Alumni & Speakers	Prof Sumithra P & Prof Kaustubh C & student Volunteers
Yoga	Prof Pranita


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Some Glimpse of First Year Induction Program:

Departmental Initiatives - FE Induction Program

Five days FE induction program (Aug 7-13 2019) organised by the Department of Humanities and Applied Sciences, started with a traditional orientation session.





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FE Induction Program 2019-20


- On day 2, students attended a Universal Human Value session on "Interpersonal relationship" by expert speaker, Ms. Vaidehi Chatter, a corporate lawyer.
- Activities like rescue building workshop, LinkedIn and github sessions were organised by the technical team of SIES-GST.



FE Induction Program 2019-20

- On day 3, students attended Disaster Management and First Aid workshop by an expert team.




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Seminar on Universal Human Values

- A seminar on Universal Human Values was organized by H & AS department on Mar 11, 2020 for FE students with the main aim to promote values and to nurture culture that facilitates academic atmosphere and competency development among the students. The session was conducted by Swamiji Sauri Chaitanya Das Prabhu, ISKCON volunteer on "Positive Thinking and Conflict Resolution".



Promethean : Poster Presentation Competition

- Poster Presentation Competition exclusively for FE "Promethean : An Engineer's solution to Environmental Problems" was held during Jan 3 - 31 2020, where students were exposed to contemporary environmental problems, while they came up with innovative ideas and Engineering solutions to combat the crisis.



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Student Development Program on Universal Human Values

Department of Humanities & Applied Sciences
Student Development Programme on Universal Human Values
June 29 to July 11, 2020

Student Development Program on Universal Human Values is designed in order to introduce students to the Values which are Universal in Nature. This SDP will help students to gain the knowledge which is not imparted in any classroom and it is very important throughout life. In new Education Policy it is recommended as mandatory subject. Students will be able to understand the difference the desires of Self and Physical facility, the importance of Relationship in our life, What is Harmony, How to become happy by being in Harmony with Self, Family, Society and Nature, Human values like Trust, Respect, Affection Care, Reverence, Gratitude, Guidance, Love etc

OBJECTIVES

- 1) Understand what are the desires of Self and Body
- 2) Understand What is Harmony
- 3) Understand How to live in Harmony with Self, Family, Society, Nature
- 4) Understand Trust, Respect, Affection Care, Reverence, Guidance, Gratitude, Love
- 5) Understand How to overcome Stress, Anxiety, Anger, Fear, Frustration

WHO WILL BE BENEFITED?

- All the students who want to be Happy, Responsible and Balanced Human Being.

PREREQUISITE

No prerequisites.


OUTCOMES

Learner will be able to:

- 1) Student will be able to understand "Self" and desires of Self
- 2) Student will be able to handle Stress, Anxiety, Frustration, Fear, Anger
- 3) Student will be able improve his overall performance
- 4) Student will be Happy, Responsible and Balanced Human Being

CONTACT PERSON

- Dr. Manasi Karkare (9967014191),
hod_fe@siesgst.ac.in
- Prof. Mrinal Khadse (9819344929)
mrinal.khadse@siesgst.ac.in
- Dr. Kanthimathi (9137372482)
kanthimathi@siesgst.ac.in



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SCHEDULE

WEEK 1:

Date	Day 1	Day 2	Day 3	Day 4	Day 5
Resource person	Dr. Manasi Karkare	Dr. Manasi Karkare	Dr. Manasi Karkare	Dr. Manasi Karkare	Dr. Manasi Karkare
Time	11 am -12.30 pm	11 am -12.30 pm	11 am -12.30 pm	11 am -12.30 pm	11 am -12.30 pm
Topics	Understanding the need of Universal Human Values	Right Understanding	Harmony of Self with Body	Harmony in family	Me and Society
Time	3.30-5.00 pm	3.30-5.00 pm	3.30-5.00 pm	3.30-5.00 pm	3.30-5.00 pm
Topics	Assignment/ Activity/Reflection and Discussion	Assignment/ Activity	Assignment/ Activity	Assignment/ Activity	Assignment/ Activity
Resource person	Dr. G. Kanthimathi	Dr. G. Kanthimathi	Ms. Mrinal Khadse	Ms. Mrinal Khadse	Dr. G. Kanthimathi

SCHEDULE

WEEK 2:

Date	Day 1	Day 2	Day 3	Day 4	Day 5
Resource person	Dr. Manasi Karkare	Dr. Manasi Karkare	Dr. Manasi Karkare	Yoga teacher	Dr. Manasi Karkare
Time	11 am -12.30 pm	11 am -12.30 pm	11 am -12.30 pm	11 am -12.30 pm	11 am -12.30 pm
Topics	Trust and Respect	Affection, care, Reverence, Love	Stress, Fear, Frustration, Anxiety	Breathing Techniques for overcoming Stress	True Happiness
Time	3.30-5.00 pm	3.30-5.00 pm	3.30-5.00 pm	3.30-5.00 pm	3.30-5.00 pm
Topics	Assignment/ Activity/Reflection and Discussion	Assignment/ Activity	Assignment/ Activity	Assignment/ Activity	Assignment/ Activity
Resource person	Dr. G. Kanthimathi	Ms. Mrinal Khadse	Ms. Mrinal Khadse	Dr. G. Kanthimathi	Dr. G. Kanthimathi




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Department of Humanities and Applied Sciences
Student Development Program Report

Universal Human Values
June 29 to July 11, 2020

Event Information	
Event Type:	Student Development Program
Event title:	Universal Human Values
Resource Person:	Dr. Manasi Karkare, Ms. Mrinal Khadse and Dr. G. Kanthimathi
Event date:	From: 29.06.2020 To: 11.07.2020
Organized for:	Students of SIES Graduate School of Technology
Organized by:	Dr. Manasi Karkare
Target audience (branch & nos.):	Students from first to final year and for all branches (Total:23)
Attachments:	1. Photographs (in JPEG/PNG) 2. Attendance report 3. Feedback


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Event Description

Student Development Program on Universal Human Values was designed in order to introduce students to the Values which are Universal in Nature. This SDP helped students to gain the knowledge which was not imparted in any classroom and it is very important throughout life. In new Education Policy it is recommended as a mandatory subject. Students were able to understand the difference the desires of Self and Physical facility, the importance of Relationship in our life, what is Harmony, how to live happily in Harmony with Self, Family, Society and Nature, Human values like Trust, Respect, Affection Care, Reverence, Gratitude, Guidance, Love etc

The main Objectives of this SDP are

- 1) Understand what are the desires of Self and Body
- 2) Understand What is Harmony
- 3) Understand How to live in Harmony with Self, Family, Society, Nature
- 4) Understand Trust, Respect, Affection Care, Reverence, Guidance, Gratitude, Love
- 5) Understand How to overcome Stress, Anxiety, Anger, Fear, Frustration

This SDP on UHV was a 10-day program with 2 sessions each day which covered a large aspect of human values by conducting interactive sessions, assignments, fun activities and special sessions by guest speakers. Assignments and tasks were assigned in relation to topic or mantra of the day.

SDP covered the fact that everyday spirit should be driven by aspiration and positivity -not by desires or greed. Having a check on our **desires** and **source of inspiration** was a highlighted event in the SDP.

Another important part of the SDP program was harmony and savouring. Our social environment and relations always leave an imprint in our lives. SDP ensured assignments which allowed the students to think of the many ways they grew connections and affections with themselves and their family. SDP helped students to correct the definition of success. Health was also one of the highlights of SDP.

Every day one activity was conducted including exercise, meditation, yoga and so on. Also, importance of proper diet and sleep patterns were discussed. The SDP made sure to add all of this in the curriculum and made the students to note that - happy body is a vessel to a happy soul.




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SDP also helped students to boost self-confidence and start believing in themselves. Inspiring talks and videos of great personalities were shared. In many a session believing one-self was discussed and interacted.

Three guest speakers Dr. Minu Mehta, Professor and Head Academics at IESMCRC, Mr. Shushikant S. Radke, VJTI Mumbai, Ms. Gayatri Naik, Shivajinagar S Jondhale College of Engineering were invited and they delivered sessions.

SDP on UHV started from a simple introduction and ended with a fun activity. All the important aspects of Human life and relations were discussed. Not problems but solutions were focused more. Accepting one, accepting surrounding and situation and working towards a meaningful goal was the essence of the program.



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2. Attendance report (Scanned copy)

S. No	Name			29/6	30/6	1/7	2/7	3/7	4/7	5/7	6/7	8/7	9/7	Total(20)
1	Aaryanku mbhar	FE	EXTC	P	P	P	P	P	P	P	P	P	P	19
2	Akaash V. R	SE	EXTC		P	P	P	P	P		P	P	P	13
3	Anaghauparna	FE	EXTC	P	P	P	P	P	P	P	P	P	P	19
4	Anushree Satish	FE	IT	P	P	P	P	P	P	P	P	P	P	20
5	ArthSangvai	TE	CE		P	P	P	P	P	P	P		P	14
6	mahithaeresakthikumar	SE	CE		P	P	P	P	P	P	P	P	P	17
7	Nikita Kadam	FE	ME	P	P	P	P	P	P	P	P	P	P	17
8	Prapthishetty	FE	CE		P	P	P	P	P	P	P	P	P	18
9	R s surya	FE	IT	P				P	P					3
10	RiddhiKawishwar	FE	IT	P	P	P	P	P	P	P	P	P	P	17
11	SahilRaut	FE	IT	P	P	P	P	P		P				8
12	SakshiGawali	FE	EXTC		P	P	P	P	P	P	P	P	P	12
13	Sameeksha Rai	FE	EXTC		P	P	P	P	P	P	P	P	P	17
14	Samuel Raju	TE	ME	P	P	P	P	P	P	P	P	P	P	17
15	ShreyasiGode	FE	EXTC		P	P	P	P	P	P	P	P	P	17
16	Shruti Singh	FE	EXTC					P	P					2
17	Shubjeet Singh Kalsi	FE	EXTC			P		P	P	P	P	P	P	10
18	Snikripaa S	SE	IT			P	P		P		P		P	6
19	Snehu Ravi	FE	EXTC	P	P	P	P	P	P	P		P	P	13
20	Swaruppal	FE	IT		P	P	P	P	P	P	P			9
21	Tanisha Nooruddin Sheikh	FE	EXTC	P	P	P	P	P	P	P	P	P	P	16
22	TriveniThoret	FE	EXTC		P	P	P	P	P	P	P	P	P	17
23	TusharNinawe	FE	EXTC	P	P	P	P	P	P	P	P	P	P	16
24	Vaishnavi Dixit	FE	IT	P	P	P	P	P	P	P	P	P	P	16
25	YASH WAGH	FE	IT	P	P	P	P	P	P	P	P	P	P	17

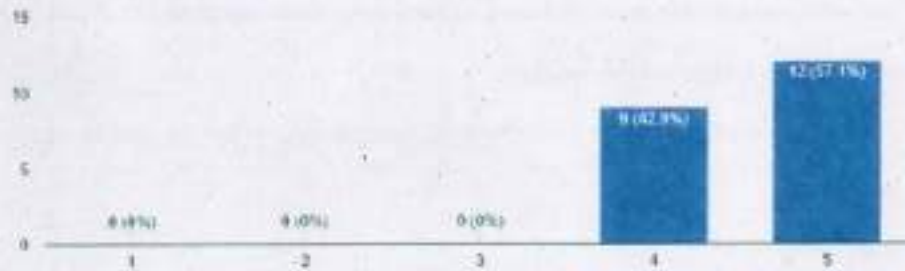


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2. Feedback Report (Scanned copy)

How well are you satisfied with the SDP?

21 responses



How well are you satisfied with the resource persons?

21 responses



Whether the sessions in the SDP was found helpful and did it increase your understanding?

21 responses




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Which session do you like the most?

21 responses

The workout session

Teds , exercise and activities, inspirational vides, teacher guidance almost everything

Games sessions and guest speaker sessions

I like all the session. But the session I like the most was about 'harmony with self' and also yoga sessions

Game session

Guest speaker -Ted x

This session based on mental well-being which was the key factor of this course and I liked it the most

All the sessions

The session of harmony with family

What is your overall rating for this SDP?

21 responses




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List of Faculties participated in AICTE UHV Certificate Program

Faculty completed training of UHV

Faculty trained in 1 day workshop	Faculty trained in 3 days workshop	Faculty completed 7/8 days FDP on UHV	Faculty completed 3 days FDP on UHV	Faculty completed 5 days FDP on UHV	Leaders i.e. Principal/HODs
Manasi	Manasi	Savita Katiyar	Manasi	Manasi	Principal, Kulkar
Vijaya Patil	Vijaya Patil	Smitha S Kumar	Dr. Ramkishan Bhase	Savita Katiyar	Dr. Nelate
Pratibha Sharma	Kanthimathi	Ashwin Chavan	Savita Katiyar	Pratibha Sharma	Dr. Manasi Kulkar
Asha Raj	Savita Katiyar	Kanthimathi	Smitha S Kumar	Dr. Ramkishan Bhase	Dr. Agoria
Geetanjali Mishra	Smitha Kumar	Ram Bhase	Ashwin Chavan	Geetanjali Mishra	Dr. Preeti
Savita Katiyar	Ram Bhase		Kanthimathi	Ashwin Chavan	Dr. Lakshminidhi
Smitha S Kumar				Kanthimathi	
Ashwin Chavan				Mohesh Biradar	
Kanthimathi				Senthil	
Mohesh Biradar				Mirvan Khudse	
Seema Khan				Vishali Mangrulkar	
Sumitra				Mohammed Ali Awate	

F.No.AICTE/FDP/2019/06/Workshop/216/03/18



ALL INDIA COUNCIL FOR TECHNICAL EDUCATION
NELSON MANDELA MARG, VASANT KUNJ, NEW DELHI

Certificate of Participation

This is to certify that **Dr. Preeti Hemnani** from **SIES Graduate School of Technology, Navi Mumbai** has participated and successfully completed the online workshop on **Universal Human Values** on the theme **"Inculcating Universal Human Values in Technical Education"** during **2-6 July, 2020** as organized by **All India Council for Technical Education(AICTE)**.


Dr. Rajnesh Arora
Chairman
National Coordination Committee for Induction Program


Prof. Rajive Kumar
Member Secretary, AICTE


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S. I. E. S. GRADUATE SCHOOL OF TECHNOLOGY
Sri Chandrasekarendra Saraswathi Vidyapuram
Sector - V, Nerul, Navi Mumbai - 400706

F.No AICTE/DF-343/010000000/204/2020




ALL INDIA COUNCIL FOR TECHNICAL EDUCATION
NELSON MANDELA MARG, VASANT KUNJ, NEW DELHI

Certificate of Participation

This is to certify that **Dr. Manal Karhure** from **SIES Graduate School of Technology, Nerul** has participated and successfully completed the online workshop on Universal Human Values on the theme "Inculcating Universal Human Values in Technical Education" during 13-17 May, 2020 as organized by All India Council for Technical Education(AICTE).


Dr. Rajneesh Arora
Chairman
National Coordination Committee for Induction Program


Prof. Rajive Kumar
Member Secretary, AICTE

F.No AICTE/DF-343/010000000/204/2020




ALL INDIA COUNCIL FOR TECHNICAL EDUCATION
NELSON MANDELA MARG, VASANT KUNJ, NEW DELHI

Certificate of Participation

This is to certify that **Mr. Mahesh Bhaurao Biradar** from **SIES Graduate School of Technology, Navi Mumbai** has participated and successfully completed the online workshop on Universal Human Values on the theme "Inculcating Universal Human Values in Technical Education" during 13-17 May, 2020 as organized by All India Council for Technical Education(AICTE).


Dr. Rajneesh Arora
Chairman
National Coordination Committee for Induction Program


Prof. Rajive Kumar
Member Secretary, AICTE


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Sector-V, Nerul, Navi Mumbai-400706



5-day
Online Faculty Development Program

on
DEEKSHARAMBH
(Student Induction Program)

10-14 AUGUST 2020

Organised

by

Department of Mechanical Engineering

NATIONAL INSTITUTE OF TECHNOLOGY PATNA

CERTIFICATE OF PARTICIPATION


This is to certify that Mr. Chavan Ashwinkumar Raosaheb from SIES Graduate School of Technology, Navi Mumbai, Maharashtra, has participated in "5-day online FDP on DEEKSHARAMBH (Student Induction Program)" organized by NIT Patna during 10-14 August 2020.

Place: Patna
Date: 14.08.2020

Certificate No. P1/20


Dr. Yogesh Kumar
Coordinator, Online FDP
DEEKSHARAMBH


Dr. Anil Kumar
Convener, Online FDP
DEEKSHARAMBH


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Sector-V, Nerul, Navi Mumbai-400706

UHV Sessions in First Year Engineering Time Table


SIES GRADUATE SCHOOL OF TECHNOLOGY DEPARTMENT OF HUMANITIES AND APPLIED SCIENCES Class Timetable (1st Half of 2020)									
Class: FE EXTIC (A)					W.a.f: 6 th Jan 2020				
Class IC: Dr. Ram Bhisre					Room No: 319/302				
Day/Time	9:00 to 10:00	10:00 to 11:00	11:00 to 12:00	12:00 to 1:00	1:00 to 1:30	1:30 to 2:30	2:30 to 3:30	3:30 to 4:30	4:30 to 7:30
Monday	CPL (A1) PYM CE L7		EM (VPP) 319	EP (GKM) 319	L U	WORKSHOP		EXTRA EG (SIA) 302	
	PCEL (A2) RKB LL								
	AC (A3) LG IT L1								
Tuesday	EC (SSK) 319	EG (SIA) 319	CPL (A2) THD CE L7		N C	PCE (RKB) 319	EXTRA EP (GKM) 319	EXTRA CP (PYM) 319	EXTRA GKM 302
			PCEL (A3) RKB LL						
			AC (A1) SIA IT L1						
Wednesday	EGC (A1) ASH/A2-SIA		EM (VPP) 319	CP (PYM) 319	H	CPL (A3) AVP CE L7		EM Tit. (A1) (VPP) 404	
	EPL (A1) GKM	ECL (A3) SSK				PCEL (A1) RKB LL			
	AC (A2) PLK IT L1								
Thursday	EP (GKM) 302	CP (PYM) 302	EGC (A2) OVP 111		B R E	EG (SIA) 319	EXTRA PCE (GKM) 319	EM Tit. (A2) (VPP) 404	
			EPL (A1) GKM	EPL (A2) GKM					
			ECL (A2) SSK	ECL (A1) SVK					
Friday	EM (VPP) 319	PCE (RKB) 319	EC (SSK) 319	EXTRA EM (VPP) 319	A K	EXTRA EG (SSK) 319	EXTRA CP (PYM) 319	EM Tit. (A3) (VPP) 404	


Name of the Subject:


- 1) EM: Engineering Mathematics-II
- 2) EP: Engineering Physics-II
- 3) EC: Engineering Chemistry-II
- 4) EG: Engineering Graphics
- 5) CP: C Programming
- 6) PCE: Professional Communication and Ethics-I
- 7) EPL (326): Engineering Physics Lab
- 8) ECL (325): Engineering Chemistry Lab
- 9) EGC (111): Engineering Graphics Conventional
- 10) AC: Auto Cad
- 11) CPL: C Programming Lab
- 12) PCEL: Professional Communication and Ethics Lab


Name of the Faculty:

- 1) VPP: Prof. Vijaya P. Patel
- 2) GKM: Dr. G. Kanthimathi
- 3) SSK: Dr. Smita S Kumar
- 4) SIA: Prof. Siddique Ahmad
- 5) PYM: Prof. Pranita Malhotra
- 6) RKB: Dr. Ram Bhisre
- 7) GKM: Dr. G. Kanthimathi
- 8) SVK: Dr. Savita Katiyar
- 9) ASH: Prof. Ajay, OVP: Prof. Oskar
- 10) PLK: Prof. Prajakta Kane, LG: Prof. Lokpriya Gayakwad
- 11) AVP: Prof. Amit Pawdhare, PIED: Prof. Teja Dhanwanth
- 12) RKB: Dr. Ram Bhisre


Prof. Mahesh Biradar
Timetable IC


Dr. R. Lakshmi Sodha
Timetable Coordinator


Dr. Manasi Kulkarni
Dean FE


Dr. Atul Kamkar
Principal

SIES GRADUATE SCHOOL OF TECHNOLOGY
DEPARTMENT OF HUMANITIES AND APPLIED SCIENCES
Class Timetable (1st Half of 2020)

Class: FE-EXTC + PPT (B)

W.a.F: 6th Jan 2020

Class IC: Prof. Ashwin Chavan

Room No: 319/111

Day/Time	9.00 to 10.00	10.00 to 11.00	11.00 to 12.00	12.00 to 1.00	1.00 to 1.30	1.30 to 2.30	2.30 to 3.30	3.30 to 4.30	4.30 to 5.30
Monday	EM (AKC) 319	PCE (SNK) 319	CPL (B1) PST CE L7		L	EC (SSK) 319	EXTRA EP (MMK) 319	EMT (B) (MBB) 405	
			PCEL (B2) SNK LL		U				
			AC (B3) GSK IT L1						
Tuesday	CPL (B2) PST CE L7		CP (PST) 319	EXTRA EM (AKC) 319	N	EG (MMA) 111	WORKSHOP		
	PCEL (B3) SNK LL				C				
	AC (B1) GSK IT L1								
Wednesday	EM (AKC) 319	CP (PST) 319	EGC (B1) PKA/B2-STA) 111		H	EP (MMK) 319	PCE (SNK) 319		
			EPL(B3) MMK	EC1(B3) SSK					
Thursday	EC (SSK) 319	EP (MMK) 319	EXTRA EQ (MMA) 319	EXTRA EC (SSK) 319	B	CPL (B3) PST CE L7		Project (MMK) 319	
						PCEL (B1) GRM LL			
						AC (B2) ASH IT L1			
Friday	EG (MMA) 111	EM (AKC) 111	EGC (B3) MAA 111		E	EXTRA CP (PST) 319	EM Tu-RI 407 (MBB)	EM Tu- (B2) (AKC) 408	
			EPL(B2) MMK	EPL(B1) GRM					
			ECL(B1) SVK	EC1(B2) SSK					

Name of the Subject:

- 1) EM: Engineering Mathematics-II
- 2) EP: Engineering Physics-II
- 3) EC: Engineering Chemistry-II
- 4) EG: Engineering Graphics
- 5) CP: C Programming
- 6) PCE: Professional Communication and Ethics
- 7) EM Tu: Engineering Mathematics Tutorial
- 8) EPL(B2): Engineering Physics Lab
- 9) ECL(B2): Engineering Chemistry Lab
- 10) EGC (111): Engineering Graphics Conventional
- 11) AC: Auto Cad
- 12) CPL: C Programming Lab
- 13) PCEL: Professional Communication and Ethics Lab

Name of the Faculty:


- 1) AKC: Prof. Ashwin Chavan
- 2) MMK: Dr. Manasi Karkare
- 3) SSK: Dr. Smita S Kumar
- 4) MMA: Prof. Mahamad Ali Ansari
- 5) PST: Prof. Prajñali Thakare
- 6) SNK: Prof. Sonna Khao
- 7) MBB: Prof. Mahesh Biradar
- 8) GRM: Dr. G. Ganthasathi
- 9) SVK: Dr. Savita Kalyar
- 10) PKA: Prof. Prashant, SJA: Prof. Siddhiquy Ahmed
- 11) GSK: Prof. Ganesh Kadam, ASH: Prof. Ajay Handiwale
- 12) PST: Prof. Prajñali Thakare
- 13) GRM: Dr. Geetajain Mishra

Prof. Mahesh Biradar
Timetable IC

Dr. K. Lakshmi Sudha
Timetable Coordinator

Dr. Manasi Karkare
Dean FE

Dr. Anil Kamkar
Principal


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Highlighted Part of University Syllabus covering the above mentioned topics:

AC 29/4/2013 Item no. 4.81

UNIVERSITY OF MUMBAI



Revised Syllabus

Program-Bachelor of Engineering

Course-Printing & Packaging Technology

(Second Year – Sem. III & IV)

under

FACULTY OF TECHNOLOGY

(As per Credit Based Semester and Grading System from 2013-14)

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Course Code	Course Name	Credits
PPC302	Principles of Packaging Technology	3

Objectives:

1. Study the basic concepts of packaging technology.
2. Understand marketing as an integral tool to packaging.
3. Recognize the importance of product-package interaction & its quality aspects in packaging.
4. Study the overall perspective of the packaging industry.

Outcomes: At the end of the course, learners should be able to;

1. Effectively observe and compare the different package forms.
2. Describe the importance of compatibility studies and their associated parameters.
3. Analyze the various hazards & environmental issues related to Packaging.
4. Predict the application packaging technology as a whole.

Sr. No.	Details	Hrs
1.	Module - 1: Packaging Introduction: Packaging – History, Need & Evolution Packaging Functions – Contain, Preserve, Protect, Inform, Identify, Sell. Packaging Hazards – Storage, Transportation, Chemical, Climatic, Biological. Packaging Classifications – Primary / Secondary / Tertiary, Unit / intermediate / Bulk, Flexible & Rigid.	09
2.	Module - 2: Packaging as a Marketing Tool: Market Considerations – Importance of Demography & Psychography, Retail Market (POP), Equity & Brand Name. Package Embellishment – Graphic Design Elements – Significance of Shape, Size, Colour, Font, Texture, Lines, Balance & Unity, Symmetry & Harmony. Shelf Appeal Studies: Recall Questioning, Focus Group, Eye-Tracking, S-scope studies	07
3.	Module - 3: Product-Package Compatibility Studies: Product Characteristics: Physical (nature, shape, size, texture, Centre of gravity, etc.), Chemical (Acidic, basic, reactivity etc.), Biological (Effect of micro-organisms) and Effect of moisture, oxygen and other gases.	09

	Package Characteristics: Material (Plastic, paper, wood, etc.), Physical (tensile, breaking load, burst, molecular/fibre direction, etc.), Chemical (Unreacted chemicals present, pH, etc.), Biological (sensitivity to micro-organisms), Permeability (Barrier properties – Absorption/Diffusion of moisture and gases).	
4.	Module - 4: Introduction to Quality: Quality Control – Need and importance in packaging. Significance of specifications. Significance of Testing, Introduction to Standards, Conditioning, Sampling. Examples of testing according to standards.	07
5.	Module - 5: Packaging Perspectives: Packaging Costs Packaging – Environmental considerations & waste management. Introduction to Packaging Laws & Regulations. Packaging Scenario – World & India – Comparison, Scope & Growth in India.	07

Texts / References:

1. Soroka W., "Fundamentals of Packaging Technology", 3rd Ed, IoPP, 2002.
2. Paine F. A., "The Packaging User's Handbook", 1st Ed, Blackie Academic & Professional, 1991.
3. Byett J. et al., "Packaging Technology", 2nd Ed, The Institute of Packaging (SA), 2001.
4. Selke, S. E. M., Culter, J. D. and Hernandez, R. J., "Plastics Packaging: Properties, processing, Applications and Regulation", Carl Hanser Verlag, USA, 2004.
5. Joseph F. H, Robert J. K, Hallie F., "Handbook of Package Engineering", Third Edition, Technomic Publishing, 1998.
6. Yam K. L., "The Wiley Encyclopedia of Packaging Technology", Third Edition, Wiley, 2009.

Term Work:

Term work shall include assignments and will carry 25 Marks.

Theory Examination:

1. Question paper will comprise of 6 questions, each carrying 20 marks.
2. Total 4 questions need to be solved
3. Question No.1 will be compulsory and based on entire syllabus.


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Course Code	Course Name	Credits
PPC404	Offset Printing	4+1.5

Objectives:

- * Gain the technical knowledge in offset printing.
- * Understand advance and integral plate making technologies used in printing industry.
- * Understand coherent challenges in pressroom.
- * Provide knowledge of quality control techniques associated with offset printing process.
- * Study web presses operations.

Outcomes: At the end of the course, learners should be able to;

- * Describe the various terminologies in offset printing process.
- * Operate offset machines and evaluate single colour sheet feed press.
- * Identify and rectify suitable solutions for errors associated with platemaking and pressroom.
- * Analyze troubles related with quality and can produce possible remedies to minimize print problems.

Sr. No.	Details	Hrs
1.	Module - 1: Introduction to Offset Printing Introduction, Basic working Principle of lithography, Elementary components of offset press, Press Configurations. Function and construction sheet fed printing unit, Cylinder setting, Pucking and Printing Pressure. Blanket: types, grade, requirements, problems and handling & storage. Dryers: types and working principle.	06
2.	Module - 2: Image Carrier Characteristics of image carrier for lithography, Plate making materials and chemicals, Chemistry of plate making, Light sources Premakeready of plate making process, Surface plate making, Deep-etch plate process, multimetal plates, Presensitised plates, Electrostatic plate process, Diffusion transfer process, Variable in plate preparation, Characteristics of watability, CTP, Types of CTP, CTP workflow.	07
3.	Module - 3: Inking and Dampening Introduction of typical inking system, Roller covering, Ink film thickness, Setting of	08



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	<p>rollers, Ink system operation, Inking system problems, Maintenance, Auxiliary devices.</p> <p>Dampening: Composition of dampening solution, Variables in dampening solution.</p> <p>Dampening system: Types of dampening system: Intermittent, Continuous and Combination. Roller covers, operating dampening system, Refrigeration, Alcohol substitute, Alcohol substitute issues, Maintenance, Operating problems.</p>	
4.	<p>Module - 4:</p> <p>4.1. Sheet Control - Introduction, Working and elements of Stream feeder, Pile Table, Sheet Separation Unit, Feedboard, Sheet detectors and its various types; Working of single sheet feeder, Sheet Separation Unit, Infeed section, Sheet transfer section, Delivery section: Sheet guiding devices, delivery assist devices.</p> <p>4.2. Premakeready and Makeready Operations - Printing plant layout: space allocation, accessibility of tools, floor layout and aisles. Tools, Materials: Stock Control, Paper, Inks etc. Inking and Dampening system wash up. Teamwork, Training and Scheduling.</p> <p>Makeready: Introduction and types of makeready, makeready procedures, preparation of press for new pressrun, Checking trial impressions.</p>	07
5.	<p>Module - 5:</p> <p>5.1. The Pressrun - Inspection of press sheets, use of tags, Control of press functions: maintaining inking, dampening and other units. Quality control during the pressrun: densitometry, colour control bars, Controlling colour during the pressrun, Light and standard viewing conditions.</p> <p>5.2. Troubles & Trouble Shooting - Causes and remedies: Printing unit troubles, defects in inking system, dampening troubles, plate defect, Blanket troubles, Paper troubles, Ink defects.</p>	09
6.	<p>Module - 6:</p> <p>Web Offset Presses - Sections of web offset presses: Infeed unit, Printing unit, Dryers and Chillers, Folders and structures, sheet delivery unit. Ink supply, Dampening system. Web Travel: Web tension control, web edge control; register control, slitters, turner bar, Former and types of folders, Types of web presses: typical configurations and various formats. Remote control systems.</p>	07
7.	<p>Module - 7:</p>	08


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<p>Quality Control - Quality control aids: Print control strips: Solid color fields, Secondary color, Microlines, Shadow and highlight dots, Star Target, Variable dot size elements, Halftone for measurement, star and doubling, Concentric circles, Line tint areas, Dot gain scales, Slur bars, Register marks, Color control bars, Color Measurement and Control Systems: Densitometric Color Measurement, Spectral Color Measurement, Image Measurement, Register Measurement and Control, Inspection of the Printed Image, In-line Print Quality Measurement and Control Systems</p>

Texts / References:

1. Lloyd P., De Jidas & Thomas M. Destree "Sheet fed Offset Press Operating" GATF
2. Helmut Kipphan "Handbook of Print Media" Heidelberg
3. J. Michael Adams "Printing Technology" 5th Edition, Delmar
4. Michael Barnard "The Print & Production Manual" PIRA
5. C. S. Mishra "Lithographic Image Carrier" Anupam Prakashan Allahabad
6. C. S. Mishra "Technology of Offset Printing" Anupam Prakashan Allahabad
7. Prakash Shetty "Science and Technology of Printing Materials" MJP Publishers

Term Work:

Assignments covering the entire syllabus will be given to learners.

During practical sessions learners should understand and perform the practical as per the standard procedures. Minimum eight practicals should be conducted.

List of experiments:

1. Operating levers and control system of Sheetfed offset machine.
2. Preparation of infeed and delivery unit for given stock.
3. Offset plate mounting.
4. Offset blanket mounting.
5. Preparation of inking and dampening system for pressrun.
6. Printing single colour job on sheetfed press.
7. Study of packing and printing pressure on print.
8. Effect of ink and dampening on print quality.
9. To print multicolour job on single colour sheetfed press Part I



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Course Code	Course Name	Credits
PPC302	Principles of Packaging Technology	3

Objectives:

1. Study the basic concepts of packaging technology.
2. Understand marketing as an integral tool to packaging.
3. Recognize the importance of product-package interaction & its quality aspects in packaging.
4. Study the overall perspective of the packaging industry.

Outcomes: At the end of the course, learners should be able to;

1. Effectively observe and compare the different package forms.
2. Describe the importance of compatibility studies and their associated parameters.
3. Analyze the various hazards & environmental issues related to Packaging.
4. Predict the application packaging technology as a whole.

Sr. No.	Details	Hrs
1.	Module - 1: Packaging Introduction: Packaging – History, Need & Evolution. Packaging Functions – Contain, Preserve, Protect, Inform, Identify, Sell. Packaging Hazards – Storage, Transportation, Chemical, Climatic, Biological. Packaging Classifications – Primary / Secondary / Tertiary, Unit / Intermediate / Bulk, Flexible & Rigid.	09
2.	Module - 2: Packaging as a Marketing Tool: Market Considerations – Importance of Demography & Psychography, Retail Market (POP), Equity & Brand Name. Package Embellishment – Graphic Design Elements – Significance of Shape, Size, Colour, Font, Texture, Lines, Balance & Unity, Symmetry & Harmony. Shelf Appeal Studies: Recall Questioning, Focus Group, Eye-Tracking, S-scope studies	07
3.	Module - 3: Product-Package Compatibility Studies: Product Characteristics: Physical (nature, shape, size, texture, Centre of gravity, etc.), Chemical (Acidic, basic, reactivity etc.), Biological (Effect of micro-organisms) and Effect of moisture, oxygen and other gases.	09


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	Package Characteristics: Material (Plastic, paper, wood, etc.), Physical (tensile, breaking load, burst, molecular/fibre direction, etc.), Chemical (Unreacted chemicals present, pH, etc.), Biological (sensitivity to micro-organisms), Permeability (Barrier properties – Absorption/Diffusion of moisture and gases).	
4.	Module - 4: Introduction to Quality: Quality Control – Need and importance in packaging. Significance of specifications. Significance of Testing, Introduction to Standards, Conditioning, Sampling. Examples of testing according to standards.	07
5.	Module - 5: Packaging Perspectives: Packaging Costs Packaging – Environmental considerations & waste management. Introduction to Packaging Laws & Regulations. Packaging Scenario – World & India – Comparison, Scope & Growth in India.	07

Texts / References:

1. Soroka W., "Fundamentals of Packaging Technology", 3rd Ed, IoPP, 2002.
2. Paine F. A., "The Packaging User's Handbook", 1st Ed, Blackie Academic & Professional, 1991.
3. Byett J. et al., "Packaging Technology", 2nd Ed, The Institute of Packaging (SA), 2001.
4. Selke, S. E. M., Culter, J. D. and Hernandez, R. J., "Plastics Packaging: Properties, processing, Applications and Regulation", Carl Hanser Verlag, USA, 2004.
5. Joseph F. H, Robert J. K, Hallie F., "Handbook of Package Engineering", Third Edition, Technomic Publishing, 1998.
6. Yam K. L., "The Wiley Encyclopedia of Packaging Technology", Third Edition, Wiley, 2009.

Term Work:

Term work shall include assignments and will carry 25 Marks

Theory Examination:

1. Question paper will comprise of 6 questions, each carrying 20 marks.
2. Total 4 questions need to be solved.
3. Question No.1 will be compulsory and based on entire syllabus.



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Course Code	Course Name	Credits
IT10020	Environmental Management	03

Objective:

1. Understand and identify environmental issues relevant to India and global concerns
2. Learn concepts of ecology
3. Familiarize environment related legislation

Outcomes: Learner will be able to:

1. Understand the concept of environmental management
2. Understand ecosystem and interdependence, food chain etc.
3. Understand and interpret environment related legislation


Sl. No.	Detailed Contents	Wts.
01	Introduction and Definition of Environment, Significance of Environment Management for sustainable management, Green opportunities, Environmental issues relevant to India, Sustainable Development, the Energy scenario	05
02	Global Environmental concerns - Global Warming, Acid Rain, Ozone Depletion, Hazardous Waste, Polluted Air-quality, Loss of Biodiversity, Industrial Hazard, Disaster, Atomic/Biochemical hazards, etc.	06
03	Concepts of Ecology, Ecosystems, and interdependence between living organisms, habitats, feeding habits, carrying capacity, food chain, etc.	05
04	Scope of Environmental Management, Role and Functions of Environment as a planning and regulating agency Environmental Quality, Management and Corporate Environmental Responsibility	10
05	Global Quality Environmental Management, ISO 14000, EMS certification	05
06	Recent enactment of major legislations like Environment Protection Act, Air (P & C) Act, Water (P & C) Act, Wildlife Protection Act, Forest Act, Fisheries Act, etc.	05

Assessment:

Internal Assessment for 20 marks

Including Two compulsory Class Tests

Final test based on approximately 80% of contents and second test based on remaining contents approximately 20%, but excluding contents covered in Test I.


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Subject Code	Subject Name	Credits
CTL605	Network Programming Laboratory	10

Laboratory Course Objectives

Learner will be able to:

1. Configure Linux Network
2. View and edit routing tables
3. Configure Linux Router
4. Configure Linux FTP Server
5. Install and Configure DNS server
6. Install and configure web server

Module	Detailed content	Hours
1	Study of Networking Commands (Ping, Traceroute, TELNET) including remote ARP, RARP and Network Configuration Files.	2
2	Linux Network Configuration i. Configuring NIC's IP Address ii. Determining IP Address and MAC Address using ifconfig command iii. Changing IP Address using ifconfig iv. Static IP Address and Configuration by Editing v. Determining IP Address using DHCP vi. Configuring Hostname in /etc/passwd file	4
3	Setting up multiple IP Addresses on a single LAN	2
4	Using iptable and route commands to do the following: i. View current routing table ii. Add and delete routes iii. Change default gateway	2
5	Using CLI configuration Tools to add Configure Ethernet Card	2
6	Configuring Linux as a router by enabling IP Forwarding	2
7	Configuring remote login services, telnet & ssh	2


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Subject Code	Subject Name	Credits
CPL605	Network Programming Laboratory	02

Laboratory Course Outcomes:

Learner will be able to

1. Configure Linux Network
2. View and edit routing tables
3. Configure Linux Router
4. Configure Linux FTP server
5. Install and Configure DNS server
6. Install and configure web server

Module	Detailed content	Hours
1	Study of Networking Commands (Ping, Tracer, TELNET, nslookup, netstat, ARP, RARP) and Network Configuration Files.	2
2	Linux Network Configuration i. Configuring NIC's IP Address. ii. Determining IP Address and MAC Address using ifconfig command. iii. Changing IP Address using ifconfig. iv. Static IP Address and Configuration by Editing. v. Determining IP Address using DHCP. vi. Configuring Hostname in etc/hosts file.	4
3	Setting up multiple IP Addresses on a single LAN.	2
4	Using netstat and route commands to do the following: i. View current routing table. ii. Add and delete routes. iii. Change default gateway.	2
5	Using GUI configuration Tools to add/configure Ethernet Card.	2
6	Configuring Linux as a router by enabling IP Forwarding.	2
7	Configuring remote login Services, telnet & ssh.	2



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Course Code	Course/Subject Name	Credits
CPE6012	Software Project Management	02

Outcomes: Learner will be able to...

1. Learner will be able to define characteristics of a project.
2. Learner will be able to appreciate project management principles, risk in environment and the management challenges for effective project management.
3. Learner will be able to apply the project management principles across all phases of a project.
4. Learner will be able to demonstrate use of tools and techniques for the management of a project plan, monitor and controlling a project schedule and budget, tracking project progress.

Module	Detailed Contents	Hrs.
01	An overview of IT Project Management 1.1 Introduction, the state of IT project management, context of project management, need of project management, project goals, project life cycle and IT development, extreme project management, PMBOK.	02
02	Conceptualizing and Initializing the IT Project 2.1 An information technology project methodology (ITPM), project feasibility, request for proposal (RFP), the business case, project selection and approval, project contracting, IT governance and the project office.	04
03	The Human Side of Project Management 3.1 Introduction, organization and project planning, the project team, the project environment.	02
04	Developing the Project Charter and Project Plan 4.1 Introduction, project management process, project integration management, the project charter, project planning framework, the contents of a project plan, the planning process. 4.2 The Work Breakdown Structure (WBS), the linear responsibility chart, multidisciplinary teams.	04
05	The Scope Management Plan 5.1 Introduction, scope planning, project scope definition, project scope verification, scope change control.	04
06	The Project is Schedule, Budget and Risk Management 6.1 Introduction, developing the project schedule, project management	08


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Course Code	Course/Subject Name	Credits
CP701 / CP802	Project I/ II	3 / 6

Guidelines for Project


- o Students should do literature survey/visit industry/analyze current trends and identify the problem for Project and finalize in consultation with Guide/Supervisor. Students should use multiple literatures and understand the problem.
- o Students should attempt solution to the problem by experimental/simulation methods.
- o The solution to be validated with proper justification and report to be compiled in standard format.

Guidelines for Assessment of Project I

- o Project I should be assessed based on following points
 - Quality of problem selected
 - Clarity of Problem definition and Feasibility of problem solution
 - Relevance to the specialization
 - Clarity of objective and scope
 - Breadth and depth of literature survey
- o Project I should be assessed through a presentation by the student project group to a panel of Internal examiners appointed by the Head of the Department/Institute of respective Programme.

Guidelines for Assessment of Project II

- o Project II should be assessed based on following points
 - Quality of problem selected
 - Clarity of Problem definition and Feasibility of problem solution
 - Relevance to the specialization / Industrial trends
 - Clarity of objective and scope
 - Quality of work attempted
 - Validation of results
 - Quality of Written and Oral Presentation
- o Report should be prepared as per the guidelines issued by the University of Mumbai.
- o Project II should be assessed through a presentation by the student project group to a panel of Internal and External Examiners appointed by the Head of the Department/Institute of respective Programme.
- o Students should be encouraged to present their work in Conferences/students


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Course Code	Course Name	Credits
PPC701	Sustainable Packaging	3+1

Objectives:

1. To understand concepts of sustainable development
2. To study metrics for sustainable packaging & LCA
3. To various waste management systems
4. To study biopolymers & biobased polymers

Outcomes: At the end of the course, learners should be able to;

1. Describe the need & scope of sustainability in a process, product/package or equipment.
2. Describe & analyze the metrics & LCA for packaging sustainability.
3. State explain the various waste management systems.
4. Describe the need of biopolymers & biobased polymers in sustainable economy.

Sr. No.	Details	Hrs
1.	Module 1 - Introduction to Sustainability Sustainable Development & Processes, Need Today, Three Pillars of Sustainability & their effects on sustainable growth - Relation with environment waste management	04
2.	Module 2 - Concept of Sustainable Packaging Relevance of Sustainable Development in Packaging Sector - Traditional Packaging vs. Sustainable Packaging - Important terminologies - Sustainable Packaging in India & Abroad - Concept of 3R's & Source Reduction - Concept of Sustainable Packaging & Printing Processes - Concept of Sustainable Design - Twelve Principles of Sustainable Packaging - Examples of sustainable materials and processes	09
3.	Module 3 - Metrics for Sustainable Packaging & LCA Introduction to Metrics of Sustainable Packaging - Terminologies - Case studies for metrics & their evaluation - Packaging Sustainability Metrics in developed & developing economies. Introduction to LCA Methodology- Implications from ISO 14000-ISO 14044. Softwares & some Case Studies, Modelling & Analysis.	10
4.	Module 4 - Waste Management Waste Management Definition and types of waste, solid waste management, Industrial / hazardous wastes, functional elements of solid waste management – storage, collection, transfer and transport, processing and recovery.	04

5.	Module 5 - Sustainable Economics & CSR Activities for Sustainable Development Environmental Compliance: National & International Legislations - Cost Factors & their implications - Sustainable Development Policies - Corporate Social Responsibility & Key Performance Indicators (KPIs)	04
6.	Module 6 - Biopolymers & Biobased Polymers Introduction to Biopolymers & biobased polymers - Types & synthesis - Applications - Implications in Sustainable Packaging	08

Texts / References:

1. Scott Boylston , Designing Sustainable Packaging, , Laurence King Publishing, 2009.
2. Wendy Jedlicka, Packaging Sustainability: Tools, Systems and Strategies for Innovative Package Design, 1st Edition, Wiley, 2009
3. Wendy Jedlicka, Sustainable Graphic Design: Tools, Systems and Strategies for Innovative Print Design, 1st Edition, Wiley, 2009.
4. Sustainable Materials, Processes and Production, 1st Edition, Thames and Hudson, 2013
5. M. Braungart, W. McDonough, Cradle to Cradle: Remaking the Way We Make Things, 1st edition, North Point Press, 2002
6. W. Klöpffer, B. Grahl, Life Cycle Assessment (LCA), Wiley VCH, 2014
7. L. Lakshmi, Waste Management: Environmental Impact, icfai university press 2008.
8. J. M. Dewan, K. N. Sudarshan, Solid Waste Management Hardcover, Discovery Publishing Pvt. Ltd., 1999

Term Work:

Assignments covering the entire syllabus will be given to learners.

During tutorial sessions learners should study the LCA tools on software like GaBi/OpenSource LCA & critically review the case studies from research journals

Assignments:	10 Marks
Tutorials & Continuous Assessment:	10 Marks
Attendance (Theory + Tutorials):	05 Marks

Course Code	Course Name	Credits
ILO7017	Disaster Management and Mitigation Measures	03

Objectives:

1. To understand physics and various types of disaster occurring around the world
2. To identify extent and damaging capacity of a disaster
3. To study and understand the means of losses and methods to overcome /minimize it.
4. To understand role of individual and various organization during and after disaster
5. To understand application of GIS in the field of disaster management
6. To understand the emergency government response structures before, during and after disaster

Outcomes: Learner will be able to...

1. Get to know natural as well as manmade disaster and their extent and possible effects on the economy.
2. Plan of national importance structures based upon the previous history.
3. Get acquainted with government policies, acts and various organizational structure associated with an emergency.
4. Get to know the simple do's and don'ts in such extreme events and act accordingly.

Module	Detailed Contents	Hrs
01	Introduction 1.1 Definition of Disaster, hazard, global and Indian scenario, general perspective, importance of study in human life, Direct and indirect effects of disasters, long term effects of disasters. Introduction to global warming and climate change.	03
02	Natural Disaster and Manmade disasters: 2.1 Natural Disaster: Meaning and nature of natural disaster, Flood, Flash flood, drought, cloud burst, Earthquake, Landslides, Avalanches, Volcanic eruptions, Mudflow, Cyclone, Storm, Storm Surge, climate change, global warming, sea level rise, ozone depletion 2.2 Manmade Disasters: Chemical, Industrial, Nuclear and Fire Hazards. Role of growing population and subsequent industrialization, urbanization and changing lifestyle of human beings in frequent occurrences of manmade disasters.	09
03	Disaster Management, Policy and Administration 3.1 Disaster management: meaning, concept, importance, objective of disaster management policy, disaster risks in India, Paradigm shift in disaster management. 3.2 Policy and administration: Importance and principles of disaster management policies, command and co-ordination of in disaster management, rescue operations-how to start with and how to proceed in due course of time, study of flowchart showing the entire process.	06
04	Institutional Framework for Disaster Management in India: 4.1 Importance of public awareness, Preparation and execution of emergency management programme. Scope and responsibilities of National Institute of Disaster Management (NIDM) and National disaster management authority (NDMA) in India. Methods and measures to avoid disasters, Management of	06

	casualties, set up of emergency facilities, importance of effective communication amongst different agencies in such situations. 4.2 Use of Internet and softwares for effective disaster management. Applications of GIS, Remote sensing and GPS in this regard.	
05	Financing Relief Measures: 5.1 Ways to raise finance for relief expenditure, role of government agencies and NGO's in this process, Legal aspects related to finance raising as well as overall management of disasters. Various NGO's and the works they have carried out in the past on the occurrence of various disasters, Ways to approach these teams. 5.2 International relief aid agencies and their role in extreme events.	09
06	Preventive and Mitigation Measures: 6.1 Pre-disaster, during disaster and post-disaster measures in some events in general 6.2 Structural mapping: Risk mapping, assessment and analysis, sea walls and embankments, Bio shield, shelters, early warning and communication 6.3 Non Structural Mitigation: Community based disaster preparedness, risk transfer and risk financing, capacity development and training, awareness and education, contingency plans. 6.4 Do's and don'ts in case of disasters and effective implementation of relief aids.	06

Assessment:

Internal:

Assessment consists of two tests out of which; one should be compulsory class test and the other is either a class test or assignment on live problems or course project.

End Semester Theory Examination:

Some guidelines for setting up the question paper. Minimum 80% syllabus should be covered in question papers of end semester examination. In question paper weightage of each module will be proportional to number of respective lecture hours as mention in the syllabus.

1. Question paper will comprise of total six question
2. All question carry equal marks
3. Questions will be mixed in nature (for example supposed Q.2 has part (a) from module 3 then part (b) will be from any module other than module 3)
4. Only Four question need to be solved.

REFERENCES:

1. 'Disaster Management' by Harsh K.Gupta, Universities Press Publications.
2. 'Disaster Management: An Appraisal of Institutional Mechanisms in India' by O.S.Dagur, published by Centre for land warfare studies, New Delhi, 2011.
3. 'Introduction to International Disaster Management' by Damon Copolla, Butterworth Heinemann Elsevier Publications.
4. 'Disaster Management Handbook' by Jack Pinkowski, CRC Press Taylor and Francis group.
5. 'Disaster management & rehabilitation' by Rajdeep Dasgupta, Mittal Publications, New Delhi.
6. 'Natural Hazards and Disaster Management, Vulnerability and Mitigation - R B Singh, Rawat Publications
7. Concepts and Techniques of GIS -C.P.Lo Albert, K.W. Yonng - Prentice Hall (India) Publications. (Learners are expected to refer reports published at national and International level and updated information available on authentic web sites)

Sub Code	Subject Name	Teaching Scheme			Credits Assigned			
		Theory	Pract.	Tut.	Theory	TW/Pract	Tut.	Total
6	Environmental studies	02	-	-	02	-	-	02

Sub. Code	Subject Name	Examination Scheme							Total
		Theory (out of 75)				Term Work	Pract.	Oral	
		Internal Assessment (out of 15)			End sem. exam (out of 60)				
		Test 1	Test 2	Average of Test 1 and Test 2					
6	Environmental studies	15	15	15	60	-	-	-	75


Details of the syllabus:-

Sr. No.	Details	Hrs
Module 1	<p>Multidisciplinary Nature of Environmental Studies:</p> <ul style="list-style-type: none"> • Scope and Importance • Need for Public Awareness • Depleting Nature of Environmental resources such as Soil, Water, Minerals, and Forests. • Global Environmental Crisis related to Population, Water, Sanitation and Land. • Ecosystem: Concept, Classification, Structure of Ecosystem, overview of Food chain, Food web and Ecological Pyramid 	04



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Module 2	Sustainable Development <ul style="list-style-type: none"> • Concept of sustainable development • Social, Economical and Environmental aspect of sustainable development. • Control Measures: 3R (Reuse, Recovery, Recycle), Appropriate Technology, Environmental education, Resource utilization as per the carrying capacity. 	04
Module 3	Environmental Pollution: <ul style="list-style-type: none"> • Air Pollution: Sources, Effects of air pollution with respect to Global Warming, Ozone layer Depletion, Acid Rain, Photochemical smog, Two Control Measures- Bag house Filter, Venturi scrubber . Case Study: Bhopal Gas Tragedy • Water Pollution: Sources and Treatment, Concept of waste waters - Domestic & Industrial and treatment. Case Study: Minamata Disease. • Land Pollution: Solid waste, Solid waste Management by Land filling, Composting. • Noise Pollution; Sources and Effects • E-Pollution: Sources and Effects. 	07
Module 4	Environmental Legislation: <ul style="list-style-type: none"> • Overview • Ministry of Environment and Forests (MoE&F), Organizational structure of MoE&F. • Functions and powers of Central Control Pollution Board. • Functions and powers of State Control Pollution Board. • Environmental Clearance, Consent and Authorization Mechanism. • Environmental Protection Act • Any two case studies pertaining to Environmental Legislation. 	05
Module 5	Renewable sources of Energy: <ul style="list-style-type: none"> • Limitations of conventional sources of Energy. • Various renewable energy sources. • Solar Energy: Principle, Working of Flat plate collector & Photovoltaic cell. • Wind Energy: Principle, Wind Turbines. 	05


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	<ul style="list-style-type: none"> Hydel Energy: Principle, Hydropower generation. Geothermal Energy: Introduction, Steam Power Plant 	
Module 6	Environment and Technology <ul style="list-style-type: none"> Role of Technology in Environment and health Concept of Green Buildings, Indoor air pollution Carbon Credit: Introduction, General concept. Disaster Management: Two Events: Tsunami, Earthquakes, Techniques of Disaster Management Case Study: Earthquake in Japan 	05

Theory Examination:

1. Question paper will comprise of total 6 questions, each of 15 marks.
2. Total four questions need to be solved.
3. Question Number One will be compulsory and it will be based on entire syllabus wherein sub questions of 2 to 3 marks will be asked.
4. Remaining questions i.e Q.2 to Q.6 will be mixed in nature and will be divided in three parts (a),(b) &(c) and they will belong to different modules.
5. In question paper, weight of each module will be proportional to number of respective lecture hours as mentioned in the syllabus.

Recommended Books:

1. Textbook of Environmental studies by Erach Bharucha, University Press.
2. Environmental Studies by R.Rajagopalan, Oxford University Press.
3. Essentials of Environmental Studies by Kurian Joseph &Nagendran, Pearson Education
4. Renewable Energy by Godfrey Boyle, Oxford Publications.
5. Perspective Of Environmental Studies, by Kaushik and Kaushik, New Age International
6. Environmental Studies by. Anandita Basak, Pearson Education
7. Textbook of Environmental Studies by Dave and Katewa, Cengage Learning
8. Environmental Studies by Benny Joseph, TataMcGraw Hill


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