

Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur



A

Report

on

One Week

Short Term Training Program (STTP)

on

"Emerging Tools and Techniques in VLSI, MEMS & MOEMS"

(ETTVMM-2022)

25th – 29th January 2022

Organized by:

Department of Electronics & Communication Engineering

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1. Objective and Outcome of the event

Objectives

- To keep the faculty and researchers abreast of the new advancements in VLSI, MEMS and MOEMS technology.
- To provide the insight of VLSI technology as an emerging application in electronics, photonics and sensing domain.
- To provide an exposure to the various VLSI circuits and MEMS device modelling and simulation tools.

Outcomes

The participants of the STTP will be able to understand the advancements and future trends in the field of VLSI technology. This STTP will improve in the knowledge about various aspects of parameter that is used to design a circuit and optimize all the parameter The participant will also able to understand the process for scaling down of technology from micro meter to nanometer and nanometer to picometer. How miniaturization of device is really useful in today life in all aspects.

2. Budget Approval

Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur

Department of Electronics and Communication Engineering

Date: 16 Aug 2021

Note

Following proposals of online Conference/ FDP/ workshops are being submitted for your kind approval.

S.N.	Proposed Tisle:	Event Type	Name of Coordinator(s)	Tentative dates	Duration	Budget
	International conference on Advancements in Nano and Communication Technologies	International Conference	Prof. Mukesh Arota' Dr. PK Jain	24-26 February 2022	3 days	25009
2	Signal processing using Python & MATLAB	Workshop	Dr. Monika Mathur , Ms. Kiran Rathi, Mr. Harshal Nigam , Dr. Shubbi Jain,	17-21 January 2022	1 week	30000
3	Emerging Tools and Techniques in VLSI, MEMS and MOEMS	Workshop	Ms. Manju Choudhary, Nantrata Saxena, Dr. Rukhsar Zafar, Dr. Swati Arora	22-27 November, 2021	I week	30000
	Student Workhop on IoT with Machine Learning & Artificial Intelligence	Workshop	Dr. Praveen Kumar Jain, Dr. Rakhsar Zafar, Mr. Ankit Agarwal, Ms. Peoja Choudhary	7-17 February 2022	2 week	56000
5	Application of VLSI in artificial intelligence	FOP	Mr. Vikas Pathak, Neera Jain, Rahul Pandey, Abhinondan Jain	13-18 December, 2021	1 week	30000
6	NBA Accreditation and Teaching - Learning Process in Engineering	FDP	Suman Sharma, Rajni Idiwal, Kiran Rathi, Mamta Jain	15-19 November, 2021	I week	30000
2	Guest Lecture Series	-	•	Monthly		+

Principal, SKIT

1.06

Mulcesy. Prof. Mukesh Arona /6.8.24 HoD, ECE

3. Event Brochure

Swami Keshvanand Institute of Technology, Management

& Gramothan, Jaipur

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

organizing

One Week

Short-Term Training Program

on

EMERGING TOOLS AND TECHNIQUES IN VLSI, MEMS & MOEMS

(ETTVMM-2022)

25-29 JANUARY, 2022

CHIEF PATRON

Sh. Raja Ram Meel, SKIT

PATRON

Sh. Surja Ram Meel, Chairman, SKIT

ADVISORY

Shri Jaipal Meel, Director, SKIT Prof. S. 1 urana, Director (Academ col. SKIT Mrs. Bachna Meel, Registrar, SKIT Prof. Bamsah Kumar Pachar, Principal, SETT Mrs. Abba Meel, Adviser, SKIT Prof. R. K. Jain, Dean, SKIT Prof. Sangenta Vyas, HOD, OSA, SEIT Prof. Anil Choudhary, HOD (IT), SEIT Prof. Mukesh Gupta, HOD (CSE), SKIT Prof. Dheeraj Joshi, HOD (ME), SKIT Prof. D. K. Sharma, Bead (CE), SKIT Dr. Dhanraj Chitara, Head (EE), SEIT Dr. Ona Ladiwal, HOD (DMS), SKIT Prof. Rohit Mukherjee, Incharge, B.Tech. I Year SKIT Prof. S. K. Bhatnagar, ECE, SKIT Prof. Satyan Vijayvargiya, ECE, SEIT

CONVENER

Prof. Mukesh Arora, Head OFA & ECE, SKIT Prof. Praveen, K. Jain, ECE, SKIT

Coordinator

Ms. Manju Choudhary, ECE, SKIT Ms. Namruta Saxena, ECE, SKIT Dr. Swati Arora, ECE, SKIT Dr. Rukhsar Zafar, ECE, SKIT Ms. Pooja Choudhary, ECE, SKIT

Further queries please contact : Ms. Namrata Saxena (Coordinator) Mobile: 9352396362, 7034376506 Email: sttpece@skit.ac.in This STTP is intended to enhance the knowledge of students and researchers in the field of VLSI, MEMS, and MOEMS technologies. It is well known that the technologies are continuing to push the boundaries of conventional fabrication techniques for sensors in various applications. The workshop also imparts practical knowledge that will provide a suitable exposure to the participants on the latest advancements in VLSI, MEMS, and MOEMS with specific reference to different fabrication techniques, sensors for various applications relevant to the current state of the art technology, energy harvesting.

CONTENTS OF THE STTP

Basics of Micro Electro Mechanical System (MEMS) Advancement in current VLSI technology Energy Harvesting Opto-electronic devices Nano-Photonic Devices Introduction to Semiconductor Device Fabrication Techniques MEMS-based sensors Carbon Nanotubes Flexible Electronics RESOURCE PERSONS

The various sessions of this STTP will be taken by the eminent faculty from IITs, NITs, IIITs and research institutions.

REGISTRATION

Registration is open to students, faculty, industry persons, Scientists, Technologists, doctoral and postgraduate students, researchers, and industry personnel across India to augment them with state-of-the-art skills and knowledge in the area of VLSI, MEMS, and MOEMS.

- Participants will be admitted on a first-come-first-served basis. There is no registration fee.
- The registration is to be done by filling the Google form at link: http://tly/vV4ih
- After the confirmation of registration, participants need to join the Whatsapp group with this link:

https://chat.whatsapp.com/PtsPEsvRHpYC2Va98TDoVU

- Participants are required to maintain 80% attendance to get the certificate.
- E-certificate will be given to all participants after successful submission of feedback and quiz.



4. Schedule of the Event



Swami Keshvanand Institute of Technology, Management & Gramothan, Ramnagaria, Jagatpura, Jaipur-302017, INDIA Approved by AICTE, Ministry of HRD, Government of India Recognized by UGC under Section 2(f) of the UGC Act, 1956 Tel.: +91-0141-5160400Fax: +91-0141-2759555 E-mail: info@skit.ac.in Web: www.skit.ac.in

	(25 th to 29 th January 2				
Tuesday, January 25, 2022	Inaugural Session: 10:00 - 10:30 Chief Guest: Mr. Shanmugaraj V Scientist F CMTI Link: https://skitjaipur.webex.com/skitjaipur/onstage/g.php	Expert Session: Mr. Shanmugaraj V Scientist F CMTI Title: Smart Sensors and ?MTID=ebd6ff07e542545			
Date	Morning Session: 10 - 11:30 AM	Evening Session:	12:30 - 2:00 PM		
Wednesday, January 26, 2022	Prof. Ajay Agarwal, IIT Jodhpur Title: Micro Nanotechnologies Enables Sensors for Healthcare				
	https://skitjaipur.webex.com/skitjaipur/onstage/g.php	?MTID=e3790ade62d082c	:3ecb3fda894daadeb2		
Thursday, January 27, 2022	Dr. Akshdeep Sharma, Scientist, C-MET, Hyderabad Title: MEMS/NEMS smart sensors development trends and future prospective Link:	Dr. Vijay Nath, BIT Me Title: Chip Design for A	Aerospace Application:		
	?MTID=e54ce0cc946eac7	Contractor of the second second			
Friday, January 28,	Dr. C. Periasamy, MNIT Jaipur Title: Design and Development of Electronic Devices for MEMS and Bio-sensing Applications	Dr. Gaurav Kumar Bha University Title: Modeling and Sim Crystal Based Sensor			
2022	Link: https://skitjaipur.webex.com/skitjaipur/onstage/g.php	And in the second second	8a1606e7f1c54734f0c		
Saturday, January 29,	Dr. Chitrakant Sahu, MNIT Jaipur Title: Junction and Doping Free Transistors for Future Computing	Valedictory Session			
2022	Link: https://skitjaipur.webex.com/skitjaipur/onstage/g.php?MTID=ea7031d32804b28a1606e7f1c54734f0c				
김 사람이 아파 승규는 것이	ATORS houdhary, ECE, SKIT Saxena, ECE, SKIT	Further Queries I Ms. Namrata Saxe	na (Coordinator)		
Dr. Swati Ar	ora, ECE, SKIT Zafar, ECE, SKIT	Mobile: 93523963 Email: sttpece@sk			

S. No	Guest/Speakers	Name and Affiliation
1.	Chief guest of Inauguration	Mr. Shanmugaraj V Centre for Sensors, Vision Technology and Controls (C-SVTC)
2.	Invited Speaker 1	Dr. Ajay Agrawal Professor Indian Institute of Technology, Jodhpur
3.	Invited Speaker 2	Dr. Akshdeep Sharma Scientist Centre for Materials for Electronics Technology(C- MET)
4.	Convener of workshop/ Invited Speaker 3	Dr. Vijay Nath Associate Professor, Electronics and Communication Engg BIT Mesra, Ranchi
5.	Invited Speaker 4	Dr. C. Periasamy Assistant Professor MNIT, Jaipur
6.	Invited Speaker 5	Dr. Gaurav Bharti Assistant Professor Electrical Engineering Department Chandigarh University
7.	Invited Speaker 6	Dr. Chitrakant Sahu Assistant Professor , MNIT, Jaipur

5. List of Invited Guests and Speakers

7. Consent of the Speakers



STTP-ECE <sttpece@skit.ac.in>

Seeking your consent to be the chief guest of inaugural ceremony of online STTP (SKIT Jaipur) on 25 Jan 2022

4 messages

STTP-ECE <sttpece@skit.ac.in> To: shanmugaraj@cmti.res.in Wed, Jan 19, 2022 at 8:56 AM

Dr. V Shanmugaraj

Central Manufacturing Technology Institute

Respected Sir

Greetings from SKIT!!!

We are pleased to inform you that Swami Keshvanand Institute of Technology, Management & Gramothan (SKIT,M&G), Jaipur is organizing an online Short Term Training Program (STTP) on EMERGING TOOLS AND TECHNIQUES IN VLSI, MEMS & MOEMS (ETTVMM-2022) during January 25-29, 2022.

Today the institute is recognized as one of the centers of academic excellence in Northern India. The institute is affiliated to Rajasthan Technical University, Kota for offering Postgraduate and Graduate Courses in Engineering and Management and ranked no. 1 Engineering institute by Rajasthan Technical University for 5th year in a row. SKIT M&G inspired from the learnings of Swami Keshvanand, was established in the year 2000 by Technocrats and Managers Society for Advanced Learning.

This STTP on EMERGING TOOLS AND TECHNIQUES IN VLSI, MEMS & MOEMS is being organized to increase the awareness and enhance the knowledge of faculty members and research scholars in the related field.

I feel honored to invite you to be the CHIEF GUEST at the inaugural ceremony of this online STTP program (WEBEX Platform) on 25th Jan, 2022 at 10:00 AM. I also invite you for the keynote session on 25th Jan 2022 at 10:30 am

Organizing Team- (ETTVMM-2022)

Shanmugaraj V <shanmugaraj@cmti.res.in> To: sttpece@skit.ac.in Wed, Jan 19, 2022 at 9:42 AM

Dear Sir,

I accept the invitation Sir. Thank you for the opportunity given.

The topic for the Key note address could be 1. Smart Sensors & Controls

or

2. Micro Sensors (MEMS) & IOT

Kindly revert back if you have any queries

सादर/Regards,

शन्म्गराज वी./Shanmugaraj V.

वैज्ञानिक - एफ / केंद्र प्रमुख - संवेदक, इष्टी प्रौद्योगिकी और नियंत्रण केंद्र Scientist - F / Centre Head - Centre for Sensors, Vision Technology and Controls केन्द्रीय विनिर्माणकारी प्रौद्योगिकी संस्थान (सीएमटीआई) Central Manufacturing Technology Institute (CMTI) आरी उद्योग एवं लोक उद्यम मंत्रालय के अधीन स्वायत्त अनुसंधान एवं विकास संस्थान An autonomous R&D Institute under the Ministry of Heavy Industries & Public Enterprises तुमकुर रोड, बेंगलूरु ४६००२२, कर्नाटक, आरत Tumkur Road, Bengaluru - 560022, Karnataka, INDIA वेबसाइट/Website: https://www.cmti-india.net/ कार्यालय फोन/Office Phone- 080-22188349

मोबाईल नं./Mob. - (+91) 9449842688

From: sttpece@skit.ac.in

To: "Shanmugaraj V" <shanmugaraj@cmti.res.in>

Sent: Wednesday, January 19, 2022 8:56:25 AM

Subject: Seeking your consent to be the chief guest of inaugural ceremony of online STTP (SKIT Jaipur) on 25 Jan 2022 [Quoted text hidden]





STTP- ECE <sttpece@skit.ac.in>

Invitation for expert lecture in ETTVMM 2022 (SKIT Jaipur) 3 messages

STTP- ECE <sttpece@skit.ac.in> To: akshdeep.sharma@cmet.gov.in Thu, Jan 20, 2022 at 10:09 AM

Dr. Akshdeep Sharma Scientist

C-MET, Hyderabad

Dear Sir,

We are pleased to inform you that Department of Electronics and Communication Engineering, Swami Keshvanand Institute of Technology, Management and Gramothan, Jaipur is organizing an online one week Short Term Training Program (STTP) on "Emerging Tools and Techniques in VLSI, MEMS & MOEMS (ETTVMM-2022)" from 25th to 29th January 2022. Today the institute is recognized as one of the centers of academic excellence in Northern India. The institute is affiliated to Rajasthan Technical University, Kota for offering Postgraduate and Graduate Courses in Engineering and Management and ranked no. 1 Engineering institute by Rajasthan Technical University for the 5th year in a row. SKIT, M&G inspired from the learnings of Swami Keshvanand, was established in the year 2000 by Technocrats and Managers Society for Advanced Learning.

In this context, we want to extend invitation to you for an expert lecture in online mode. We humbly request you to accept the proposal. Your lecture will be scheduled on 27-01-2022, Thursday 10:00 am -11:30 am.

Please spare some time from your busy schedule to enlighten us with your knowledge.

If you accept the invitation please send (1) your brief bio (2) your photograph

Thanks and regards, Organizing Team-ETTVMM-2022

Partial Invitation Letter Akshdeep Sir.pdf

Akshdeep Sharma <akshdeep.sharma@cmet.gov.in> To: sttpece@skit.ac.in Fri, Jan 21, 2022 at 10:02 AM

Dear Organisor,

Thanks for considering my candidature for delivering lecture in STTP on ETTVMM 2022. The topic of my talk will be " MEMS/NEMS smart sensors development trends and future prospective". Please confirm the time allotted for talk.

Regards Akshdeep Sharma



STTP-ECE <sttpece@skit.ac.in>

Invitation for expert lecture in ETTVMM 2022 (SKIT Jaipur)

4 messages

STTP-ECE <sttpece@skit.ac.in> To: vijaynath@bitmesra.ac.in Thu, Jan 20, 2022 at 8:43 AM

Dr. Vijay Nath

Department of Electronics & Communication Engineering, BIT Mesra, Ranchi

Dear Sir,

We are pleased to inform you that Department of Electronics and Communication Engineering, Swami Keshvanand Institute of Technology, Management and Gramothan, Jaipur is organizing an online one week Short Term Training Program (STTP) on "Emerging Tools and Techniques in VLSI, MEMS & MOEMS (ETTVMM-2022)" from 25th to 29th January 2022.

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In this context, we want to extend invitation to you for an expert lecture in online mode. We humbly request you to accept the proposal. Your lecture will be scheduled on 27-01-2022, Wednesday 12:30 pm -02:00 pm.

Please spare some time from your busy schedule to enlighten us with your knowledge.

If you accept the invitation please send

(1) your brief bio

(2) your photograph

Thanks and regards, Organizing Team-ETTVMM-2022

Invitation Letter Vijay Nath sir.pdf 76K

Vijay Nath <vijaynath@bitmesra.ac.in> To: STTP- ECE <sttpece@skit.ac.in> Thu, Jan 20, 2022 at 9:41 AM

Dear Sir, Thanks for your invitation. I accept the same. I will provide details soon. Thanks & Regards [Guoted test hidden]



STTP-ECE <sttpece@skit.ac.in>

Invitation for expert lecture in ETTVMM 2022 (SKIT Jaipur)

4 messages

STTP- ECE <sttpece@skit.ac.in> To: cpsamy.ece@mnit.ac.in Thu, Jan 20, 2022 at 9:02 AM

Dr. C. Periasamy MNIT, Jaipur

Dear Sir,

We are pleased to inform you that Department of Electronics and Communication Engineering, Swami Keshvanand Institute of Technology, Management and Gramothan, Jaipur is organizing an online one week Short Term Training Program (STTP) on "Emerging Tools and Techniques in

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In this context, we want to extend invitation to you for an expert lecture in online mode. We humbly request you to accept the proposal. Your lecture will be scheduled on 28-01-2022, Friday, 10:00 am -11:30 am.

Please spare some time from your busy schedule to enlighten us with your knowledge.

If you accept the invitation please send

(1) your brief bio

(2) your photograph

Thanks and regards, Organizing Team-ETTVMM-2022

C Periasamy <cpsamy.ece@mnit.ac.in> To: STTP- ECE <sttpece@skit.ac.in> Fri, Jan 21, 2022 at 12:03 PM

Thank you for your mail.

Title : Design and Development of Electronic Devices for MEMS and Bio-sensing Applications.

With kind regards

cp

[Guoted text hidden]

Dr.C.Perlasamy Department of Electronics and Communication Engineering Malaviya National Institute of Technology (MNIT) Jaipur-302017 Phone:01412713232(Office) 07665814268(M)



STTP-ECE <sttpece@skit.ac.in>

Invitation for expert lecture in ETTVMM 2022 (SKIT Jaipur)

2 messages

STTP- ECE <sttpece@skit.ac.in> To: gaurav.e11977@curnail.in Thu, Jan 20, 2022 at 9:13 AM

Dr. Gauray Kumar Bharti Chandigarh University

Dear Sir,

We are pleased to inform you that Department of Electronics and Communication Engineering, Swami Keshvanand Institute of Technology, Management and Gramothan, Jaipur is organizing an online one week Short Term Training Program (STTP) on "Emerging Tools and Techniques in VLSI, MEMS & MOEMS (ETTVMM-2022)" from 25th to 29th January 2022.

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If you accept the invitation please send (1) your brief bio (2) your photograph

Thanks and regards, Organizing Team-ETTVMM-2022

Gaurav Kumar Bharti <gaurav.e11977@cumail.in> To: STTP-ECE <sttpece@skit.ac.in> Thu, Jan 20, 2022 at 7:10 PM

Dear Sir

Thank you for inviting me. I accept your invitation. Please find the attachment and do the needful. Thanks & Regards,

Dr. Gaurav Kumar Bharti

Assistant Professor (E11977), University Institute of Engineering, Electrical Engineering Department Chandigarh University, Gharuan, Mohali, Punjab, 140413, India IPDF: EEE, IIT Guwahati | PhD: EIE, NIT Agartala | MTech: EE, NITTTR Kolkata MIEEE | MIE | MSPIE | MOSA

Invitation for expert lecture in ETTVMM 2022 (SKIT Jaipur)

Chitrakant Sahu <chitrakant.ece@mnit.ac.in> To: STTP- ECE <sttpece@skit.ac.in> Thu, Feb 3, 2022 at 12:39 PM

Dear Sir/Madam,

I will be happy to take a lecture on ETTVMM-2022. The title of the talk will be "Doping and junction-free transistors for future computing".

On Thu, Jan 20, 2022 at 9:04 AM STTP- ECE <sttpece@skit.ac.in> wrote:

Dr. Chitrakant Sahu MNIT, Jaipur

Dear Sir,

We are pleased to inform you that Department of Electronics and Communication Engineering, Swami Keshvanand Institute of Technology, Management and Gramothan, Jaipur is organizing an online one week Short Term Training Program (STTP) on "Emerging Tools and Techniques in VLSI, MEMS & MOEMS (ETTVMM-2022)" from 25th to 29th January 2022.

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Please spare some time from your busy schedule to enlighten us with your knowledge.

If you accept the invitation please send

(1) your brief bio

(2) your photograph

Thanks and regards,

Organizing Team-ETTVMM-2022

-

Dr. Chitrakant Sahu

Assistant Professor

Department of Electronics & Communication Engineering

Malaviya National Institute of Technology Jaipur

S.N.	Participant Name	Name of Institute	Email ID (Registered)
1.	Vishwas Sharma	AIT	vhsharma.ict@spcevng.ac.in
2.	Gazala Ali	Anjuman Polytechnic	gazala.yusuf@gmail.com
3.	Kamal singh	Arya college of engineering and I. T	nobelrao06@gmail.com
4.	ABHA SHARMA	ARYA INSTITUTE OF ENGINEERING & TECHNOLOGY	sharmaabha0307@gmail.com
5.	RAVI JOSHI	Arya institute of engineering and technology	ravijoshi6861@gmail.com
6.	Vidya Sagar Kumar	Adhyapak Mahavidyalaya, Vadgaon, Maval, Pune	vsagar.du07@gmail.com
7.	Pousia S	Bannari Amman Institute of technology	pousias@bitsathy.ac.in
8.	SHIVANGI	BANSAL College	bansal.shivangi84@gmail.com
9.	MUGDHA SAHU	BIRLA INSTITUTE OF TECHNOLOGY, MESRA	mugdhasahu2000@gmail.com
10.	Jyoti Sharma	BIT Mesra, Jaipur Campus	jyotisharma@bitmesra.ac.in
11.	Kiran K N	BNM Institute of Technology	knkiranbnm@gmail.com
12.	M. EZHIL MARAN	CHENNAI INSTITUTE OF TECHNOLOGY	suryapark2002@gmail.com
13.	ASHU KUMAR	DEEN DAYAL UPADHAYAY GORAKHPUR	ashukumar786687@gmail.com
14.	Soumya Dubey	Deen Dayal Upadhyaya Gorakhpur University, Gorakhpur	soumyavats3112@gmail.com
15.	RASHMI BHARTI	DELHI TECHNOLOGICAL UNIVERSITY	bhartirashmi95@gmail.com
16.	VIPIN SHANKARRAOBHURE	G H RAISONI INSTITUTE OF ENGINEEING AND TECHNOLOGY, NAGPUR	vbhure1@gmail.com
17.	Dr Rahul Pethe	G H Raisoni Institute of Engineering and Technology Nagpur	rahul2480@gmail.com
18.	Mrs. Prerna Arun Wankhede	G.H.Raisoni Institute of Engineering and Technology, Nagpur	prernawankhede1012@gmail.com
19.	Neha Jain	Galgotia college of engineering and technology, Greater Noida	Neha.jain@galgotiacollege.edu
20.	shobana.R	Galgotias college of Engineering and Technology	r.shobana@galgotiacollege.edu
21.	mynthrapriya	Gkm college	mynthrapriya@gmail.com
22.	MAMTA DEVI SHARMA	Global Institute of Technology, Jaipur, India	momtasharma()811@amail.com
22.	Muppidi DeepikaKrishna	Gudlavalleru Engineering College	mamtasharma0811@gmail.com deepikakrishna5555@gmail.com
23.	Dr. Ajay Kumar Singh Yadav	Jaipur Engineering College and Research Centre	ajayyadav.ece@jecrc.ac.in
25.	Swarnim Pathak	Jaypee Institute of Information Technology	9920102023@mail.jiit.ac.in
26.	Karan Singh	Jaypee Institute of Information Technology	vermakaransingh@gmail.com
27.	Bhanvendra singh	Jaypee institute of information technology	bhanvendra1803@gmail.com

8. List of Participants (Outside SKIT)

28.	Dr.Shamim Akhter	Jaypee Institute of Information Technology,NOIDA	shamimjiit@gmail.com
29.	Mukesh Kumar Bind	JIIT	mukesh.bind@mail.jiit.ac.in
30.	Rahul kumar	JIIT	sahanirk770@gmail.com
31.	Mandeep Singh Narula	JIIT Noida	mandeep.narula@jiit.ac.in
32.	Shresth Rakesh	JIIT NOIDA-128	9920102015@mail.jiit.ac.in
<u>32.</u> 33.	Dr. Satyendra Kumar	JIIT Noida	satyendra.kumar@jiit.ac.in
	· ·		• •
34.	Priyanka Agrwal	JIIT, Noida	pop10118@mail.jiit.ac.in
35.	Abhay Pratap Singh	JIIT,NOIDA	apsingh007@gmail.com
36.	Dr Sandip D Satav	JSPM's Jayawantrao Sawant COE Pune 411028	sandy_satav@yahoo.co.in
27		LNM Institute of Infirmation and	21 001 01
37.	Dhiraj Shrivastava	Technology	21pec001@lnmiit.ac.in
38.	Banoth Likitha	Malaviya national institue of technology	2020UEC1814@mnit.ac.in
39.	Baddam Nithya Reddy	Malaviya National Institute of Technology	nithyareddy606@gmail.com
40	D I. IZ	Malaviya National Institute of	2021 1 521 4 @
40.	Ramesh Kumar Verma	Technology Jaipur	2021peb5214@mnit.ac.in
<u>/</u> 1	Dratibba Jangid	Malaviya National Institute of	2021 pob 5108 amoit as in
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	Dr. Rakesh Kumar		-
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64.			

		technology	
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List of Participants (SKIT-Faculty)

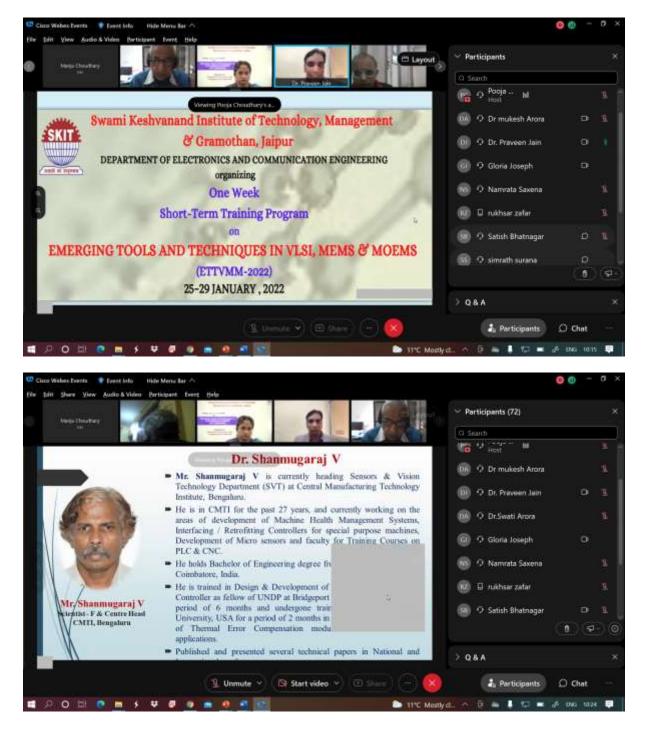
S.No.	Participant Name	Department	Employee Id	Email ID (Registered)
1	Priyanka Sharma	ECE	186	priyankas@skit.ac.in
2	Rajni Idiwal	ECE	56	rajni.idiwal@skit.ac.in
3	Pallav Rawal	ECE	133	pallav@skit.ac.in
4	Suman Sharma	ECE	187	suman.sharma.csit@skit.ac.in
5	NEERAJ GARG	CS	856	neeraj.garg@skit.ac.in
6	Lakshman Singh Dhaked	CS	1015	Lakshman.dhaked@skit.ac.in

List of Participants (SKIT-Student)

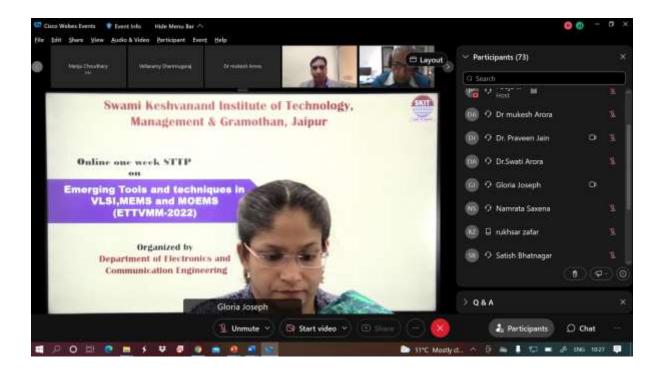
S.No ·	Participant Name	Departmen t	Roll No	Email ID (Registered)
1	Avadhesh Chasta	EC	19ESKEC030	avadheshchasta@gmail.com
2	Manoj Garg	EC	19ESKEC008	Manojgarg357@gmail.com
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4	PRETESH KAKHANI	CE	20ESKCE091	PRETESH2002@gmail.com
5	Kirti Sagar	EC	20ESKEC063	b201077@skit.ac.in

8. Screenshots of the Event







A Report on One Week STTP on ETTVMM-2022 Claro Webex Iventa · Dentt halts Hide Menu Bar -0 Share View Audio & Video Participant Event Hels Participants (80) Or Prevent Mil CI Search W Y Host Smart Sensors & Controls 🗤 🕂 Vellasamy Shanmugaraj 🔟 🤨 Dr. Praveen Jain Sensors Dr. Swati Arora - Macro (Conventional) 📆 🤨 Namrata Saxena - Micro (MEMS - Micro Electro Mechanical Systems) 💿 🤉 Satish Bhatnagar 🗸 Attendee: 73 (0 dis...

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Chat

> Q & A

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Webex

yes sir

Participants (80)

all can write in chat box

To: Host

> Q & A

16°C Haze <?</p>

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a Participants

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from M EDHLMARAN to all panelists: 10.52 AM yes sir audible

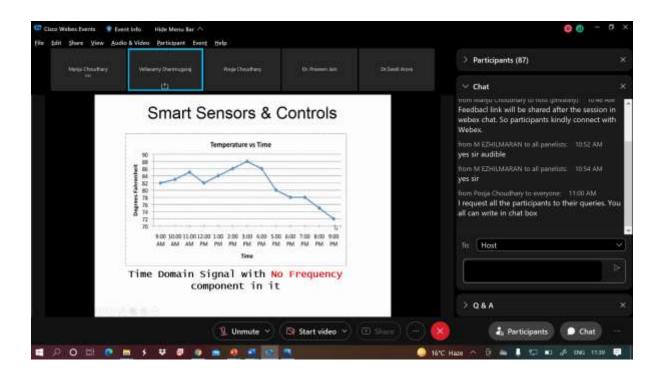
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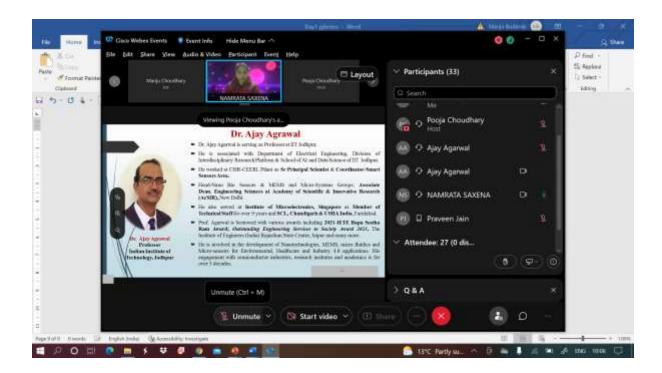
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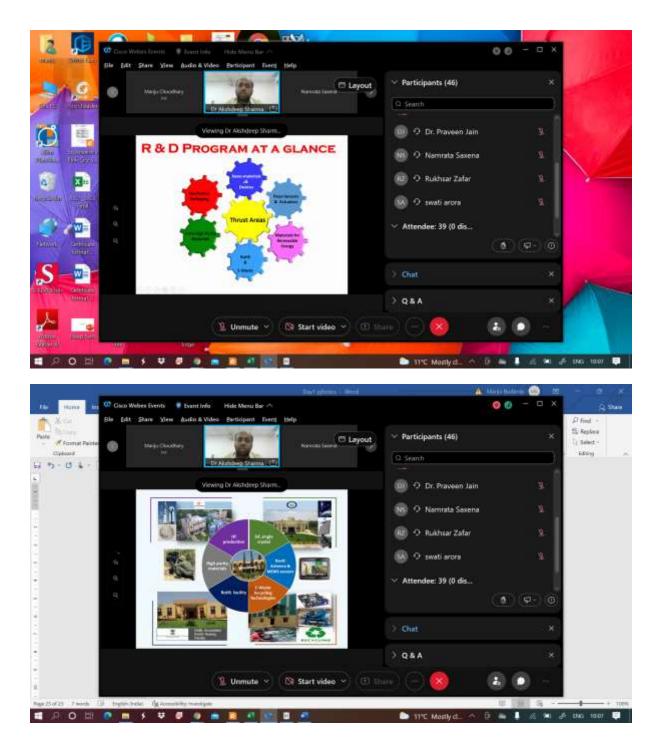
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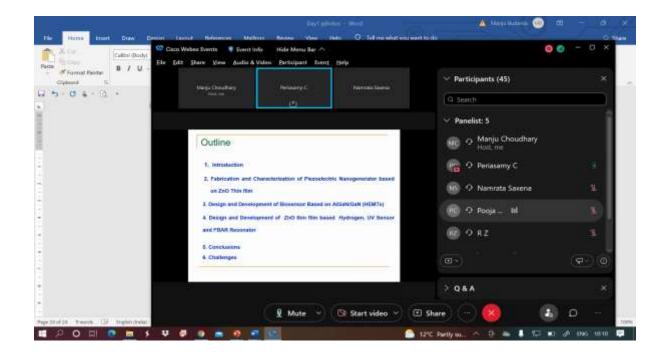
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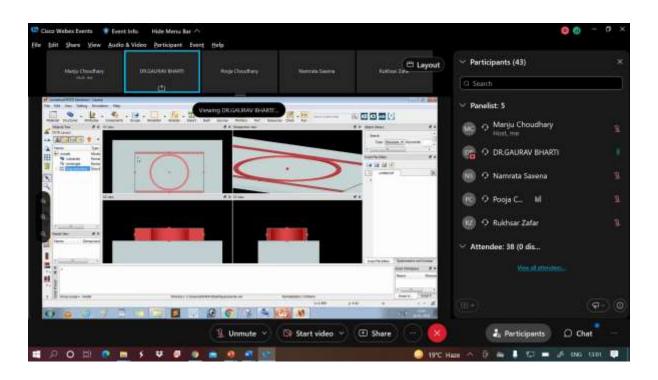


Swami Keshvanand Institute of Technology Management & Gramothan Ramnagaria, Jagatpura, Jaipur-302 017, Rajasthan, India

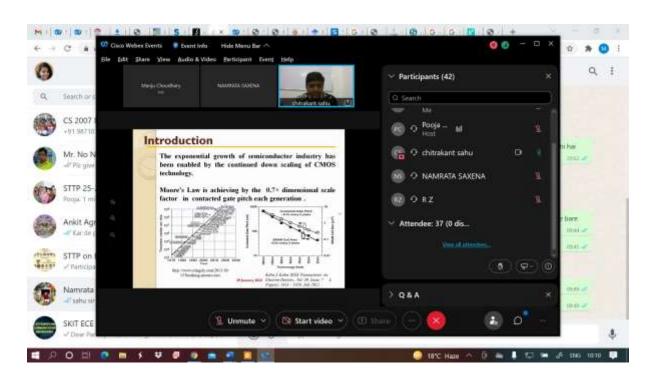
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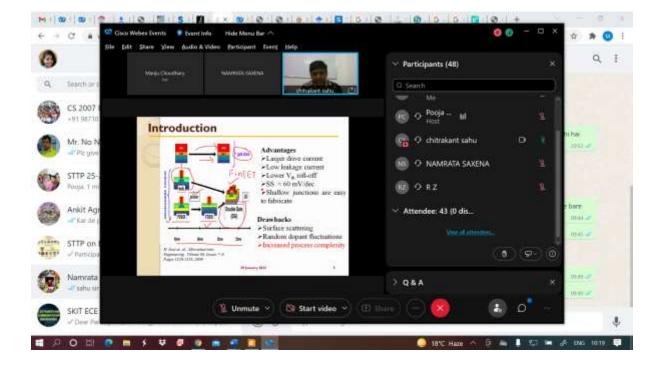


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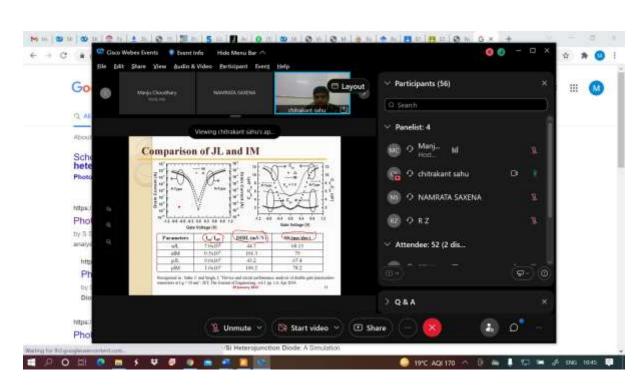


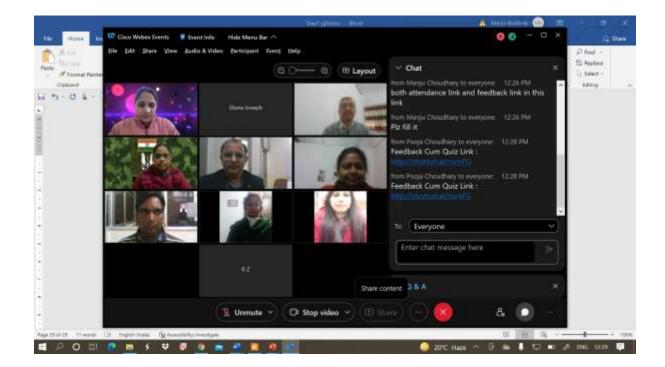
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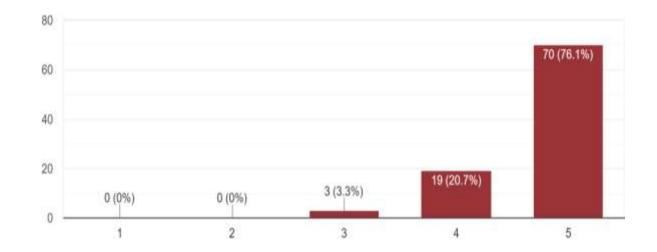


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# 9. Sample Copy of Certificate

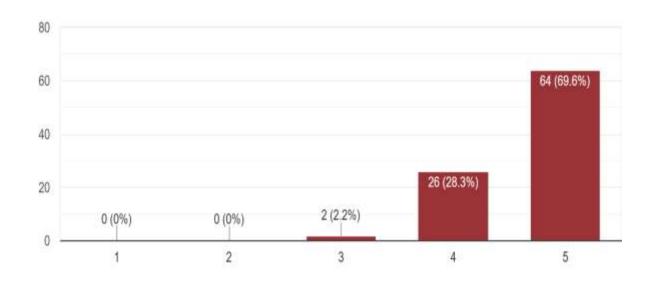


# 11. Feedback report

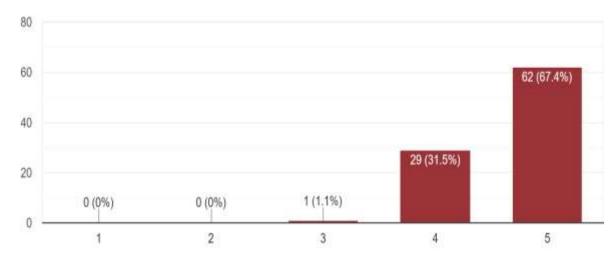


### 1. Your experience about the workshop

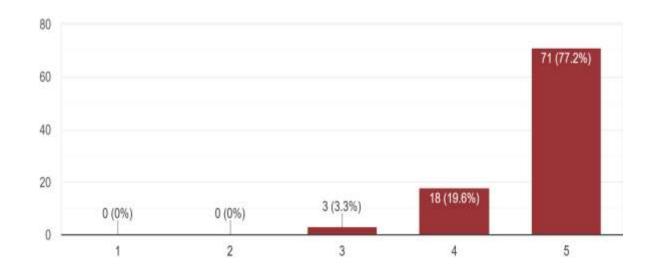
2. Overall, how do you rate the program you attended in terms of usefulness and effectiveness?



**3.** How do you rate the content of the STTP?



4. About speaker



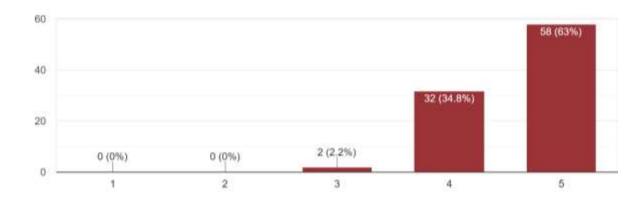
**5.** Knowledge gained by the course.



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Advancements in mems and moems, and tools used in visi and smart sensors.	
i Learnt about technical knowledge of visi designing.	
Key points and impacts of modern techniques and electronic gadgets	
Very informative	
EXCELLENT SPEAKERS AND LATEST TOPIC	
Update my knowledge	
An exposure to sensor & and its engineering	
YES, Specially about MEMS and other sensors.	
50 PER	

## **6.** Relevancy of topics



# **13.** Media Coverage



# एसकेआईटी मे पांच दिवसीय शार्ट टर्म ट्रेनिंग प्रोग्राम का शुभारम्भ

P3 Police Public Politics जयपुर ! जगतपुरा स्थित स्वामी केशवानंद इस्टिट्यूट ऑफ टेक्नोलॉजी मे इलेक्ट्रॉनिक्स एंड कम्युनिकेशन डिपार्टमेंट द्वारा इमर्जिंग टुल्स एंड टेक्निक्स इन वीएलएसआई एमईएमएस एमओईएमएस + विषय पर ऑनलाइन पांच दिवसीय शार्ट टर्म ट्रेनिंग प्रोग्राम का शुभारम्भ हुआ। इस प्रोग्राम के चीफ गेस्ट मि. शन्मगराज वी. (साइंटिस्ट (एफ), सेंटर प्रमुख डू सी.एम.टी.आई बेंगलुरु ) रहे। कार्यक्रम की शुरुआत में संस्था के डायरेक्टर,प्रोफेसर एके डमिक एस.एल.सराणा ने सभी गणमान्य अतिथियों का स्वागत किया तथा इस कार्यऋम के विषय वस्तु पर प्रकाश डाला। तत्पश्चात प्रोफेसर पी.के.जैन ने संस्था की उपलब्धियों से सभी को अवगत कराया।

मि. शन्मुगराज ने एसटीटीपी के विषय की महत्ता पर चर्चा की तथा यह बताया कि एमईएमएस और एमओईएमएस तकनीक यांत्रिक, इलेक्ट्रोमैकेनिकल और इलेक्ट्रोकेमिकल उपकरणों को अभूतपूर्व लघु स्तर पर उत्पादन करने का अवसर प्रदान करती है, और आधुनिक तकनीक के साथ बड़े पैमाने पर एकीकृत करने की कार्यक्षमता प्रदान करती है।

एमईएमएस का उपयोग सेंसर. एक्रुएटर्स, जनरेटर, ऊर्जा स्रोतों, जैव रासायनिक और बायोमेडिकल सिस्टम और ऑसिलेटर्स की एक विस्तुत श्रुंखला में किया जाता है। एमईएमएस उपकरण भी कम बिजली की खपत और उच्च संवेदनशीलता प्रदान करते हैं जो कि पारंपरिक यांत्रिक समकक्ष उपकरण प्राप्त नहीं कर सकते हैं। प्रोग्राम के कोऑर्डिनेटर मिस मंजू चौधरी ने इस कार्यक्रम में सम्मिलित होने वाले वक्ताओं तथा विभिन्न सत्रों का संक्षिप्त विवरण प्रस्तत किया। कार्यक्रम के अंत में विभागाध्यक्ष प्रोफेसर मुकेश अरोडा, द्वारा धन्यवाद जापित किया गया। इस प्रोग्राम के कोऑर्डिनेटर, मिस मंजू चौधरी , मिस नम्रता सक्सेना, डॉ रुखसार जफर, डॉ स्वाति अरोडा एंड मिस पूजा चौधरी रहे । प्रोग्राम का सञ्चालन मिस ग्लोरिया जोसफ ने किया।

# ऑनलाइन शॉर्ट टर्म ट्रेनिंग प्रोग्राम शुरू

जयपुर | जगतपुरा स्थित स्वामी केशवानंद इंस्टिट्यूट ऑफ टेक्नोलॉजी में इलेक्ट्रॉनिक्स एंड कम्युनिकेशन



डिपार्टमेंट को ओर से इमर्जिंग टूल्स एंड टेक्निक्स इन वीएलएसआई, एमर्डएमएस

पर ऑनलाइन पांच दिवसीय शॉर्ट टर्म ट्रेनिंग प्रोग्राम का शुभारंभ किया गया। प्रोग्राम के चीफ गेस्ट मि. शन्मुगराज वी. (साइंटिस्ट (एफ), सेंटर प्रमुख – सी.एम.टी.आई बेंगलुरु) रहे। इस मौके पर संस्था के एकेडमिक डायरेक्टर प्रो. एसएल सुराणा, प्रो. पीके जैन, कोऑर्डिनेटर मंजू चौधरी, विभागाध्यक्ष प्रो. मुकेश अरोड़ा, नम्रता सक्सेना, डॉ. रुखसार जफर, डॉ. स्वाति अरोड़ा, पूजा चौधरी मौजूद रहे। कार्यक्रम का संचालन ग्लोरिया जोसफ ने किया।



उन्होंने इस बात पर प्रकाश डाला कि इलेक्ट्रॉनिक्स एवं संचार क्षेत्र में फोटोनिक अवयवों पर भविष्य इंस्टीट्यूट आफ टेक्नोलॉजी में पांच आधारित होगा और नैनो तकनीक इसे हासिल करने की कुंजी है। नम्रता सक्सेना ने किया। प्रोफेसर समापन प्रवीण जैन ने धन्यवाद प्रस्ताव रखा। शनिवार को हुआ। कार्यऋम में एसटीटीपी के समन्वयक मंजू चौधरी, नम्रता सक्सेना, डॉ रुखसार पजा चौधरी और ग्लोरिआ जोसेफ ने लिए किया। एचओडी प्रोफेसर मुकेश अरोडा ने अतिथियों का स्वागत किया।

स्वामी केशवानंद जयपुर। दिवसीय शॉर्ट टर्म ट्रेनिंग प्रोग्राम÷ इमर्जिंग टल्स एंड टेक्निक्स इन कार्यक्रम का समन्वय वीएलएसआई एमईएमएस. एमओईएमएस÷ का आरटीयू कोटा के मुख्य अतिथि प्रो. रंजन माहेश्वरी रहे। माहेश्वरी ने जफर, डॉ स्वाति अरोड़ा, सफलतापूर्वक एफडीपी को आयोजित करने के के ÷ईटीटीवीएमएम-2022÷ समस्त आयोजकों को बधाई दी।

Kamnagaria, Jagatpura, Jaipur-302 017, Kajasthan, India

# **13. Technical Report**

The One Week **One Week Short Term Training Program (STTP) on** "*Emerging Tools and Techniques in VLSI, MEMS & MOEMS*" organized by SKIT Jaipur, from 25th - 29th Jan, 2022. This STTP is conducted on Webex online platform.

**Mr. Shanmugaraj V, Scientist - F & Centre Head CMTI, Bengaluru** was chief guest of STTP. The STTP began with the welcome address by Prof. S.L.Surana (Director Academics) SKIT. The Inauguration ceremony also witnesses the presence of Prof. Mukesh Arora (Head ECE &OFA), Prof. S. K. Bhatnagar, Prof. Praveen K. Jain (Dy.Head, ECE, SKIT), Dr. Rukhsar Zafar, Dr. Swati Arora, Dr. Monika Mathur, Ms. Namrata Saxena, Ms Pooja Choudhary, Ms Manju Choudhary.

**Mr. Shanmugaraj V,** addresses participants about importance of VLSI, MEMS, MOEMS field in today's life. In his talk he emphasis on Smart sensors and controls. He discuss different types of sensors to measure different parameters. Also discussed parameters that are used to measure the sensitivity and responsivity.

Commencement of second day session was with an expert lecture of **Prof. Ajay Agrawal** from IIT Jodhpur. He enlightened the participants about the importance of Nano-technologies for healthcare sensors. He throw light on the significance of markers for early diagnosis of heart attack, cancer, covid, diabetes and other fatal diseases and also about the challenges in diagnosis in early stage like cost, time, concentration, negligence of diseases. He discussed about the designing and testing of biosensors used in detection of diseases.

Day 3 started again with the knowledge enriching session of Dr. Akshdeep Sharma, Senior Scientist, He enlightens with the journey from MEMS to NEMS along with the different domains of MEMS innovation. He also discussed about the manufacturing process of microsystems including FEM simulation on COMSOL or any other multiphysics tools. He explained about the complete fabrication flow related to the MEMS Bionic Sensor for Autonomous Underwater Vehicle.

The next technical session on the third day was taken by **Dr. Vijaynath, Associate Professor, BIT Mesra Ranchi** on **Chip Design for Aerospace Applications.** He discussed about the Impact of Microelectronics, VLSI Design in Human Life. He also explained about the VLSI System Design Flow various applications including CMOS based Temperature Senor, Piezoresistive Pressure Sensor for Aerospace Applications.

The fourth day begins with the Expert talk on **Design and Development of Electronic Devices for MEMS and Bio-sensing Applications** by **Dr. C. Periasamy**. He discussed about the development, characterization of ZnO nanoneedles as a piezoelectric nanogenerators for energy harvesting application. He also discussed about the HEMT For Biosensing Application.

The next technical session's expert was **Dr. Gaurav Bharti, Chandigarh University**. Dr. Bharti enlightened the participants with the applications of photonics in biosensing and chemical sensing. The lecture is followed by the hands on experience on the designing of ring resonators and different photonic structures using FDTD tool.

The last seventh technical session was taken by **Dr. Chitrakant Sahu, from MNIT Jaipur.** He discussed about the saturation of Moore's Law and evolution of new devices like FINFETs, Junction Less Transistors for future computing applications. He delivered knowledge about the TCAD simulation of JLFETs and their characteristics.

This STTP enables the researchers, students, faculties to explore a new realm of technology and to work in this particular field to the next extent.

---Thank You-----