

M.E.S. COLLEGE OF ENGINEERING, PUNE - 411001

DEPARTMENT ACTIVITY REPORT YEAR 2022-23 (SEM-II)

**DEPARTMENT OF ELECTRONICS & TELECOMMUNICATION
ENGINEERING**

Activity Incharge

HOD

Principal

Prof.B. M. Narute

Dr. P. P.Mane

Dr.M. P. Dale

Prof. U.D.Dattasamje

DEPARTMENT ACTIVITY REPORT FOR 2022-23 SEM-II/2023

Term Duration – II: From 23/01/2023 to 31/05/2023

No. of Instructional days: 90

Table of contents

Sr. No	Index	Page No.
A	Academic & Activity Calendar	3
B	Activity Details	8
C	Number of Students Registered/ Detained	8
D	Result Analysis : Term wise compared with last examination	9
E	Student Achievements	13
F	Staff Members Abbreviations	15
G	Faculty Activity / Development	16
H	Faculty achievement / Special work / Lab Development	18
I	Department Activities	
	Parent Meet	21
	Guest Lecture	23
	Workshop	26
	Co-curricular	37
	Extra- curricular	39
	Industry Visit	46

A. Academic & Activity Calendar:-

S r N o	Ins t i t u t i o n a l D e v e l o p m e n t A c t i v i t y	Acti v i t y D e t a i l s	G r o u p L e a d e r s	ID C D e p a r t m e n t C o o r d i n a t o r	Detail e d A c t i v i t i e s	Pl a n n e d W e e k	J u l y																															A u g u s t																															S e p t e m b e r																															O c t o b e r																															N o v e m b e r																															D e c e m b e r																															R e s i g n G o o l	S i g n r e c e s F u n d s
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4	Ma n a g e m e n t R e v i e w	Revie w o f A c t i v i t i e s 1,2,3, 4. (Atte n d e e s: P, V P, H e a d D e a n s, I Q A C, C E O, R e g i s t r a r, L i b r a r i a n, T P O w i t h T r u s t e e s)	Pr i n c i p a l/ V i c e - P r i n c i p a l	PP M			W																															W																															W																															W																															W																															W																																
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D. Result Analysis: Term wise compared with last Examination

SE (E&TC) 2022-23 SEM- I

S. E. (E&TC) Examination Nov/Dec 2022 under Savitribai Phule Pune University was declared on 28/03/2023. The College congratulates all the students who have successfully cleared examination. Following list shows merit wise first five students and the table shown below indicates the analysis of all the students those who have appeared for the exams.

Sr. No.	Name of the student	SGPA
1	SWAPNIL DHONDIRAM AKHADE	8.36
2	NAIK DEVANSH PARESH	8.14
3	NEERAJ THOMBRE	8.05
4	NAIK SHRUTI SURYAKANT	7.86
5	POPALGHAT VISHNU SANTOSH	7.73
6	SIDDHARTH ANDHALE	7.73

RESULT ANALYSIS – Nov/ Dec 2022 EXAMINATION

S.E. (E&TC) SEM – I

Class	Appeared	I Dist	I Class	H II Class	II Class	Pass Class	Full Pass	% of Passing
SE	151	04	22	14	17	02	59	39.07

SUBJECT WISE FAILURE

Sr. No.	Subject	No. of Students Appeared	No. of Students Failed	% Failure
1	Electronic Circuits (TH)	151	83	54.96
2	Digital Circuits (TH)	151	27	17.88
3	Electrical Circuits (TH)	151	48	31.78
4	Data structures(TH)	151	14	9.27
5	Engineering Mathematics III(TH)	151	61	40.39
6	Electronic Circuit Lab (PR)	151	07	4.63
7	Digital circuits Lab (PR)	151	13	8.60
8	Data Structures Lab (OR)	151	01	0.66

TE (E&TC) 2022-23 SEM-I

T. E. (E&TC) Examination Nov/Dec 2023 under Pune University was declared on 21.03.2023. The College congratulates all the students who have successfully cleared examination. Following list shows merit wise first five students and the table shown below indicates the analysis of all the students those who have appeared for the exams.

Rank	Name of student	SGPA
1	ANJALI SURYAKANT JADHAV	9.05
2	BALGUDE PRANJAL VILAS	8.29
3	MALI ADITI ARUN	8.05
3	THANVI KHUSHAL RAJENDRA	8.05
4	AVCHARE MRUNAL MANIK	7.95
4	JADHAV CHAITANYA PRAVIN	7.95
5	DAREKAR SANKET RAVINDRA	7.81
5	KULKARNI RIDDHI VIVEK	7.81
5	PUJARI SURAJ SANDIP	7.81

RESULT ANALYSIS – NOV 2021 EXAMINATION**T.E. (E&TC) SEM – I**

Class	Appeared	I Dist	I Class	H II Class	II Class	Pass Class	Full Pass	% of Passing
TE	152	09	18	09	03	01	40	26.31

SUBJECT WISE FAILURE

Sr. No.	Subject	Head	No. of Students Appeared	No. of Students Failed	% Failure
1	304183A DATABASE MANAGEMENT	TH	152	29	19.07

2	304184A MICROCONTROLLERS	TH	152	80	52.63
3	304181A DIGITAL COMMUNICATION	TH	152	56	36.8
4	404184 Elective I (FUND. OF JAVA PRO.)	TH	98	39	39/98=39.79
5	404184C Elective I (COMP. NETWORKS)	TH	44	16	16/44=36.36
6	404184D Elective I (DIGITAL SIGNAL PRO.)	TH	10	06	06/10=60
7	304182A ELECTROMAGNETIC FIELD THEORY	TH	152	68	44.73
8	304188C MICROCONTROLLER LAB	PR	152	25	16.44
9	ELECTIVE-1 LAB	PR	152	02 java+0+0	1.31
10	304186C DIG. COMM LAB	PR	152	11	7.2
11	304187D DATA. MANAGEMENT LAB	OR	152	08	5.2

BE (E&TC) 2022-23 SEM-I

B. E. (E&TC.) Examination Nov/Dec 2022 under Pune University was declared on **16th March 2023** The College congratulates all the students who have successfully cleared examination. Following list shows merit wise first five students and the table shown below indicates the analysis of all the students those who have appeared for the exams.

Rank Holders of B.E

Rank	Name of student	SGPA
1	KHOCHARE VINAY ASHOK	9.1
2	NILAWAR ESHIKA PRAVIN	9

3	MOHASIN MANSUR MULLA	8.95
3	NAIK MIHIR PARESH	8.95
4	NALAWADE VAISHNAVI SUNIL	8.8
5	BOKARE VAIBHAV KESHAV	8.65
5	BORBALE DIPAK ARUNAPPA	8.65
5	SANSKRATI PATANKAR	8.65
5	THAKUR AARTI YOGESH	8.65

**RESULT ANALYSIS - NOV/DEC 2023 EXAMINATION
B.E. (E&TC) SEM – I**

Class	Appeared	I Dist	I Class	H II Class	II Class	Pass Class	Full Pass	% of Passing
161	161	37	29	15	20	0	101	62.73

SUBJECT WISE FAILURE

Sr. No.	Subject	Head	No. of Students Appeared	No. of Students Failed	% Failure
1	RADIATION & MICROWAVE THEORY	TH	161	40	24.84
2	VLSI DESIGN AND TECHNOLOGY	TH	161	42	26.08
3	CLOUD COMPUTING	TH	161	16	9.93
4	JAVA SCRIPT	TH	121	29	23.966

5	EMBEDDED & RTOS	TH	40	05	12.5
6	DEEP LEARNING	TH	95	05	5.26
7	DATA MINING	TH	66	15	22.72
8	LAB PRAC-1(RMT & CLOUD COMP)	OR	161	05	3.10
9	LAB PRACTICE - 2	PR	161	13	8.07
10	HON-MACHINE LEARNING	TH	13	07	53.84
11	HON-MACH.LEARN FOR IOT	TH	10	03	30
12	HON-MACH. LEARN.& DATA SCI.	TH	20	09	45

E. Achievements of Students:

Sr. No.	Name of staff/student	Paper Details
1	Vinay Khochare Sakshi Garad Pranav Bhalerao Dr. K. S. Tiwari Best Paper Award	Paper Presented in conference ACCET 2023 “ Design and Implementation of Reversible Vedic Multiplier on Artix-7 FPGA”
2	Vinay Khochare Sakshi Garad Pranav Bhalerao Dr. K. S. Tiwari Best Project Award	Design of Reversible ALU

List of students placed in various companies

Sr. No.	Name	Company Name	Package
1	Aarti Yogesh Thakur	Actalent	4.5 LPA
2	Kanishka Bhalchandra Pawar	Actalent	4.5 LPA
3	Dipak Borbale	Actalent	4.5 LPA
4	Vipul Sawant	Actalent	4.5 LPA

5	Tejas Rohidas Sonawane	Actalent	4.5 LPA
6	Shashikant Shinde	Actalent Services	4.5 LPA
7	Vaishnavi Bhale	ACTALENT	4.5 LPA
8	Ruchika Bhoyar	Bosch chassis system India Pvt Ltd chakan, Pune	4.5 LPA
9	Akshada Shinde	Bosch Chassis Systems India Pvt Ltd	4.5 LPA
10	Disha Gaikwad	Bosch chassis system India Pvt Ltd chakan, Pune	4.5 LPA
11	Arnav Deepak Botre	Consultadd	5 LPA
12	Bhakti Atul Landge	Consultadd Services Private Limited	5 LPA
13	Toral Jagdish Katke	ConsultAdd	5 LPA
14	Kshitija Ingale	infochips an Arrow Compny	4 LPA
15	Chaitanya Mahajan	E Infochip	4 LPA
16	Pragati Babasaheb Latpate	GIC	4 LPA
17	Ramsha Shaikh	Gic	4 LPA
18	Sanskрати Patankar	GIC	4 LPA
19	Mohsin Mansur Mulla	Godrej Infotech Limited	3.5 LPA
20	Vaishnavi Sunil Nalawade	Godrej Infotech	3.4 LPA
21	Rohan Ulhas Gilbile	SAS Research & Development India Pvt. Ltd.	6.5 LPA
22	Rashmi Ravindra Mali	SAS	6.5 LPA
23	Aniket Dipak Wasnik	SAS	6.5 LPA
24	Chaitali Pawar	Tata consultancy Services	3.36 LPA
25	Vaibhavi Sanjay Shewale	TCS	7 LPA
26	Harshal Sandip Patil	TCS	4 LPA
27	Aditya Ajay Jadhav	TCS	7 LPA
28	Sanket Pravin Patil	TCS	3.36 LPA

29	Shantanu Joshi	TCS	7 LPA
30	Sakshi Garad	Tejas Networks	10 LPA
31	Vinay Ashok Khochare	Tejas Network	10 LPA
32	Medha Patil	ConsultAdd	5 LPA
33	Bhakti Landge	ConsultAdd	5 LPA

F. Abbreviations of Staff Members:

Sr. No.	Abbreviations	Full Name
1.	MPD	Dr. Manisha.P .Dale
2.	PPM	Dr.Pranoti.P. Mane
3.	PBC	Dr. Pravin.B. Chopade
4.	PNK	Dr.Prabhakar.N. Kota
5.	BMN	Prof. Bharati.M. Narute
6.	SND	Prof. Shrinivas. N. Dharwadkar
7.	KST	Dr. Kanchan. S. Tiwari
8.	AAD	Prof. Aparna. A. Dhavalikar
9.	RSK	Dr. Rekha. S. Kadam
10.	SSP	Prof. Sunil. S. Pansare
11.	UVB	Prof. Usha. V. Bomble
12.	NM	Prof. Nabega. Masood
13.	YMA	Prof. Yogita. M.Ajgar
14.	UDD	Prof. Uma. D.Dattasamje
15.	MMD	Prof. Mrinai. M.Dhanvijay
16.	PMB	Prof. Priyanka.M. Bagul
17.	PST	Prof. Priyanka. S. Tondewad
18.	NPJ	Prof. Namrata P. Jangale
19.	SST	Prof. Sukruti. S. Taori
20.	VHK	Prof. Vaishali. H. Kamble
21.	RJ	Prof. Ruchi Jain
22.	AVS	Prof. Akshata. V. Salunke
23.	PSD	Prof. Puja Deokate
24.	SDG	Prof.Suchita D. Ganage
25.	MCR	Prof. Mayuri C. Rathi

F. Faculty Activity :

AY 2022-23 Sem I

Sr . No	Name of teacher	Name of conference/ webinar/FDP/ FOW/workshop attended	Duration dd-mm-yyyy to dd-mm-yyyy	Name of the professional body for which membership fee is provided/organized ISTE/IETE/Organization	Amount of support received from college (in INR)
1.	Dr. P.N.Kota	FOW	30-31 Jan 2023	Innovation and Entrunership	
		Training Program	24 Jan 2023	IP awareness training Program under innovation cell Gov. of India	
		Workshop on	27/4/23 to 28/4/23	Workshop on the Cloistered Potential of Augmented and Virtual Reality from Concept to creation . (CDAC)	
2.	Dr. Kanchan. S. Tiwari	Completed 5 days Workshop on EV Technology and Battery Modelling	February 28 to March 05, 2023	Mathworks, IESA	
		Completed 5 days STTP on "Data Science for All with R "	22-02-2023 to 26-02-2023.	Dept. of CSE & Dept. of Mathematics NIT Warangal	
		Completed 10 days FDP on AI Applications for Engineers	23/01/2023 to 1/02/2023	NIT warangal and SIDTM , Pune	
		Completed 3 days FDP on	15 to 17 Feb 2023	Persistent , Pune	

		Effective Teaching			
3.	Mrs.Aparna Kulkarni	one week “Faculty Development Program” on “Recent Trends in Machine Learning”	13th March 2023 to 17th March 2023.	under the aegis of IETE Student Forum and Professional Activity Centre of IETE, New Delhi organized by Department of E&TC, AISSMS College of Engineering, Pune	
		Online Faculty Development Program on “Deep Learning Applications, Tools, Process Design and Development” organized by the Department of Computer Engineering in association with IIC-MESCOE,	20th March, 2023 to 28th March, 2023.		
		Faculty Orientation Workshop on BE(E&TC) Digital Marketing revised syllabus (2019C)	30/01/2023 to 01/02/2023 .	under the aegis of Board of Studies (E&TC), Savitribai Phule Pune University, organized by, Dept. of E&TC Engineering, Zeal College of Engineering & Research, Narhe, Pune	
		one Week Faculty Development Program on “Business Intelligence in Data Science”	30th January 2023 to 3rd February 2023		
		one week	30th		

		ONLINE FDP on "Deep learning and its applications" at MMCOE,PUNE	January 2023 to 4th February 2023		
4.	S.S.Pansare	Successfully completed 4 Week NPTEL Swayam Online certification on "Innovation by Design" from IIT Madras	4 Weeks Jan-Feb23	Swayam-NPTEL	
5.	Prof.Y.M.Ajgar	One week FDP on Research Methodology The practical approach orhanised by Dept of E&TC Sinhgad Academy of Engineering ,Pune	24 -28 April 2023		
6.	Ms. Priyanka Tondewad	FOW on "Elective 6 Remote sensing " organised by Hope foundation's International Institute of Information Technology, Pune	30/01/2023 to 01/02/203	Hope foundation's International Institute of Information Technology, Pune	

G. Faculty Achievement / Special Work :

Faculty Achievement:- --

Dr. K.S. Tiwari: 1. Worked as Reviewer for National conference in VNIT, PCEMS 2023

2.Working as Reviewer for Scopus Indexed Journal "International Journal of Advanced Computer Science and Applications (IJACSA)."

3. Worked as Reviewer for conference in ACCET 2023
4. Best Paper Award for " Design of Reversible Vedic Multiplier"
5. Best Project Award in Inter Departmental Project Competition.
6. Session Chair for ACCET 2023

U.V.Bomble : Session Chair for ACCET 2023

Dr. M. M. Dhanvijay : 1. ACCET 2022-23 Coordinator

2. Worked as Reviewer for conference in ACCET 2023
3. Published a scopus indexed article in journal Force Control of A Motorized Multi-Axis Ceiling Suspended System with Force-Torque Sensor Patil, S.M., Dhanvijay, M.R.,Chaudhari, K.A.,Dhanvijay, M.M. SSRG International Journal of Electrical and Electronics Engineering, 2023, 10(5), pp. 79–86
4. External Examiner to evaluate the M. Tech Dissertation and viva voce at COEP.
5. Worked as editor of Quasar 2022
6. Worked as judge for National level IETE Project Competition-23 held on 24th April 2023

I) International Conferences/National conference:

Sr. No .	Name of the teacher	Title of the book/chapters published	Title of the paper	Title of the proceedings of the conference	Name of the conference	National / International	Year of publication	ISBN/ISSN number of the proceeding	Affiliating Institute at the time of publication	Name of the publisher
1.	Dr. K. S. Tiwari	“ Design and Implementation of Reversible Vedic Mul			ACCET 2023 “	National	2023			

		tipler on Artix-7 FPGA”								
2.	Dr. K. S. Tiwari	Road Lane Detection In A Self Driving Vehicles Using Computer Vision			ACC ET 2023 “	National	2023			
	Dr. K. S. Tiwari	IoT Based Smart Waste Management System			ACC ET 2023 “	National	2023			

II) Publications (Journal):-

Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
Force Control of A Motorized Multi-Axis Ceiling Suspended System with Force-Torque Sensor	Mrinai Maneetkumar Dhanvijay	E&Tc	<i>SSRG International Journal of Electrical and Electronics Engineering</i> , vol. 10, no. 5, pp. 79-86, 2023.	2023	

III) Special Achievement:- Purchase

Sr. No	Item	Qty	Date of Purchase	Dead Stock Register	Cost

Department Activity Summary

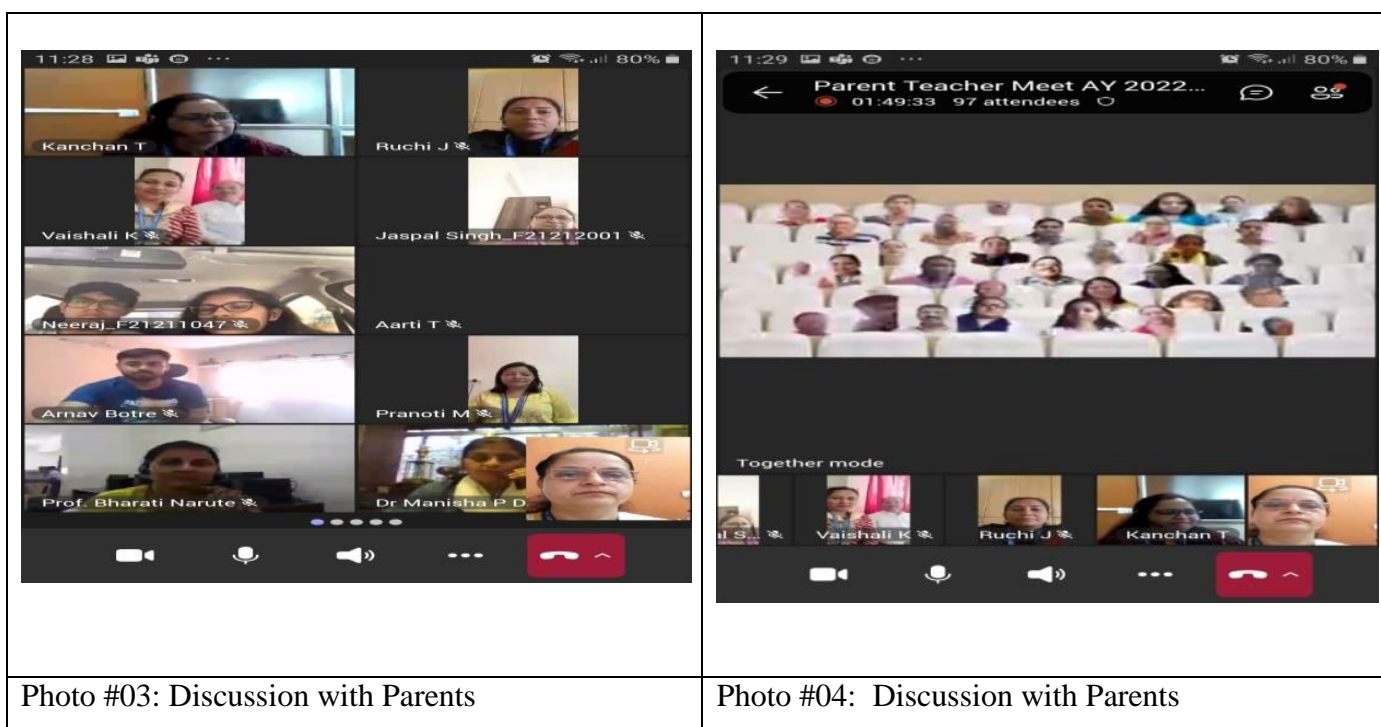
Sr. No.	Name of Activity	Total Count
1	Parent Meeting	1
2	Guest Lectures (SDP)	2
3	Industry Visits	Nil
4	Workshop	6
5	Curricular Activities	2
6	Extra-Curricular Activities	2

H. Department Activities:-

Parent Meeting

- A) Title of the Event: Parent Meet
- B) Academic Year: 2022-23
- C) Semester: II
- D) Program Type: Meet with Parents of students in Online Mode.

notified to participate in the meeting via WhatsApp messaging and telephonic chat. They



were encouraged to discuss their child's performance, attendance, and any relevant queries with the teachers. The primary agenda of the meeting was to apprise parents of their child's academic, behavioral, and social well-being and address any academic-related concerns. The key points covered in the meeting were as follows:

1. Presentation by the Electronics and Telecommunication Department, providing information on departmental activities and achievements.
2. Evaluation of student attendance and overall performance.
3. Discussion about the future plans of the students. We received a positive response from the parents. The meeting commenced at 10 AM, with Dr. K.S. Tiwari delivering the departmental presentation. Dr. Tiwari introduced the Head of the Department, Dr. P.P. Mane, and the Parent-Teacher Coordinator, Dr. R.S. Kadam, to the audience. Faculty members also took the opportunity to introduce themselves during the presentation. In the last hour of the meeting, subject teachers for Second Year (SE), Third Year (TE), and Fourth Year (BE) addressed various issues with parents, including study habits, attendance, and participation in different club activities.

I. DEVELOPMENT ACTIVITIES:

1. GUEST LECTURES:-

1. Event Name: Introduction to Raspberry Pi

Date: 07th January 2023

Time: 4pm onwards

Total Participants: 50 attendees Platform:
Online mode (Zoom Meeting)

Objectives: To introduce the students to basics of Raspberry Pi

Brief Description of Event:

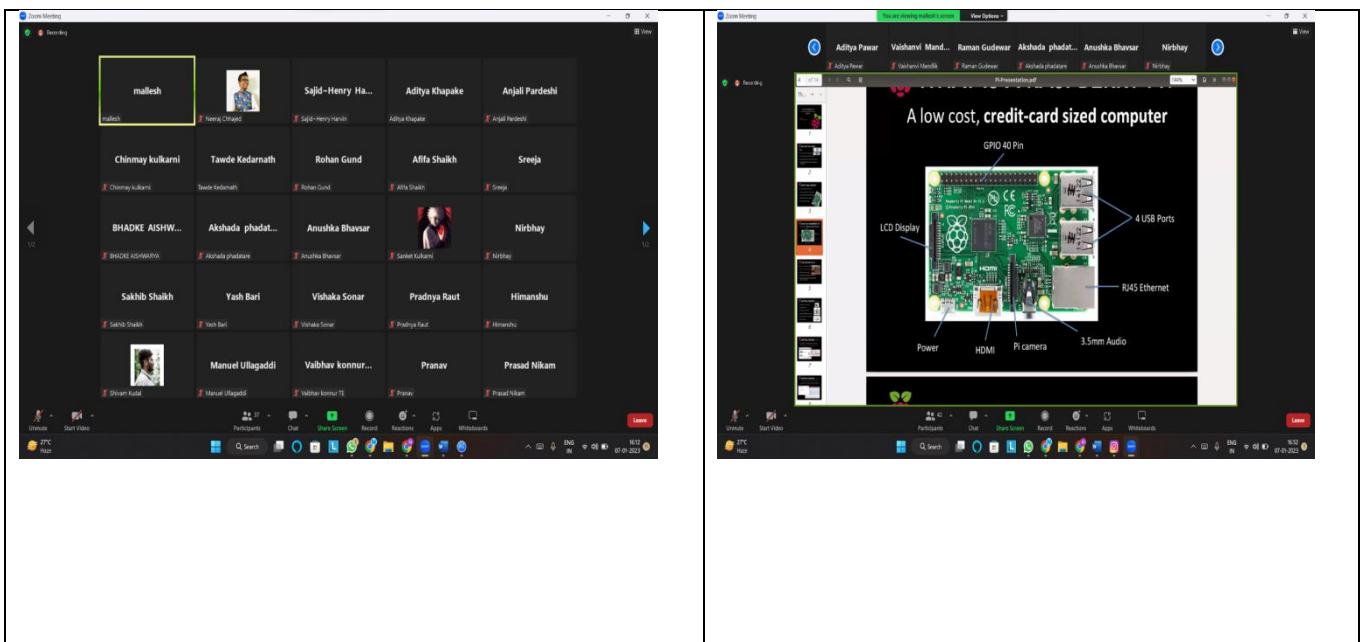
The online workshop was organized by the **Electro Infinity Club** team. Total of 50 participants were present at the workshop.

- **About the Event:**

On 07th January 2023 , Electro Infinity Club conducted its First workshop of 2023. It was a successful event. All the participants as well as the club members were enthusiastic and equally active throughout the session. The workshop started with a brief introduction about the Speaker Mr. Mallesh given by our host Anjali Pardeshi.

This workshop was divided into two sessions. The first part was theoretical in which Mallesh sir explained basics of Arduino and its working. Then the second session was on Raspberry Pi where he explained the basics of raspberry pi, pin connection, and its programming technique and also explained difference between Arduino and Raspberry Pi.

At the end of the session all doubts were solved and the session ended by vote of thanks by our host.



2. Title of the Event: Workshop Conducted on MATLAB by Ankit Kumar

Academic Year: 2022-23

Semester: II

Program Type: Workshop

Objective: 1. To bridge gap between Industry and Institute and to understand the basics of MATLAB for Signal System and Control System. To equip them with the skills and knowledge needed to use MATLAB for data analysis, mathematical modelling, and should be able to understand the basics of MATLAB programming, create and manipulate matrices, develop and run basic algorithms, and visualize data.

2. To provide students with hands-on experience to ensure that they are able to apply the knowledge gained in real-world engineering problems.

Outcome in terms of Learning/ Skill/ knowledge obtained: At the end of workshop students will be able to use MATLAB software for data analysis, mathematical modelling, and should be able to understand the basics of MATLAB programming, create and manipulate matrices, develop and run basic algorithms, and visualize data.

Start Date: 11-04-2023 End Date: 12-04-2023

Total Duration: 16.00Hr

Place: **Room 422 (SS&CS)**

Number of Participants: SE- 46, Total:- 157

No of Faculty Attended: 05

1. Prof. S. N. Dharwadkar
2. Prof. S. S. Pansare
3. Prof. A. S. Kulkarni
4. Dr. M. M. Dhanvijay
5. Prof. U. D. Dattasmaje

No. of Non-Teaching Staff: 01

1. Mr. Sanjay

No. of Peon: 02

1. Mr.R.H.Hawaldar
2. Mr.S.S.Adsul

a. Attainment based on attendance (actual attended/total target): 46/157

b. Attainment based on feedback/survey=4.6

Total attainment= $0.5*a+0.5*b=3$

Total Expenditure: Rs. 1,210

Summary report of the activity:

- A workshop on MATLAB was conducted by Ankit Kumar, an industry expert who works as an application engineer in Design Tech Systems Pvt Ltd. The workshop aimed to provide students with a comprehensive understanding of the basics of MATLAB and its applications in engineering. The workshop was conducted on the 11th April for SEA E&TC and 12th April for SEB E&TC students at the college campus.
- Workshop Structure:-The workshop was structured to cover the following topics:
 - Introduction to MATLAB

- MATLAB installation
 - MATLAB Environment and Syntax
 - Data Types and Operators
 - Control Statements and Loops
 - Matrices Formation
 - Plotting
 - Basic Algorithms and Applications
 - Control Systems Practical's
 - Signals and Systems Practical's
- Ankit Kumar presented each topic in a systematic and organized manner, starting from the basics and gradually building up the complexity. He explained the concepts using interactive demonstrations, which helped the students to understand the material more effectively. The students were also given hands-on experience using MATLAB software during the workshop.
 - The workshop was successful in achieving its objectives of providing students with a comprehensive understanding of MATLAB and its applications in engineering. The students learned the basics of MATLAB programming and were able to create and manipulate matrices, develop and run basic algorithms, and visualize data.
 - The workshop helped the students to gain practical knowledge of the software and provided them with the necessary skills to apply it in real-world engineering problems. The students appreciated the interactive and hands-on approach of the workshop and found it to be an enriching experience.
 - In conclusion, the workshop on MATLAB conducted by Ankit Kumar was a successful and enriching experience for the engineering students. The workshop provided them with a comprehensive understanding of the software and its applications in engineering. The students gained practical knowledge and skills that they can apply in their future academic and professional endeavours. The workshop was an excellent initiative by the university to provide students with a platform to learn from industry experts and enhance their knowledge and skills.

Activity Coordinator: Dr. M. M. Dhanvijay



3. Title of the Event: "Fiber Splicing workshop"

Academic Year: 2022-23

Semester: II

Program Type: Hands on Workshop

GAP	Activity Name	Conductio n Date	Resource Person with Designatio n	Target Audience	PO	PSO
Interactio n with students	Worksho p on Fiber Splicing for B.E. students	3-05-2023		B.E students	PO 1, PO2, PO3, PO4,PO5,PO9,PO1 2	PSO1 -3

Objective: The main objective of the workshop is to give practical knowledge of splicing of optical fiber to final year students also to clear some important concepts of optical fiber.

Outcome in terms of Learning/ Skill/ knowledge obtained:

1. Introduce advanced techniques of fiber splicing .
2. Acquire knowledge of the different fiber splicing techniques and connectors.

Course Outcome and justification

Course Outcome	Justification	Mapping
PO12: Life-long learning: Helped students in exploring the fiber splicing techniques also student got hands on experience.	The part of this workshop included the advanced techniques for fiber splicing like Fusion splicing, Mechanical Splicing, V-grooved Splicing and Elastic tube splicing. This workshop provided useful knowledge to the students.	3

Start Date: 03-05-23

End Date:03-05-23

Total Duration: 7.00Hr

Venue: Offline mode

Number of Participants: Total- 51

MESCOE Student- 48

MESCOE Staff - 3

a. Attainment based on attendance (actual attended/total target): $80/161=0.49$

b. Attainment based on feedback/survey=5

Total attainment= $0.5*0.49+0.5*5 = 1.24$

Total Expenditure: 2,200/-

Summary report of the activity:

The workshop started with introduction of Mr Devanand, Prof. A. V. Salunke gave introduction. Mr Devanand describe theory of splicing of optical fibers which is used to join two optical fibers. This technique is used in optical fiber communication, in order to form long optical links for better as well as long-distance optical signal transmission. He has shown practically how to consider geometry of two fibers, their proper alignment and mechanical strength. He also brought the various connectors like **SCPC, SC APC, LC/PC** to display.

Name of Faculty Coordinators: Prof. Y.M.Ajgar, Prof. A. V. Salunke



4. Title of the Event: ELECTRO ESSENTIAL 3.0

Title of the Event: Date of event: 05/05/2023

Total Duration: 4 hrs

Venue: Seminar Hall 518

Number of Participants: Total- 54

Total Expenditure: 2,000/-

Food Sponsora: Budhani Bros Waferwala.

Summary report of the activity:

The event started with a warm welcome and an introduction about the club. The session began at 10:30 am. The workshop started with a brief introduction about the Speaker Mr. Atharva Mungase, Mr. Neeraj Chhajed (TE students of MESCOE) given by our host Vaishnavi Mandlik.

The workshop was divided into three sessions. The first part, was theoretical in which Atharva explained different types of electronic components and its contents.

Then the second session was a Non-Tech Speech by Arnav Botre which was a Junior Senior Interaction where he guided the students about engineering life and how to deal with various problems followed by QNA session.

Then the last session was by Neeraj Chhajed regarding Arduino Uno and its software Arduino IDE. In this session he explained what is Arduino and how it operates along with these various mini projects were implemented to which all participants gave a great response.

After this session we had a quiz organized for participants, everyone enjoyed a lot and the winners were also rewarded with exciting goodies.

The event ended by felicitation of speakers by Mayuri Rathi maam and Suchita Ganage ma'am.

Name of Faculty Coordinators: Prof. Mayuri Rathi and Prof. Suchita Ganage



5. Title of the Event: BE Project Departmental Competition and Demonstration

- Academic Year: 2022-23
- Semester: II
- Program Type: One day Final project demonstration and Departmental Competition of BE (E&Tc) students. Evaluation by External Industry Persons.

GAP	Activity Name	Conduction Date	Resource Person with Designation	Target Audience	PO	PSO
Interaction with Industry	Departmental Project Competition and Demonstration.	12-05-2023	Mr. Vivek Borkar Mr. Swapnil Aherrao Mr. Abhijeet Patil Mr. Sharad Patil	BE	PO12	PSO3

	Evaluation by external industry person		Mr. Parikshit Ingale Mr. Akshay Diwan			
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a. **Objective:**

To bridge Gap between Industry and Institute.

b. **Outcome in terms of Learning/ Skill/ knowledge obtained:**

Will able to find the quality of their projects from industry point of view.

c. **Program Outcome and justification**

Program Outcome	Justification	Mapping
PO12: Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.	Interaction with industry will give exposure of current technologies to students and modern tools used by industry in the project development which help for making aware students for life long learning	3

A. Start Date: 12-05-23

End Date: 12-05-23

B. Total Duration: 3 Hrs

C. Venue: Seminar Lab No.316, 319, 321, 422, 423 and 519.

D. Number of Participants: Total- 129 (55 Groups)

MESCOE Student- 162 Ext. Participant- Nil

a. Attainment based on attendance (actual attended/total target): $129/155=0.83$

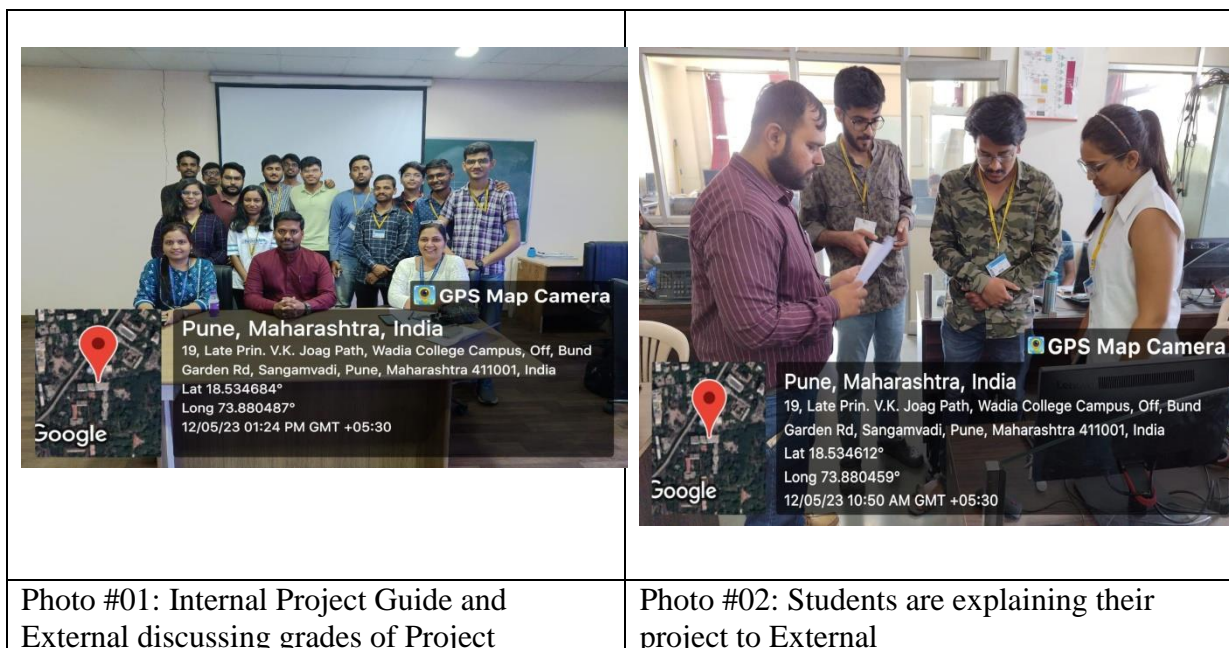
b. Attainment based on feedback/survey= 5

Total attainment= $0.5*a+0.5*b = 0.83* 0.5 + 0.5 * 5 = 1.41$

E. Total Expenditure: 15,000/-

F. Summary report of the activity:

The demonstration was started at 10:00AM. All students were present at the place assigned to them on time and arranged their setup well in advance. Each external assigned 6 to 9 groups. Externals are provided with group wise evaluation sheet in which they have to grade the project along with the internal project guide. At the end, Externals share their views on student's project with the project coordinator Dr. R.S. Kadam. They gave valuable suggestions, motivated and appreciated the students for their project work.



6. Title of the Event: BE Project Review- III and IV

- Academic Year: 2022-23
- Semester: II
- Program Type: One day project review-IV presentation in front of Department Panel

GAP	Activity Name	Conduction Date	Resource Person with Designition	Target Audience	PO	PSO
Project Review-III Presentation	One day power point presentation	24-02-2023	Departmental Internal Panel Members	BE (E&Tc) Students	4	3
Project Review-IV Presentation	One day power point presentation	24-03-2023	Departmental Internal Panel Members	BE (E&Tc) Students	4	3

a. Objective:

To demonstrate professionalism with ethics; present effective communication skills and relate engineering issues to broader societal context.

b. Outcome in terms of Learning/ Skill/ knowledge obtained:

Demonstrate the knowledge, effective communication skills and attitudes as professional engineer.

c. Program Outcome and justification

Program Outcome	Justification	Mapping
PO11: Project management and finance: Demonstrate knowledge and understanding of the engineering and management as a member and leader in a team, to manage projects and in multidisciplinary environments.	Interaction with internal Project Guides will track students project work and this help for making aware students for their final project exam. Guides frequent feedback/comments on progress achieved by the student will guide students for final project exam.	3

E. Start Date: 24-03-23 End Date: 24-03-23

F. Total Duration: 2 Hr

G. Venue: Room no 315, 422, 319, 316, 317, 322

H. Number of Participants: Total- 163

Students - 140

MESCOE Faculty- 23 (All Teaching faculty from E&Tc Dept.)

Ext. Participants- Nil

a. Attainment based on attendance (actual attended/total target): $140/163 = 0.85$

b. Attainment based on feedback/survey= NA

Total attainment= $0.5*a+0.5*b = 0.39$

I. Total Expenditure: Nil

J. Summary report of the activity:

B.E. students gave their Project review – IV presentation. Respective panel members conducted this review. Student gave presentation based on their project progress. Following Points discussed during presentation:

1. PPT Presentation

2. Complete project (Hardware, Software , Executable code if applicable)

3. Log book completed till date

Name of Faculty Coordinators: Dr. R.S.Kadam

Prof. A.V.Salunke

7. Title of the Event : PCB Designing Workshop by Homraj Reddy

- **1. Start Date:** 01/02/2023 **End Date:** 02/02/2023
- **Event Date:** PCB Designing Workshop by Homraj Reddy
- **Total Duration:** 14 hrs
- **Venue:** Seminar Hall 514 and Lab 422
- **Number of Participants:** Total- 35
- **Total Expenditure:** 24,000/-
- **Name of Faculty Coordinators:** Prof. Yogita Ajgar & Dr. Kanchan Tiwari
- **Name of Student Coordinators:** Electro Infinity Club Members.
- **Summary report of the activity:**

The event was divided into 2 days, day 1 was about introduction and introduction to PCB designing software & 2nd day was all about the designing of circuit on PCB. Day 1 started at 9:30 am with inauguration ceremony by lighting the lamp, Dr. Pranoti Mane, HOD Entc addressed to the students and introduced the guest Mr. Homraj Reddy Sir.

Homraj sir started the session with a brief introduction about pcb and its types. Sir also told about the components used on a pcb i.e. SMD components. Later sir explained the importance of pcb and first half of event ended. Second half of session was about practical knowledge, and sir explained basics of pcb designing software.

For day 2 sir showed their industrial level project and completed the circuit design started on day 1. The event ended with a vote of thanks and a certificate of appreciation was given to sir.

8. Name of activity: 2 Days Support Staff Skill Development Program on “ Excel and Advanced Excel” Organised by IQAC in association with Dept of E&TC

Objectives:

- To skill up Microsoft Office knowledge which will help supporting staff to execute their departmental responsibilities.
- To impart knowledge of Advanced Excel to support staff.

Target Audience : All supporting, administrative, library staff who is working in Modern Education Society .

Resource Person: Mr. Jaysing Bhosale (Faculty Member, IBS ,Pune) & Prof. Arun Prasad (ERP Consultant and academician, IBS, Pune)

1) **Dr. Jaysing Bhosale: Faculty - Ph.D., MBA, BE, UGC NET**

Qualification:

Dr. Jaysingh Bhosale, is currently working with IBS Pune as a Faculty Member in the area of Systems and Quantitative Techniques. He has Completed Doctorate in Management from Shivaji University, Kolhapur, MBA from National Institute of Technology (NIT), Trichy and BE (Information Technology) from Mumbai University. He has qualified a UGC NET exam in Management.

Experience:

Worked for 2.4 years in IT (Software Design) and Banking (Retail) industry and 13.7 years in Academics. Have experience in handling Post Graduate and Undergraduate students as diverse as in Management, Engineering and Commerce field. Interested in teaching courses on Business Statistics, Management Information Systems, Operations Research, Business Mathematics, Research Methodology etc. Worked with Symbiosis International University, Balaji University etc.

Research and FDP's:

Presented and published several research papers in National and International journals and conferences. A life member of many National and International professional bodies. Successfully completed multiple courses /FDP's from IIT Bombay, IIT Kharagpur, Jones Graduate School of Management RICE University USA etc.

2) Arun Prasad(ERP Consultant and academician,IBS,Pune)

Prof Arun Prasad is an ERP Consultant and an academician. He is a Physics graduate and holds a Masters of Business Administration (MBA) in Marketing and Finance from Dibrugarh University. He has submitted his thesis for the award of PhD in Digital Marketing from Savitribai Phule Pune University. He also has to his credit ERP (SAP 6.0 ECC) and UGC-NET Management Certification.

He has sales experience of more than 5 years across different verticals ranging from FMCG, Automobile and Financial services. He possesses rich experience in ERP roll out project with Philippines based client Quantum foods. He has successfully mapped the business process for the client (SAP 6.0 ECC SD Module). He is associated with IBS, Pune for the past 13 years. Presently he is coordinating implementation and adoption of LMS (Learning Management System) at IBS, Pune.He is also in charge of Photography Club @IBS Pune.

- **Date/Duration of the program:** 14th, 15st Feb, 2023 Tuesday, Wednesday(Two days)
 - **Time frame:** 10:00 a.m. – 1:00 p.m for 14Feb 2023
 - **and 10:00 a.m. – 4:00 p.m for 15Feb 2023 in two slots**
- **No. of Staff Present:**
- **Whatapp group:** It is prepared for interaction with participants related to workshop, solving the queries.

The inauguration of program was conducted by Prof. Prinyanka Bagul mam. She gave the introduction about the college and program. Principal Sir, Prof. Manisha Dale, are present in inaugural ceremony

The topics covered during the session were as follows:

a) Day 1: For MS Office Word:

1. Various ways of opening the new and existing document
2. Insert option and its functionalities
3. Working with tables
4. Page layouts

5. Reference tabs
6. Mail merge
7. View and Review tabs

b) Day 2:For MS Office Excel:

1. Understanding of workbook
2. Cell formatting
3. Basic formula and functions
4. Filling data
5. Cell referencing
6. Working with Pivot tables

For every topic mentioned above, hands-on sessions, assignments and tests were conducted. The session was very interactive. Prof. Priyanka Bagul given the vote of thanks in valedictory function. The participants shared their experiences and appreciated the workshop during the valedictory function. Online e-Certificates were issued to all the participants after successful submission of their feedback.

• **Outcomes:**

- Staff can support departmental activities like maintaining student's data, preparing marksheets for exams etc.
- Staff will be able to prepare brochures for various activities

- **Organizing Support Team:** Prof. S.S.Taori,Prof.N.P.Jangale, Mr.Pravin Raut, Mr.S.B.Shinde, Mr.R.H.Hawaladar



Prof. Yogita Ajar Prof. Priyanka Bagul
Program Coordinator

Dr. P. P Mane
HoD

**8. Name of activity : Support Staff Skill Development Program on
“आयुष्यघडविताना”**

Organized by **IQAC** In association with **Department of Electronics & Telecommunication**
Date: 7/01/2022

Academic Year: 2022-23 Semester-II

Name of activity: Support Staff Skill Development Program on the topic
“आयुष्यघडविताना” **Target group:** All supporting, administrative, library staff of the
institute.

Content of the program:

- 1. Importance of communication, dos and don'ts in communication in profession life .**
- 2. Team Building and how to work as a team.**
- 3. Self Motivation with special reference to motivating oneself..**

Resource Person:Mr.Kashinath Bhatgunki

Date/Duration of the program: 24th, January 2023

Time frame: 11:00 a.m. – 4:00 p.m **Venue:** Seminar Hall 514

Training Commercials:

- 1. Resource person remuneration: 10,000/-**
- 2. Refreshment : 5000/-**



Curricular Activities:-

1. Title of the Event: "One-day LaTeX workshop"

- Academic Year: 2022-23
- Semester: II
- Program Type: Short term training Program

GAP	Activity Name	Conduction Date	Resource Person with Designation	Target Audience	PO	PSO
Interaction with students and staff	Workshop on LaTeX for the staff and students	21-04-2023	1.Siddharth Bhalerao , Research Associate, Oneirix Engineering Laboratories Pvt. Ltd. 2.Prof. Sonali Narsale Assistant Professor, MESCOE Pune 3.Mr. Christy Daniel , T.E. E & T C student, MESCOE Pune 4.Mr. Siddharth Andhale , S.E. E&TC student, MESCOE, Pune	B.E.,T.E., S.E. students and MESCOE staff	PO 1, PO2, PO3, PO4, PO5, PO9, PO12	PSO 1-3

a) Objective:

1. Installation and basic handling of the software. Teach the basics of LaTeX.
2. Introduce advanced techniques for writing Mathematics.
3. Introduce advanced techniques for editing and formatting documents, preparing large documents such as books and memoirs.
4. Use of LaTeX in daily academic and official work. Teach how to do presentations using LaTeX (Beamers).

□ Outcome in terms of Learning/ Skill/ knowledge obtained:

1. Introduce advanced techniques .
2. Acquire knowledge of the different aspects of LaTeX for writing articles, report, thesis, book and beamer.

Course Outcome	Justification	Mapping
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<p>PO12: Life-long learning: Helped students in exploring the basics of LaTeX and improve and develop interdisciplinary skills through hands-on practice. Students were able to develop confidence for report writing, power point presentations using LaTeX.</p>	<p>The part of this workshop included the advanced techniques for writing Mathematics, editing and formatting documents, preparing large documents such as books and memoirs which will help students for B.E. final year project writing, paper writing for various conferences.</p>	<p>3</p>
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A) Start Date: 21-04-23 End Date:21-04-23

B) Total Duration: 7.00Hr

C) Venue: Offline mode

D) Number of Participants: Total- 51

MESCOE Student- 48

MESCOE Staff - 3

a. Attainment based on attendance (actual attended/total target): $48/55=0.87$

b. Attainment based on feedback/survey=5

Total attainment= $0.5*0.87+0.5*5 = 2.93$

E) Total Expenditure: 6000/-

F) Summary report of the activity:

LaTeX is being widely used to create research papers, presentations, publish books and large documents. Over a period, LaTeX has evolved, and now it can draw complicated molecules in Organic Chemistry, useful in writing complex mathematical equations, list bibliography in various ways at the stroke of a feather, handle complicated languages and scripts such as Sanskrit, Tamil and Chinese, write and edit dramas and poems. Keeping this in mind, the one day workshop was organized on LaTeX.

We discussed the following topics:

a. Basics of Latex, Documentation ,Sections, etc.

b. Text styling and enumeration.

c. Introduce advanced techniques for writing Mathematics, report writing, technical paper writing.

d. Figure and sub-figures, Index, Beamer, referencing and bibliography, some tips and tricks.

S.E. student Saika Dhotre gave introduction and S.E. student Niraj Chordia gave Vote of thanks.

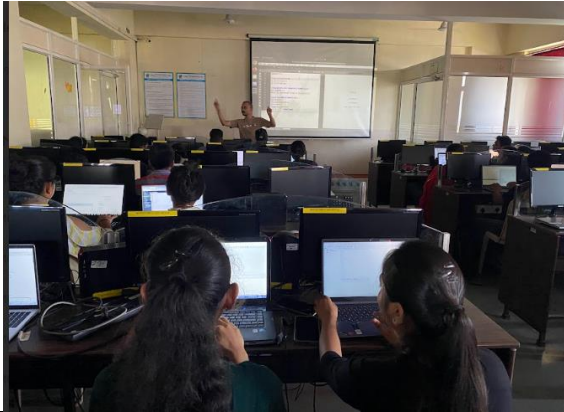


Photo #01: Expert delivering the presentation



Photo #02: Guest speaker Siddharth Bhalerao and Dr. R.S.Kadam



Photo #03: Expert delivering the presentation



Photo #04: Guest speaker Siddharth Bhalerao and Prof. A. V. Salunke

1. Extra-Curricular Activities:-

1.Name of activity: AARAMBH 2K23 REPORT

Introduction-

- Annual Departmental fest named Aarambh 2k23 was organized by Electronics & Telecommunication student's association on 15th, 16th and 17th February 2023 in association with Modern Education Society's College of Engineering Pune-01.
- The event was held in offline mode after 3 years. The fest consisted of 10 events in total. They were classified as technical and non-technical events and were organized for pure fun and recreational purposes.

Objectives-

- To bring about the technical development of students by organizing activities like games, quizzes and competitions.

- To improve non-technical abilities of students by engendering good communication skills, managerial abilities, presentation skills and team work.
- To act as a forum for students to voice their opinions and suggestions.
- This year for the first time ETSA conducted a National level event in an offline mode.
- Total 600 participants participated in 10 events categorized as 3 technical and 7 non-technical events.
- For the first time in the history of MESCOE, IPL Auction and NeonCricket events were conducted in a professional way.
- 40% of the decoration was made by recycling waste material available in the college.
- Certificates were distributed to winners and also to all team members who gave their best to make the event a grand success.

2. President

3. Krishna Mahajan

Vice president

Arnav Botre

Staff coordinator
Prof. U.V. Bomble



2. Title of the Event: Women's Day

- Academic Year: 2022-23
 - Semester: II
3. Program Type: Women's day celebration under IETE

Activity Name	Conduction Date	Guest Speaker	Target Audience	PO
Women's Day Celebration	8-03-2023	Neha Bhosale	Ladies staff of MESCOE	PO8, PO12

Objective:

To Celebrate International Women's Day 2023 and honor the women. This is a wonderful opportunity to network with like-minded people to learn about current facts affecting women and to discover ways to empower them worldwide.

Activity Coordinator:

- Prof.Vaishali Kamble, Prof.Namrata Jangale, Prof.Jaya Mane, Prof.Apurva Kulkarni
- Number of Participants: Total- MESCOE ladies staff- 67+ Students
Coordinator
 - Total Expenditure: 8000
 - Summary report of the activity:
Guest Name: Neha Bhosale, Founder L & D Faciliator, Skillsgenix, Pune

Women's Day Lecture for all Ladies staff of Modern Education Society's College of Engineering was successfully conducted on 8/3/2023 from 1.30pm to 4.00pm. The Expert Speaker Neha Bhosale, Founder L & D Faciliator, Skillsgenix has invited for the session. In the Session subject Expert explained management between personal and professional life and guidance regarding parenting responsibilities

Following topic were discussed in the lecture:

- Worklife Balance
 - Management between personal and professional life
 - Parenting responsibilities
 - Strength of Women
 - Social factors affecting on women's performance
- H. Name of Faculty Coordinators: Prof.N.P.Jangale, Prof.V.H.Kamble, Prof.Jaya Mane



Photo #01: Speaker Neha Bhosale



Photo #02: Speaker Neha Bhosale and Participants

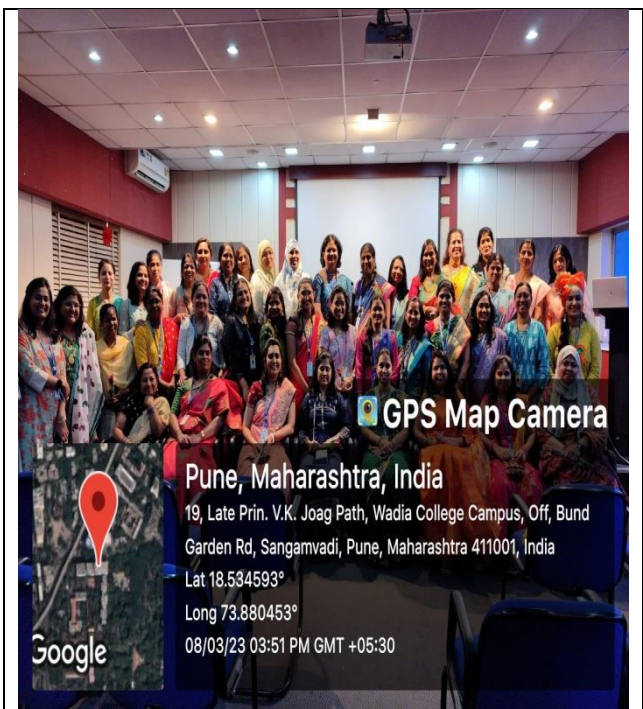


Photo #03: All ladies staff along with guest

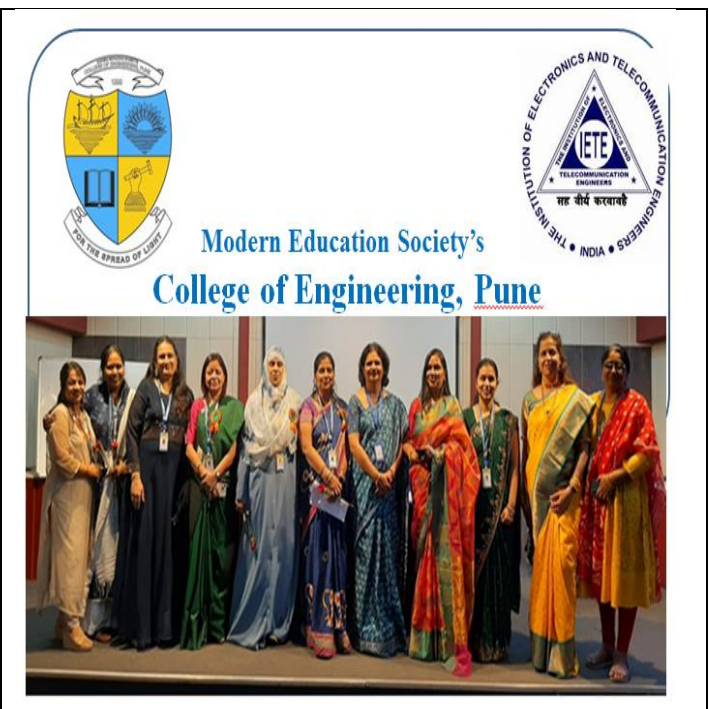


Photo #04: Activity Coordinators along with all department's HOD and Program guest speaker

3. Title of the Event: "IETE Inter Collegiate Project Competition-2023"
- Academic Year: 2022-23
 - Semester: II
 - Program Type: Collegiate Project Competition

GAP	Activity Name	Conducti on Date	Guest	Target Audience	PO	PSO
Interactio n with IETE Executive Commite e, Industry experts, B.E. students of different colleges and staff	Collegiate Project Competiti on	24-04-2023	1. Dr . D.S. Bormane, Vice President, HQ, New Delhi 2. Dr. R.D. Kharadkar Immdt, Past Chairman, IETE Pune Centre 3. Dr. Sunil B. Somani, Hon Treasurer, IETE Pune Centre	B.E.,T.E.,S. E. students of different colleges	PO 1, PO2, PO3, PO4,PO5,PO9,PO 12	PSO1 -3

Industry Expert Judges :

1. **Mr. Homraj Mariappa Reddy,** Design Engineer
2. **Mr. Rajesh Rohidas Chavan,** Electronics Design Engineer
3. **Mr. Sachin Deshpande,** CEO & Co-founder of 3 mediatech
4. **Mr. Mukund Kumbhar,** General Instrumentation Controller
5. **Mr. Manoj Kalorey,** Global Sales Architect cloud Technologies

Academic Expert Judges:

1. **Dr. Kanchan Tiwari**
2. **Prof. S. N. Dharwadkar**
3. **Prof. S. S. Pansare**
4. **Prof. Ruchi Jain**

a. Objective:

The main objective of the competition is to strengthen Project Based Learning through development of Innovative ideas using emerging technologies.

b. Outcome in terms of Learning/ Skill/ knowledge obtained:

The innovative thinking & implementation of student's ideas will lead to product development satisfying the need of society and mankind and further fulfilling the "स्वावलंबीभारत" dream of Hon'ble Prime Minister.

c. Course Outcome and justification

Course Outcome	Justification	Mapping
PO12: Life-long learning: Helped students to improve and develop interdisciplinary skills through project competition. Communicate effectively on complex engineering activities with the engineering community and with society at large.	Interaction with industry will give exposure of current technologies to students and this help for making aware students for lifelong learning. Students being able to comprehend and make effective presentations, write effective reports, design documentation and clear their project related doubts from industry experts.	3

A. Start Date: 24-04-23 End Date:24-04-23

B. Total Duration: 5 Hr

C. Venue: 317, 319, 321, 322, 422

D. Number of Participants: Total- 151 (Group 37)

Different college students- 103

IETE student members - 33

MESCOE Staff - 23

a. Attainment based on attendance (actual attended/total target): 136/136=1

b. Attainment based on feedback/survey=5

Total attainment=0.5*1+0.5*5 =3.5

E. Total Expenditure: Rs 9429/-

F. Summary report of the activity:

The activity started with condolence of Shri. Kishor shende , Past Chairman and Hon. Secretary of IETE Pune centre. Then Prof. Ruchi Jain and Prof. Akshata Salunke welcome all dignitaries , staff and IETE students and participants. The program started with saraswati Poojan and introduction and felicitation of Chief Guest Dr. D.S. Bormane , Dr. R.D. Kharadkar, Dr. S.B. Somani and Industry Experts. Dr. P. P. Mane gave glance of various activity conducted under IETE chapter and department. Principal Dr. M. P. Dale elaborate College journey and achievement. Chief guest Dr. D. S. Bormane Importance of Project competition. All dignitaries interacted with students. Student from different colleges, MESCOE IETE student members are present for interaction with IETE Executive Committee

IETE student members discussed the following topics with IETE Executive Committee:

- 1)What is the mission and purpose of the IETE, and how does it align with my academic and career goals?
- 2)What types of programs and resources does the IETE offer to its student members, and how can I get involved?
- 3)How can membership in the IETE help me network with professionals in my field and build connections that will be valuable in my future career?
- 4)What types of events and conferences does the IETE organize, and how can I participate as a student member?
- 5)How can the IETE support me as I navigate my academic and professional journey, and what resources are available to me as a member?

Lastly Dr. P. N. Kota gave Vote of thanks followed by Instruction of project competition to students given by Prof. N. P. Jangale .

After Inauguration Students arranged their project at allocated space. The judges evaluated all Project and selected five toppers . Various students from SE , TE and Bishop school students visited Project competition.

Winners titles:

1. Implementation of IAM
2. Finding optimal path using Hector SLAP, ROS and LIDAR
3. Student Result Analysis system
- 4.System to detect Diabetic Retriopathy
- 5.Easy solution for accurate analysis of orthatic leg

G. Name of Faculty Coordinators:

Dr. P.N.Kota
Prof. A. V. Salunke
Prof.Vaishali Kambale
Prof. Ruchi Jain,
Prof. Namrata Jangale
Prof. Sukruti Taori
Prof. Puja Deokate
Prof. Suchita Ganage
Prof. Mayuri Rathi



Photo #01: MESCOE IETE Student members, Staff with IETE Executive committee and Industrial expert



Photo #02: Bishops School Kalyaninagar students with participants

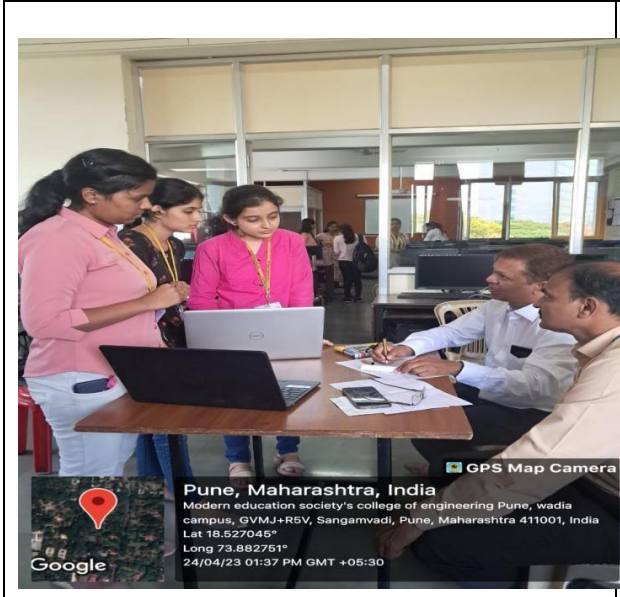


Photo #03: MESCOE Student participants with Industry Experts



Photo #04: Other college student participants with Industry Experts

Industry Visits:-

Nil