



H. J. THIM TRUST'S THEEM COLLEGE OF ENGINEERING

Approved by AICTE (New Delhi), Government of Maharashtra & DTE, Affiliated to University of Mumbai & MSBTE, Estd. 2009
NAAC Accredited with B+ Grade

Village Betagaon, Boisar Chilhar Road, Boisar (E), Tal. & Dist.: Palghar - 401 501.
Tel.: (02525) 284 909 • Fax : (02525) 284 927 • Email : Info@theemcoe.org • Website : www.theemcoe.org

Criteria-7 Institutional Values and Best Practices

7.2: Best Practices

Key Indicator 7.2.1: Describe two best practices successfully implemented by the Institution as per NAAC format provided in the Manual.

INDEX

Sr.No.	Content	Page No.
1	Best Practice- Utilization of Open Source Software on Campus. <ul style="list-style-type: none">• Two days National workshop on “Quality Assurance in higher Educational Institutes (HEI’s) by using Open Educational Resources (OER).Organized by IQAC,Theem College of Engineering, Sponsored By NAAC.• Practice using the open source software Jupyter for Python Programming.• Practice using the open source software Scilab.• Practice using the open source software Latex for Final year report Writing.	2 to 106
2	Best Practice - Transform students' project into paper publication.	107 to 146



Best Practice-1
**“Utilization of open source software
lab in the Campus”**



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Theem College of Engineering, Boisar

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Affiliated To University Of Mumbai Est.:- 2009 - 2010

Boisar Chilhar Road, Boisar (E), Dist. Palghar – 401 404. Tel: - (02525) 284909
Tele Fax No: - (02525) 284927 *Email: info@theemcoe.org *Website: WWW.theemcoe.org

Date: 10th August 2022

Permission letter

To,

The Principal
Theem college of Engineering Boisar.

Sub: Seeking Permission for Set up an open source lab under the Department of Information Technology.

Respected Sir

I am Sneha Sankhe, Head of Department of information technology, asking for permission to **set up an open source lab under the Department of Information Technology**. As we are aware about the importance of open source software. So to encourage students and to make awareness of the open source software we want to make a lab completely with installed open source software. For that we install some open source software in the lab's Computer and make it available to all. It will help students and faculties to use available open source software easily. So I am asking to grant us permission for space utilization and required resources.

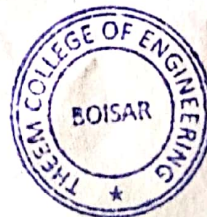
I request you to give us the permission to set up the open source LAB.

With best regards,

Yours Sincerely,

Prof. Sneha Sakhe

HOD IT



Enclosed:

1. List of Open Source Software to be installed





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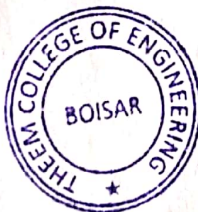
Theem College of Engineering, Boisar

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Affiliated To University Of Mumbai Est.: - 2003 - 2010

Boisar Chilhar Road, Boisar (E), Dist. Palghar - 401 404. Tel: - (02525) 284909
Tele Fax No: - (02525) 284927 *Email: info@theemcoe.org *Website: WWW.theemcoe.org

List of Open Source Software to be installed

Sr.	Name of Software
01	Linux- Operating System
02	Scilab
03	Python Environment- Python Programming
04	Latex- Document Writing Tool
05	Apache OpenOffice





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Boisar Chilhar Road, Boisar (E), Dist. Palghar – 401 404. Tel: - (02525) 284909
Tele Fax No: - (02525) 284927 *Email: info@theemcoe.org *Website: WWW.theemcoe.org

Date: 12th August 2022

NOTICE

All the students, Teaching and non Teaching Staff are hereby informed that the Department of Information Technology is setting up an open source lab. So one can utilize the open source Softwares lab available in the institute. Open source lab will be available from the 16th August 2022 onwards. Lab access time will be 10:00 AM to 5:00 PM (Monday to Saturday). Open source lab location is Room No: A-106, Department of IT, First Floor, Building No:01.

So all are requested to utilize your leisure time to learn open source resources.

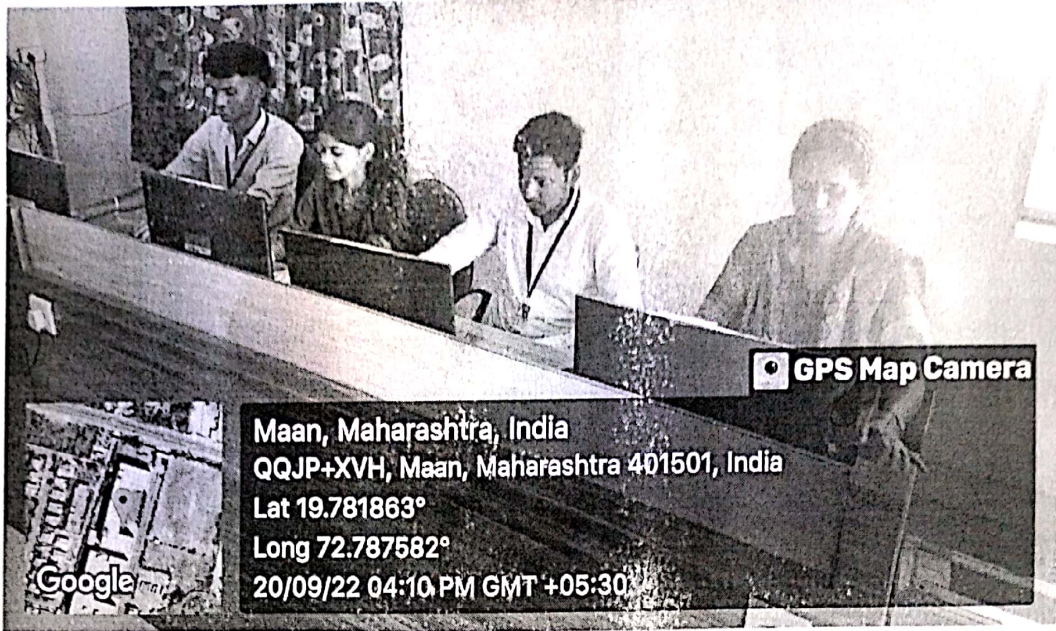
Prof. Pradnya Karekar
ROSP LAB Incharge

Prof. Sneha Sankhe
HOD IT

Dr. Riyazoddin Siddiqui
Principal

Dr. N. K. Rana
Director

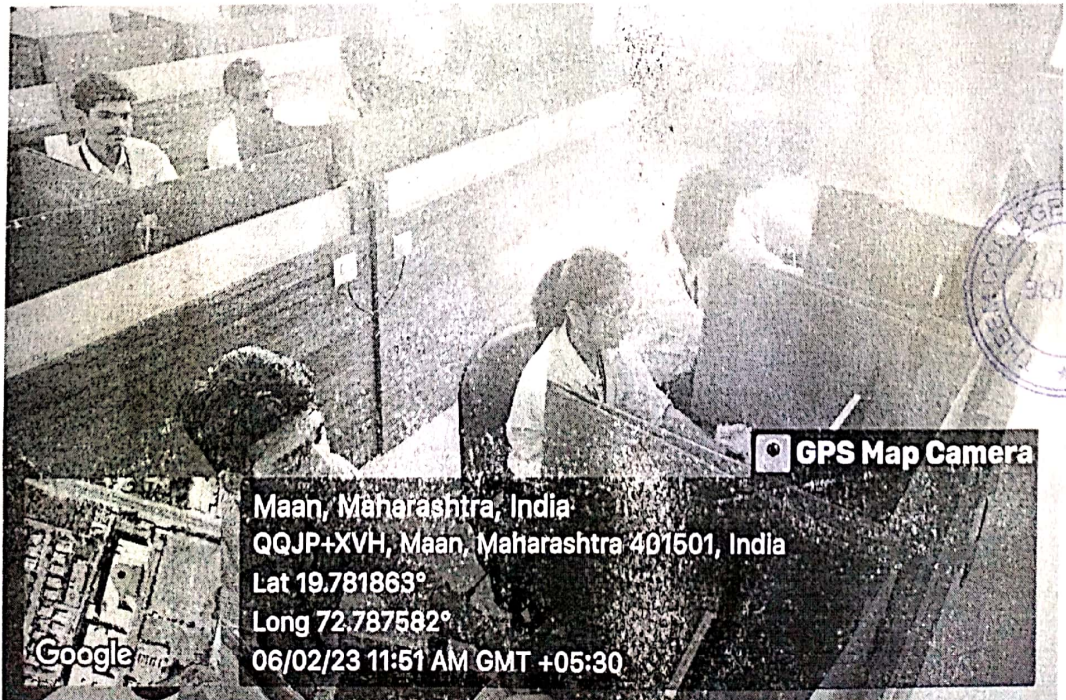




Students accessing Open Source Software Lab



Students accessing Open Source Software Lab



Faculty Name : Pradnya Karkhar

Date: 31/01/2023

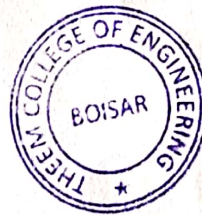
Class: TE IT

Time: 2:00 to 4:00

Subject: DS Using Python

Batch: B2 / B3

SrNo	Name	Roll No	PC No	Sign
1	Meet. S Todankar	63	9	
2	Mohit Sawardekar	49	10	
3	Deepak I Sharma	56	12	
4	Arshad Syed	61	8	S. Arshad
5	Sachin Gadav	67	7	
6	Shefaz Jalliwala	21	4	
7	Sayyed. Shah Hussain	50	5	
8	ARHAM Momin	37	16	Jah
9	Amaan Maniyar	35	17	
10	Yuvraj Sharma	57	15	yssharma



Prof. Kachyer Kalekar

Class T.E (IT)

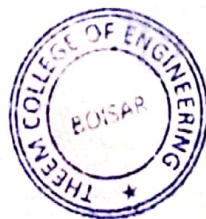
Date
27/01/23

Subj DS using python (AI/A3)

Batch

Time
11:15-1pm

sr.No	Roll No.	Name	PC.No.	Sign.
1.	52	Rani Shah	21	Rani
2	10	Shradha Deshmukh (AI)	22	Shradha
3.	59	Arip Siddiqui	23	(Arip)
4	55	Mohd Shoaib Shaikh	20	Shoaib
5	53	Shaikh. Kameej Fatma	17	Shaikh
6	1	Naved Jamal Akter (AI)	16	Naved
7	6	Dipak A. Bisht (AI)	20	Dipak
8	61	Syed Ahsad Shaikh	15	S. Ahsad
7	11	Sami. Gausandi (AI)	14	Sami
8	07	Bhavik chawan (AI)	13	Bhavik
9	48	Archis Save	7	Archis
10	16	Aditya Gupta (AI)	9	Aditya
11	66	Aachal Yadav	8	Aachal
12	49	Mohit Gowardekar	10	Mohit
13	15	Jeet C Gore (AI)	11	Jeet
14	12	HARSH B GHARAT (AI)	12	Harsh
15	23	Jeet V. Kawali (AI)	6	Jeet
16	02	Prithviraj P. Andhale (AI)	5	Prithviraj
17	04	Rashan B. Baiti (AI)	4	Rashan
18	08	Chowhan Mohd. Sahil Latif (AI)	3	Sahil
19	22	Amit Paragit KANOJIA	2	A.R.
20	65	Rishu Nitin Verma	19	Rishu
21	13	Shubham Kisan Bharat	20	Shubham

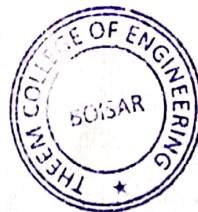


24/1/23

DS using Python (A3)

3:00 - 3:00 pm

No. No.	Roll No.	Name	P.C. No.	Sign.
1	66	Aadhal Yadav	8	
2	18	Archieve Save	9	
3	49	Mohit Sawardekar	10	
4	37	ARHAMMOMIN	6	
5	36	Mitali P. Imhatrie [A2]	12	
6	52	Rani Sheeh	11	
7	27	Khan Fahmida [A2]	13	
8	53	Shaikh Kaneej Fatma	14	
9	59	Azif Siddiqi	15	
10	55	Mohd Shoaib Shaikh	16	
11	28	Hanima Khan	17	
12	47	Sanyati Rendra Sankhe	18	
13	31	Saglain Khan [A2]	4	
14	35	Amaan Nazim Maniyar	05	
15	40	Mustaque Ahamad	07	



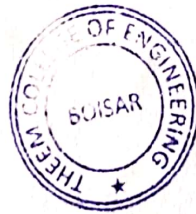
Faculty Name: Pradnya Karkar

Sub: Final Project RSP

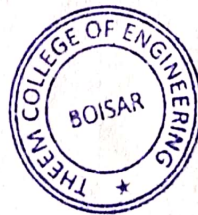
Date: 01/01/2022

Batch: 199 Time: 3:00 to 5:00

Gr No	Name	Roll no	Pa. no	Sign
9	Pranali Sonawane	90	14	Pranali
10	Maitrayee Vartak			M.V.
11	Anjali Vartak Parohit	65		Anjali
12	Nishal Singh	68		Nishal
13	Apurva Wade	75		Apurva Wade
14	Rohit Singh	66		Rohit
15	Sw. Ashutosh Salunke	59		Ashutosh
16	Pankaj Sharma	63		Pankaj
17	Nisha Yadav	77		Nisha
18	Swati Singh	67		Swati
19	Rajin Vishwakarma	74		Rajin
20	Avinash Singh			Avinash
21	Ankit Tomalji	71		Ankit
22	Shakshi Shalish	62		Shakshi
23	Shakshi Aureshi	56		Shakshi



Sr. N	Name	Roll No	PC-No	Sign
1)	Mansi D. Patil	50	20	Mansi
2)	Amit N. Patil	47	10	Amit
3)	Bhavit Nijai	39	8	Bhavit
4)	Ashish Maurya	30	15	Ashish
5)	Sanjya S. Pendurkar	53	14	Sanjya
6)	Vikash Maurya	37	15	Vikash
7)	Harsh Patil	40	10	Harsh
8)	Shalaj Manjalkar	28	5	Shalaj
9)	Komal Pawar	52	4	Komal
10)	Abhishek M. Pujari	54	6	Abhishek
11)	Nishant Mishra	32	9	Nishant
12)	Pradeep Maurya	36	21	Pradeep
13)	Shubham Mishra	34	16	Shubham
14)	Kanad Patil	49	18	Kanad
15)	Amruth R. Patil	46	19	Amruth
16)	Harshik Panchal	42	-	Harshik
17)	Jai Panchal	43	20	Jai
18)	Jyoti Malhotra	27 27	18	Jyoti
19)	Istiyak Ahmad	135	16	Istiyak
20)	Sagar R. Patil	41	7	Sagar
21)	Sanjya Krushna panolit	45	18	Sanjya



Faculty name :- Praabha Karcken.

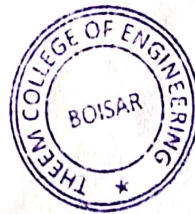
Date: 11-10-22

Subj: OS ROP-

Batch - 1

Time: 3 to 5 pm.

Sl no.	Name of Student	Roll no.	Parto.	Sign
01	Kabul Chaudhary	08	10	Kabul
02	Kishor Jena	16	-	Kishor
03	Rizwan Khan	22	-	Rizwan
04	Rohit Ghate	10	18	Rohit
05	Rohit Murchhi	26	17	Rohit
06	Amruta Daptordar	09	14	Amruta
07	Prapti Kini	25	13	Prapti
08	Pratik Chaudhari	07	16	Pratik
09	Ritik S. Khandare	20	-	Ritik
0-6	Dipti B. Sadhale	15	-	Dipti
0-5	Joshi Sheha	18	-	Sheha



Name:- Padma Kanekar

Date: 6/10/22

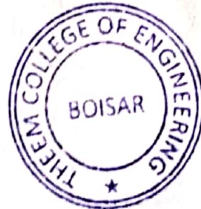
Sub:- ROSP B3

Roll No

Pc.No

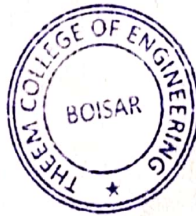
Time: 3-5 p.

	Roll No	Pc.No	
1) Avinash Singh	65	7	Avil
2) Pankaj Sharma	63	8	Pankaj
3) Swati Singh	67	20	Swati
4) Ankit Toripalkhi	71	10	Ankit
5) Ashutosh S. Salunke	59	11	AS
6) Pranit Raut	58	12	Pranit Raut
7) Pranali Sonawane	70	14	Pranali
8) Maitrayee Vastak	72	13	Mo
9) Vistal Singh	68	15	Vishal
10) Vaibhav Bnday Sharma	64	16	Vaibhav
11) Yashraj Ramasare	79	17	Yashraj
12) Rajan Vishwakarma	74	18	Rajan
13) Yash Singh	69	12	Yash



Date: 21/09/22 week

Batch - B2	Sub: ROSP	Roll No.	Time: 11:15 to 1:15	
01	Prashant R. Mishra	33	04	Fisher
02	Sagar R. Patil	41	05	Patil
03	Nishant Mishra	32	12	Nishant
04	Shubham Mishra	34	10	Mishra
05	Pradeep Mawya	36	11	Patil
06	Munna R. Pante	46	8	M Pante
07	Bhavik S. Nijai	39	7	BH
08	Ashish Mawya	30	13	Ashish
09	Jyoti Mattan	27	14	Jyoti
10	Daniya Pendurkar	53	15	Daniya
11	Harshik Panchal	42	16	Harshik
12	Shalaj Manjalkar	28	17	Shalaj
13	Shruti A. Patil	51	22	Patil
14	Ashwini V. Patil	48	23	Ashwini
15	Istiyak Ahmad	35	20	Istiyak



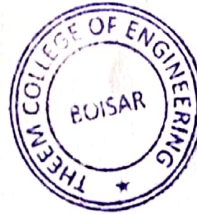
Faculty Name: Prof. Pradhya Karrekar

Date: 08/09/22

Batch: B3 (ITBE) Sub: ROSP

Time: 3 to 5 pm

Sr. No.	Name of Students	Roll No.	Page	Sign
1	Sabista N Shaikh	61	7	Shaikh
2	Yash R. Singh	69	8	Yash
3	Yadav Suraj Bholaram	78	20	Yadav
4	Vishal S Singh	68	10	Vishal
5	Poonali S. Sonawane	70	11	Poonali
6	Anjali Purohit	55	12	Anhit
7	Swati Singh	67	15	Swati
8	Anhit Tripathi	71	20	Anhit
9	Rahul Chauhan	68	-	Rahul
10	Avinash Singh	65	9	AS
11	Ashutosh S. Salunke	59	7	AS

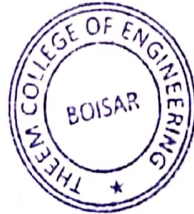


Faculty Name :- Prof. Madhya Karekar
Batch - B1 Sub :- Rosp

D:- 20/09/25

T:- 3 TO 5 PM

Sl. No.	Name of students	Roll No.	Pc. No.	Sign
1.	Prapti Kini	25	4	<u>Prapti</u>
2.	Amruta Daptare	09	5	<u>Amruta</u>
3.	Ritik S. Khandare	20	11	<u>Ritik</u>
4.	Rahul Chauhan	08	10	<u>Rahul</u>
5.	Kishore Jena	16	9	<u>Kishore</u>
6.	Pratik Chaudhari	07	8	<u>Pratik</u>
7.	Sachin Gupta	13	7	<u>Sachin</u>
8.	Shubh Khandhar	23	13	<u>Shubh</u>
9.	Matin Kadni	19	14	<u>Matin</u>
10.	Anup Khechar	27	15	<u>Anup</u>
11.	Ravi P. Acharya	01	12	<u>Ravi</u>
12.	Vikrant Ghare	11	16	<u>Vikrant</u>
13.	Rizwan Khan	22	17	<u>Rizwan</u>
14.	Danisha Ansari	03		<u>Danisha</u>
15.	Rohit Mawhi	26		<u>Rohit</u>



**Two Days workshop on “Quality Assurance
in higher Educational Institutes(HEI’s) by
using Open Educational Resources (OER)”
organized by IQAC, Theem College of
Engineering Sponsored By NAAC**



Chief Patron

Mr. Aywan Hussain Thim
(Chairman, H. J. Thim Trust)

Patrons

Dr. Shrikant Ali Shah
(Secretary, H. J. Thim Trust)
Mr. Mohd. Hussain J. Thim
(Trustee, H.J. Thim Trust)
Mr. Mohd. Sharif A. Thim
(Vice-Chairman, H. J. Thim Trust)
Dr. N. K. Rama
(Director, Theem College of Engineering)

Convener

Dr. Emily Ghosh (IQAC Coordinator, Theem COE)
Dr. Ashraf Shah (Member, IQAC, Theem COE)

Organizing Committee

Prof. K.N. Anwarde (HOD Comp, Theem COE)
Prof. Ramesh Ahmad (HOD Elect, Theem COE)
Prof. Wasim Khan (HOD Mech, Theem COE)
Prof. Faiz Khan (HOD Civil, Theem COE)
Prof. Irshad Shaikh (HOD Auto, Theem COE)

For further information contact:
9545822792, 8007646895

Schedule of Workshop

Date	Time	Subject
09/06/2023	10:00-11:30	A&A Methodology
	11:30-11:45	Tea Break
	11:45-1:15	Latex
	1:15-2:15	Lunch
	2:15-4:30	Practice session on Latex & Linux
10/06/2023	10:00-11:30	Scilab
	11:30-11:45	Tea Break
	11:45-1:15	Scilab
	1:15-2:15	Lunch
2:15-4:30	Practice session on Scilab	



Resource Persons

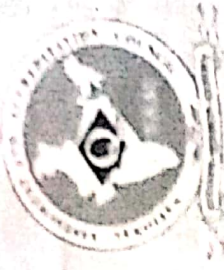
Prof. Julie Doublet A
Little Flower College,
Guvayoor Thrissur, Kerala
Dr. R.R Sawant
Sardar Patel Institute of Technology
Mumbai
Dr. N.R Dasre
Ramrao Adik Institute of Technology
Nerul, New Mumbai
Dr. Pritam Wani
Ramrao Adik Institute of Technology
Nerul, New Mumbai
Dr. Riyazuddin Siddiqui
Principal
Theem College of Engineering, Boisar
Prof. Sneha Sankhe
Theem College of Engineering, Boisar
Prof. Snehal Patil
Theem College of Engineering, Boisar

Note: No Registration Fees, but registration is Mandatory

E-certificate will be provided to all registered Participants

For Registration click on
[Two Days Workshop Registration Link](#)

Or Scan



NAAC Sponsored

Two-Day's Workshop on
"Quality Assurance in Higher
Educational Institutes (HEI's) by using
Open Educational Resources (OER)"

09th & 10th June, 2023

Organized By:
IQAC

Theem College of Engineering
Betegnon, Boisar Chilhar Road, Boisar(E), Tal &
Dist. Palghar -401501, Maharashtra

7769916109/7506830077
web: www.theemcoe.org
(In Hybrid Mode)



About NAAC:

National Assessment and Accreditation Council (NAAC) is an autonomous body established by UGC of India to assess and accredit institutions of higher education in the country. The main objective of NAAC is to promote quality assurance in higher education institutions through a process of assessment and accreditation.

NAAC conducts the accreditation process based on a set of predefined criteria which include factors such as curriculum design, teaching-learning process, faculty quality, research and innovation, infrastructure, student support systems, governance and leadership, and community engagement. NAAC accreditation is highly regarded in the Indian higher education system and is often considered as a benchmark for quality. It helps institutions to identify their strengths and weaknesses and to work towards improving the quality of education and overall performance.

About College:

H. J. Thim Trust established Theem College of Engineering in 2009 at Boisar with an objective of "Success... through Quality Education" for the development of youths who plays a decisive role in shaping the destinies of nation. The institute's serene and tranquil surroundings create an appropriate atmosphere to develop students' overall growth both in academics and ethics.

Theem College of Engineering is approved by AICTE, Government of Maharashtra and DTE, and affiliated to University of Mumbai. The institute is awarded with B+ grade by NAAC. The institute is a remote center of IITB-NMECT (Ministry of Education, Govt.

India). The institute is emerged as the only Premier Engineering College in Boisar with an overall intake of 660 students in the following graduate engineering programmes- Computer, Information Technology, Mechanical, Civil, Computer Science Engineering (AI & ML), Automobile, Electrical Engineering. The institute's well-maintained infrastructure, rich academic excellence and teaching-learning ecosystem steer students to achieve their engineering skills and career goals. To enhance multi-tasking growth, the institute equally focuses on co-curricular and extra-curricular activities which yielded university rank holders and winners of various technical and sports events.

IQAC:

Internal Quality Assurance Cell (IQAC) is a part of the institution's system & work towards realization of the goals of quality enhancement & sustenance. The prime task of the IQAC is to develop a system for conscious, consistent & catalytic improvement in the overall performance of institutions. As a part of improving quality of research and education, the IQAC is going to organize this national level workshop sponsored by NAAC.

Vision

To become a Centre of Excellence in Technical and Professional Education.

Mission

1. To commit for high standards in technical and professional education.
2. To impart quality professional education through ICT initiatives and project-based learning.
3. To nurture technocrats and professionals with ethics and human values

About Workshop:

Quality assurance in higher educational institutes is a crucial aspect of ensuring that students receive a high-quality education that meets the required standards. Open Educational Resources (OER) can play a significant role in enhancing the quality of education in higher educational institutes can be used for curriculum design and development, course material development, quality assurance in teaching, assessment and evaluation, and continuous improvement. By using OER, higher educational institutes can ensure that students receive a high-quality education that meets the required standards. As the educational spectrum of the country has witnessed a transformation with respect to the pandemic situation, the robust paradigm shift towards online education, enhancing use of software, introduction of modern technologies in teaching learning process have become the need of hour. The pedagogical fraternity needs to be committed to engage students in active, collaborative and technology-based learning methodologies. The use of open educational resources helps faculty and students to have access to technologies, books and various other teaching materials that they normally would not be able to afford.

The criterion of "Research and innovation" is one of the major challenges of quality assurance cell of higher educational institutions. Basic objective of this proposed workshop is to motivate faculty to spread knowledge and information about research methods through use of various open-source software, such as latex, scilab, linux etc. It is planned to provide hands on practice for the same during this workshop.



H. J. THIM TRUST'S

Theem College of Engineering, Boisar

NAAC sponsored Two-Days National Workshop
on Quality Assurance in Higher Educational
Institutes by using Open Educational Resources
Date: 9th & 10th June 2023

Schedule

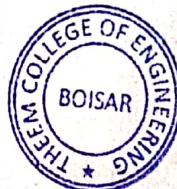
Day-2, Saturday, 10th June 2023

Session 3 Venue: 2nd floor seminar hall

10:00 a.m. – 11:30 a.m.	Welcome Address & Felicitation, Presentation on Scilab by Dr.Narendrakumar Dasre.
11:30 a.m. – 11:45 a.m. :	Tea break
11:45 a.m. – 1:15 a.m.	Presentation on Scilab by Dr. Pritam Wani.
1:15 p.m.—2:15 p.m.	Lunch break

Session 4 Venue: 1st floor IT center

2:15 p.m. – 4:30 p.m.	Practice Session on Scilab by Dr. Pritam Wani & Dr. Narendrakumar Dasre Assisted by Mrs. Snehal Patil.
4:30 p.m.—4:55 p.m.	Valedictory Report of the workshop by Dr. Emily Ghosh. Feedback Certificate Distribution Vote Of Thanks by Dr. Ashraf Shah.
4:55 p.m.—5:00 p.m.	National Anthem.





Theem College of Engineering, Boisar

NAAC sponsored Two-Days National Workshop
on Quality Assurance in Higher Educational
Institutes by using Open Educational Resources

Date: 9th & 10th June 2023

Schedule

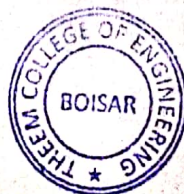
Day-1, Friday, 9th June 2023

Session 1 Venue: 2nd floor seminar hall

9:45 a.m. – 9:50 a.m.	Welcome Address & Recitation of Holy Quran.
9:50 a.m. – 9:55 a.m.	Overview of Workshop by Dr. N.K. Rana.
9:55 a.m. – 10:00 a.m.	Introduction & Felicitation.
10:00 a.m. – 11:25 a.m.	Presentation on Enhancement of quality in higher education through the NAAC accreditation by Prof. Julie Dominic through virtual mode.
11:25 a.m. – 11:30 a.m.	Q&A
11:30 a.m. – 11:45 a.m.	Tea-break
11:45 a.m. – 1:15 p.m.	Introduction & Felicitation of Dr. Rajendra R Sawant. Presentation on Latex by Dr. Rajendra R Sawant.
1:15 p.m.—2:15 p.m.	Lunch break

Session 2 Venue: 1st floor IT center

2:15 p.m.—4:00 p.m.	Practice Session on Latex by Dr. Rajendra R Sawant & Dr. Riyazoddin Siddiqui.
4:00 p.m.—4:30 p.m.	Practice Session on Linux by Mrs. Sneha Sankhe





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Ref No: TCE/EST/2022-23/318

24th March, 2023

Ref: NAAC/Seminar/LG /2022/98

To
The Director,
NAAC,
P O Box no. 1075,
Nagarbhavi,
Bangalore – 560 072

Sub: Request for resource person for the topic "Assessment & Accreditation Methodology" for workshop on "Quality Assurance in Higher Educational Institutes by using Open educational resources" to be conducted in online mode on 09/06/2023

Respected Sir,

This is with reference NAAC/Seminar/LG /2022/98 regarding workshop on the topic Quality Assurance in Higher Educational Institutes by using Open educational resources approved by NAAC, to be held on 9th and 10th June 2023, in our institute. The tentative schedule of the workshop is attached with this mail. However we request you to provide us a resource person on the topic Assessment & Accreditation Methodology which is scheduled in the inaugural session and will be in online mode.

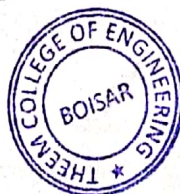
Also any suggestion and advice in relation to the contents, from your end, will be welcomed.

Thanking you,
Yours sincerely

E. Ghosh

Dr. Emily Ghosh
IQAC Coordinator

Theem College of Engineering
Betegaon, Boisar Chilhar Road,
Boisar (east), Palghar-401501, Maharashtra



Admn. Office : 310, Yusuf Building, Veer Nariman Road, Fort, Mumbai - 400 023.

Tel.: 2204 6903 • Telefax : 2283 9850



श्री अ. ए. ए. ए.
श्री. एस. सी. शर्मा
निदेशक
Prof. S.C. Sharma
Director



एन.ए.ए.सी. का राष्ट्रीय स्तर पर प्रमाणित संस्थान
एन.ए.ए.सी. का राष्ट्रीय स्तर पर प्रमाणित संस्थान
गर्तीय मूल्यांकन एवं प्रमाणन परिषद
National Assessment and Accreditation Council
An Autonomous Institution of the University Grants Commission

NAAC/Seminar/IG/2022/98

08th October 2022

The Director
Therem College of Engineering
Borison, Boisar Chithar Road,
Boisar (east), Palghat 401501, Maharashtra

Respected Sir/Madam

Greetings from NAAC.

This is with reference to your proposal seeking NAAC financial assistance/academic support for organizing state/national level workshop/seminar/conference in your institution on the topic **Quality Assurance in Higher Educational Institutes by using Open educational resources**. After due consideration your proposal has been accepted for financial assistance of Rs.30,000/- (Rupees Thirty-Thousand only). The balance amount required to organize this activity may kindly be embarked at your end. The financial assistance is subject to the adherence to the enclosed procedures for release of sanctioned grants and settlement of the same. NAAC appreciates the initiative taken by your institution and hope that the institution will continue to strive for quality and excellence in Higher Education.

The seminar/workshop has to be conducted on the scheduled date(s) as mentioned in the seminar proposals sent to NAAC. In case of any change in scheduled date the institution should get an approval from respective regional coordinator of NAAC for the same. The claims have to be received by NAAC on or before a month after seminar/workshop. In case of any delay in submission of the claims the reimbursement will not be made and NAAC will not be liable for the expenditure incurred.

Yours sincerely,

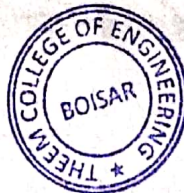
S. C. Sharma
(Prof. S.C. Sharma)

Encl: a/a

Cc: Western Region Coordinator
(Dr. Divender S. Kowlay, Adviser, NAAC, divender.kowlay@naac.gov.in)
Member Convener, Seminar Committee, NAAC
Dr. Leena Gahane, Deputy Adviser, NAAC, leenagahane.naac@gmail.com

coordinator

Dr. Leena Gahane

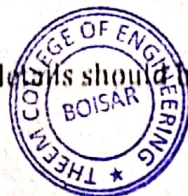




NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL, BANGALORE

Procedure for Release of the Financial Support:

- ⇒ As an Important post-accreditation quality sustenance activity, NAAC has requested the institutions to establish Internal Quality Assurance Cell (IQAC) in their institution. Hence organization of the seminar/workshop is mandated to be the activity of IQAC of the Institution.
- ⇒ The programme details of seminar/conference have to be sent to NAAC at least one month prior to the scheduled dates.
- ⇒ The sanctioned amounts should be spent exclusively on the programme for which the assistance is approved by NAAC.
- ⇒ The release of grants will be on completion of the event and submission of the bills/vouchers/Statement of expenditure and Utilizations Certificate within a month to NAAC. In case of any delay in submission of the claims the reimbursement will not be made and NAAC will not be liable for the expenditure incurred.
- ⇒ For better coordination organisers should be in communication with the respective Regional Coordinator at NAAC.
- ⇒ *The seminar/workshop has to be conducted on the scheduled date(s) as mentioned in the seminar proposals sent to NAAC. You have to obtain prior permission from NAAC if there is any change in the scheduled date of the seminar and state the reason for change of dates.*
- ⇒ *The seminar/workshop has to be conducted on same theme/title as mentioned in the seminar proposals sent to NAAC. You have to obtain prior permission from NAAC if there is any change in the scheduled theme/title of the seminar and state the reason for change of theme/title.*
- ⇒ Institutions may write a letter to the Regional Co-ordinators, NAAC seeking nomination for resource persons.
- ⇒ TA and honorarium for NAAC nominated resource persons and others may be paid within the grant sanctioned by NAAC. Honorarium of Rs. 2,000/- per day may be paid as per NAAC rule.
- ⇒ If NAAC officer is participating, the TA/DA may be either borne by NAAC or by the institution from the sanctioned grant. However, hospitality needs to be provided by the institution.
- ⇒ For National Level seminar, institution has to invite at least 10% of participants from outside the state and for State Level Seminar institutions have to invite at least 25% of participants from outside the district.
- ⇒ Institution cannot outsource the activity and as already mentioned the IQAC should be responsible for organising the event.
- ⇒ NAAC should be duly acknowledged in all the seminar related publications including proceedings of the Seminar / Conference.
- ⇒ Institution need to conduct one session on online A& A methodology in Revised Accreditation Framework.
- ⇒ List of Participants with communication details should be sent to NAAC along with the proceedings and bills.



Post Seminar/workshop requirement:

Within a week of the seminar the institution should bring out "The Proceedings" of the seminar/ conference. A half page summary of the proceedings along with one or two photographs of high resolution may be sent to Regional Co-ordinator, NAAC for considering it for NAAC newsletter

Suggesting format for preparing the proceedings of NAAC Sponsored Seminars / Conference

1. Theme of the seminar/ Conference
2. The programme (separate sheet may be enclosed)
3. The keynote address, presentation of invited resource persons and participants (enclose the copies of each one of them)
4. The recommendations/ Suggestions/ Action Points (outcome of the seminar)
5. Follow up actions, the institution proposes to undertake :

The NAAC financial assistance may be spent under the broad heads given below:

Heads	Programme
A. Resource Persons-TA, Honorarium, etc.	Rs. 12,000/-
D. Publication of Seminar proceedings	Rs. 15,000/-
E. Miscellaneous	Rs. 3,000/-
Total	Rs. 30,000/-

The sanctioned amount will be released only on receipt of hard copy of Certified Statement of Expenditure and Utilization Certificate within one month from the date of completion of the event along with the proceedings and details of participants duly signed by the Head of the Institution.

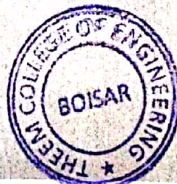
Henceforth all the claims will be reimbursed through NEFT transfer. You are therefore requested to provide the following bank details and a cancelled cheque along with the claims.

Bank Details

1. Beneficiary Name: _____
(Authorities designation only. For example Vice Chancellor/Registrar/Principal/ Director etc.)
2. Name of the Bank: _____
3. Name of the Branch: _____
4. Account Type: _____
5. Account No: _____
6. RTGS/IFS Code: _____
7. MICR Code: _____
(copy of the cancelled cheque)

NAAC Regional Coordinators

Southern Region	Dr. M. S. Shyamasundar, Adviser, NAAC,	mssn.nac@gmail.com
Northern Region	Dr. Jagannath Patil, Adviser, NAAC	jp.naacindia@gmail.com naacjp72@gmail.com
Eastern Region	Prof. Amiya Kumar Rath, Adviser, NAAC	amiyakumarrath@gmail.com
Western Region	Dr. Devender S. Kawday, Adviser, NAAC	devender.kawday@naac.gov.in
North Eastern Region	Dr. Mrs. Sujata P. Shanbhag Adviser, NAAC	sujata.shanbhag@naac.gov.in





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REF No:- TCE/EST/2022-23/1428

Date: 23/05/2023

To
Dr. R.R Sawant
Sardar Patel Institute of Technology
Mumbai

Subject: Invitation to deliver a lecture and conduct a workshop on Latex

Dear Sir,

Theem College of Engineering is a premier Engineering Institute of H. J. Thim Trust at Boisar, Taluka Palghar, conducting graduate Engineering Programs in Computer Engineering, I.T. Engineering, Computer Sc. and Engineering (AIML), Mechanical Engineering, Civil Engineering, Automobile Engineering & Electrical Engineering. We also offer Diploma Engineering Programs in Computer Engineering, Mechanical Engineering, Civil Engineering and Electrical Engineering.

Theem College of Engineering is organizing a NAAC sponsored workshop on 9th and 10th June namely "Quality Assurance in Higher Educational Institutes (HEI's) by using Open Educational Resources (OER)".

IQAC, Theem College of Engineering cordially invites you to deliver a lecture and conduct a workshop on **Latex** on 9th June 2023.

Topic: 'Latex'

Timing: Your session will start at 11:45 am

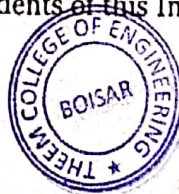
The Principal, Management, Staff and Students of this Institute shall be obliged and grateful for your kind acceptance.

Thanking you,
Yours faithfully,

E. Ghosh
(Dr. Emily Ghosh)
IQAC Coordinator



Riyazuddin Siddiqui
(Dr. Riyazuddin Siddiqui)
PRINCIPAL



N. K. Rana
(Dr. N. K. Rana)
DIRECTOR

THEEM COLLEGE OF ENGINEERING
Boisar (East) Tal & Dist. Palghar - 401 501

THEEM COLLEGE OF ENGINEERING

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REF N^o:- TCE/EST/2022-23/452-A

Date: 09/06/2023

To
Dr. Riyazoddin Siddiqui
Principal
Theem College of Engineering
Boisar.

Subject: Invitation to deliver a lecture and conduct a workshop on 'Latex'

Dear Sir,

Theem College of Engineering is a premier Engineering Institute of H. J. Thim Trust at Boisar, Taluka Palghar, conducting graduate Engineering Programs in Computer Engineering, I.T. Engineering, Computer Sc. and Engineering (AIML), Mechanical Engineering, Civil Engineering, Automobile Engineering & Electrical Engineering. We also offer Diploma Engineering Programs in Computer Engineering, Mechanical Engineering, Civil Engineering and Electrical Engineering.

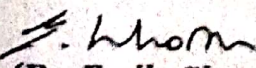
Theem College of Engineering is organizing a NAAC sponsored workshop on 9th and 10th June namely "Quality Assurance in Higher Educational Institutes (HEI's) by using Open Educational Resources (OER)".

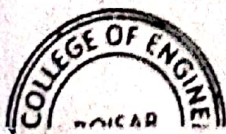
IQAC, Theem College of Engineering cordially invites you to deliver a conduct a workshop on 'Latex' on 9th June 2023.

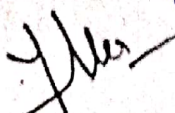
Topic: 'Latex'

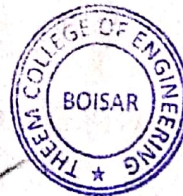
The Principal, Management, Staff and Students of this Institute shall be obliged and grateful for your kind acceptance.

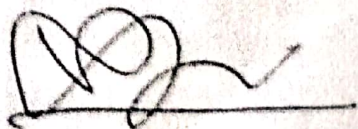
Thanking you,
Yours faithfully,


(Dr. Emily Ghosh)
IQAC Coordinator




(Dr. Riyazoddin Siddiqui)
PRINCIPAL
PRINCIPAL
THEEM COLLEGE OF ENGINEERING
At Village Belegaon, Near Union Park,
Boisar (East), Tal Palghar Dist. Palghar




(Dr. N. K. Rana)
DIRECTOR
DIRECTOR
THEEM COLLEGE OF ENGINEERING
Boisar (East) Tal. & Dist. Palghar- 401 501



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REP No: TCE/EST/2022-23/452-B

Date: 09/06/2022

To
Ms. Suchal Patil
Maths Department
Theem College of Engineering
Boisar

Subject: Invitation to deliver a lecture and conduct a workshop on 'Scilab'

Dear Madam,

Theem College of Engineering is a premier Engineering Institute of H. J. Thim Trust at Boisar, Taluka Palghar, conducting graduate Engineering Programs in Computer Engineering, I.T. Engineering, Computer Sc. and Engineering (AIML), Mechanical Engineering, Civil Engineering, Automobile Engineering & Electrical Engineering. We also offer Diploma Engineering Programs in Computer Engineering, Mechanical Engineering, Civil Engineering and Electrical Engineering.


Theem College of Engineering is organizing a NAAC sponsored workshop on 9th and 10th June namely "Quality Assurance in Higher Educational Institutes (HEI's) by using Open Educational Resources (OER)".

IQAC, Theem College of Engineering cordially invites you to deliver a conduct a workshop on 'Scilab' on 10th June 2023.

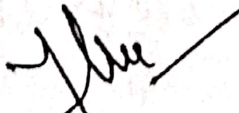
Topic: 'Scilab'

The Principal, Management, Staff and Students of this Institute shall be obliged and grateful for your kind acceptance.

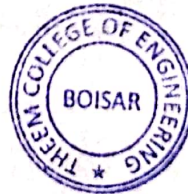
Thanking you,
Yours faithfully,

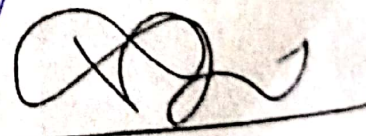

(Dr. Emily Ghosh)
IQAC Coordinator




(Dr. Riyazuddin Siddiqui)
PRINCIPAL

PRINCIPAL
THEEM COLLEGE OF ENGINEERING
At Village Belegaon, Near Union Park




(Dr. N. K. Rana)
DIRECTOR

DIRECTOR
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Ref No :- TCE/EST/2022-23/ 427

Date: 23/05/2023

To

Prof. Julie Dominic A
Little Flower College,
Guruvayoor Thrissur, Kerala

Subject: Invitation to deliver a lecture on A & A Methodology

Dear Madam,

Theem College of Engineering is a premier Engineering Institute of H. J. Thim Trust at Boisar, Taluka Palghar, conducting graduate Engineering Programs in Computer Engineering, I.T. Engineering, Computer Sc. and Engineering (AIML), Mechanical Engineering, Civil Engineering, Automobile Engineering & Electrical Engineering. We also offer Diploma Engineering Programs in Computer Engineering, Mechanical Engineering, Civil Engineering and Electrical Engineering.

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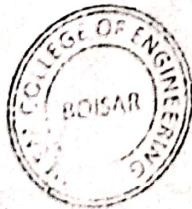
IQAC, Theem College of Engineering cordially invites you to deliver a lecture on A & A Methodology on 9th June 2023.

Topic: 'A & A Methodology'

Timing: 10:00-11:30 am

The Principal, Management, Staff and Students of this Institute shall be obliged and grateful for your kind acceptance.

Thanking you,
Yours faithfully,



S. Ghosh
(Dr. Emily Ghosh)
IQAC Coordinator

Julie 23/05/23
(Dr. Riyazuddin Siddiqui)
PRINCIPAL
PRINCIPAL

[Signature]
(Dr. N. K. Rana)
DIRECTOR

THEEM COLLEGE OF ENGINEERING
Boisar (East) Tal. & Dist. Palghar - 401 501

DIRECTOR
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REF No :- TCE/EST/2022-23/455

Date: 10/06/2023

To

Ms. Sacha Sankhe

HOD (IT Department)

Theem College of Engineering

Boisar.

Subject: Invitation to deliver a lecture on Linux.

Dear Madam,

Theem College of Engineering is a premier Engineering Institute of H. J. Thim Trust at Boisar, Taluka Palghar, conducting graduate Engineering Programs in Computer Engineering, I.T. Engineering, Computer Sc. and Engineering (AIML), Mechanical Engineering, Civil Engineering, Automobile Engineering & Electrical Engineering. We also offer Diploma Engineering Programs in Computer Engineering, Mechanical Engineering, Civil Engineering and Electrical Engineering.

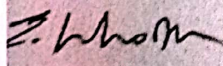
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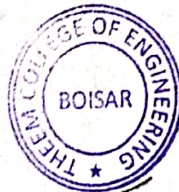
IQAC, Theem College of Engineering cordially invites you to deliver a lecture on Linux on 9th June 2023.

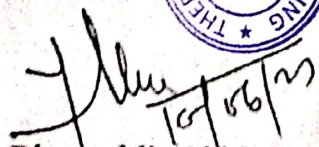
Topic: 'Linux'

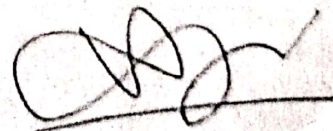
The Principal, Management, Staff and Students of this Institute shall be obliged and grateful for your kind acceptance.

Thanking you,
Yours faithfully,


Dr. Emily Ghosh
QAC Coordinator




(Dr. Riyazoddin Siddiqui)
PRINCIPAL
PRINCIPAL
THEEM COLLEGE OF ENGINEERING
Boisar (East) Tal. & Dist. Palghar -401 501


(Dr. N. K. Rana)
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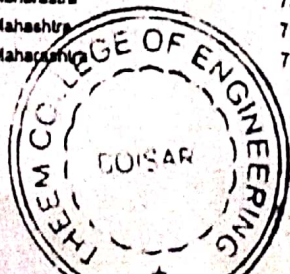
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Attendance of the workshop

Quality Assurance in Higher Educational Institutes by using Open Educational Resources

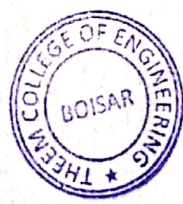
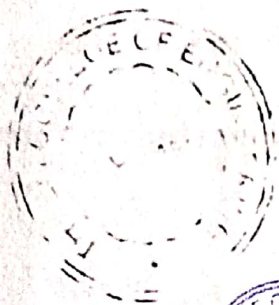
Name	State	Contact no.	Institution
Dr. Kranil Zakde	Maharashtra	8903436885	Jawaharlal Nehru Engineering College
Savyasachi Pandit	Maharashtra	8104025684	Rizvi engg college
Manis Gupta	Maharashtra	9810910120	Rizvi College of Engineering
Nancy Sindlin	Maharashtra	8828145674	APSIT
Shaikh Mohd Ashfaq	Maharashtra	9892092533	Rizvi College of Engineering
Priya Mule	Maharashtra	9321317219	RAIT
Shashikant Dnyanadeo J	Maharashtra	9702012696	Dharavi Vidyapeeth College of engineering Navi Mumbai Maharashtra
Dr. Shahin Perween	Maharashtra	7017772859	Marwari College, Ranchi
Dr. Prasanna Shete	Maharashtra	0960452937	K. J. Somaiya College of Engineering
Ramya Kanagaraj	Maharashtra	9829230608	Rizvi college of Engineering
Rashmi Kulkarni	Maharashtra	9632290548	Nagur Memorial Polytechnic Vijayapur Karnataka
SUIOCHANA NAMDEV	Maharashtra	7549412259	MIT ADT UNIVERSITY PUNE
Prof Reshma R Loher	Maharashtra	9657238021	Rizvi college of engineering bandra
Shital Nandramji Babar	Maharashtra	7083788384	S.R.T.M.U.Nanded
Sheha Mane	Maharashtra	8879815774	RAIT
Rahman Naveed Akhtar	Maharashtra	9860232300	Rajiv Gandhi Institute of Technology Vorsova Andheri West
Jagruti Ninad More	Maharashtra	7276760121	Theem College of engineering
Bhuvaneshwan S	Maharashtra	9976037095	Periyar University
IQBAL SHAIKH	Maharashtra	7208499814	Theem college of Engineering
Prof. Vasudeo Nazirkar	Maharashtra	9028732714	SCOE, Kharghar
Bhuvaneshwar S	Maharashtra	9976037095	Periyar University
Natasha Naik	Maharashtra	8087137315	Aharva College of Engineering
KHAN IBRAHIM AKRAM	Maharashtra	9923807113	Theem College of Engineering Boisar
NOMAN BADER	MAHARASHTRA	9557402784	THEEM COLLEGE OF ENGINEERING
Ms. Usha Bag	Maharashtra	9821885805	Shree L R Tiwari College of Engineering
Aishwarya M Kamat	Maharashtra	9820666450	Rizvi College of Engineering
Dr. Prasanna Shele	Maharashtra	9960452937	K. J. Somaiya College of Engineering, Vidyavihar Mumbai
Dinesh Chauhan	Maharashtra	9225890625	Rizvi college of engineering
Musfique Reza	Maharashtra	7700888561	Theem College of Engineering
M Shajuzzama Shaikh	Maharashtra	8652155141	Rizvi College of Engineering Bandra Mumbai
Dr Gilanjali Tabhane	Maharashtra	9021910838	Priyadarshini College of Engineering Nagpur
PRITI MALI	Maharashtra	8355859096	Theem college of engineering Boisar
Afshaan Shaikh	Maharashtra	7710055298	Rizvi College of Engineering
Farhan Shaikh	Maharashtra	7738033583	Rizvi College of Engineering
Vijaya B Shelke	Maharashtra	9768669946	PHCET Rasayani
Karthik Sankararaman	Maharashtra	8652727571	Thakur College of Engineering & Technology
Neha Abhishek Singh	Maharashtra	8788397231	S.S.T COLLEGE OF ARTS AND COMMERCE
Dr Suma Sreedhar	Maharashtra	9270255606	AP Shah Institute of technology
Shrikant R Chawade	Maharashtra	9224504295	K.J. Somaiya. College of Engineering Vidyavihar Mumbai
Trupti Agarkar	Maharashtra	9820975372	Ramrao Adik Institute of technology, Dr. D Y Patil to be deemed University, Nerul Navi Mumbai
Ms. Swapnali Ravindra T	Maharashtra	9405497713	VPM'S Maharshi Parshuram College of Engineering, Velneswar
Ankita Ravindra Mane	Maharashtra	8329902629	Vidyavardhini College of engineering and technology Vasal west
Aasha Kantekar	Maharashtra	9970012373	Smt. Indira Gandhi College of Engineering
Patil sonabal dasarath	Maharashtra	8788580730	Sambhajirao kendre mahavidyalay Jalgot tq, Jalgot dist latur
Milind Yadav	Maharashtra	8668762644	Finolx Academy of Management and Technology
Ankita Ravindra Mane	Maharashtra	8329902629	Vidyavardhini College of Engineering and Technology Vasal west
Farheen Shaikj	Maharashtra	80953 50786	Government Engineering College Karwar
Vandana Maurya	Maharashtra	9769893642	B. K. Birla College (Autonomous), Kalyan
Dr. Shampala Rajaram Ma	Maharashtra	9422417847	Dr J.J. Magdum COE, Jaysingpur
Yogesh Mahadev Jadhav	Maharashtra	9022109481	PAH Solapur University Solapur
Sonali Mangesh Patil	Maharashtra	9765969402	Atma Malik Institute of Technology and Research
Kirti Rathi	Maharashtra	9820814180	RAIT
Shinde Pranita Prabhu	Maharashtra	7719991958	SRTMU, Nanded
Shinde Pranita Prabhu	Maharashtra	7719991958	SRTMU, Nanded
Prof. Rupali Gaikwad	Maharashtra	7218683458	AMRIT
Aditi Mahendra Jadhav	Maharashtra	7972585586	MGM JNEC Aurangabad
Afshaan Shaikh	Maharashtra	7710053298	Rizvi College Of Engineering



Attendance of the workshop

Quality Assurance in Higher Educational Institutes by using Open Educational Resources

Name	State	Contact no	Institution
Sumecha Balwan Mehat	Maharashtra	9592167833	School of Mathematical Sciences, SRITMU, Nanded
Shital Faltha	Maharashtra	9870005513	Pimpri Ind. collage of engineering and technology
Yash D. D.	Maharashtra	9773151413	Friends Institute of Technology (Engineering College)
Kalyani Shrinivas Kulkarni	Maharashtra	7710071411	Savitribai Phule Mahila Education Society's Institute of Technology, Nanded
Hanumantha Mavkar	Maharashtra	9929147101	Vishwaniketan's IALET
Hirajsinh Yeolikar	Maharashtra	9667202443	Theem College of Engineering, Boisar
MOHD AQIB NOOR MOI MAHARASHTRA		8806601128	THEEM GROUP OF INSTITUTION BOISAR
Pankaj Dnyanoba Ghosh	Maharashtra	9821111289	Maharashtra Institute of Technology, Aurangabad, Maharashtra
Neha Abhishek Singh	Maharashtra	8788577231	S.S.T COLLEGE OF ARTS AND COMMERCE
MOHAMMED JUNED SI MAHARASHTRA		9867283607	Rizvi collage of engineering
Shaikh Arif Shaikh Iqbal	Maharashtra	9220643895	AIKTC School of Engineering & Technology, Parvel
Dr Syed Mohammad Sh		7006223497	University of Jammu
Mrs A Netto Mertia	Maharashtra	9022770432	VESIT, chembur
Vishal B Patil	Maharashtra	9892548707	A.C Patil College of engineering
Kunal Kishor	Maharashtra	7903566765	VPM's MPCOE Velneswar
Prof. Mrs. Phulane M.U.	Maharashtra	7709904600	Dr.J.J Magdum College of Engg., Jaysingpur
Kausar Fakir	Maharashtra	9221040404	Ranrao Adik Institute of Technology
jkhan07@gmail.com	Maharashtra	7568518730	Anjuman Islam Janjira Degree College of Science Munud Janjira Dist-Raigad
Dr. Nilash Tejram Deotak	Maharashtra	8779571252	St John College of Engineering and Management, Palghar
Mithill Gaurishankar	Maharashtra	9820605898	SST College of Arts and Commerce
Md Moyeed Abrar		9738335323	Khaja Bandanawaz University
Feroza Mirajkar		7795386102	FENT, Khaja Bandanawaz University, Kalaburagi
Sushma kore	Maharashtra	9867465171	KCCEMSR Thane
MOHAMMED JUNED SI MAHARASHTRA		9867283607	RIZVI COLLEGE OF ENGINEERING
ZAID B HAVALDAR	MAHARASHTRA	8976967830	DRT's A E KALSEKAR DEGREE COLLEGE, MUMBRA
Dr Runmoni Gogoi	Maharashtra	9969647557	Terna Engineering College
Mrs.P.P.Belagall	Maharashtra	9158895225	Dr.J.J Magdum College of Engineering Jaysingpur
Nikhat Fatma Mumtaz Hi	Maharashtra	7506916082	Rizvi Education Society's Rizvi College of Engineering, Bandra West
Dr. Jyoti Rupendra Aman	Maharashtra	9833125554	Shri.LR. Twari college of engineering
Nisha Shelar	Maharashtra	9860174845	Alma Malik Institute of Technology and Research
Manohar G Bali		8105779912	MLR INSTITUTE OF TECHNOLOGY DUNDIGAL
Nehe Tejaswini Gauresh	Maharashtra	8097264430	Alma Malik Institute of Technology and Research



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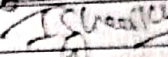



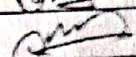


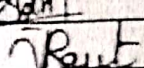
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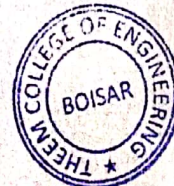
Attendance

Session: 2nd

Day- 1st

Date: 09 June 2023

Sr. No	Name of Participants	Sign
1	Hemalata Jangale	
2)	Iftikhar Shaikh	
3)	Shaikh Abdul Bari	
4)	Jabbar Ahmed Shaikh	
5)	K.N. Attarde	
6)	Ansari Moceruzin	
7)	Vaishali P. Patil	
8)	Snehal Patil	
9)	Vipra Raut	
10)		



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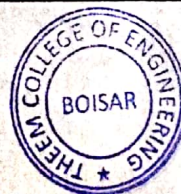
Session: 2nd

Day- 1st

Date: 09 June 2023

Sr. No	Name of Participants	Sign
1	MOIN-UL-HAQUE SABRI	
2	Ahmad Rafique	
3	Waseem Shaikh	
4	Shaikh Sajeed Khamrodi	
5	NOMAN BADER	
6	ASFAQ AHAMAD	
7	Dr. Minhaj Hashim	
8	Wasim Khan	
9	Dr. Md. Anwar	
10	Musfiq Reza	
11	Omkar S. Sankhe	
12	Mubashir Khan	
13	Prof. Faiz Mohd. Khan	
14	Raees Ahmad	
15	Shalu Singh	
16	Siddhi Wadav	
17	Tejasvi Bari	
18	Priyanka Padil	
19	Mrs. Sneha Sankhe	
20	Gawandi' Irem Astaray	
21	Krupa Pimple	
22	Sarika Patil	
23	Madhoni mote	

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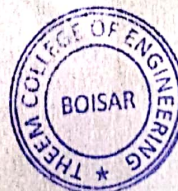
Day- 1st

Date: 09 June 2023

Sr. No	Name of Participants	Sign
1.	Ketaki Patil (Computer Dept)	[Signature]
2.	Shahedul Aroz (Computer Dept)	[Signature]
3.	Sheeba Narg (Electrical Dept)	[Signature]
4.	Manika Patil (Computer Dept)	[Signature]
5.	N G Hiremath	[Signature]
6.	Harshad Ranadive	[Signature]
7.	Branali Pramod Naik	[Signature]
8.	Payal Gadgil	[Signature]
9.	Sonali Kothik	[Signature]
10.	Navajyoti Kotele	[Signature]
11.	Apeksha Bari	[Signature]
12.	Himanshi Bari	[Signature]
13.	Kanchan Patil (Computer Dept)	[Signature]
14.	Shamshul Haqueem	[Signature]
15.	Shubham V. Dhodi (Automobile Dept)	[Signature]
16.	Ibrahim A. Khan (Mechanical Dept)	[Signature]
17.	Vishvajit D. Bhatti (Mechanical)	[Signature]
18.	Ishtad Shaikh	[Signature]
19.	Ayaz Bagwan	[Signature]
20.	Mohd Manoj	[Signature]
21.	Mohd. Shakeel (Comp Dept)	[Signature]
22.	Khan Zahir A.	[Signature]
23.	Zulfiquar Ahmad	[Signature]

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23 + 23 + 9 = 55



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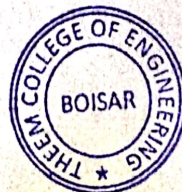
Session: 1

Day- 1st

Date: 03 June 2023

Sr. No	Name of Participants	Sign
1	Raees Ahmad Noor Mohammad	
2	Faiz Mohammad Khan	
3	Shaikh Waseem	
4	Mohammad Shakool Iqbal	
5	Ahmad Rafique	
6	Asfaq Ahmad	
7	NOMAN BADER	
(8)	MOIN - UL - HADUQ SABRI	
9)	Khan Zahir A.	
10)	Musfiq Reza	
11	Shaikh Sajid Kammodin	
12)	Shubham V. Dhodi	
13)	Ketan R. Patil	
14)	Vishwajeet D. Bhatti	
15)	Abhishek B. Mane	
16)	Ibrahim A. Khan	
17)	Omkar S. Sankhe	
18)	Ishad Shalch	
19)	Dr. Md. Anwar	
20)	Mubashir Khan	
21)	Abid Manjar	
22)	Ahaz Bagwan	
23)	Zulfiqar Ahmad	

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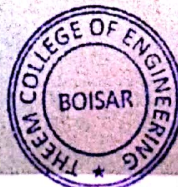
Session: 1

Day- 1st

Date: 09 June 2023

Sr. No	Name of Participants	Sign
24	Nadirkhan	
25	Meghana Tamore	
26	Madhuri Pooje	
27	Priya Mali	
28	Sonika Patil	
29	Poanali Pramod Naik	
30	Snehali Patil	
31	Himanshi Bari	
32	Tejasvi Bari	
33	Hemlata Jangale	
34	Naeem Shaikh	
35	N G Hiremath	
36	Harshad Ranadive	
37	Payal Chaudgil	
38	Narajyothi Katela	
39	Wasim Khan	
40	Dr. Minhaj Hashim	
41	Sonali Karthik	
42	Suman Patil	
43	Mrs. Sneha Bankhe	
44	Shahgul Afroz	
45	Sheeba Naaz	
46	Monika Pathare	

2



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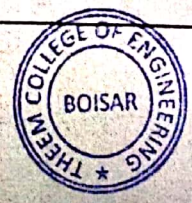
Session: 1

Day- 1st

Date: 09 June 2023

Sr. No	Name of Participants	Sign
47	Ketaki Patil	
48	Ekta Tandel	
49	Shaikh Abdul Bari	
50	Iqbal Ahmed Shaikh	
51	Nisar Shah	
52	Priyanka Patil	
53	Shalu Singh	
54	Apeksha Bari	
55	Vaishali Pankaj Patil	
56	Vipra P. Raut	
57	Surkha Attarde	
58	Gawandoli Iram Aslam	
59	Krupa Sanjay Pimple	
60	Sk. Shanque Shi.	
61	Ansari Moenuzzin	
62	K.N. Attarde	
63	Siddhi Wade.	
64	IFHicher Shaikh	

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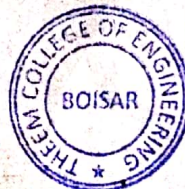
Session: 4th

Day- 2nd

Date: 16th June 2023

Sr. No	Name of Participants	Sign
1	Shalu Singh	[Signature]
2	Pranali Athrekar	[Signature]
3	Pranali Naik	[Signature]
4	Shaikh Wasim	[Signature]
5	Ahmed Rafique	[Signature]
6	ASEAD ANAMAD	[Signature]
7	MOIN-UL-HAQ (BPP)	[Signature]
8	Iqbal Shaikh (Comp)	[Signature]
9	Musfique Reza	[Signature]
10	NOMAN BADER	[Signature]
11	Dr. Minhaj Hashim	[Signature]
12	Dr. Md. Ansar	[Signature]
13	Omkar S. Sankhe	[Signature]
14	Wasim Khan	[Signature]
15	Faiz Mohammad Khan	[Signature]
16	K.N. Attarde	[Signature]
17	Azizuddin Kazi	[Signature]
18	Raees Ahmad	[Signature]
19	Ishad Shaikh	[Signature]
20	Ansari Moeenuddin	[Signature]
21	Abid Manjary	[Signature]
22	Mohd. Shakeel Mohd. Iqbal	[Signature]
23	Shahgul Afroz	[Signature]

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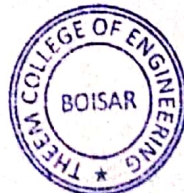
Session: 4th

Day- 2nd

Date: 10th June 2023

Sr. No	Name of Participants	Sign
24)	Sheeba Naaz (Electrical Dept)	[Signature]
25)	Ketaki Patil (Computer Dept)	[Signature]
26)	Shaikh Sajid (App. Sci Math)	[Signature]
27)	Pankaj Kumar (Electrical Dept)	[Signature]
28)	Uaeed Sheikh (Electrical)	[Signature]
29)	Kanchan Patil (Computer Dept)	[Signature]
30)	Sonali Keshik (IT)	[Signature]
31)	Narajyoti Kotele (Electrical)	[Signature]
32)	Payal Gadgil (Electrical)	[Signature]
33)	Apeksha Baid (APP-sci-chemistry)	[Signature]
34)	Monika Pathare (Computer Department)	[Signature]
35)	Beini Himanshi	[Signature]
36)	Hashad Ranadive (Civil Dept)	[Signature]
37)	N G Hiremath	[Signature]
38)	Ayaz B.	[Signature]
39)	Tejasvi Bori	[Signature]
40)	Sk. Sharique Ahmad	[Signature]
41)	IPH... Chavhan	[Signature]
42)	Simran Patil	[Signature]
43)	NADIR KHAN M. PATHAN	[Signature]
44)	khan Zahir Ahmed	[Signature]
45)	Prinyanka Patel	[Signature]
46)	Zulfiqar Ahmed	[Signature]

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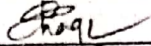
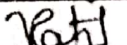
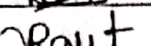
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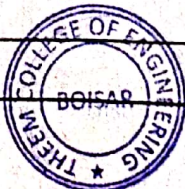
Attendance

Session: 4th

Day- 2nd

Date: 10th June 2023

No	Name of Participants	Sign
47)	Sk. Sharique Ah.	
48)	Vaishali P. Patil	
49)	Vipra Raut	



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Session: 3rd

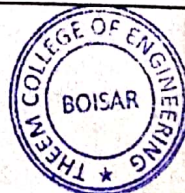
Day- 2nd

Date: 10th June 2023

Sr. No	Name of Participants	Sign
1)	Shalu Singh	Shalu
2)	Priyanka Patil	Priyanka
3)	Apeksha Bari	Apeksha
4)	Simran Patil	Patil
5)	Pranali Akhadkar	Pranali
6)	Pranali P. Naik	PPNaik
7)	Kanchan P. Patil	KPPatil
8)	Sueha Sankhe	Sankhe
9)	Sonali Karthik	Sonali
10)	N G Hiremath	Hiremath
11)	Harshad Ranadive	Ranadive
12)	Shaikh Masoom	Shaikh
13)	Ajay Bagwan	Bagwan
14)	Omkar S. Sankhe	Sankhe
15)	Khan Zahir Ahmed	Zahir
16)	Ahmad Rafique	Ah Raf
17)	ASFAQ AHMAD	Ahmad
18)	NOMAN BADER	Noman
19)	Musfique Reza	Musfique
20)	MOWLL-HAQUE SMR1	Mowll
21)	Naesson Shalkm	Naesson
22)	Toshad Shauqy	Toshad
23)	Mubashir Khan	Mubashir

23+22+3=48

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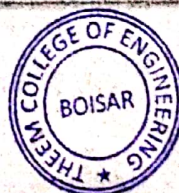
Session: 3rd

Day- 2nd

Date: 16th June 2023

Sr. No	Name of Participants	Sign
24)	Mohd Shakeel (Computer Dept)	
25)	Pankaj Kumar (Electrical Dept)	
26)	Dr. Vinay Hashim (Mech)	
27)	Wasim Khan (Mech)	
28)	Faiz Mohammad Khan (Civil)	
29)	Races Ahmad Noor Mahomed	
30)	Dr. Md. Anwar (Automobile)	
31)	Azmadin Azgi (Physics)	
32)	K N Attarde (Comp dept)	
33)	Navajyoti Kotela (Electrical dept)	
34)	Payal Gadgil (Electrical dept)	
35)	Ansari Moeenuddin	
36)	Abid Manyar	
37)	Abhishek . B. Maje (Dip Mech)	
38)	Vishvajit D. Borhi (Dip mech)	
39)	Hemalata Lalit Jangale	
40)	Kaushik Gait	
41)	Manika Pathar	
42)	Shaboo Noor (Electrical)	
43)	Shahgul Afroz	
44)	Zulfiqar Ahmed	
45)	Shaikh Sybil Ahmed (Comp)	
46)		

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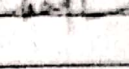
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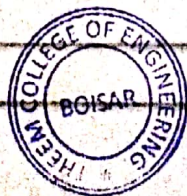
Attendance

Session: 3rd

Day- 2nd

Date: 10 June 2023

Sl. No	Name of Participants	Sign
1)	Mrs. Vaishali. P. Patil	
2)	Mrs. Vipra. P. Rout.	
3)	SK. Shafique Ahmad	
4)		
5)		

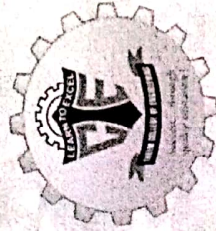


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This is certify that **ABID SHAIKH SHABBIR MANYAR** Of **THEEM COLLEGE OF ENGINEERING BOISAR** has Participated in the Workshop on "Quality Assurance in Higher Educational Institutes by using Open Educational Resources" Conducted on 9th & 10th June 2023 by IQAC.



[Signature]

Dr. Riyazoddin Siddiqui
Principal

[Signature]

Dr. Emily Ghosh
IQAC Coordinator

[Signature]

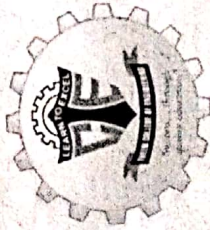
Dr. N.K.Rana
Director



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Dr. Riyazoddin Siddiqui
Principal



Dr. Emily Ghosh
IQAC Coordinator

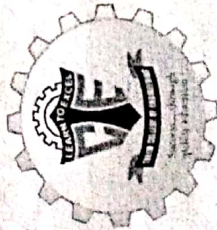


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Dr. Riyazoddin Siddiqui
Principal

[Signature]

Dr. Emily Ghosh
IQAC Coordinator

[Signature]

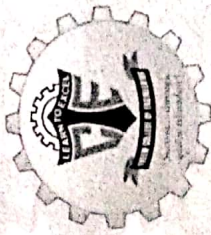
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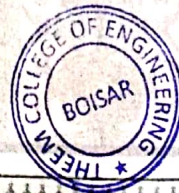
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Dr. Riyazoddin Siddiqui
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Dr. Emily Ghosh
IQAC Coordinator

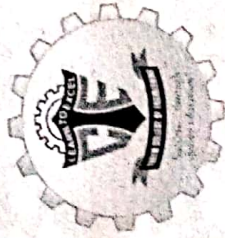
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Riyaz

Dr. Riyazoddin Siddiqui
Principal

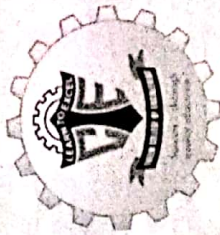
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Dr. Emily Ghosh
IQAC Coordinator

N.K.Rana

Dr. N.K.Rana
Director

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Principal

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IQAC Coordinator

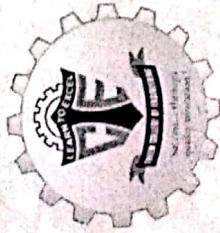
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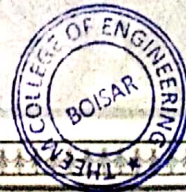
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This is certify that **KUNAL KISHOR** Of **VPM's MPCOE Velneshwar** has Participated in the Workshop on "Quality Assurance in Higher Educational Institutes by using Open Educational Resources" Conducted on 9th & 10th June 2023 by IQAC.



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Dr. Emily Ghosh
IQAC Coordinator

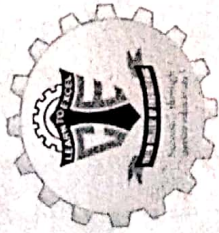
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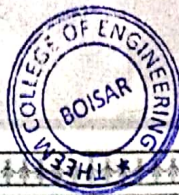
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Riyaz

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Principal

E. Ghosh

Dr. Emily Ghosh
IQAC Coordinator

N.K.Rana

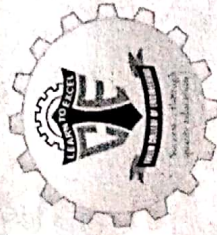
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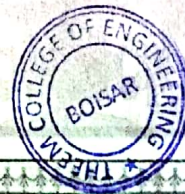
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IQAC Coordinator

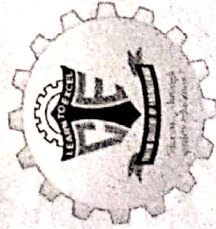
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IQAC Coordinator

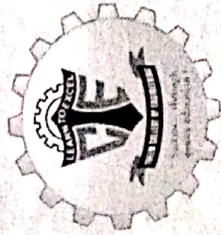
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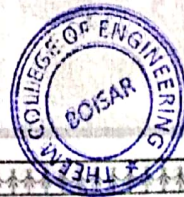
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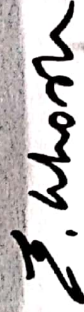
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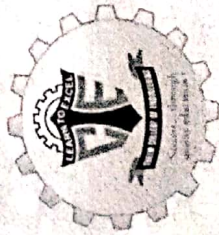


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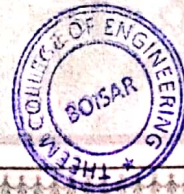
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This is certify that **MRS.VAISHALI PANKAJ PATIL** Of **THEEM COLLEGE OF ENGINEERING BOISAR** has Participated in the Workshop on "Quality Assurance in Higher Educational Institutes by using Open Educational Resources" Conducted on 9th & 10th June 2023 by IQAC.



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Dr. Riyazoddin Siddiqui
Principal

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Dr. Emily Ghosh
IQAC Coordinator

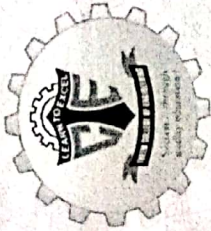
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Principal

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Dr. Emily Ghosh
IQAC Coordinator

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Dr. N.K.Rana
Director

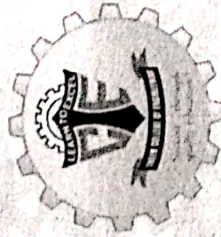
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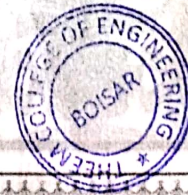


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This is certify that **MUBASHIR KHAN ABDUL RASHID KHAN** Of **THEEM COLLEGE OF ENGINEERING BOISAR** has Participated in the Workshop on "Quality Assurance in Higher Educational Institutes by using Open Educational Resources" Conducted on 9th & 10th June 2023 by IQAC.



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Principal

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Dr. Emily Ghosh
IQAC Coordinator

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REF No.: TCE/EST/2022-23/450

Date: 8/06/2023

To

Dr. R.R.Sawant

Sardar Patel Institute of technology

Mumbai Maharashtra.


Subject: Thanks giving letter for delivering a lecture and demonstrating session on 'Latex'.

Dear Sir,

On the behalf of IQAC of Theem college of Engineering, we express our appreciation for your valuable session on 'Latex' during NAAC sponsored workshop on "Quality Assurance in Higher Educational Institute (HEI's) by using Open Educational Resources (OER)". We are profoundly thankful for sharing your time, talent and knowledge with us. We hope to seek your expertise for similar program in future.


Thanking you,

Yours faithfully,

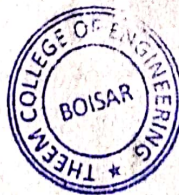
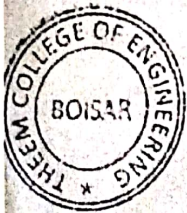

(Dr. Emily Ghosh)
IQAC Coordinator

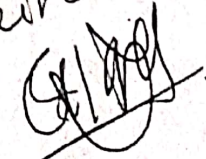

(Dr. Riyazoddin Siddiqui)
PRINCIPAL
PRINCIPAL

THEEM COLLEGE OF ENGINEERING
Boisar (East) Tal. & Dist. Palghar - 401 501


(Dr. N. K. Rana)
DIRECTOR
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REF NO:- TCE/EST/2022-23/457

Date:- 10/06/2022

To
Dr. Riyazuddin Siddiqui
Principal
Theem College of Engineering
Boisar.

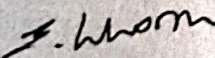
Subject: Thanks giving letter for conducting demonstration on 'Latex'.

Dear Sir,

On the behalf of IQAC of Theem college of Engineering, we express our appreciation for your valuable session on 'Latex' during NAAC sponsored workshop on "Quality Assurance in Higher Educational Institute (HEI's) by using Open Educational Resources (OER)". We are profoundly thankful for sharing your time, talent and knowledge with us. We hope to seek your expertise for similar program in future.


Thanking you,

Yours faithfully,

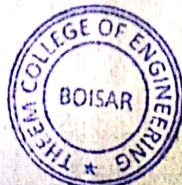
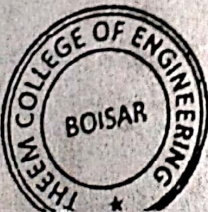

(Dr. Emily Ghosh)
IQAC Coordinator


(Dr. Riyazuddin Siddiqui)
PRINCIPAL

PRINCIPAL
THEEM COLLEGE OF ENGINEERING
At Village Betegaon, Near Union Path,
Boisar (East), Tal. Palghar, Dist. Thane-401 501


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REF NO :- TCE/EST/2022-23/456

Date :- 10/06/2023

To
Ms. Snehal Patil
Maths Department
Theem College of Engineering
Boisar

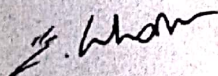
Subject: Thanks giving letter for delivering a lecture on 'Scilab'.

Dear Sir,

On the behalf of IQAC of Theem college of Engineering, we express our appreciation for your inspiring speech on 'Scilab' during NAAC sponsored workshop on "Quality Assurance in Higher Educational Institute (HEI's) by using Open Educational Resources (OER)". We are profoundly thankful for sharing your time, talent and knowledge with us. We hope to seek your expertise for similar program in future.

Thanking you,

Yours faithfully,

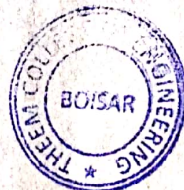
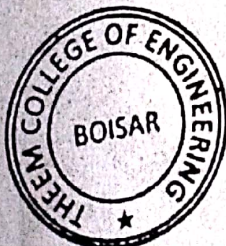

(Dr. Emily Ghosh)
IQAC Coordinator


(Dr. Riyazoddin Siddiqui)
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PRINCIPAL
THEEM COLLEGE OF ENGINEERING
At Village Belegaon, Near Union Park,
Boisar (East), Tal. Palghar, Dist. Thane-401 501


(Dr. N. K. Rana)
DIRECTOR

DIRECTOR
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Ref No: -TCE/EST/2022-23/449

Date: -08/06/2023

To
Prof. Julie Dominic A
Little Flower College
Guruvayoor Thrissur, Kerala.


Subject: Thanks giving letter for delivering a lecture on 'A & A Methodology'.


Dear Sir,

On the behalf of IQAC of Theem college of Engineering, we express our appreciation for your inspiring speech on 'A & A Methodology' during NAAC sponsored workshop on "Quality Assurance in Higher Educational Institute (HEI's) by using Open Educational Resources (OER)". We are profoundly thankful for sharing your time, talent and knowledge with us. We hope to seek your expertise for similar program in future.

Thanking you,

Yours faithfully,


(Dr. Emily Ghosh)
IQAC Coordinator


(Dr. Riyazuddin Siddiqui)
PRINCIPAL

PRINCIPAL
THEEM COLLEGE OF ENGINEERING
Boisar (East) Tal. & Dist. Palghar -401 501


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REP No:- TCE/EST/2022-23/454

Date:- 10/06/2022

To
Ms. Sneha Sankhe
HOD (IT Department)
Theem College of Engineering
Boisar.

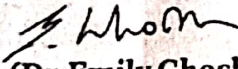
Subject: Thanks giving letter for delivering a lecture on 'Linux'.

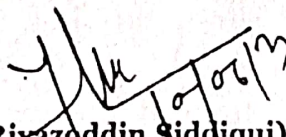
Dear Sir,

On the behalf of IQAC of Theem college of Engineering, we express our appreciation for your inspiring speech on 'Linux' during NAAC sponsored workshop on "Quality Assurance in Higher Educational Institute (HEI's) by using Open Educational Resources (OER)". We are profoundly thankful for sharing your time, talent and knowledge with us. We hope to seek your expertise for similar program in future.

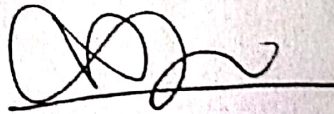
Thanking you,

Yours faithfully,

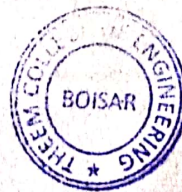

(Dr. Emily Ghosh)
IQAC Coordinator


(Dr. Riyazoddin Siddiqui)
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Boisar (East) Tal. & Dist. Palghar - 401 501


(Dr. N. K. Rana)
DIRECTOR

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**Experiment on Titanic Data Analysis done
using Open Source Software Jupyter-Python
Programming by Student**



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[1]: import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
%matplotlib inline

[2]: ds = pd.read_csv('train.csv')

[3]: ds.head()
```

PassengerId	Survived	Pclass	Name	Sex	Age	SibSp	Parch	Ticket	Fare	Cabin	Embarked	
0	1	0	3	Braund, Mr. Owen Harris	male	22.0	1	0	A/5 21171	7.2500	NaN	S
1	2	1	1	Cumings, Mrs. John Bradley (Florence Briggs Th...	female	38.0	1	0	PC 17599	71.2833	C85	C
2	3	1	3	Heikkinen, Miss. Laina	female	26.0	0	0	STON/O2	7.9250	NaN	S
3	4	1	1	Futrelle, Mrs. Jacques Heath (Lily May Peel)	female	35.0	1	0				
4	5	0	3	Allen, Mr. William	male	35.0	0	0				

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Open privacy policy Yes No



```
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
%matplotlib inline
```

```
ds = pd.read_csv('train.csv')
```

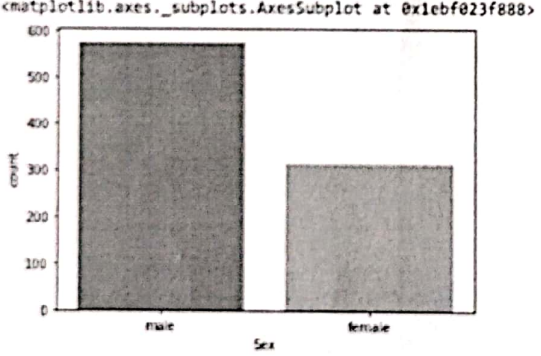
```
ds.head()
```

PassengerId	Survived	Pclass	Name	Sex	Age	SibSp	Parch	Ticket	Fare
0	1	0	3 Braund, Mr. Owen Harris	male	22.0	1	0	A/5 21171	7.25
1	2	1	1 Cumings, Mrs. John Bradley (Florence Briggs)	female	38.0	1	0	PC 17599	71.2833

```
ds.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 891 entries, 0 to 890
Data columns (total 12 columns):
#   Column      Non-Null Count  Dtype
---  -
0   PassengerId  891 non-null    int64
1   Survived     891 non-null    int64
2   Pclass       891 non-null    int64
3   Name         891 non-null    object
4   Sex          891 non-null    object
5   Age          714 non-null    float64
6   SibSp        891 non-null    int64
7   Parch        891 non-null    int64
8   Ticket       891 non-null    object
9   Fare         891 non-null    float64
10  Cabin        204 non-null    object
11  Embarked     889 non-null    object
dtypes: float64(2), int64(5), object(5)
memory usage: 83.74 KB
```

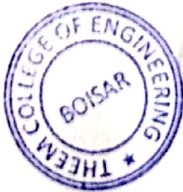
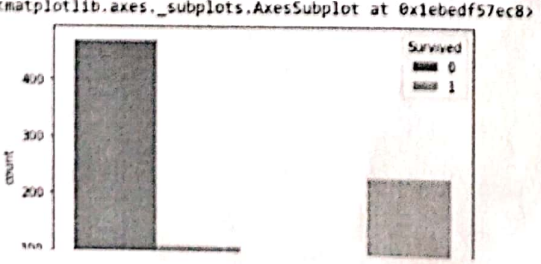
```
sns.countplot('Sex', data = ds)
```



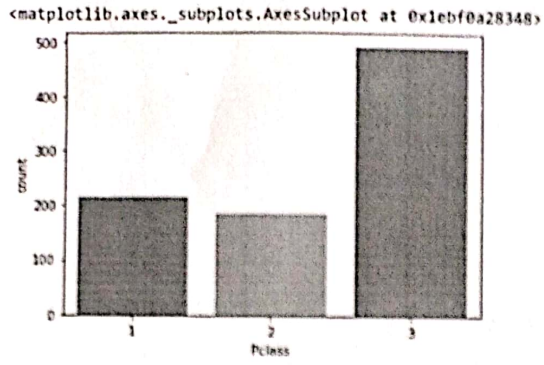
```
ds['Sex'].value_counts()
```

```
male      577
female    314
Name: Sex, dtype: int64
```

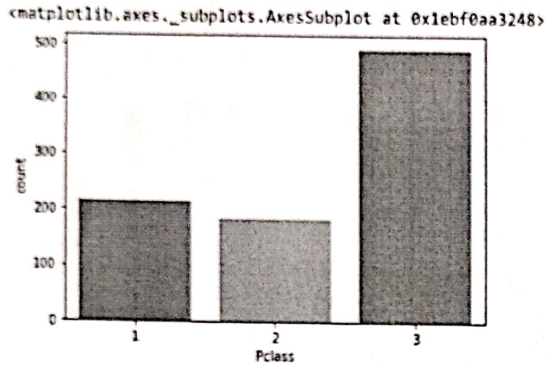
```
sns.countplot('Sex', data = ds, hue = 'Survived')
```



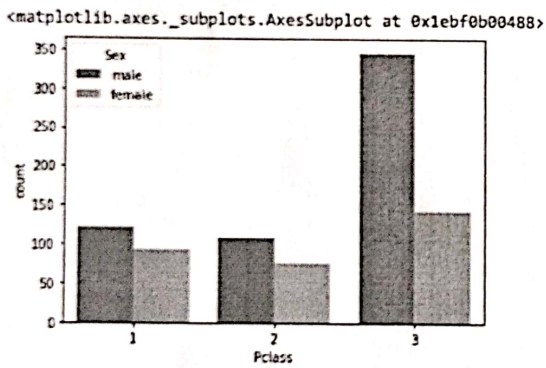
```
sns.countplot('Pclass', data = ds)
```



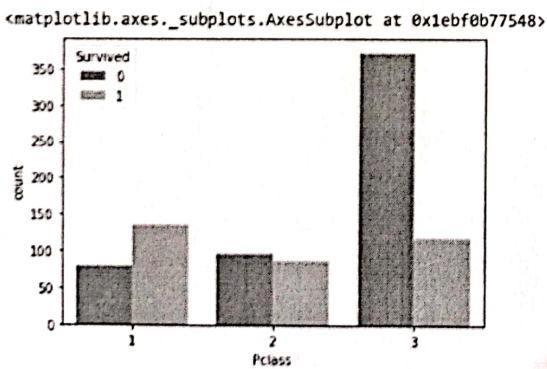
```
sns.countplot(ds['Pclass'])
```



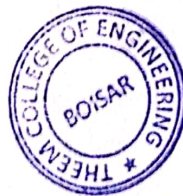
```
sns.countplot('Pclass', data = ds, hue = 'Sex')
```



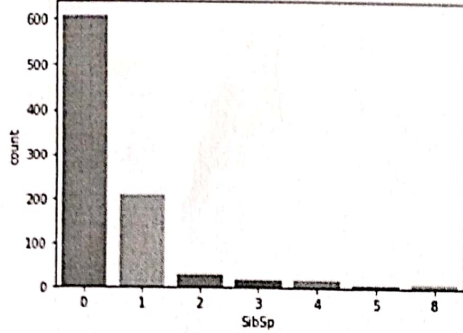
```
sns.countplot('Pclass', data = ds, hue = 'Survived')
```



```
sns.countplot('SibSp', data = ds)
```

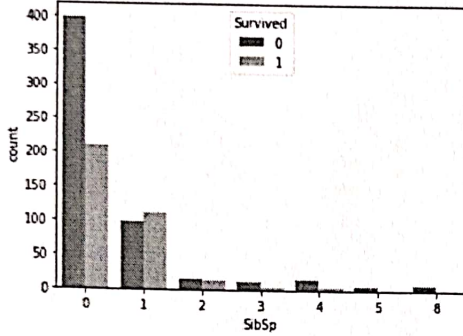


```
<matplotlib.axes._subplots.AxesSubplot at 0x1ebf0bd8c48>
```



```
sns.countplot('SibSp', data = ds, hue = 'Survived')
```

```
<matplotlib.axes._subplots.AxesSubplot at 0x1ebf0be00c8>
```

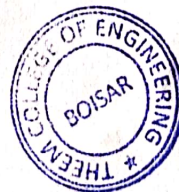
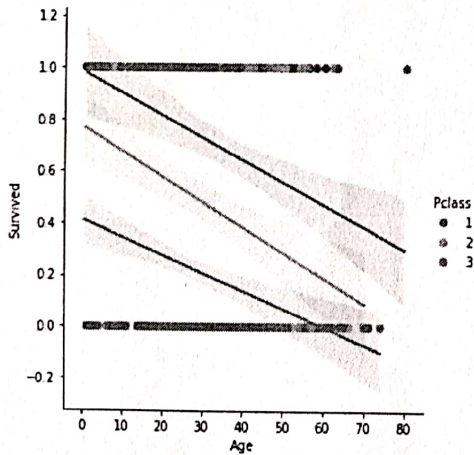


```
ds.head()
```

PassengerId	Survived	Pclass	Name	Sex	Age	SibSp	Parch	Ticket
0	1	0	Braund, Mr. Owen Harris	male	22.0	1	0	A/5 21171
1	2	1	Cummings, Mrs. John Bradley (Florence Briggs)	female	38.0	1	0	PC 17599 7

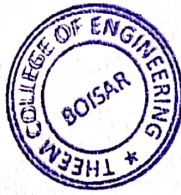
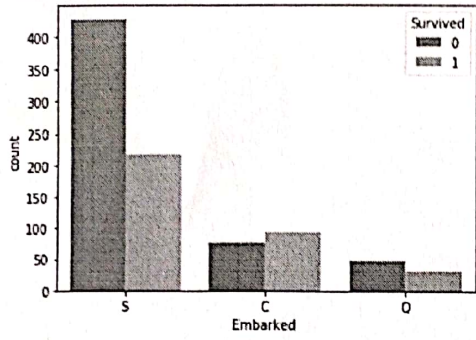
```
sns.lmplot('Age', 'Survived', hue = 'Pclass', data = ds)
```

```
<seaborn.axisgrid.FacetGrid at 0x1ebf0d8a388>
```



```
sns.countplot('Embarked', data = ds, hue = 'Survived')
```

<matplotlib.axes._subplots.AxesSubplot at 0x1ebf0f50048>



**Experiment on Quarter car suspension
model transfer function done using Open
Source Software SciLab by Student**

Quarter car suspension model transfer function

The dynamics of the suspension of a vehicle can be analysed by running simulations through a mathematical model. The simplest model of a vehicle's suspension is called **quarter-car suspension model**.

The model consists of two mass bodies, quarter vehicle and wheel, and lumped parameters for stiffness and damping, for both suspension and tyre.

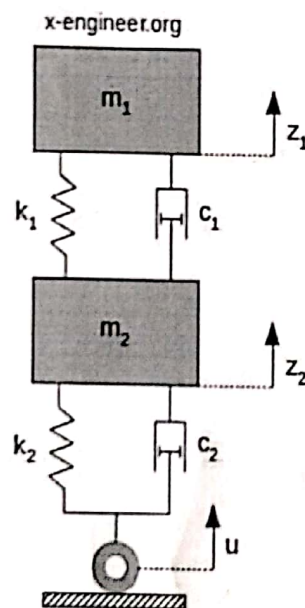


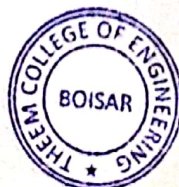
Image: Quarter-car lumped parameters model

In the article [Quarter-car suspension modeling and simulation in Xcos](#) we have determined the system of differential equations for the quarter-car suspension model as:

$$\begin{cases} m_1 \ddot{z}_1 = k_1(z_2 - z_1) + c_1(\dot{z}_2 - \dot{z}_1) \\ m_2 \ddot{z}_2 = k_2(u - z_2) + c_2(\dot{u} - \dot{z}_2) - k_1(z_2 - z_1) - c_1(\dot{z}_2 - \dot{z}_1) \end{cases} \quad (1)$$

where:

- m_1 [kg] – the mass of a quarter of the vehicle body
- m_2 [kg] – the mass of the wheel and suspension
- k_1 [N/m] – spring constant (stiffness) of the suspension system
- c_1 [N·s/m] – damping constant of the suspension system
- k_2 [N/m] – spring constant (stiffness) of the wheel and tire
- c_2 [N·s/m] – damping constant of the wheel and tire
- z_1 [m] – displacement of the vehicle body (output)
- z_2 [m] – displacement of the wheel (output)
- u [m] – road profile change (input)



One way of testing our transfer functions for the quarter-car suspension model is to define them in Scilab.

```
clc()

// Define parameters
m1 = 290; // [kg]
m2 = 15; // [kg]
k1 = 16200; // [N/m]
k2 = 191000; // [N/m]
c1 = 1000; // [Ns/m]
c2 = 2500; // [Ns/m]
t=0:0.001:7; // [s]
u=0.1; // [m]

// Define transfer function
s=poly(0,'s');
// Transfer function for z1 as output
num1=c1*c2*s^2+(k1*c2+k2*c1)*s+k1*k2;
den1=m1*m2*s^4+(m1*c1+m1*c2+m2*c1)*s^3+(m1*k1+m1*k2+k1*m2+c1*c2)*s^2+(c1*k2+k1*c2)*s+k1*k2;
Hs1=[num1/den1];
sys1=syslin('c',Hs1);
// Transfer function for z2 as output
num2=m1*c2*s^3+(c1*c2+m1*k2)*s^2+(k1*c2+c1*k2)*s+k1*k2;
den2=m1*m2*s^4+(m1*c1+m1*c2+m2*c1)*s^3+(m1*k1+m1*k2+k1*m2)*s^2+(c1*c2+c1*k2+k1*c2)*s+k1*k2;
Hs2=[num2/den2];
sys2=syslin('c',Hs2);

// Run step response
z1 = u*csim('step',t,sys1);
z2 = u*csim('step',t,sys2);
figure(1)
plot(t,z1,'b'), xgrid()
plot(t,z2,'r')
hf=gcf();
hf.background = -2;
title("x-engineer.org","Color",'b')
ylabel('Displacement [m]')
xlabel('Time [s]')
legend('$\Large{z_{1}}(t)$','$\Large{z_{2}}(t)$',1)
```

Running the above Scilab instructions outputs the following plot:




```

// Read simulation outputs
t = simOut.time;
u = simOut.values(:,1);
z1 = simOut.values(:,2);
z2 = simOut.values(:,3);

// Plot results
figure(0)
hf=gcf();
hf.background = -2;
plot(t,u,'g')
plot(t,z1,'b')
plot(t,z2,'r')
xgrid()
ylabel('Displacement [m]')
legend('$\Large(u(t))$', '$\Large(z_1(t))$', '$\Large(z_2(t))$', 1)
xlabel('Time [s]')
title("x-engineer.org", "Color", "b")

```

Running the instructions above will output the following plot:

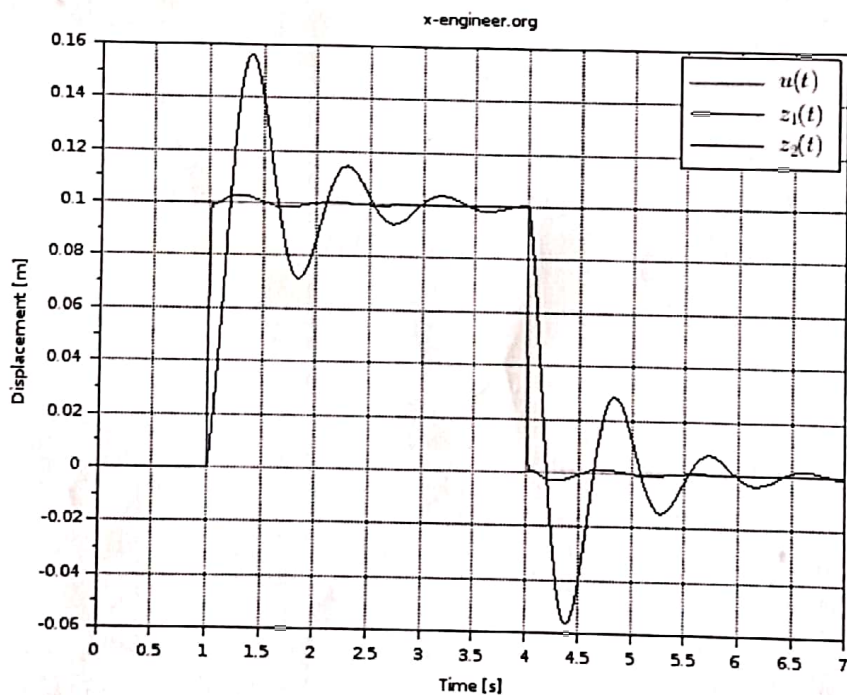


Image: Quarter-car suspension simulation output – Xcos plot

The system's response is equivalent with the wheel going across a sharp road obstacle of 10 cm height. You can clearly see the oscillation of the body mass having higher amplitude than the wheel oscillation.

For further analysis, we can adjust the mass, stiffness or damping parameters, and understand their impact on the overall dynamic response of the suspension.



**Final Year Project Report Writing done using
Open Source Software Latex by Student**



Project Report on

Sign Language Detection using LSTM Algorithm

ROSP Report submitted in partial fulfillment of the requirements
of the degree of

BACHELOR OF ENGINEERING

In

INFORMATION TECHNOLOGY

by

Shraddha Vikas Deshmukh (203105)

Mohammad Arfat Bagban (213140)

Safia Irshad Darvesh (213145)

Under the guidance of

Prof. Sneha Sankhe



Department of Information Technology

Theem College of Engineering, Boisar

Boisar Chilhar Road, Boisar (E), Palghar

University of Mumbai

2023-24



CERTIFICATE

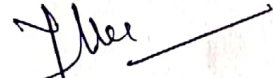
This is to certify that the B.E. Mini project entitled “**Sign Language Detection using LSTM Algorithm**” is a bonafide work of “**Shraddha Vikas Deshmukh (203105), Mohammad Arfat Bagban (213140), Safia Irshad Darvesh (213145)**” submitted to the University of Mumbai in partial fulfillment of the requirement for the award of the degree of “**Undergraduate**” in “**Information Technology**” during the academic year 2023-24.



Prof. Sneha Sankhe
Practical-In-Charge



Prof. Sneha Sankhe
Head of Department



Dr. Riyazoddin Siddique

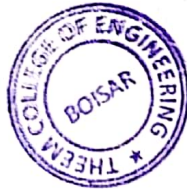
Principal

THEEM COLLEGE OF ENGINEERING
Bolsar (East), Tal. & Dist. Palghar-401 501.

B. E. Mini Project Report Approval

This Mini project synopsis entitled Sign Language Detection using LSTM Algorithm approach by Shraddha Vikas Deshmukh (203105), Mohammad Arfat Bagban (213140), Safia Irshad Darvesh (213145) is approved for the degree of Information Technology from University of Mumbai.

INTERNAL EXAMINER



EXTERNAL EXAMINER

Date: _____

Place:



Declaration

We declare that this written submission represents my ideas in our own words and where others' ideas or words have been included, We have adequately cited and referenced the original sources. We also declare that we have adhered to all principles of academic honesty and integrity and have not misrepresented or fabricated or falsified any idea/data/fact/source in my submission. We understand that any violation of the above will be cause for disciplinary action by the Institute and can also evoke penal action from the sources which have thus not been properly cited or from whom proper permission has not been taken when needed.

Shraddha Vikas Deshmukh (203105)

Mohammad Arfat Bagban (213140)

Safia Irshad Darvesh (213145)



Date: _____

Acknowledgement

We would like to take this opportunity to express our gratitude towards all the people who have in various ways, helped in the successful completion of our project. We must convey our gratitude to our honourable Principal Sir **Dr. S. Riyazoddin Siddiqui** and our HOD and Mini-project Coordinator **Prof.Sneha Sankhe** for giving us the constant source of inspiration and help in preparing the project, personally correcting our work and providing encouragement throughout the project. We also thank all my faculty members for steering me through the tough as well as easy phases of the project in a result-oriented manner with concern attention.

Shraddha Vikas Deshmukh (203105)

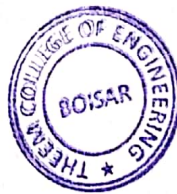
Mohammad Arfat Bagban (213140)

Safia Irshad Darvesh (213145)



Abstract

In today's advanced world of science and technology, communication has developed to the extent where we can connect to any part of the world within minutes. However, communication becomes challenging for blind, mute, and deaf individuals. This project aims to create software that enables effective communication for these individuals without the need for intermediaries. By addressing the unique needs of blind, deaf, and mute people, we can promote meaningful relationships and inclusivity,, it is essential to comprehend the particular requirements and preferences of these people. Verbal communication, emphasising descriptive and context-rich language, is still crucial for blind people. When done with consent, tactile communication is a useful tool. Access to written material is made easier by assistive technologies like screen readers and Braille displays, while visual content comprehension is made possible by audio descriptions. Deaf people rely on visual cues, textual communication, and sign language. Effective talks are aided by learning American Sign Language (ASL) or working with interpreters. Communication is improved by written notes, texts, and visual clues, and different demands are met by text- and video-based services. People who are mute use a variety of techniques to express their ideas through voice or written words, and nonverbal clues and written communication are important components as well. Interactions are further improved through attentive listening, consideration for preferences, and the use of gestures.



The organization of this report is as follows:

Chapter 1: Introduction

This chapter gives a brief introduction about Effective Communication for blind, mute and deaf people using a multi model approach Furthermore includes Motivation, Problem definition, Aim and Scope of the project.

Chapter 2: System Architecture and Design

This chapter provides implementation details of the project in system design which gives information about the necessary things required for project implementation. It also provides information regarding the proposed system architecture to understand the project.

Chapter 3: System Design

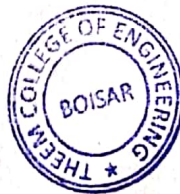
This chapter presents different diagrams like Use-Case diagram, Data Flow diagram, Activity diagram, Sequence diagram, etc. to understand connectivity and flow of various activities.

Chapter 4: Result and Discussion

This chapter presents the lessons learned represented with the results and the area where work can be further carried out in further represented can be discussed.

Chapter 5: Conclusion and Future Scope

This chapter presents the lessons learned represented with the conclusion and the area where work can be further carried out in further represented with future scope.



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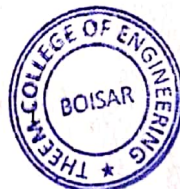
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Result and Discussion

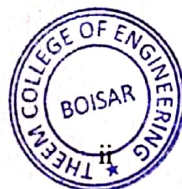


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Conclusion and Future Scope

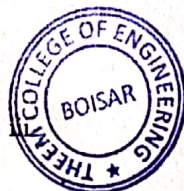
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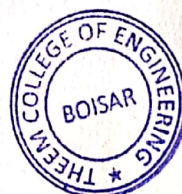
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1 Analysis of Research Papers 7



Acronyms

- **LSTM-Long Short term memory**
- **CNN - Convolutional Neural Networks**
- **ASL – American Sign Language**
- **GTT – Gesture To Text**
- **ITG – Image To Gesture**
- **LCD – Liquid Crystal Display**
- **SLR - Sign Language Recognition**



Chapter 1

Introduction

1.1 An overview

For communication and understanding of their surroundings, blind people rely on their other senses and assistive technologies. **Audio Descriptions:** When describing visual content, provide detailed audio descriptions of images, videos, or surroundings. **Deaf people use sign language, written communication, and visual cues to communicate effectively.** **American Sign Language (ASL) and Other Sign Languages:** Learn basic sign language or use an interpreter if available. ASL is a widely used sign language in the United States. **Written Communication:** Use written notes, text messages, or communication apps to convey information. **Visual Cues:** Use facial expressions, gestures, and body language to enhance communication. Maintain eye contact to show engagement. **Assistive Technologies:** Consider using video relay services (VRS) or text-based relay services to facilitate communication. **Mute people may not be able to speak, but they can still communicate through various methods.** **Written Communication:** Provide



a means for written communication, such as pen and paper or electronic devices. Gestures and Body Language: Encourage the use of gestures, facial expressions, and body language to convey emotions and thoughts.

1.2 Motivation

The motivation behind developing effective communication strategies for people with sensory and speech impairments. Every people, regardless of their abilities, deserves the right to communicate, express themselves, and engage meaningfully with others. Understanding and addressing the unique challenges faced by people who are blind, deaf, or mute is essential for building a more inclusive and compassionate society.

1.3 Problem Definition

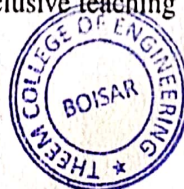
It was difficult for the blind, mute and deaf people to communicates with each other on a single platform so here we have made an application for them where they can easily contact them. In existing system Sign Language is the only way of communication for speech impaired people. As the general people unable to understand the sign language, so it becomes very difficult for a speech impaired person to communicate with them.

1.4 Aim of Project

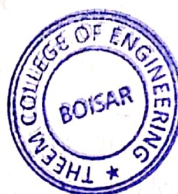
To make a such a project that will be helped for doing effective communication for blind ,deaf and mute people. It is a unique and challenging situation, but it is possible with creativity and patience. It's important to keep in mind that successful communication in this situation may take time to develop and it will require a lot of practice and mutual understanding. Collaboration and openness to trying different techniques will be key in making this unique form of communication work efficiently.

1.5 Scope of Project

The scope of effective communication strategies for people with sensory and speech impairments is dynamic and evolving, influenced by advances in technology, changes in societal attitudes, and the ongoing efforts of advocates and organizations dedicated to inclusivity and accessibility. Ultimately, the scope encompasses all aspects of life where communication plays a pivotal role, aiming to create a world where everyone can communicate, connect, and participate fully. Training educators and support staff on inclusive teaching methods and communication



approaches. Integrating assistive technologies into classrooms to facilitate communication and learning. Encouraging public spaces, events, and activities to be accessible and inclusive for all communication modes.



Chapter 2

Literature Survey

2.1 Background

A systematic literature review is a means of evaluating and interpreting all available research relevant to a particular research question, topic or phenomenon of interest. The scientific databases with full text paper, and the other available scientific articles in the field of social sciences were used in the research. All scientific and other papers and works written in the time span from 2009 to March 2020 are taken into account in the results selection.

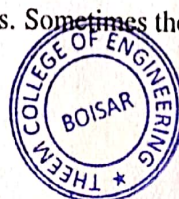
1. Gesture Controlled Assistive Device for deaf, dumb and blind people using Rasperry PI
Author: A.R Manikanavar, S.B. Shirol Focusing and Addressing the problems of Visually(Who Can't see), Audibly(who can't hear), Vocally(who can't talk), through a single device is a tough task. After researching on this a convenient assistive device can be made for them using latest devices like Rasperry pi, Windows, MAC etc. The main purpose of the device is to make the differently abled people, feel independent confident by seeing, hearing and talking for them.



The device provides Raspberry Pi/Windows based aid for the blind, deaf and dumb people. The proposed device uses CNN (Convolutional neural networks) algorithm. It is a special type of neural network used for image classification. In this project CNN lies convolution, an operation highly specialized at detecting patterns in images like blurring, sharpening, and outlining to images is done depending on the collected dataset. The indications of hands are simply discovered and shown with the help of this algorithm. The device does Image to text conversion and it is displayed on the Monitor screen of the device in this case I have used monitor instead of LCD screen. The user (Deaf and Dumb people) can understand and what next to communicate with them. The model has 2 options to select the required conversion technique. •Image to Gesture (ITT) •Gesture to Text (GTT)

2. Analyzing and Enhancing Communication Platforms available for a Deaf-Blind user Author: Sartha Tambe, Aishwarya Goythale, Nilesh Rijhwani, Janhvi Patil. When it comes to living in a modern world with lots of technology around you the physically-disabled people face a lot of problems while communicating with the world and using this available technology. This paper explores the current research effort towards building user friendly application that connects two normal people, deaf and dumb, blind and deaf people together. Nowadays there are many applications available when it comes to hearing and visually impaired but every application has a certain limit till now. The work includes three approaches viz. a voice, text and video based input-output interaction. When it comes to deaf and dumb communication, the model to learn sign language was implemented and there was conversion of Indian Sign Language into the text. When it comes to communication between the deaf-blind users, Morse code the language of dash, spaces and dots has always been an effective communication tool. Also in some of the processes, there is use of image to text and text to speech conversion. All the work focuses on how these techniques were developed and available to implement and their effectiveness at the same time. It also provides different ways for the visually and hearing impaired to communicate by converting the texts as voice signals and morse code signals. This paper also proposes and explores another method that can be implemented for a full-fledged interaction between visually and hearing impaired without any limitations and the work depends on Morse code, translations such as Morse code to text, speech and vice-versa.

3. A Hand Gesture Recognition based Communication System for Mute people Author: Iram Haider, Kashif Nisar, Asjad Amin Communication between deaf-mute people becomes more difficult in everyday life. Muteness creates a speech affliction where the patient is unable to have the normal capacity to speak resulting in the complete absence or at least a significant loss of verbal communication under neurological diseases. Sometimes the major cause of muteness is



deafness. Around 466 million people worldwide are deaf and mute, and 34 million of these are children. The communication among a deaf and listening to person poses to be an excessive hassle compared to communication among blind and regular visible humans. Gestural type of communication called Sign language which is observed amongst deaf groups in the world. We proposed a Deaf-Mute verbal exchange device that translates the hand gestures to audio message as an interpreter. The purpose to develop this plan, is to facilitate humans with the help of a deaf-mute communication interpreter device. In the designed model, we used the KINECT sensor-based system to interpret hand gestures. The KINECT sensor captures the motions of mute people like images and then after segmentation, it identifies the gestures which are then decoded into meaningful audio messages that enable the communication more effective. The proposed system is user friendly, as it is easy to use and capable to build efficient and effective human computer interaction.

4. Smart Communication System Using Sign Language Interpretation Author: Divyansh Bisht, Manthan Kojage, Manu Shukla, Yash Patil, Priyanka Bagade Although sign language has become more widely used in recent years, establishing effective communication between mute/deaf people and non-signers without a translator remains a barrier. There have been multiple methods proposed in the literature to overcome these challenges with the help of Sign Language Recognition (SLR) using methods based on arm sensors, data glove and computer vision. However, the sensor-based methods require users to wear additional devices such as arm bands and data-glove. The sensor-free vision-based methods are computationally intensive and sometimes less accurate as compared to the wearable sensor-based methods. In this paper, we propose a vision-based light weight web-based sign-language interpretation system. It provides two-way communication for all classes of people (deaf-and-mute, hard of hearing, visually impaired, and non-signers) and can be scaled commercially.

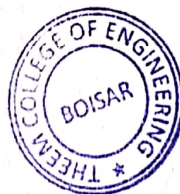


Table 1: Analysis of Research Papers

Sr No	Paper Title [Reference]	Author Name	Advantages	Drawbacks
1	Gesture Controlled Assistive Device for Deaf, Dumb, and Blind People using Raspberry Pi	A.R Manikanavar, S.B. Shirol	The device performs Image to text conversion and displays it on the Monitor screen.	This project lacks a module for deep learning.
2	Analyzing and Enhancing Communication Platforms available for a Deaf-Blind user	Sartha Tambe, Aishwarya Goythale, Nilesh Rijhwani, Janhvi Patil	Image processing for Morse code recognition is more advanced and beneficial than the key-tab method.	This project does not have a module for mute people.
3	A Hand Gesture Recognition based Communication System for Mute People	Iram Haider, Kashif Nisar, Asjad Amin	Recovers customs to communicate by converting language into assistive transitory voice.	This project does not have a module for deaf and blind people.
4	Smart Communication System Using Sign Language Interpretation	Divyansh Bisht, Manthan Kojage, Manu Shukla, Yash Prakash Patil, Priyanka Bagade	Uses Mediapipe to extract hand features from input image/video with 94.69% accuracy.	This project does not have a module for hand gestures for blind people.

2.2 Analysis

The proposed method uses Media pipe to extract hand features from the input image/video and then uses a light weight random forest classifier to classify the signs based on the extracted features with the accuracy of 94.69 . The proposed model is trained on alphabets from American Sign Language. We developed a webased user interface to remove for ease of deployment. It is equipped with text-to-speech, speech-to-text and auto-correct features to support communication between deaf-and-mute, hard of hearing, visually impaired and non-signers.



the system. Designing the software for communication between blind, mute and deaf people using a multi-model approach. In this hand gesture is used for mute peoples to communicate with others which is our main motive and other than this Text-To-Speech and Speech-To-Text is been used.

3.2.1 Requirement Analysis

Hardware Requirements:

- Windows 11 or latest version
- 8GB RAM
- Intel core processor i3
- 100GB free Hard Disk
- Wi-Fi Router
- Laptop

Software Requirements:

- Visual Studio
- Google Colab
- Jupyter

3.2.2 System Architecture

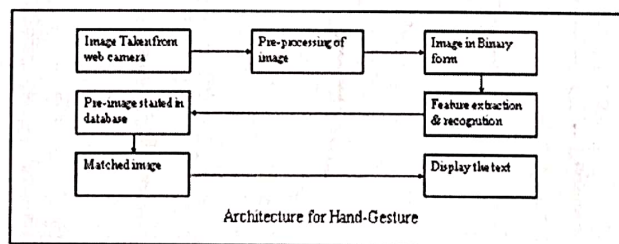
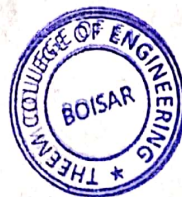


Figure 1: System Architecture



Chapter 3

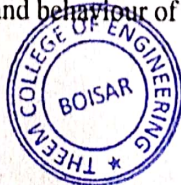
System Architecture

3.1 Introduction

The design of Effective communication between blind, mute and deaf people using a multi-model approach is completely based on software programming that gives audio outputs of signed images. All gestures have specifically assigned audio output messages. The input images that will be the capture of Camera will be then recognized for the appropriate output message. All communications should include persons with disabilities. Targeted communications should also specifically promote or highlight their rights. This is the starting point. We should make the same effort to mainstream disability inclusion that we make to mainstream gender, and for the same reason - to accurately portray the diversity of our society.

3.2 Design of System

The system architecture is the structure and behaviour of the system and gives a proper view of



3.3 Proposed System

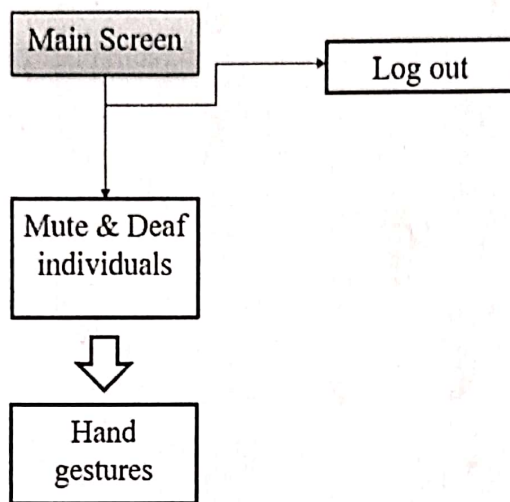
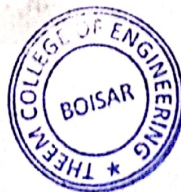


Figure 2: Proposed System

In this project an electronic speaking system and a terminal for typing was developed to ease the communication process of speech impaired people and the speaker is developed for speaking for the visually impaired people. This makes the disabled people to communicate easily without the help of others.



Chapter 4

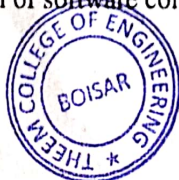
System Design

4.1 Introduction

System design is the process of planning system elements such as architecture, modules and components, the various interfaces of these components, and the data passing through the system. The goal of the system design process is to provide sufficient detailed information and knowledge. information about the system and its system elements so that the implementation is compatible with the architectural units defined in the models and views of the system architecture.

4.2 UML Diagram

UML, which stands for Unified Modeling Language, is a way to visually represent the architecture, design and implementation of complex software systems. UML is a standardized modeling language that can be used with different programming languages and development processes. It is based on a schematic representation of software components.



4.2.1 Use Case Diagram

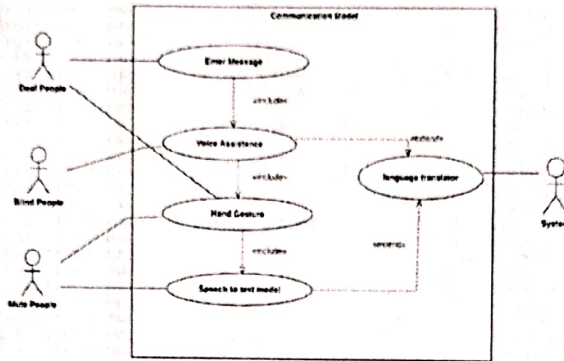


Figure 3: Use Case Diagram

A use case diagram is a graphical representation of a user's possible interactions with a system. A use case diagram shows the different use cases and different types of users of a system and is often accompanied by other types of diagrams. Use cases are represented by circles or ellipses. Actors are often shown as stick figures. There are various use cases for our system such as Hand Gesture, Text-To-Speech, Speech-To-Text, Voice Assistance, Language Translator. For few use cases extend and include conditions are also mentioned.

4.2.2 Class Diagram

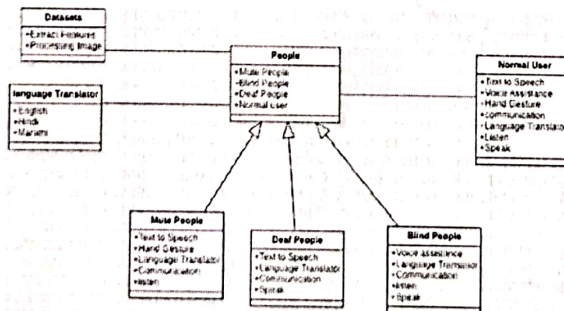
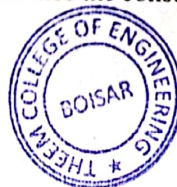


Figure 4: Class Diagram

Class diagram is a static diagram. It represents the static view of an application. Class diagram is not only used for visualizing, describing, and documenting different aspects of a system but also for constructing executable code of the software application. Class diagram describes the attributes and operations of a class and also the constraints imposed on the system.



The class diagrams are widely used in the modelling of object-oriented systems because they are the only UML diagrams, which can be mapped directly with object-oriented languages.

4.2.3 DFD Diagram

A data flow diagram represents the data flow of a process or system and usually an information system and ; through The DFD also provides information about the revenue and profit of each unit and the process itself. A data flow diagram has no control flow - it has no decision rules and no loops. A data flow diagram (DFD) is a graphic or visual representation that uses a standardized set of symbols and notations to describe the operation of a business through the transmission of information.

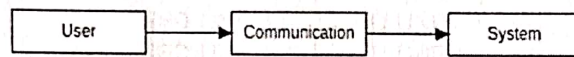


Figure 5: DFD Diagram Level 0

Level 0: The below diagram is the level 0 DFD of our project. It gives the overview of the project. It is also called as context diagram.

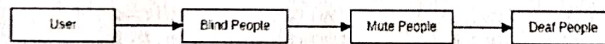


Figure 6: DFD Diagram Level 1

Level 1: The below diagram is the level 1 DFD of our project. Detailed information can be retrieved from level 1 DFD as compared to level 0. In this a single node process is divided into multiple processes.

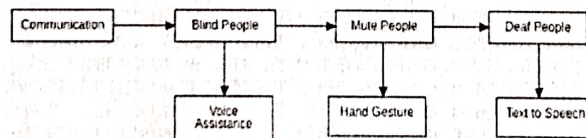


Figure 7: DFD Diagram Level 2

Level 2: The below diagram represents the level 3 DFD of our project. It gives more clear idea of our project. It expands on each process to give detailed information of the process

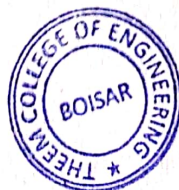


Chapter 5

Result and Discussion

5.1 Result

Using a multi-modal approach, effective communication for blind, mute, and deaf individuals can be achieved by combining various modes of communication to cater to their specific needs. This approach involves utilizing different sensory channels such as touch, visual cues, and written or tactile representations. For blind individuals, communication can be facilitated through the use of audio-based technologies such as text-to-speech software or screen readers can convert written for mute individuals. Sign language utilizes hand gestures, facial expressions, and body movements to convey meaning. For deaf individuals, communication can be facilitated through sign language interpretation or the use of visual aids. Overall, a multi-modal approach to communication for blind, mute, and deaf individuals is a crucial step towards creating an inclusive society where everyone has equal access to information and communication.



5.2 Screenshots of Sign language detection of word Mom

The sign language module utilizes advanced algorithms to recognize hand, face, and body pose, enabling the identification of specific words and sentences. In the provided image, the module accurately captures the sign for "mom." Additionally, in American Sign Language (ASL), placing the thumb on the forehead signifies the intent to convey something associated with "mom." This technology plays a crucial role in promoting inclusive communication for individuals with speech and hearing impairments, fostering a more accessible and equitable society.

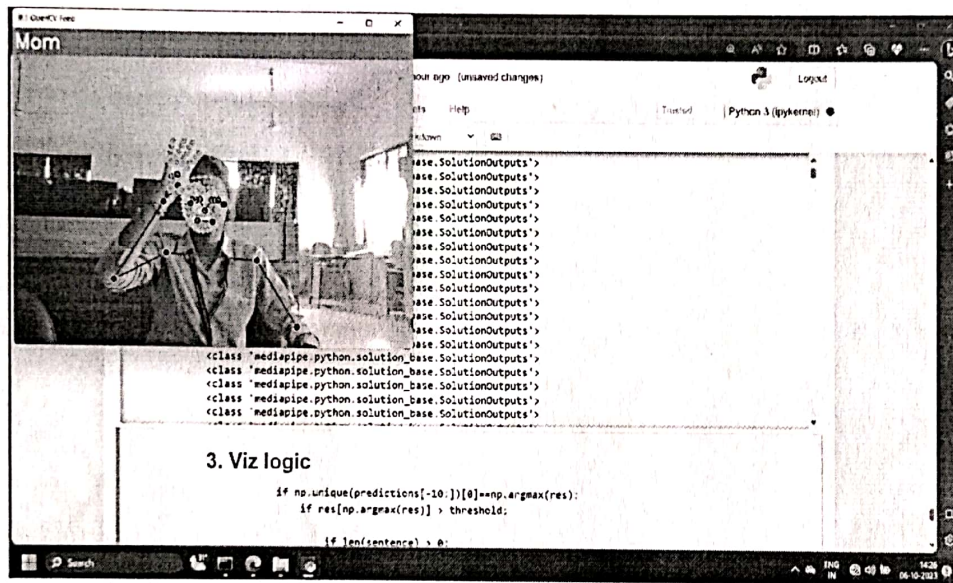
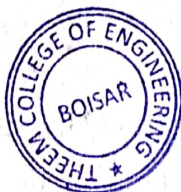


Figure 8: Screenshots of Sign language detection of word Mom



5.3 Screenshots of Sign language detection of word Dad

The sign language module employs advanced computer vision techniques to discern the movements of the hands, face, and body pose, enabling it to identify specific words and sentences. In the provided image, the system accurately detects the sign for "mom." Moreover, in American Sign Language (ASL), placing the thumb on the chin signifies the intention to convey something related to "dad." This technology significantly enhances communication accessibility for individuals with speech and hearing impairments, facilitating smoother interactions and fostering inclusivity in various contexts.

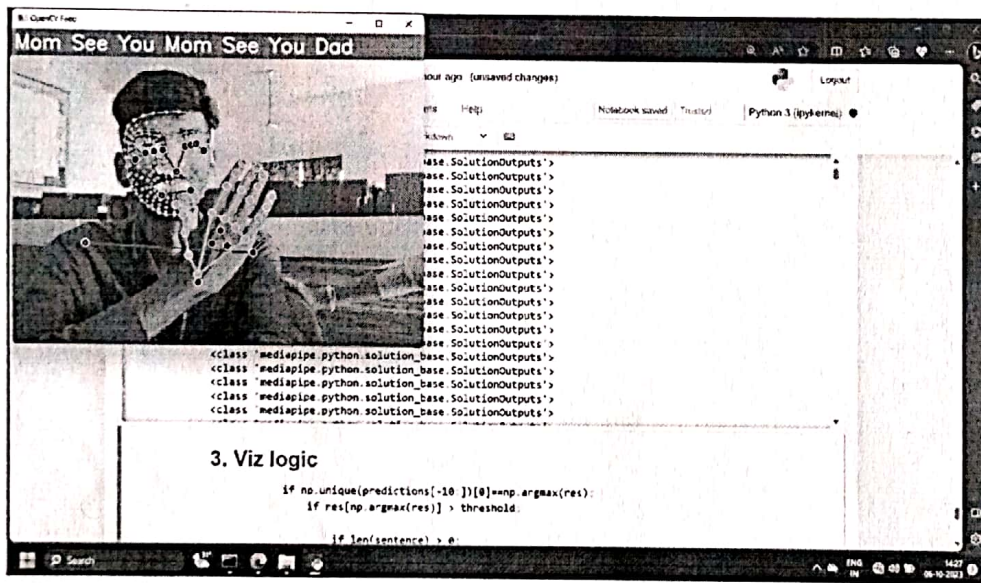


Figure 9: Screenshots of Sign language detection of word Dad



5.4 Screenshots of Sign language detection of word See You

The sign language module utilizes advanced computer vision technology to detect and interpret the movements of hands, face, and body pose to recognize words and sentences. In the provided image, the module successfully identifies the sign for "mom" in American Sign Language (ASL). Additionally, the peace symbol, when demonstrated in ASL, represents the phrase "See You." This innovative technology empowers individuals with speech and hearing impairments to communicate effectively, fostering a more inclusive and accessible environment for all.

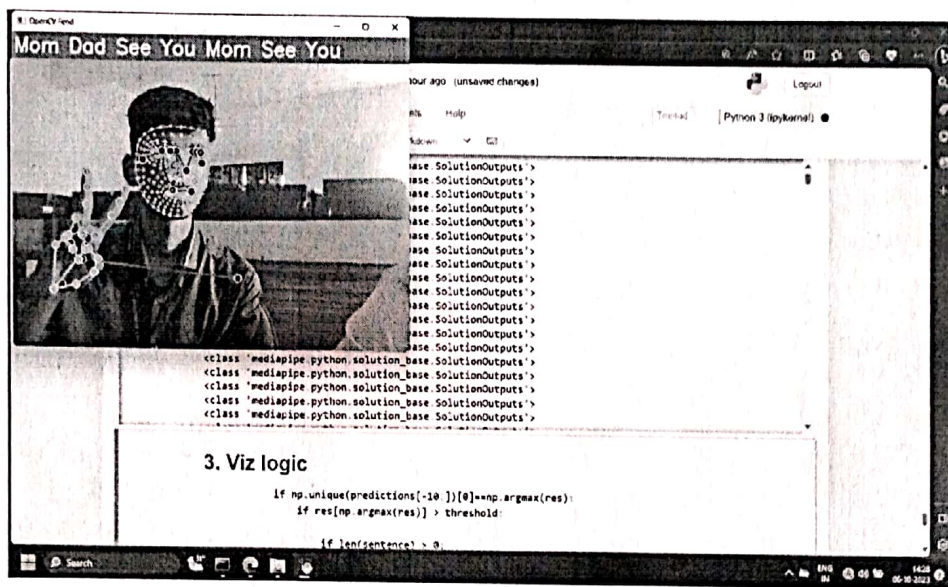


Figure 10: Screenshots of Sign language detection of word See You

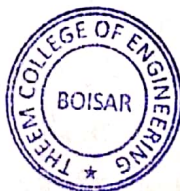


Chapter 6

Conclusion and Future Scope

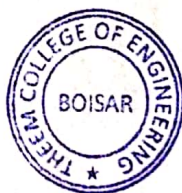
6.1 Conclusion

In conclusion, the development of a sign language detection system capable of recognizing alphabets and words is a significant advancement in accessibility technology. This innovation has the potential to greatly benefit individuals who are blind, mute, or deaf by bridging communication barriers and enhancing their ability to interact with the world. Here's a description of how this technology can be harnessed to serve these three groups of people: Blind Individuals: The sign language detection system can be integrated with a haptic feedback mechanism to enable blind individuals to feel the signs being made. When a person communicates using sign language, the system translates the signs into tactile feedback that the blind individual can perceive through touch, helping them understand and respond to the conversation effectively.



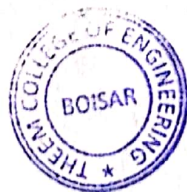
Mute Individuals: For individuals who are mute and cannot speak, the sign language detection system can translate signs into written or spoken language. When someone communicates through sign language, the system converts the signs into text, which can be displayed on a screen or relayed through a speech synthesizer, allowing the mute individual to communicate verbally with others.

Deaf Individuals: Deaf individuals can benefit from the system in multiple ways. When they communicate through sign language, the system can convert their signs into text, providing a written representation of their message. Simultaneously, the system can also generate a speech output to make it easier for hearing individuals to understand and engage in real-time conversations with the deaf person, thus facilitating seamless communication. Overall, the development of this sign language detection system enhances accessibility and inclusivity for individuals with disabilities, creating a more inclusive and connected society by breaking down communication barriers and providing multiple modes of interaction for blind, mute, and deaf individuals.



6.2 Future Scope

The future holds tremendous promise for sign language recognition technology, with advancements anticipated in the accuracy and efficiency of detecting complex sign language alphabets and words. Through integration with artificial intelligence and machine learning, this technology is poised to revolutionize communication for individuals with hearing impairments, fostering greater independence and inclusivity within society. As research and development continue to progress, the potential for seamless real-time translation of sign language into text and speech is on the horizon, facilitating a more accessible and interconnected world for the blind, mute, and deaf communities.



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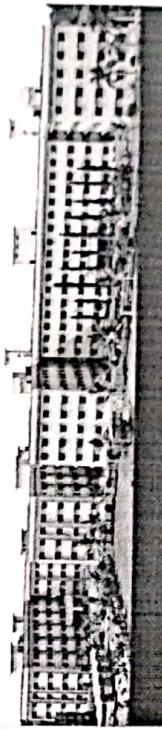
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Theem College of Engineering is approved by AICTE, Government of Maharashtra and DTE, and affiliated to University of Mumbai. The Institute is awarded with B+ grade by NAAC. The Institute is a remote centre of IITB-NMIEICT (MHRD, Govt. of India). The Institute is emerged as the only Premier Engineering College in Boisar with an overall intake of 660 students in the following graduate engineering programmes –

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- Information Technology Engineering
- Mechanical Engineering
- Civil Engineering
- Computer Science Engg. (AI & ML)
- Automobile Engineering
- Electrical Engineering

In addition to this the institute has following diploma engineering programmes –

- Computer Engineering
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The institute's well-maintained infrastructure, rich academic excellence and teaching-learning ecosystem steer students to achieve their engineering skills and career goals. To enhance multi-tasking growth, the institute equally focuses on co-curricular and extra-curricular activities which yielded university rank holders and winners of various technical and sports events.

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Technology is a progressive phenomenon where the academic research can bring the rate of transformation critically fast to cater the society needs. To achieve these needs, Trends in Herald In Engineering Excellence and Metamorphosis-2023 (THEEM-2023) provides the best avenues for the publication of new researches and developments. After success of two national conference we are going ahead with first international conference.

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- Recent trends in EV

Track 4- Civil Engineering

- Advance of Structural Engineering
- Disaster Management and Mitigation
- Environmental Engineering
- Geotechnical Engineering
- Highway and Pavement Engineering
- Innovative Concrete and Smart Material
- Remote Sensing and GIS application

Track 5- Applied Science & Humanities

- Applied Chemistry
- Applied Mathematics
- Applied Physics
- Communication Skills
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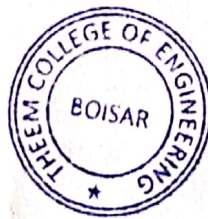
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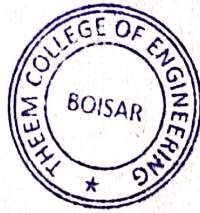
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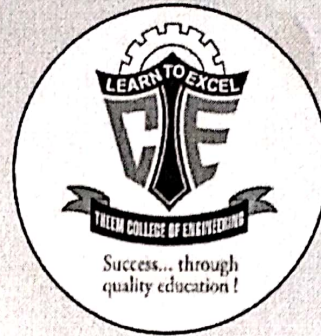
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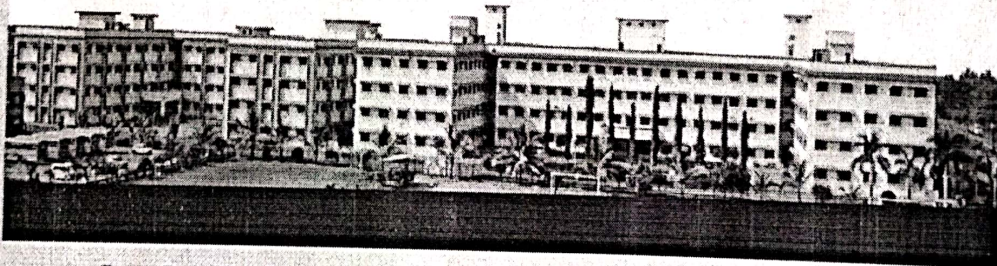
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H. J. Thim Trust established Theem College of Engineering in 2009 at Boisar with an objective of "Success... through Quality Education" for the development of youths who plays a decisive role in shaping the destinies of nation. The institute's serene and tranquil surroundings create a carnival atmosphere to develop students' overall growth in technical education as well as humanities.

Theem College of Engineering is approved by AICTE, Government of Maharashtra and DTE, and affiliated to University of Mumbai. The institute is awarded with B+ grade by NAAC. The institute is a remote centre of IITB-NMEICT (MHRD, Govt. of India). The institute is emerged as the only Premier Engineering College in Boisar with an overall intake of 660 students in the following graduate engineering programmes –

- *Computer Engineering*
- *Information Technology Engineering*
- *Mechanical Engineering*
- *Civil Engineering*
- *Computer Science Engg. (AI & ML)*
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- *Electrical Engineering*

The institute's well-maintained infrastructure, rich academic excellence and teaching-learning ecosystem steer students to achieve their engineering skills and career goals. To enhance multi-tasking growth, the institute equally focuses on co-curricular and extra-curricular activities which yielded university rank holders and winners of various technical and sports events.

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Technology is a progressive phenomenon where the academic research can bring the rate of transformation critically fast to cater the society needs. To achieve these needs, Trends n Herald in Engineering Excellence and Metamorphosis-2023 (THEEM-2023) provides the best avenues for the publication of new researches and developments. After success of two national conference we are going ahead with first international conference.

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- Artificial Intelligence, Machine Learning and Deep Learning
- Big Data Analytics, Business Intelligence
- Block Chain Technology
- Cloud Computing
- Computer Networking and Security
- Database and Data Mining
- Digital India
- Distributed and Parallel Systems
- Grid Computing
- Green IT
- Natural Language Processing
- Recent Trends in IT

Track 2-Electrical/Electronics & Telecommunication Engineering

- Biomedical Engineering
- Digital Signal Processing
- Electric Drives and Control
- Image & Video Processing
- IoT Controlled Devices
- Micro Grid and Smart Grid
- Power Quality
- Power System Protection
- Renewable Energy
- Robotics & Automations
- VLSI & Embedded Systems
- Wireless Sensor & Networking

Track 3-Mechanical/Production/Automobile Engineering

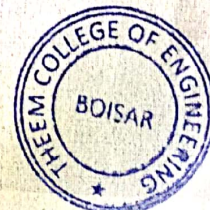
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- Agro-Farm Equipment
- Commercial Vehicle Technology
- Metallurgy and Manufacturing
- Noise, Vibration and Harshness Control
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- Pollution Control
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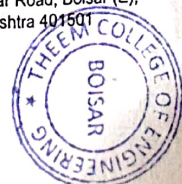
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ELCT02	Integrated DC DC converter based c Yadav vinay kumar mahendr		9767334162	Theem college of Engineering
ELCT03	ELECTRICAL ENERGY AUDIT IN V Suryaprakash Sharma , Arif &		9834174660	Theem college of engineering, Boisar
ELCT04	Speed control of bldc motor using IC Saurabh Ramakant Sankhe		7028475919	Theem College of Engineering, Betegaon- Boisar
ELCT05	Analysis of HEMS (EV, PV, ESS, RT Rushikesh Dhananjay Kini		7715872365	H.J Theem College of Engineering
ELCT06	Simulation based In-built charging H Surya Perumal Gounder		9518994502	H.J Theem College of Engineering
ELCT07	RFID-based Smart Public Transport Shrishha Shetty, Manasvee Dc		7021624106	Shree L.R Tiwari College of Engineering, Mira Road (East), Thane - 401107
ELCT08	E-commerce For Artisans (Locart) Ganesh Mohite, Kunal Nacha		8087713998	Shree Ir tiwari college of engineering, Kanakia rd,kanakia park, mira rd east, Maharashtra 401107
ELCT09	Court case management system Aman VirendraKumar Mishra		7709434833	THEEM COLLEGE OF ENGINEERING, BOISAR
ELCT10	Why we should strive to be an entre AJAY MAURYA		7706047897	Shree L.R tiwari College of Engineering, Kanakia Rd, Kanakia Park, Mira Road East, Mira , Maharashtra 401107
ELCT11	Smart Attendance Capturing System Vishwas A. Pathak , Akash S			H.J Theem College of Engineering
ELCT12	An Improved Method for Face Recognition with Incremental Approach in Illumination Inva			



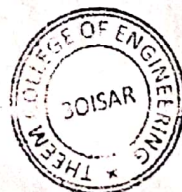
International Conference (THEEM- 2023)

List Of paper Selected as a Best Paper

Paper Id	Track	Title
ME18	MECH/AUTO Track	Envelope Shape And Material For Lta Vehicles
ELCT06	ELECT Track	Simulation based In-built charging Hybrid EV with IC engine & External source
COIT44	CO/IT Track	Block chain based decentralization of the KYC process
COIT19	CO/IT Track	Prevention Of Drowning Incidents In Swimming Pool On Automated Vision Based Surveillance System
COIT09	CO/IT Track	Aahar:homemade food delivery application
CV18	CIVIL Track	Cost analysis for shield building
CV10	CIVIL Track	Minimizing and Reducing waste generated in college campus



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Prof. Wasim Khan

International Conference "Trends and Herald in Engineering Excellence and Metamorphosis" (THEEM-2023)

Program Schedule For 28th and 29th April 2023

Day-1, Session-1

Time Slot	Venue	Key Note Speaker/Session- Chair/Chief Guest	Conference Chair/Track Coordinator	Anchoring	Technical Support Team
10.00am-11.15am	Key Note Speaker(Venue:Auditorium -1(2nd Floor))	1.Prof.(Dr)Mohammed Israr,President Manyam Abacha American Unviersity,Nigeria 2.Dr. K. P. Karunakaran(Professor in IIT Bombay)	Dr.N.K.Rana Dr.Riyazoddin Siddiqui	Prof.Priyanka Prof.Shalusingh,Prof.Snehal Patil	Prof.Himanshi Bari, Miss.Vipra Raut, Miss.Hemlata and Mr.Nisar

Day-1, Session-2

11.30am-1.00pm	Session-2 Chair(MEA)(Venue:New conference room (new building))	Dr.Pirsab Attar(Assistant Professor,Dept. of Production Engineering,VJTI Matunga mumbai)	Dr.Sayyed Layak and Prof Irshad Shaikh	Prof.Numan Badar And Prof Shubham Dhodi	Mr.Ketan Patil andMr.Harshal sankhe
11.30am-1.00pm	Session-2 Chair(MEA)(Venue:Auditorium -2(3rd Floor))	Dr.Ibrahim Shaikh(MHSS College of Engineering, mumbai)	Dr.Sayyed Layak and Prof Irshad Shaikh	Prof.Numan Badar And Prof Shubham Dhodi	Mr.Ketan Patil andMr.Harshal sankhe
11.30am-1.00pm	Session-2 Chair(CIT)(Venue:Auditorium -1(2nd Floor))	Dr. Zainab Mirza,Assistant Professor,Dept.of IT Engineering,M.H. Saboo Siddik College Of Engineering	Prof.Sneha sankhe and Prof.Mubashir khan	Prof.Sonali and Prof.Shahgul	Miss.Hemlata and Mr.Nisar
11.30am-1.00pm	Session-2 Chair(CVE)(Venue: Seminar hall (1st Floor))	Dr.Mahboobsab.B.Nadaf(Associate Professor Department of Civil Engineering,TCET,Mumbai)	Prof.N.G.Heramth and Prof Ehtasham	Prof. Harshad Randive,Krupa pimple	Mr.Abhinav pandey,Mr.Shaikh Iftikhar

Day-1, Session-3

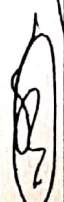
2.00pm-3.30pm	Session-3 Chair(ELECT)(Venue:Auditorium -2(3rd Floor))	Dr.Pandharinath Ghonge,Associate Professor,Dept.of EXTC, St.Jhon COE&Mngt. Palghar -401404	Prof.K.N.Attarde and Prof Raees	Prof.Sheeba Naaz and Prof.Payal ghadgil	Mr.Ketan Patil andMr.Harshal sankhe
2.00pm-3.30pm	Session-3 Chair(CIT)(Venue:Auditorium -1(2nd Floor))	Dr. Zainab Mirza,Assistant Professor,Dept.of IT Engineering,M.H. Saboo Siddik College Of Engineering	Prof.Sneha sankhe and Prof.Mubashir khan	Prof.Sonali and Prof.Shahgul	Miss.Hemlata and Mr.Nisar



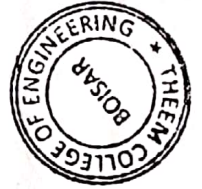
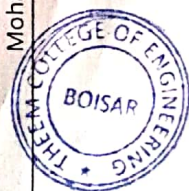
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2.00pm-3.30pm	Session-3 Chair(CVE)\Venue: (Seminar hall (1st floor))	Prof.Mrunalini Deshmukh(Assitant Professor Department of Civil Engineering,SLRT,Mumbai)	Prof.N.G.Heramth and Prof Ehtasham	Prof. Harshad Randive	Mr.Abhinav pandey,Mr.Shaikh Iftikhar
Day-1, Session-4					
3.45pm-5.15pm	Session-4 Chair(CIT)\Venue:Auditorium -1(2nd Floor))	Dr. Zainab Mirza Assistant Professor,Dept.of IT Engineering,M.H. Saboo Siddik College Of Engineering	Prof.Sneha sankhe and Prof.Mubashir khan	Prof.Sonali and Prof.Shahgul	Miss.Hemlata and Mr.Nisar
Day-2, Session-1					
10.00am-11.15am	Session-1 Chair(CIT)\Venue:Auditorium -1(2nd Floor))	Dr.Yogita Mane,Assistant professor and HOD,Dept.of Information Technology Engineering,Universal COE, Vasai East Palghar 401 208	Prof.Sneha sankhe and Prof.Mubashir khan	Prof.Sonali and Prof.Shahgul	Miss.Hemlata and Mr.Nisar
Day-2, Session-2					
11.30am-1.00pm	Session-2 Chair(CIT)\Venue:Auditorium -1(2nd Floor))	Dr.Yogita Mane,Assistant professor and HOD,Dept.of Information Technology Engineering,Universal COE, Vasai East Palghar 401 208	Prof.Sneha sankhe and Prof.Mubashir khan	Prof.Sonali and Prof.Shahgul	Miss.Hemlata and Mr.Nisar
Day-2, Session-3					
2.00pm-3.30pm	Valedictory	Dr.Manzoor Husain(Registrar in JNTUH,Hydrabad)andDr.Pirsab Attar(Assistant Professor,Dept. of Production Engineering,VJTI Matunga mumbai)	Dr.N.K.Rana/Dr.Riyazoddin Siddiqui	Prof.Priyanka Prof.Shalusingh,Prof.Snehal Patil	Prof.Himanshi Bari, Miss.Vipra Raut, Miss.Hemlata and Mr.Nisar


Convener
 Prof. Mohammed Wasim Khan/Prof.Faiz Mohammed Khan


Conference Chair
 Dr.N.K.Rana /Dr. Riyazoddin Siddiqui

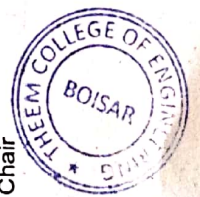


Organizing Committee(THEEM-2023)

Technical Committee	Steering Committee
Mohammed Wasim Khan	Dr.Emily Ghos
Faiz Mohammed Khan	Sonali Kartik
Shaikh Sharique	Sahgul Afroz
Shaikh Waseem	Krupa Pimple
Dr.Minhaj Hashim	Numan Badar
Anwasr Anshari	Snehal Pawde
Arshad Mohammed	Payal Gadgil
Finance Committee	Hospitality Committee
Raees Ahmad	Zulfiqar Ahmed
Iqbal Mansuri	Ayaz Baghwan
	Rosy Bhoir
	Abid Manyar
Publicity and Registration Committee	Transportation & Accom. Committee
Dr.Sayyad Layak /Irshad shaikh	Niraj Singh
N.G.Hiremath / Ehtesham ahmad	Moin Ansari
Sneha sankher/Mubassir Khan	Dr.Sayyad Layak
K.N.Attarde/Raees ahmad	Rasik Khan
Dr.Emily Ghos/Dr.Ashraf Shah	Abdul Bari
Saleem Chaudhry	Nitin Galwade
Publication Committee	ISSN and ISBN
Dr.Ashraf Shah	Dr.Ashraf Shah
Dr.Minhaj Hashim	
Anwasr Anshari	
Arshad Mohammed	

Dr. Riyazuddin S.
Conference Chair

Dr.N.K.Rana
Conference Chair



Day-1, Session-1 (Venue: Auditorium -1(2nd Floor))

Inauguration Ceremony

Chief Guest Prof.(Dr)Mohammed Israr,President Maryam
Abacha American University,Nigeria
and Keynote Dr. K. P. Karunakaran(Professor in IIT
Bombay)

10:00 am 11:15 am

Tea Break

Day-1, Session-2

Chair(COIT)(Venue: Auditorium -1(2nd Floor))

11:30 am - 1:00 pm

Session Chair: Dr. Zainab Mirza

Sr.No	Paper ID	Author	Title of the Paper
1	COIT01	Apurva M.	PetCare: PetAnimals Care Management and Health Website
2	COIT02	zaid shah	Code Solution - A simple solution for designing web pages & API for data based on the MERN Stack
3	COIT03	Pratik K.	An Open Source, Adaptable 'Ticket' Handling framework focused on B2B applications
4	COIT04	Pratik Khuthia	Data Privacy in the AI Age: The Critical Need for Right-to-be-Forgotten Techniques & Implementations in Artificial Intelligence
5	COIT05	Nandani S.	Malicious web content detection using machine learning
6	COIT06	Azman A.	Smart Attendance System Using OpenCV Face Recognition
7	COIT07	Er Farhana .	Smart Face Recognition Door Bell
8	COIT08	Adil Rashid	An IOT based bill Distribution System
9	COIT09	Nirajkumar R.	Aahar:home made food delivery application
10	COIT10	Atharva S.	Pothole Management

1:00 pm - 2:00 pm

Lunch Break

Day-1, Session-3

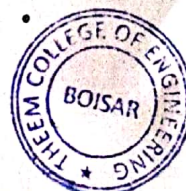
Chair(COIT)(Venue: Auditorium -1(2nd Floor))

2:00 pm - 3.30 pm

Session Chair: Dr. Zainab Mirza

Sr.No	Paper ID	Author	Title of the Paper
1	COIT11	Saurabh R.	News Aggregator and Fake News Detection Website
2	COIT12	Naved Patel.	Software Based Voice Assistant For Blind Using ML
3	COIT13	Er. Farhana S.	KisaanBuddy - A Platform to Assist Farmers
4	COIT14	Mrunal.	Automatic System for Solar Grass Cutting Using IOT
5	COIT15	Hardik A.	Image Captioning Generation using LSTM Based on RNN Model
6	COIT16	Rahul R.	Securing & Sharing The Document Using Blockchain And IpfS Technologies
7	COIT17	Bhavik S.	Image Forgery Identification Using Deep Learning
8	COIT18	Pankaj S.	NAS and Media Server using Raspberry Pi

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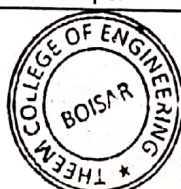
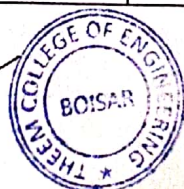


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9	COIT19	Avinash S.	Prevention Of Drowning Incidents In Swimming Pool On Automated Vision Based Surveillance System
10	COIT20	Kanad s.	Securing And Sharing The Document Using Blockchain
			Day-1, Session-4
			Chair(COIT)(Venue:Auditorium -1(2nd Floor))
3:45 pm - 5.30 pm			Session Chair:Dr. Zainab Mirza
<u>Sr.No</u>	<u>Paper ID</u>	<u>Author</u>	<u>Title of the Paper</u>
1	COIT21	Mahendra S.	Vehicle Accident Detection and Prevention using IOT
2	COIT22	Shubham M.	Smart Luggage Carrier With Real Time Tracking System Using Raspberry Pi
3	COIT23	Harsh S.	A Systematic Augmented Reality based ATM model to Enhance Security and Safety
4	COIT24	Shahrukh Q.	A Deep learning approach for reconstruction of images using Auto-encoder
5	COIT25	Siddhant B.	Fruit Disease Detection using K-means Clustering Algorithm
6	COIT26	Sachin gupta	Real -Time Tracking And Alert System For Stolen Laptops
7	COIT27	Abhishek pujari	A Blockchain-based Product Ownership Management System for anti-counterfeits in the Post Supply Chain.
8	COIT28	Swati Singh	Effective approach towards hybrid intrusion detection for cyber attacks
9	COIT29	Nishant M.	Real-Time Speech Emotion Recognition using Deep-Learning
10	COIT30	Yash S.	Steel Defect Detection using Data Science Techniques
			Day-2, Session-1
			Chair(COIT)(Venue:Auditorium -1(2nd Floor))
10:00am - 11.15 am			Session Chair:Dr.Yogita Mane
<u>Sr.No</u>	<u>Paper ID</u>	<u>Author</u>	<u>Title of the Paper</u>
1	COIT31	Amit Patil	Colorization of Black and White Image Using Deep Learning
2	COIT32	Pranali P.	Improving Efficiency of High Utility Pattern Mining Algorithm using Adaboost, Random Forest and SVM
3	COIT33	Sneha joshi	Secure file System using hybrid cryptography
4	COIT34	Amruta D.	Crowdfunding Using Smart Contract In Blockchain
5	COIT35	Sanjay Krushna	Identification of Birds Species using Neural Network and Audio Signal
6	COIT36	Chaudhari Pritik	Traffic Control System Based on Image Processing Using SSD Algorithm
7	COIT37	Yadav Suraj .	Prediction of water quality using ML and IOT
8	COIT38	Apurva W.	Human Action Recognition System
9	COIT39	Anup Khedekar	Tracing of fake news on twitter using blockchain
10	COIT40	Gharat Kshitij .	An Open-source Portfolio Builder using MERN stack
			Day-2, Session-2
			Chair(COIT)(Venue:Auditorium -1(2nd Floor))
11:30am - 1.00 pm			Session Chair:Dr.Yogita Mane
<u>Sr.No</u>	<u>Paper ID</u>	<u>Author</u>	<u>Title of the Paper</u>

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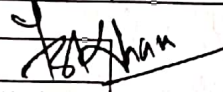



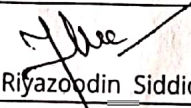
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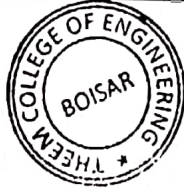
1	COIT41	Khan Mohd	Potato Leaf Disease Detection Using CNN
2	COIT42	Muhibburrahman	Student's Government a webpage system developed using HTML, CSS, JAVASCRIPT and PHP
3	COIT43	Dipam H	Digital Assistance for Elder People
4	COIT44	Atif Khan	Blockchain based decentralization of the KYC process
5	COIT45	Dilip Choudhary	Mood Based MMM Suggestion System
6	COIT46	Raj Dadhaniya	Online Bidding Using Mern
7	COIT47	Tousif Ansari	Food Wastage Management and Donation
8	COIT48	Krupesh D.	Music Streaming App using ReactNative
9	COIT49	Mariya.Z..	Attendance system based on face recognition
10	COIT50	Ramu Fulchand	College Enquiry ChatBot Using NLP and ML
11	COIT51	Ketan Naik.	DeepFake Detection using Deep Learning
1:00 pm - 2:00 pm		Lunch Break	

Day-2, Session-3 (Venue: Auditorium -1(2nd Floor))

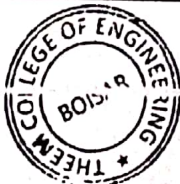
2:00 pm - 3:00 pm	Valedictory Address by Dr.Manzoor Husain(Registrar In JNTUH,Hyderabad)
3:30 pm - 3.50 pm	Closing Ceremony
3:50 pm - 4:00 pm	High Tea

Convener 
Prof. Mohammed Wasim
Khan/Prof.Faiz Mohammed
Khan

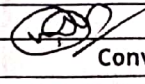
Confrence Chair
 
Dr.N.K.Rana /Dr. Riyazuddin Siddiqui

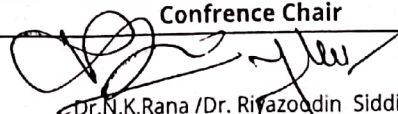


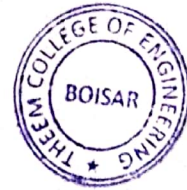
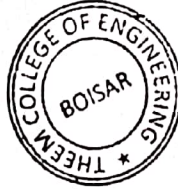
Track:CIVIL ENGINEERING			
Day-1, Session-1 (Venue:Auditorium -1(2nd Floor))			
10:00 am - 11:15 am		Inauguration Ceremony	
		Chief Guest Prof.(Dr)Mohammed Israr,President Maryam Abacha American University,Nigeria and Keynote Dr. K. P. Karunakaran(Professor in IIT Bombay)	
Tea Break			
11:30 am - 1:00 pm		Day-1, Session-2 Chair(CVE)(Venue: (Seminar hall (1st Floor))	
		Session Chair:Dr.Mahboobsab.B.Nadaf	
<u>Sr.No</u>	<u>Paper ID</u>	<u>Author</u>	<u>Title of the Paper</u>
1	CV06	Priti Nanaso	App based construction material procurement system
2	CV07	Mr. Zaheer A.	Experimental Study on Ground Strengthened by using Geo-synthetics materials
3	CV08	Sunasara	Using Geotextile As Reinforcement To Increasing Soil Bearing Capacity Of Soil
4	CV09	Varma D.	Treatment of Sugar Industry Effluent using Microbial Fuel Cells
5	CV10	Omkar B.	Minimizing and Reducing waste generated in college campus
6	CV11	Yash A.	Removal of domestic waste water impurities by using different filter media
7	CV12	Aadarsh R.	Case Study Of Building Cracks And Causes And Its Prevention
8	CV13	Sayed T.	Experimental study on pervious concrete made of CCW and steel slag
9	CV16	Bhushan R.	Generation of Hydropower from Treated Sewage Water by Using Kaplan Turbine
1:00 pm - 2:00 pm		Lunch Break	
2:00 pm - 3.30 pm		Day-1, Session-3 Chair(CVE)(Venue: (Seminar hall (1st Floor))	
		Session Chair:Prof.Mrunalini Deshmukh	
<u>Sr.No</u>	<u>Paper ID</u>	<u>Author</u>	<u>Title of the Paper</u>
1	CV14	Naresh R.	Effect of GGBS on Durability Properties Of Concrete
2	CV01	Manthan P.	A Review of Affordable Mass Housing of G+3 Building using Sustainability Approach
3	CV02	Manali .	Surveying Of Layout And Design Of Elevated Railway Track at Vasai Station.
4	CV03	Vishwaraj A.	Prefabricated wall panels using red soil for low cost housing.
5	CV04	Vrushali G.	Review Of Existing Pothole Repair System For Flexible Pavement
6	CV05	Shubham S.	Study Of Confined And Unconfined Structural Member As Column
7	CV17	Zulfiqar A.	Solid Waste Management
8	CV18	Manav kapdi	Cost analysis for shield building
Day-2, Session-3 (Venue:Auditorium -1(2nd Floor))			
2:00 pm - 3:00 pm		Valedictory	
		Address by Dr.Manzoor Husain(Registrar In JNTUH,Hyderabad)	



3:30 pm - 3.50 pm	Closing Ceremony
3:50 pm - 4:00 pm	High Tea


Convener
Prof. Mohammed Wasim
Khan/Prof. Faiz Mohammed
Khan


Confrence Chair
Dr. N.K. Rana / Dr. Riyazuddin Siddiqui



Track: ELECTRICAL AND EXTC	
Day-1, Session-1 (Venue: Auditorium -1(2nd Floor))	
10:00 am - 11:15 am	Inauguration Ceremony
	Chief Guest Prof.(Dr)Mohammed Israr, President Maryam Abacha American University, Nigeria and Keynote Dr. K. P. Karunakaran (Professor in IIT Bombay)

Tea Break

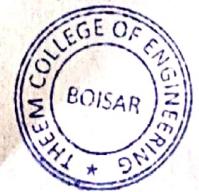
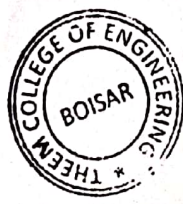
2:00 pm - 3:30 pm	Day-1, Session-3 Chair (ELECT) (Venue: Auditorium -2(3rd Floor))
	Session Chair: Dr. Pandharinath Ghonge

Sr.No	Paper ID	Author	Title of the Paper
1	ELCT01	Sayed Owais K	Three phase Asynchronous motor using Industry 4.0 with load expedient
2	ELCT02	Yadav vinay k	Integrated DC DC converter based grid connected transformer less inverter
3	ELCT03	Suryaprakash S	Electrical Energy Audit In Viraj Profiles Ltd. (Wire Division) Midc Tarapur
4	ELCT04	Saurabh R.	Speed control of bldc motor using IOT
5	ELCT05	Rushikesh D.	Analysis of HEMS (EV, PV, ESS, RT Appliances) using MATLAB
6	ELCT06	Surya P.	Simulation based in-built charging Hybrid EV with IC engine & External source
7	ELCT07	Shrisha S.	RFID-based Smart Public Transportation System
8	ELCT08	Ganesh M.	E-commerce For Artisans (Locart)
9	ELCT09	Aman V.	Court case management system
10	ELCT10	Ajay Maurya	Why we should strive to be an entrepreneurial engineer
11	ELCT11	Vishwas A.	Smart Attendance Capturing System

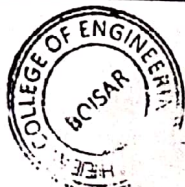
Day-2, Session-3 (Venue: Auditorium -1(2nd Floor))	
2:00 pm - 3:00 pm	Valedictory Address by Dr. Manzoor Husain (Registrar In JNTUH, Hyderabad)
3:30 pm - 3.50 pm	Closing Ceremony
3:50 pm - 4:00 pm	High Tea

Convener
Prof. Mohammed Wasim Khan / Prof. Faiz Mohammed Khan

Confrence Chair
Dr. N.K. Rana / Dr. Riyazuddin Siddiqui



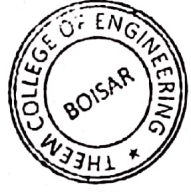
Track:MECHANICAL/AUTOMOBILE			
Day-1, Session-1 (Venue:Auditorium -1(2nd Floor))			
10:00 am - 11:15 am		Inauguration Ceremony	
		Chief Guest Prof.(Dr)Mohammed Israr,President Maryam Abacha American University,Nigeria and Keynote Dr. K. P. Karunakaran(Professor in IIT Bombay)	
Tea Break			
11:30 am - 1:00 pm		Day-1, Session-2 Chair(MEA) (Venue:Auditorium -2(3rd Floor))	
		Session Chair:Dr.Ibrahim Shaikh	
Sr.No	Paper ID	Author	Title of the Paper
1	ME18	Saif Shamshuddin Parkar	Envelope Shape And Material For Lta Vehicles
2	ME01	Lingadurai J N.	Automatic Car Washer
3	ME02	Aniket S.	Literature review on design and analysis of floater
4	ME11	Balaji T	Design of Ramp pump
5	ME04	Sohil bari.	Solar powered water purifier
6	ME05	Akhil G Naik	Automated Seat Belt Integrated Hand Brake System
7	ME06	ShahFaisal M.	Advance Parking System
8	ME10	Jay Velkar	Design And Fabrication Of Automated Lawn Mower
9	ME17	Laukik Nagesh	Automatic Fire Suppression System in Automobiles
10	ME09	Sandeep S.	Design of three wheel electric scooter a personal mobility vehicle
1:00 pm - 2:00 pm		LUNCH Break	
11:30 am - 1:00 pm		Day-1, Session-2 Chair(MEA) (Venue:New conference room (new building))	
		Session Chair:Dr.Pirsab Attar	
Sr.No	Paper ID	Author	Title of the Paper
1	ME07	Sagar A.	Refrigeration Using Lpg Cylinder
2	ME03	Rahul K.	Computation Modeling On Polygon Pin Profile Effect On The FSW Of Dissimilar Material 6061-T6 And Pure Copper
3	ME12	Khan Adeeb	Pollution Elimination Device
4	ME13	Akhil Nadar	Crafting and Execution of an Artificial Limb Empowered by Vocal Commands
5	ME14	Venkatesh	Elliptical Bicycle
6	ME15	Arsalan	Experimental investigation of Radiator System Coolant using Propylene Glycol
7	ME16	Jiten Das	Hydraulic Drainage Cleaner
8	ME08	Abhishek R.	Multiple functions security device for car
9	ME19	Moin ul H.	Flow rate xylem-based filters measurement of flow rate & energy analysis.
1:00 pm - 2:00 pm		Lunch Break	
Day-2, Session-3 (Venue:Auditorium -1(2nd Floor))			




2:00 pm - 3:00 pm	Valedictory Address by Dr.Manzoor Husain(Registrar In JNTUH,Hyderabad)
3:30 pm - 3.50 pm	Closing Ceremony
3:50 pm - 4:00 pm	High Tea

[Signature]
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 Prof. Mohammed Wasim
 Khan/Prof.Faiz Mohammed
 Khan

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Confrence Chair
 Dr.N.K.Rana /Dr. Riyazuddin Siddiqui



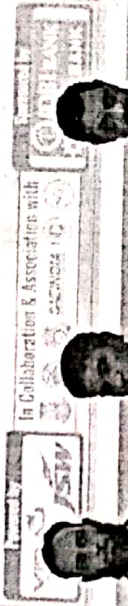


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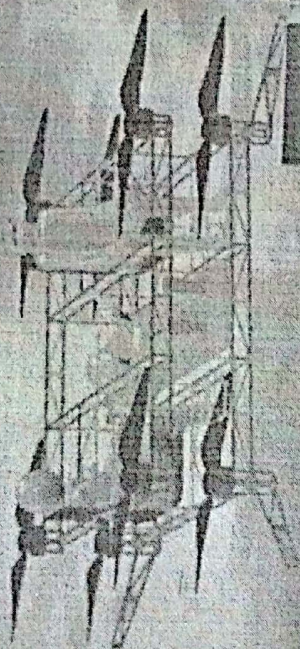
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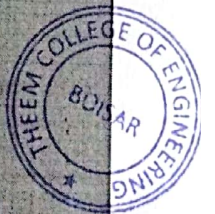


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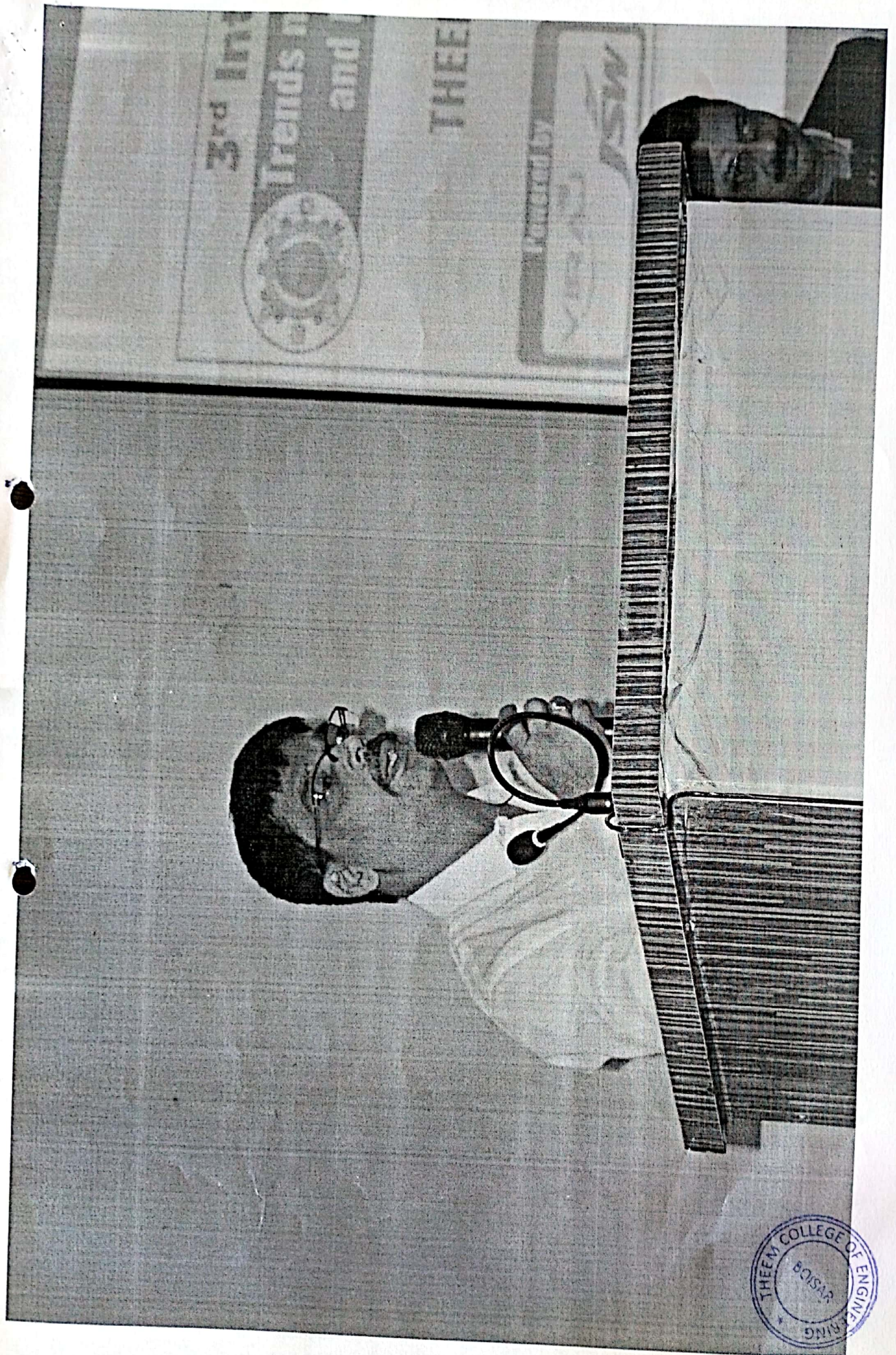
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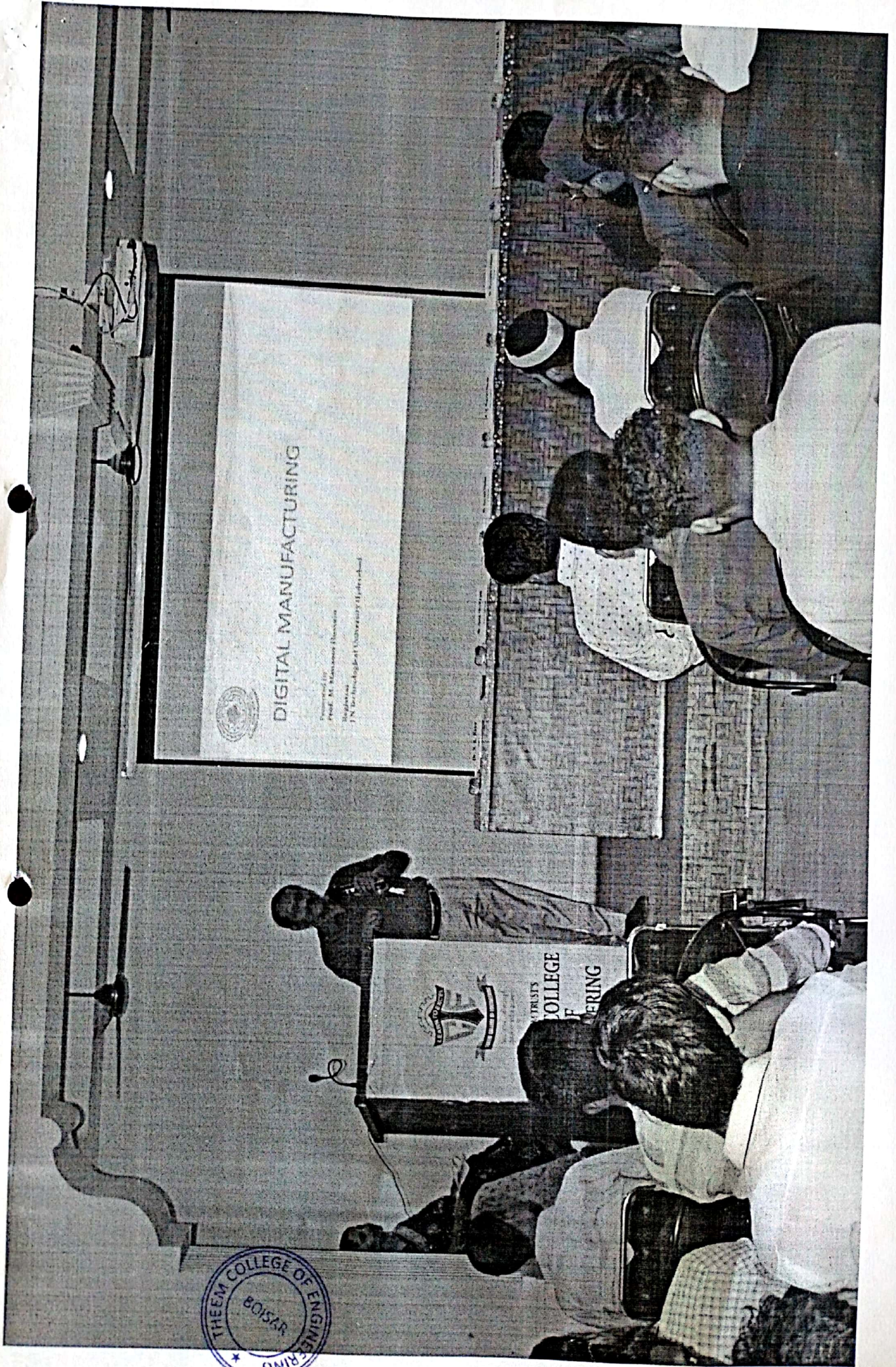



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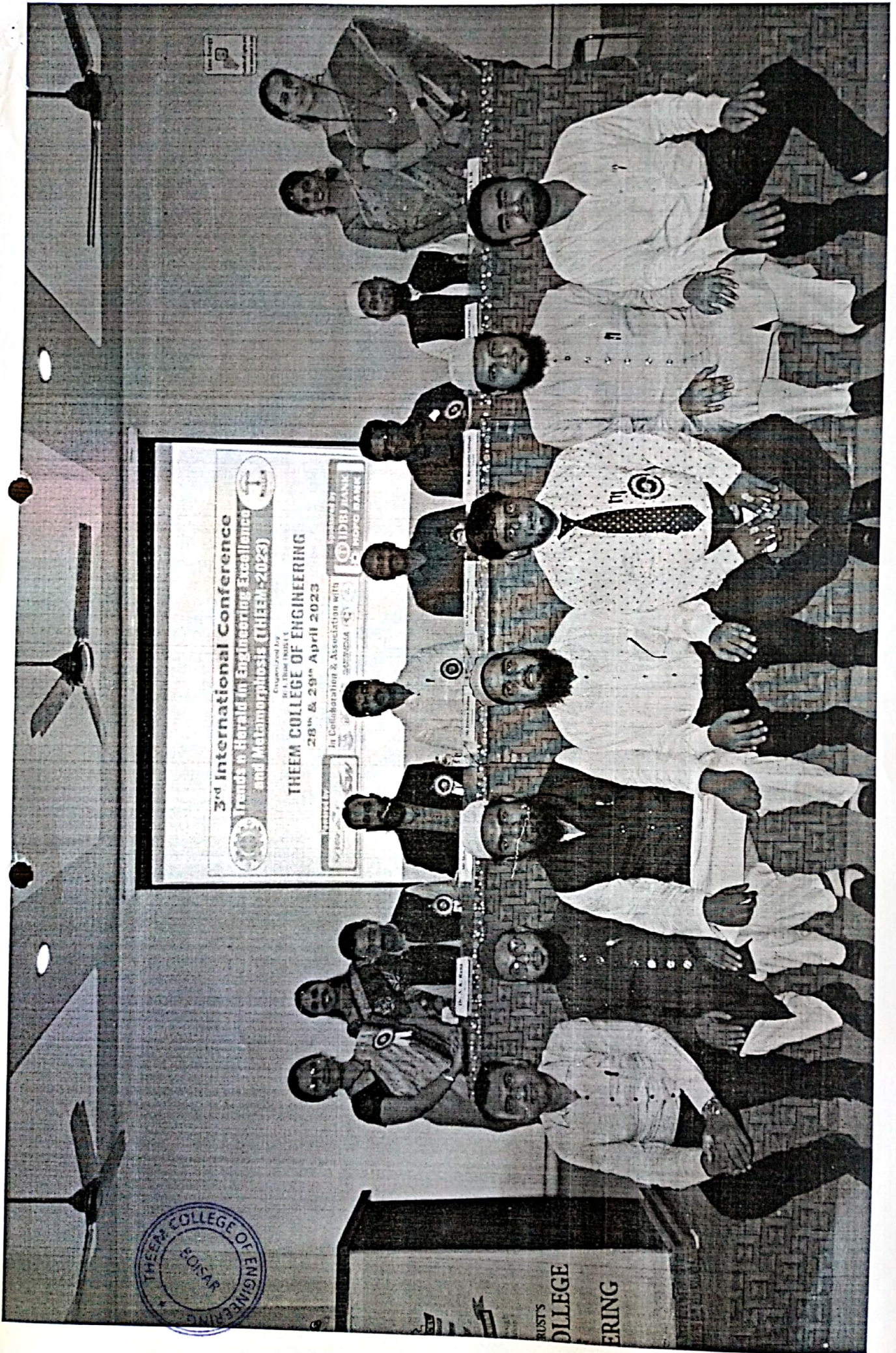

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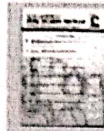
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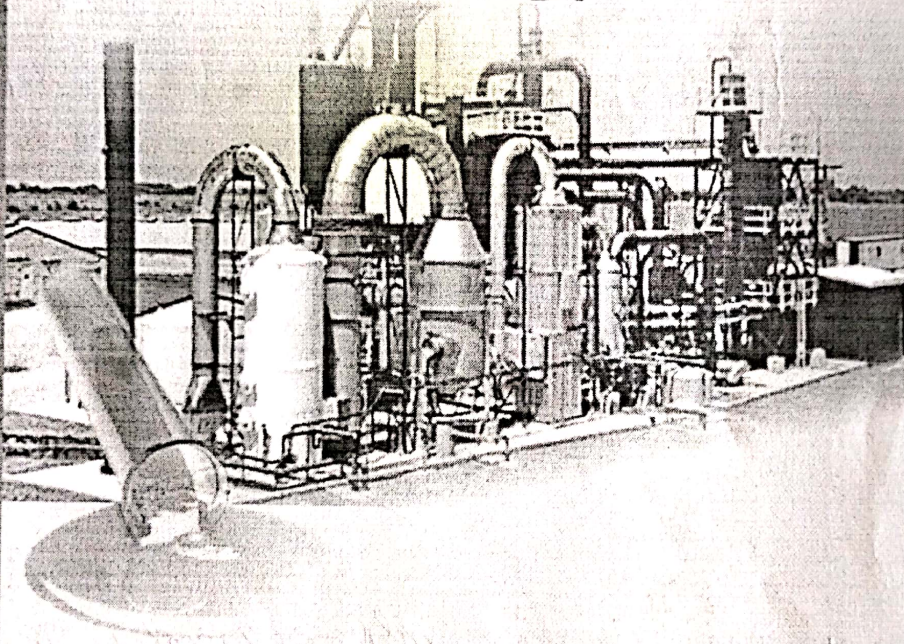


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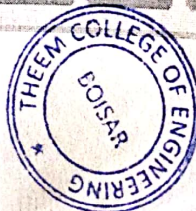
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