



**Swami Keshvanand Institute of Technology,  
Management & Gramothan**

**MOU**

**CEERI, Pilani**

**&**

**SKIT, Jaipur**



सीएसआईआर-केन्द्रीय इलेक्ट्रॉनिकी अभियांत्रिकी अनुसंधान संस्था  
CSIR-CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE  
(विज्ञान तथा प्रौद्योगिकी मंत्रालय / MINISTRY OF SCIENCE & TECHNOLOGY, भारत सरकार / GOVT. OF INDIA)  
पिलानी, राजस्थान (भारत)/Pilani, Rajasthan - 333031 (INDIA)



पत्र सं./Letter No.TBD/SKIT/23/05-03

दिनांक /Date: 23/05/2023


To,

Dr. Monika Mathur  
ECE Department,  
Swami Keshvanand Institute of Technology, Mnagement & Gramothan,  
Ramnagaria, Jagatpura, Jaipur- 302017

Subject: - Signing of Memorandum of Understanding (MOU)

Dear Sir,

Please find the enclosed signed "Memorandum of Understanding (MOU)" document between CSIR-Central Electronics Engineering Research Institute (CSIR-CEERI), Pilani and Swami Keshvanand Institute of Technology, Management & Gramothan (SKIT), Jaipur.

  
भवदीय/Yours

नाम/ Name: Dr. Manish Mathew  
पदनाम/Designation: Senior Principal Scientist

**MEMORANDUM OF UNDERSTANDING  
FOR  
INSTITUTIONAL COLLABORATION**

**BETWEEN**

**SKIT- SWAMI KESHVANAND INSTITUTE OF TECHNOLOGY,  
MANAGEMENT & GRAMOTHAN, JAIPUR**

**AND**

**CSIR – CENTRAL ELECTRONICS ENGINEERING RESEARCH  
INSTITUTE (CSIR-CEERI)**



**MEMORANDUM OF UNDERSTANDING FOR INSTITUTIONAL  
COLLABORATION  
BETWEEN  
SKIT- SWAMI KESHVANAND INSTITUTE OF TECHNOLOGY,  
MANAGEMENT & GRAMOTHAN, JAIPUR  
AND  
CSIR – CENTRAL ELECTRONICS ENGINEERING RESEARCH  
INSTITUTE (CSIR-CEERI)**

This Memorandum of understanding (hereinafter referred to as “MoU”) entered into on this *15* day of *May*, 2023 by and between:

SKIT, Jaipur - Swami Keshvanand Institute Of Technology, Management & Gramothan, Jaipur, is an Engineering College, Affiliated to Rajasthan Technical University, Kota, having its office at Ramnagar, Jagatpura, Jaipur, Rajasthan-302017.

**AND**

CSIR – Central Electronics Engineering Research Institute, Pilani is a constituent establishment of the Council of Scientific and Industrial Research, New Delhi, having its campus and administrative office in Pilani – 333 031, Rajasthan, India.

Swami Keshvanand Institute of Technology, Management & Gramothan (Here in after referred to as “SKIT”) inspired from the learning’s of Swami Keshvanand, was established in the year 2000 by Technocrats and Managers Society for Advanced Learning and Gramothan. 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. The institute is

accredited by NACC with A++ grade and is ranked No.1 Institute by Rajasthan Technical University, Kota for last five consecutive years. The UG Programme of Institute namely Computer science & Engineering, Information Technology, Electronics and Communication Engineering, Electrical Engineering, Mechanical Engineering are continuously accredited and re-accredited by National Board of Accreditation since 2009.

CSIR - Central Electronics Engineering Research Institute (CSIR-CEERI), Pilani is a premier research Institute in the field of Electronics, established in 1953 under the aegis of **Council of Scientific & Industrial Research (CSIR)**. It is devoted to R&D activities in three areas, namely: (1) Advanced Electronic Systems: Image processing and DSP, Internet of Things (IOT), Embedded System Design, Electronic Instrumentation, Industrial Control & Automation, Power Electronics, Robotics, VLSI Design (Digital, Analog, Mixed Signal), etc.; (2) Advanced Semiconductor Electronics: MEMS, Micro-sensors, Opto-electronic Technologies, Photonic Devices and Sub-systems, Nano-electronics, LTCC and Advanced Packaging technologies, etc.; (3) Microwave Tubes: Klystron, Magnetron, Travelling Wave Tubes, Gyrotron, Plasma Tubes, Tera Hertz devices etc. CSIR-CEERI also has Centres at Chennai and Jaipur.

**Collectively hereinafter referred to as “institutions”**

This MoU is based on the principal of reciprocity and expresses the interest of both institutions in exchanging scholars, students, academics information and materials in the belief that the research and educational process at both institutions will be enhanced and that mutual understanding between their respective scholars and students will be increased by the establishment of such exchange programs as per CSIR Guidelines.

1. The institutions agree to encourage the development of the following exchange programs based on their respective academic and educational needs:
  - Exchange of scientific staff
  - Exchange of students (undergraduate and/ or graduate)
  - Joint supervision of M. Tech, M.S. and Ph.D. students
  - Exchange of academic information and materials
  - Exchange of periodicals and other publications
  - Organization of joint research programs
  - Organization of joint conferences and societal programs
  - Organization of other academic exchanges agreeable to both institutions
  - Use of laboratory facilities on mutually agreed terms and conditions
  - Virtual incubation and entrepreneurial programs for technology related capacity enhancement programs

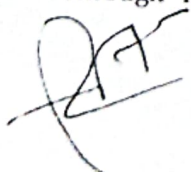
Areas to start this collaboration are listed in Annexure 1. Both the institutions can revisit this list after mutual consultation. The above activities shall be undertaken as per CSIR guidelines.



2. The parties recognize that the implementation of any exchange program will depend upon the academic interests and expertise of individual staff members and upon the availability of financial resources. Accordingly, the implementation of each exchange program based on this agreement shall be separately examined and determined by both institutions. The institutions shall enter into separate agreements regarding the individual exchange programs.
3. Faculty/ Scientists of either of the institute initiating collaborative work will take care of the usage of their institute resources and conduction of activities as per institute norms. A faculty member Dr. Monika Mathur from SKIT, Jaipur will coordinate with a scientist from CSIR-CEERI for the implementation of this initiative.
4. Each institution will adhere to the intellectual laws of India. Intellectual property developed during the visit of an exchange student/researcher/faculty/staff will be governed by the rules of the host institute unless otherwise specified. The two institutions shall jointly own the results of clearly defined collaborative projects and exchange programs. This joint ownership also entitles each party to explore commercialization. However, the transfer of jointly developed technology and associated sharing of revenue shall be governed by a separate agreement. This cost of IP filing will be equally shared by both Institutions.

Furthermore, if one institution receives any information from the partner under a clearly defined non-disclosure agreement, necessary and reasonable care will be taken to protect the intellectual property received.

5. This MoU is not intended to be a legally binding document. It is meant to describe the nature and to suggest the guidelines of the cooperation described above. Nothing therefore shall diminish the full autonomy of either institution, nor will any constraints be imposed by either upon the other in carrying out the agreement. Any disputes shall be resolved through mutual discussion between the highest officials of the respective institutions.
6. Any addition, deletion and /or alteration to this MoU may be effected by writing. A document containing the additions, deletions and /or alterations, and signed by all Parties hereto, shall form an annexure to and be deemed to be a part of this MoU.
7. The agreement shall become effective on the day representatives of both institutions affix their signatures and seals, will be in force for a period of 5 years, and is subject to revision or modification by mutual agreement. It is also understood that either institution may terminate the agreement at any time, although it is assumed that such action would only be taken after mutual


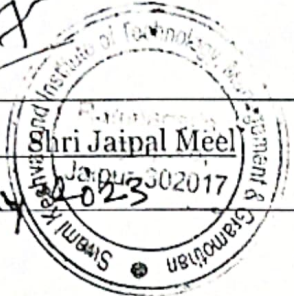


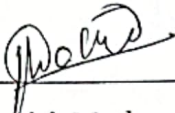
consultation at least six months in advance in order to avoid any possible inconvenience to the other institution.

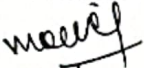
IN WITNESS WHEREOF, the institutions hereto have offered signatures:


For: SKIT - Swami Keshvanand  
Institute Of Technology,  
Management & Gramothan, Jaipur


For: CSIR – Central Electronics  
Engineering Research Institute, Pilani

Signature:   
Name: Shri Jaipal Meel  
Date: 13 May 2023  
Seal: 

Signature:   
Name: Dr. Mahish Mathew  
Date: 15/05/2023  
Seal: Head, Technology Business Development Unit  
सीएसआईआर-सीएसी / CSIR-CEERI.  
पिलानी (राज.) भारत / Pilani (Raj.) 333031 INDIA

Witness:  
Signature:   
Name: Dr. Monika Malhotra  
Designation: - Ass. Prof. SKIT, JPR.

Witness:  
Signature:   
Name: PRAMOD KUMAR  
Designation: Principal Scientist

Signature:   
Name: Vivek K. Sharma  
Designation: Ass. Prof., SKIT JPR

Signature: Vijay Chatterjee  
Name: Dr. VIJAY CHATTERJEE  
Designation: Sr. Scientist

**Swami Keshvanand Institute of Technology,  
Management & Gramothan**

**List of Events 2023-24**

<b>S. No.</b>	<b>Title</b>	<b>Type of Event</b>	<b>Level of Event</b>	<b>Date</b>
1	45 Days Summer Training (as per RTU Curriculum)	Training	college	21 <sup>st</sup> July-1 <sup>st</sup> Sep. 2023
2	Lecture Series on “Recent Trends in Electronics and Communication 3.0”	Lecture series	college	9 <sup>th</sup> – 20 <sup>th</sup> Oct. 2023





# Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur



**A  
Report  
on  
45 Days Summer Training Program at CEERI-Jaipur &  
Pilani**

**SDP and SHILP**

**(21<sup>st</sup> July-1<sup>st</sup> September 2023)**

**Organized Under the MOU (CEERI-SKIT)**

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# 1. Objective and Outcome of the event

## Objectives

The objectives of the summer training are to:

- Explore career alternatives prior to graduation.
- Integrate theory and practice.
- Assess interests and abilities in their field of study.
- Learn to appreciate work and its function in the economy.

## Outcomes

After completion of training participants show more confidence in discussing the latest and recent trends in communication System

## 2. Event Brochure

**SDP COURSE ON IIOT & HANDS-ON TRAINING ON SEMI-CONDUCTORS DEVICE FABRICATION**

**IIoT Course (CSIR-CEERI, Jaipur Centre)**  
**Introduction to IIoT and Opportunities**

- Introduction to IIoT-Concepts and Terminology of The Internet of Things (IIoT), History of IIoT, Applications, Requirements/Need of IIoT, M2M/IIoT standards, Components of IIoT, IIoT Enabling Technologies - Sensors, Actuators & Gateways, Power Requirements, Challenges in IIoT. Modern trends in IIoT - Wearable, Industrial 4.0 & Medical devices etc.,
- IIoT Case Studies**
  - Case studies, Use cases in Real-life/Thematic areas - Smart Homes, Smart Cities, Smart Industries, Smart Medical care, Smart Automation etc.
  - Practical: Live examples of various IIoT Devices.
- Programming Languages:**
  - Overview of Programming Language given IIoT Devices, C Language: Pointers, Functions Arrays, Strings, Structures & Unions, Memory Allocation, Pre-processor, Linked Lists, Stacks & Queues, Sorting & Searching Techniques.

**IIoT Course (CSIR-CEERI, Jaipur Centre)**  
**Introduction to Python:**  
 Scope, Data Types, Files, Functions, Modules & Packages, Standard Libraries, Data Structures, OOPs Concepts, Data Analytics related Packages  
 Practical: Practical's on the above concept using an IDE

**Introduction to Embedded Systems:**  
 Overview of Embedded Systems and Various Architectures (RISC & ARM), Introduction of ARM Series Architecture, Registers, Operation modes, Overview of instruction Set, Interrupt Handling, Exception Handling, Timers, SDKs & IDEs for firmware development, Peripheral Programming (UART, GPIO, ADC, SPI, I2C, etc), Debugging techniques

**Practical: Implementation of Various peripherals discussed on an embedded platform.**  
 Networking and Wireless Technologies:  
 Basics of wired & wireless communications, TCP/IP Protocol stack, overview of Link, IP Layers, IPv4 & IPv6 basics, TCP, UDP Protocols & Socket Programming.  
 Wireless Communication - WLAN (IEEE 802.11), Wi-Fi motes (ESP32, CC3200 etc), Bluetooth Protocol Stack, Class & Smart Profiles (L2CAP, RFCOMM, GATT etc), BLE Motes (NRF5xx series, TI CC26xx Series), BLE Beacons, Cellular Technologies - GSM, CDMA, GPRS, 3G, 4G/LTE etc, Geo Tracking - GPS, NB-IoT, SigFox, FOT

**Practical: Implementation of Various peripherals discussed on an embedded platform.**

**IIoT Course (CSIR-CEERI, Jaipur Centre)**

**IIoT Protocols:**

- IoT Communication needs, Terminology – M2M, IoT, WoT, Data exchange formats, e.g.: – JSON, IIoT Protocols – MQTT, CoAP, HTTP REST, Web Sockets etc.

**PCB Design and Hardware Development:**

- Introduction of Simulation using LTSPICE, Generation of Schematic (DIPTRACE), Layout Design Basics (DIPTRACE), Creation of Libraries/Guidelines for PCB's (DIPTRACE), Generation of CAM files, Viewing of Gerber Files, populating the developed design, testing of the developed hardware.
- Practical & Simulation: Population of the PCB and testing of the device**

**Sensors and Systems (Industry Implemented):**

- Sensors, transmitters, actuators, industrial protocols, RS-485, Modbus, GPIB (theory) etc., building blocks of system development, building a societal application (weather station, air quality, water quality, heart rate) using IIoT architecture.

**Practical Implementation on the development board.**

**Android App Development (Optional)**  
Implementation of wireless communications, Layout (GUI) Design, programming languages (Java/Kotlin), debugging and apk file generation

# SHILP


@ CSIR-CEERI, Pilani

**Hands-on Training in Semiconductor Device Fabrication**

**Sensors and Systems:**  
**Fabrication of P-N junction diode and MOS capacitor structure on Silicon. Hands-on training will be given for the following.**

1. Wafer cleaning
2. Wafer handling
3. Mask Aligner
4. Oxidation facility
5. Diffusion facility
6. Metallization facility
7. Characterisation facility
8. Chemical Vapor Deposition
9. Physical Vapor Deposition
10. Profilometer
11. Basic Knowledge of semiconductor device Packaging

**Along with these specific software skills will also be included like. LEDIT, CleWin, etc. Also training will be given for Semiconductor device packaging.**



### 3. Schedule of the Event

S.No.	Date	Venue	Topic	Expert Name
1	21 <sup>st</sup> July- 17 <sup>th</sup> August 2023	CEERI-Jaipur	1. Analytical study for milk purity 2. Web Development 3. IOT applications	1. Mr Sai Krishna 2. Mr Navjot Kumar 3. Mr Sachin 4. Dr. Nishitha Gurjar
2.	21 <sup>st</sup> Aug.-1 <sup>st</sup> Sept. 2023	CEERI-Pilani	4. PCB designing using LTspice and Diptrace 5. Semiconductor Fabrication 6. Optical devices simulation and fabrications	1. Mr Ramakant Sharma 2. Mr Deepak 3. Mr Gajanendra Singh Meena 4. Mr Manish methew 5. Mr. Pijus

### 4. List of Invited Guest NIL

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

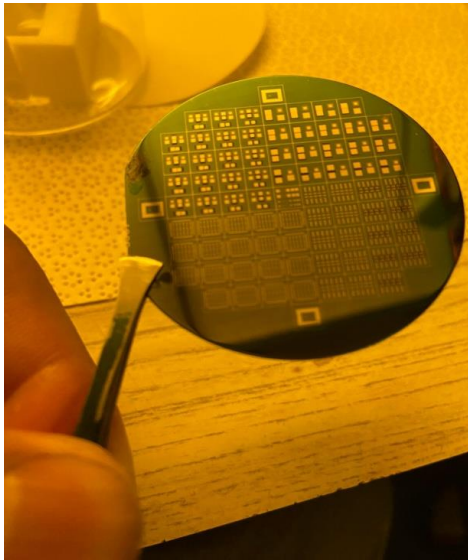
## 5. List of Participants

S. No.	Email Address	Participant Name	Department	Institute/Organization	Candidate Type	Roll No. or Employee Id
1	Abhijeetgiri52@gmail.com	Abhijeet Giri	ECE	SKIT M & G, Jaipur	B.Tech student	21ESKEC005
2	adityarawat1.com@gmail.com	Aditya Rawat	ECE	SKIT M & G, Jaipur	B.Tech student	21ESKEC008
3	Ameenzehra786@gmail.com	Ameen Zehra	ECE	SKIT M & G, Jaipur	B.Tech student	21ESKEC012
4	Chirag.gurnani.official@gmail.com	Chirag Gurnani	ECE	SKIT M & G, Jaipur	B.Tech student	21ESKEC020
5	Hardikas304@gmail.com	Hardik Sharma	ECE	SKIT M & G, Jaipur	B.Tech student	21ESKEC026
6	ahimanshu317@gmail.com	Himanshu Agrawal	ECE	SKIT M & G, Jaipur	B.Tech student	21ESKEC027
7	Nandinikhandelwal258@gmail.com	Nandini Khandelwal	ECE	SKIT M & G, Jaipur	B.Tech student	21ESKEC042
8	Navneetkaur11012@gmail.com	Navneet Kaur	ECE	SKIT M & G, Jaipur	B.Tech student	21ESKEC042
9	sjsnehaljain@gmail.com	Snehal Jain	ECE	SKIT M & G, Jaipur	B.Tech student	21ESKEC066
10	Vibhanshjain2@gmail.com	Vibhansh Jain	ECE	SKIT M & G, Jaipur	B.Tech student	21ESKEC072

## 6. Screenshots of the Event



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





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

## 7. Sample Copy of Certificate

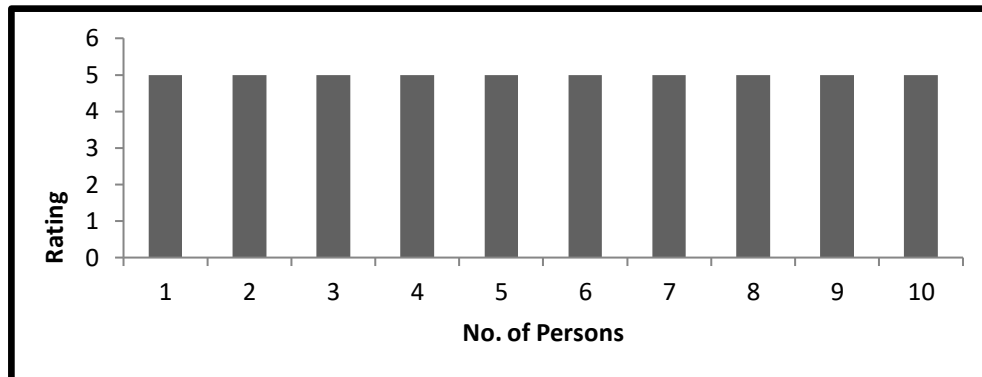


Swami Keshvanand Institute of Technology Management & Gramothan  
Ramnagar, Jagatpura, Jaipur-302 017, Rajasthan, India

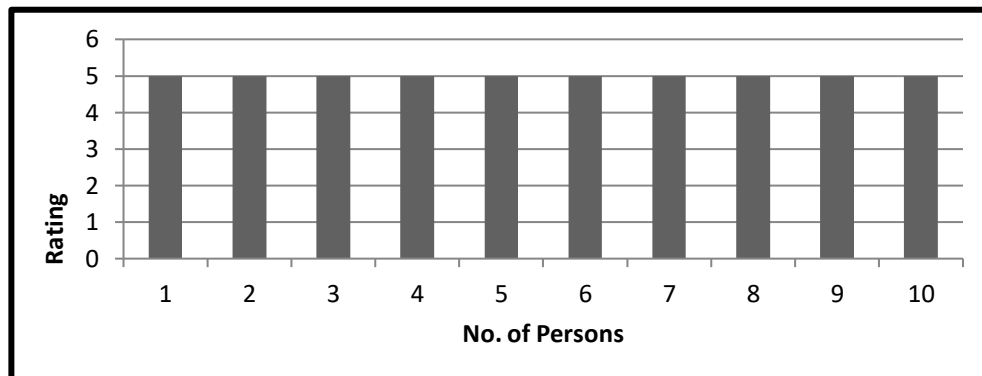


## 8. Feedback report

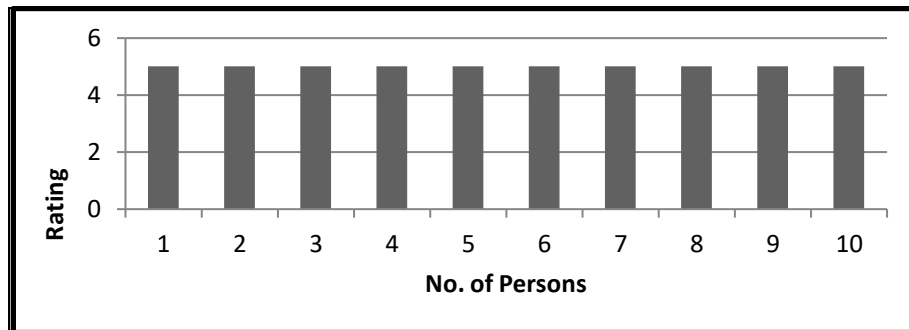
### 1. Students experience about the Training (rate 0-5 Level)



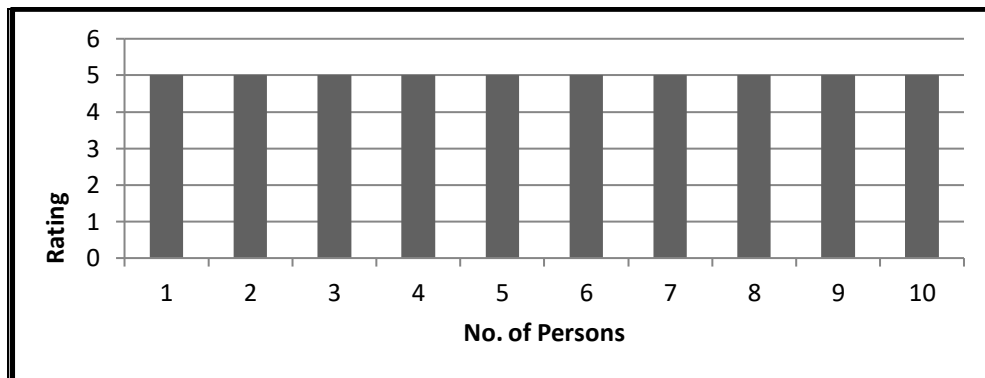
### 2. Overall, how do you rate the program you attended in terms of usefulness and effectiveness?



**3. How do you rate the content of the interaction? (On a scale of 0 to 5, 0 being lowest):**



**4. up to which extent this session will help to build your career**



## **9. Technical Report**

In the curriculum of V<sup>th</sup> semester students outside training/internship of 45 days is mandatory. An MOU was signed with the CEERI and SKIT in the month of June 2023 .IN that MOU it was mentioned that students can take training from CEERI if recommended by the SKIT College. DR. Monika Mathur took the name of interested students and 10 students paid the money for the food and accommodation.

According to their training schedule 30 days training was conducted in the Jaipur CEERI center and 15 Days training was conducted in the Pilani CEERI center. They thought the syllabus that they all given in form of a short brochure.(Already shown in the schedule section). The students were happy as they learnt the physically all about the skill developments



Swami Keshvanand Institute of Technology,  
Management & Gramothan, Jaipur



A  
Report  
on

Two Week  
Lecture Series  
In

“Recent Trends in Electronics and Communications  
Engineering 3.0”  
(RTECE 3.0)

9<sup>th</sup> -20<sup>th</sup> October 2023

Organized by:  
Department of Electronics & Communication Engineering  
in collaboration with CEERI (CSIR)



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## 1. Objective and Outcome of the event

### Objectives

- The main objective of this lecture series is to provide an opportunity for students, research scholars, and faculty members to get exposure to the recent topics on ECE mainly related to Electromagnetic fields, Microwave, RF, and Antennas
- It gives an insight into the field by discussing the necessary theoretical background and demonstration through simulation and measurement techniques. Simulation tools.

### Outcomes

On successful completion of the course, participants will be able to:

- a) Explain the basics of RF, Microwave and Electromagnetics
- b) Able to design the Microwave components for a given application
- c) Able to characterize and analyze the different Microwave components

∥

## 2. Budget Approval

Proposed Events to be Organize in the Session 2023-2024

Sr. No.	Type of Event	Title	Mode	Dates	Name of Coordinators	Any Collaboration	Budget Required
1	International Conference	Nano-Electronics and Communication Technologies (ICANCT-2024)	Hybrid	9-10 Feb, 2024	Dr. Mukesh Arora Dr. Praveen Kumar Jain	CSIR-IMMT: InTEC, Bhubaneswar	1,00,000/-
2	Lecture Series with Practices	Recent Trends in Electronics & Communication 3.0	Offline	Sept. 4-17, 2023	Dr. Monika Mathur, Ms. Kiran Rathi, Mr. Harshal Nigam Dr. Swati Arora,	CEERI (CSIR)	Rs. 30,000/-
3.	Short Term Training for Technical Assistants	Communication Skills & Personality Development	Offline	Jan. 3-17, 2024	Ms. Kiran Rathi, Dr. Monika Mathur, Mr. Dinesh Kumar	IETE, Rajasthan Section	Rs. 5000/-
4	International Symposium	Recent Trends in Photonics Technology	Online	March 13-14, 202	Dr. Rukhsar Zafar, Dr. Monika Mathur	MNIT Jaipur	Rs. 50,000/-
5	Student Workshop	Internet of Things and Smart devices 2.0	Offline	13-17 Feb. 2024	Dr. Rukhsar Zafar Ms. Manju Choudhary Mr. Sunil Lakhawat	-	30000/-

*yes, recommended*  
*Mukeshy*

*yes permitted & forwarded to Registrar/Director*  
*P-h*  
*23.7.23*

*Approved*  
*21/8/2023*

*Mukeshy*  
**Dr. Mukesh Arora**  
 Head-ECE

## Collaboration with CEERI (CSIR)

11/3/23, 10:04 AM

Swami Keshvanand Institute of Technology Mail - Fwd: Twoweeks Lecture series proposal under the banner of CEERI MOU ...



Harshal Nigam <harshal.nigam@skit.ac.in>

### Fwd: Twoweeks Lecture series proposal under the banner of CEERI MOU with SKIT.

1 message

Dr. Monika Mathur <monikamathur@skit.ac.in>

Wed, Oct 4, 2023 at 12:14 PM

To: Harshal Nigam <harshal.nigam@skit.ac.in>, Swati Arora <swati@skit.ac.in>, kiran.rathi@skit.ac.in

----- Forwarded message -----

From: Dr. Monika Mathur <monikamathur@skit.ac.in>

Date: Sat, 30 Sep 2023 at 12:01 PM

Subject: Twoweeks Lecture series proposal under the banner of CEERI MOU with SKIT.

To: <director@ceeri.res.in>

Cc: Manish Mathew <manish@ceeri.res.in>, <vc@ceeri.res.in>, Dr. Mukesh Arora <hodece@skit.ac.in>

R/sir,

Goodnoon,

Hope you are fine. First of all thanks for the wonderful Training provided by the CEERI persons to our students.

Students were happy about that.

I am attaching the proposal for conducting the Lecture Series at SKIT for two weeks. The proposal is for hybrid Mode.

please provide us the resource persons for the topics mentioned in the table and availability of person as

offline/online. Humble request that please provide at least 2-3 physical face to face lectures and hands on so that

students get in touch with the faculty from CERRI for further upcoming training at CEERI Campuses.

This activity is submitted to our management in the yearly activity of MOU with CEERI.

Thank you for your great cooperation

Waiting for the reply.

With Regards

Prof. (Dr.) Monika Mathur, Electronics and Communication Department,

Ph.D. -MNIT, Jaipur ,M.TECH.(DC),B.E.(ECE), Diploma (ECE),

Hony. Secretary IETE, Rajasthan Section, Jaipur,

FIETE, MIEI, LMISTE,SMIEEEE,M-Irisworld

Professor and PG as well as E-Cell Coordinator,

Ramnagar, Jagatpura, SKIT Jaipur.302017

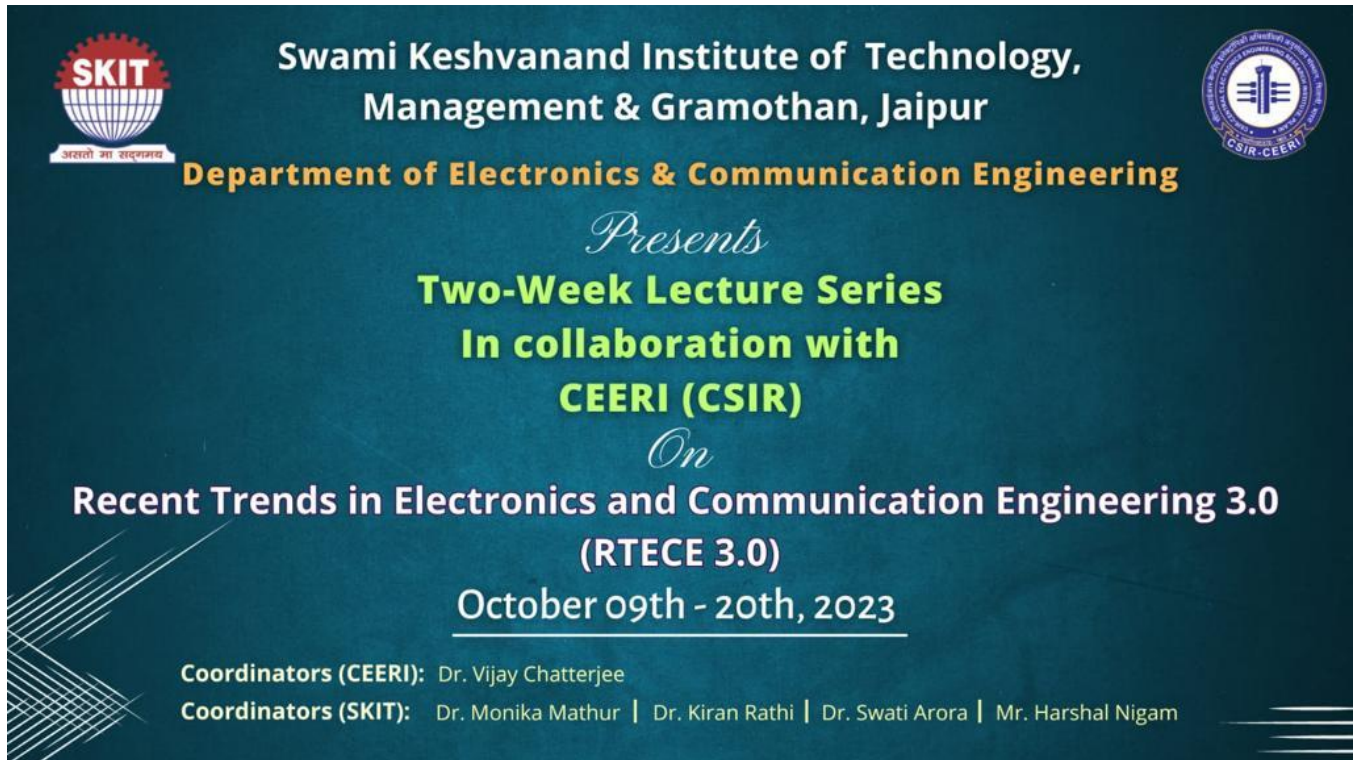
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Two Week Lecture Series Under the MOU of CEERI (1).docx

16K

### 3. Event Brochure



The brochure features a dark teal background with white and yellow text. On the left is the SKIT logo, and on the right is the CEERI (CSIR) logo. The text is centered and reads: 'Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur', 'Department of Electronics & Communication Engineering', 'Presents', 'Two-Week Lecture Series', 'In collaboration with', 'CEERI (CSIR)', 'On', 'Recent Trends in Electronics and Communication Engineering 3.0 (RTECE 3.0)', 'October 09th - 20th, 2023'. At the bottom, it lists coordinators for CEERI and SKIT.

**SKIT**  
असतो मा सद्गमय

Swami Keshvanand Institute of Technology,  
Management & Gramothan, Jaipur

**Department of Electronics & Communication Engineering**

*Presents*

**Two-Week Lecture Series**  
**In collaboration with**  
**CEERI (CSIR)**

*On*

**Recent Trends in Electronics and Communication Engineering 3.0**  
**(RTECE 3.0)**  
**October 09th - 20th, 2023**

**Coordinators (CEERI):** Dr. Vijay Chatterjee  
**Coordinators (SKIT):** Dr. Monika Mathur | Dr. Kiran Rathi | Dr. Swati Arora | Mr. Harshal Nigam



## 4. Schedule of the Event

<p style="text-align: center;"><b>Two Week Lecture Series in collaboration with CEERI(CSIR)</b>  <b>on</b>  <b>"Recent Trends in Electronics and Communication Engineering 3.0"</b>  <b>( Hybrid Mode)</b>  <b>9<sup>th</sup>-20<sup>th</sup> Oct 2023</b>  <b>Venue : J C BOSE Auditorium</b></p>							
S. N	Date	Day	Time	Topic	Type	Mode (Online/Offline)	Name of Faculty
1	09-Oct-23	1	9:30-10:00 AM	Inauguration			Dr Vijay Chatterjee Sr. Scientist CSIR-CEERI
			10:00-11:30 AM	Introduction of Skill Training program at CSIR-CEERI	Lecture	Offline	Dr Vijay Chatterjee Sr. Scientist CSIR-CEERI
2	10-Oct-23	2	12:30-2:00 PM	Overview of 5G Technologies and Beyond	Lecture	Online	Dr. Ing. Ayan Kumar Bandyopadhyay  Senior Principal Scientist  CSIR-CEERI
3	11-Oct-23	3	12:30-2:00 PM	Electromagnetics: The journey from Wires to Wireless	Lecture	Online	Dr. Rajendra Kumar Verma Sr. Scientist  CSIR-CEERI

## A Report on RTECE 3.0

4	12-Oct-23	4	11:30-12:30 PM	Hands-on HFSS Software for the simulation of different transmission Lines	Hands-on	Offline	Dr. Pallav Rawal  Asso. Prof.  ECE, SKIT
5	13-Oct-23	5	12:30-2:00 PM	Power Electronics application in renewable energy system	Lecture	Offline	Dr. Sachin Devassy Principal Scientist CSIR-CEERI
6	16-Oct-23	6	10:00-11:00 PM	About Incubation Cell, SKIT	Lecture	Offline	Mr. Ajay Dhanopia  ME Dept. SKIT
7	17-Oct-23	7	12:30-2:00 PM	<b>Visit to CEERI Jaipur Centre</b>	Lab Visit at CSIR-CEERI Jaipur Campus		
8	18-Oct-23	8	12:30-2:00 PM	Sensor Interfacing & its Signal Processing Conditioning circuits (with Examples)	Lecture	Offline	Mr. Navjot Kumar Sr. Scientist CSIR-CEERI

**A Report on RTECE 3.0**

9	19-Oct-23	9	11:30-12:30 PM	Microwave Antennas: Radiation Parameters and Basics	Lecture	Offline	Dr. Dinesh Yadav  ECE, Asso. Prof.  Manipal Univ.
10	20-Oct-23	10	12:30-2:00 PM	Hands on HFSS Software for simulation of different Microwave Antennas	Hands on	Offline	Mr. Harshal Nigam  Asst. Prof.  ECE, SKIT
11	20-Oct-23	10	2:00-2:30 PM	Valedictory Ceremony	-	Offline	<b>Guest of Honor from CSIR- CEERI</b>

### 5. List of Invited Guests and Speakers

S. No	Guest/Speakers	Name and Affiliation
1.	Guest of Honor	<b>Mr. Ashok Chauhan, Senior Principal Scientist &amp; Group Head, CEERI</b>
	Guest of Honor	<b>Dr Vijay ChatterjeeSr. Scientist CSIR-CEERI</b>
2.	Invited Speaker 1	<b>Dr. Ing. Ayan Kumar Bandyopadhyay Senior Principal Scientist CSIR-CEERI</b>
3.	Invited Speaker 2	<b>Dr. Rajendra Kumar VermaSr. Scientist CSIR-CEERI</b>
4.	Invited Speaker 3	<b>Dr. Pallav Rawal Asso. Prof. ECE, SKIT</b>
5.	Invited Speaker 4	<b>Dr. Sachin DevassyPrincipal Scientist CSIR- CEERI</b>
6.	Invited Speaker 5	<b>Mr. Ajay Dhanopia ME Dept. SKIT</b>
7.	Invited Speaker 6	<b>Dr Vijay ChatterjeeSr. Scientist CSIR-CEERI</b>
9.	Invited Speaker 7	<b>Dr. Ing. Ayan Kumar Bandyopadhyay Senior Principal Scientist CSIR-CEERI</b>

10.	Invited Speaker 8	<b>Mr. Navjot Kumar Sr. Scientist CSIR-CEERI</b>
11.	Invited Speaker 9	<b>Dr. Dinesh Yadav ECE, Asso. Prof. Manipal Univ.</b>
12.	Invited Speaker 10	<b>Mr. Harshal Nigam Asst. Prof. ECE, SKIT</b>

## 6. List of Participants (SKIT Students)

S.N	Roll	Name
1	21ESKEC001	Aakash Yadav
2	21ESKEC002	Aarohi Malsaria
3	21ESKEC003	Abhay Raj Shukla
4	21ESKEC004	Abhijeet Agarwal
5	21ESKEC005	Abhijeet Giri
6	21ESKEC007	Abhishek Kumar
7	21ESKEC008	Aditya Rawat
8	21ESKEC012	Ameen Zehra
9	21ESKEC013	Anmol Gupta
10	21ESKEC014	Anupam Jain
11	21ESKEC015	Arsh Lakhwal
12	21ESKEC016	Aryan Birla
13	21ESKEC017	Aryan Sharma
14	21ESKEC019	Bhavesh Agarwal
15	21ESKEC020	Chirag Gurnani
16	21ESKEC021	Deepanshu Khandelwal
17	21ESKEC022	Devang Joshi
18	21ESKEC023	Dishika Sharma
19	21ESKEC024	Diya Sharma
20	21ESKEC026	Hardik Sharma
21	21ESKEC027	Himanshu Agarwal
22	21ESKEC030	Jai Kumar Bisaria
23	21ESKEC031	Jai Prakash Anand
24	21ESKEC033	Karan Sharma
25	21ESKEC034	Karishma Kumawat
26	21ESKEC035	Khushi Rajawat
27	21ESKEC038	Lovesh Chhabra
28	21ESKEC039	Manav Singh
29	21ESKEC040	Mohit Ramnani
30	21ESKEC041	Naman Tak
31	21ESKEC042	Nandani Khandelwal
32	21ESKEC043	Navneet Kaur
33	21ESKEC046	Omisha Pareek
34	21ESKEC047	Piyush Yadav
35	21ESKEC049	Rahul Kumawat
36	21ESKEC050	Raj Tiwari
37	21ESKEC051	Ravi Kumar
38	21ESKEC052	Rohan Raj

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39	21ESKEC054	Ruchi Singh
40	21ESKEC056	Sanyam Bhura
41	21ESKEC057	Satvik Priyadarshi
42	21ESKEC058	Satyam Singh Sengar
43	21ESKEC059	Saurabh Mishra
44	21ESKEC060	Saxam Dixit
45	21ESKEC061	Shailendra Rathore
46	21ESKEC062	Shivansh Agarwal
47	21ESKEC063	Shivin Shyam Kasat
48	21ESKEC064	Shreya Jha
49	21ESKEC065	Siddharth Meena
50	21ESKEC066	Snehal Jain
51	21ESKEC068	Tariq Abdul Ghani
52	21ESKEC069	Ujjawal Sharma
53	21ESKEC070	Vanshaj Kataria
54	21ESKEC071	Varun Mathur
55	21ESKEC072	Vibhansh Jain
56	21ESKEC073	Vijay Jangid
57	21ESKEC074	Vikram Pal
58	21ESKEC075	Vishal Kumar
59	21ESKEC300	Jatin Bhagtani
60	21ESKEC301	Nitin Nagar
61	22ESKEC200	Arooja Hassan

## 7. Photos of the Event





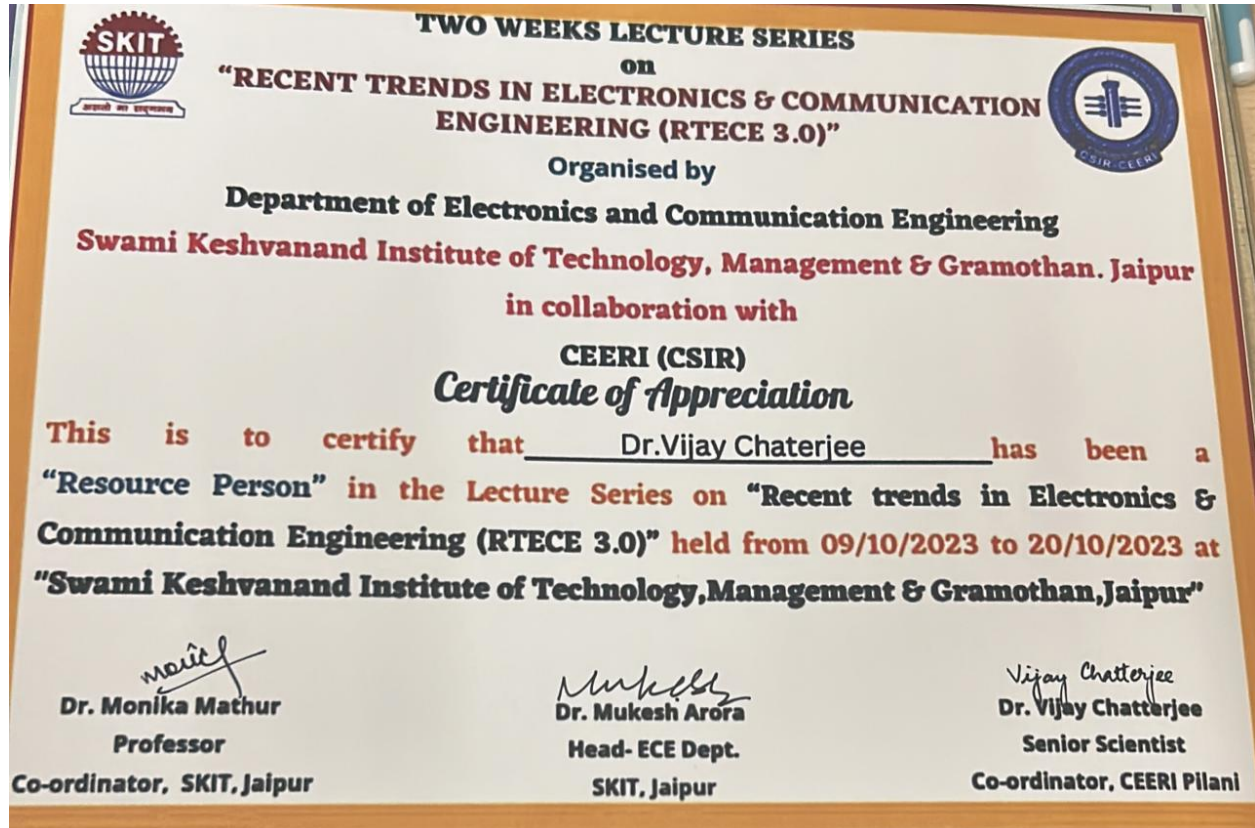






## 8. Sample Copy of Certificate

### Expert Certificate



## 9. Media Coverage



# एसकेआईटी में दो सप्ताह की व्याख्यान श्रृंखला का हाइब्रिड मोड में शुभारंभ

### P3 Police Public Politics

जयपुर। जगतपुरा स्थित स्वामी केशवानंद इंस्टीट्यूट ऑफ टेक्नोलॉजी में 'रिसेंट ट्रेड्स इन इलेक्ट्रॉनिक्स एंड कम्युनिकेशन 3.0' विषय पर सेंट्रल इलेक्ट्रॉनिक इंजीनियरिंग इंस्टीट्यूट (सी.ई.ई.री) के संयोजन से दो सप्ताह की व्याख्यान श्रृंखला का हाइब्रिड मोड में शुभारंभ हुआ। इस कार्यक्रम के उद्घाटन समारोह में संस्था के अकादमिक निदेशक प्रो. एस.एल. सुराणा, प्रिंसिपल प्रो. रमेश पचार तथा इलेक्ट्रॉनिक्स और कम्युनिकेशन विभाग के अध्यक्ष प्रो. मुकेश अरोड़ा, प्रो. प्रवीण कुमार जैन एवं समस्त फैकल्टी मौजूद रहे। इस

कार्यशाला का मुख्य उद्देश्य छात्रों को विषय का गहन ज्ञान प्रदान करते हुए प्रैक्टिकल विषयों से जोड़ना है। इस वाक्यांश श्रृंखला के समस्त व्याख्यान (सी.ई.ई.री) के विशेषज्ञों द्वारा लिए जाएंगे। कार्यक्रम के प्रथम दिन मुख्य अतिथि डॉ. विजय चटर्जी सीनियर साइंटिस्ट सी.ई.ई.री. (सी.एस.आई.आर) जयपुर कैंपस रहे, तथा मि. अशोक चौहान सीनियर साइंटिस्ट (सी.एस.आई.आर) सी.ई.ई.री.पिलानी ने ऑनलाइन मोड में सभी प्रतिभागियों को मार्गदर्शन प्रदान किया। प्रिंसिपल श्री रमेश प्रचार में सभी आगतकों का स्वागत किया। प्रो. एस.एल. सुराणा, ने इस क्षेत्र

में हो रहे विभिन्न अनुसंधानों तथा अनुप्रयोगों के बारे में छात्रों को अवगत करवाया। मुख्य अतिथि डॉक्टर विजय चटर्जी ने इलेक्ट्रॉनिक और कम्युनिकेशन क्षेत्र में चल रहे नवाचारों और सी.ई.ई.री पिलानी में चल रहे नवीन अनुसंधानों पर प्रकाश डाला। प्रो. मोनिका माथुर ने इस व्याख्यान श्रृंखला की रूपरेखा प्रस्तुत की तथा डॉक्टर स्वाति अरोड़ा ने धन्यवाद ज्ञापित किया इस कार्यक्रम के संयोजक प्रो. मोनिका माथुर, डॉ. किरण राठी, डॉ. स्वाती अरोड़ा एवं मि. हर्षल निगम रहे कार्यक्रम का संचालन मिस. ग्लोरिया जोसेफ व मि. हर्षल निगम के द्वारा किया गया।

श्रीअग्रवाल सेवा सदन से भव्य शोभायात्रा निकाली जाएगी। महोत्सव के तहत 17 अक्टूबर

राफाला जन साहव अन्य लाग माशूद रहे। मच संचालन कमल नानुवाला ने किया।

## 'रिसेंट ट्रेड्स इन इलेक्ट्रॉनिक्स एंड कम्युनिकेशन 3.0 पर कार्यशाला शुरू

आधुनिक समाचार दुनिया

**जयपुर।** जगतपुरा स्थित स्वामी केशवानंद इंस्टीट्यूट ऑफ टेक्नोलॉजी में रिसेंट ट्रेड्स इन इलेक्ट्रॉनिक्स एंड कम्युनिकेशन 3.0 विषय पर सेंट्रल इलेक्ट्रॉनिक इंजीनियरिंग इंस्टीट्यूट (सी.ई.ई.री) के संयोजन से दो सप्ताह की व्याख्यान श्रृंखला का हाइब्रिड मोड में शुभारंभ हुआ। इस कार्यक्रम के उद्घाटन समारोह में संस्था के अकादमिक निदेशक प्रो. एस.एल. सुराणा, प्रिंसिपल प्रो. रमेश पचार तथा इलेक्ट्रॉनिक्स और कम्युनिकेशन विभाग के अध्यक्ष प्रो. मुकेश अरोड़ा, प्रो. प्रवीण कुमार जैन एवं समस्त फैकल्टी मौजूद रहे। इस कार्यशाला का मुख्य उद्देश्य छात्रों को विषय का गहन ज्ञान प्रदान करते हुए प्रैक्टिकल विषयों से जोड़ना है। इस वाक्यांश श्रृंखला के समस्त व्याख्यान (सी.ई.ई.री) के विशेषज्ञों द्वारा लिए जाएंगे। कार्यक्रम के प्रथम



दिन मुख्य अतिथि डॉ. विजय चटर्जी सीनियर साइंटिस्ट सी.ई.ई.री. (सी.एस.आई.आर.) जयपुर कैंपस रहे, तथा मि. अशोक चौहान सीनियर साइंटिस्ट (सी.एस.आई.आर.) सी.ई.ई.री. पिलानी ने ऑनलाइन मोड में सभी प्रतिभागियों को मार्गदर्शन प्रदान किया। प्रिंसिपल श्री रमेश प्रचार में सभी आगतकों का

स्वागत किया। प्रो. एस.एल. सुराणा, ने इस क्षेत्र में हो रहे विभिन्न अनुसंधानों तथा अनुप्रयोगों के बारे में छात्रों को अवगत कराया। मुख्य अतिथि डॉक्टर विजय चटर्जी ने इलेक्ट्रॉनिक और कम्युनिकेशन क्षेत्र में चल रहे नवाचारों और सी.ई.ई.री पिलानी में चल रहे नवीन अनुसंधानों पर प्रकाश डाला। प्रो. मोनिका माथुर ने इस व्याख्यान श्रृंखला की रूपरेखा प्रस्तुत की तथा डॉक्टर स्वाति अरोड़ा ने धन्यवाद ज्ञापित किया इस कार्यक्रम के संयोजक प्रो. मोनिका माथुर, डॉ. किरण राठी, डॉ. स्वाती अरोड़ा एवं मि. हर्षल निगम रहे कार्यक्रम का संचालन मिस. ग्लोरिया जोसेफ व मि. हर्षल निगम के द्वारा किया गया।

## एसकेआईटी में व्याख्यान श्रृंखला शुरू

महानगर संवाददाता

**जयपुर।** स्वामी केशवानंद इंस्टीट्यूट ऑफ टेक्नोलॉजी में 'रिसेंट ट्रेड्स इन इलेक्ट्रॉनिक्स एंड कम्युनिकेशन 3.0' विषय पर सेंट्रल इलेक्ट्रॉनिक इंजीनियरिंग इंस्टीट्यूट (सी.ई.ई.री) के संयोजन से दो सप्ताह की व्याख्यान श्रृंखला का शुभारंभ हुआ।

व्याख्यान का शुभारंभ संस्था के अकादमिक निदेशक प्रो. एसएल सुराणा, प्रिंसिपल प्रो. रमेश पचार, इलेक्ट्रॉनिक्स और कम्युनिकेशन विभाग के अध्यक्ष



प्रो. मुकेश अरोड़ा, प्रो. प्रवीण कुमार जैन ने किया। कार्यशाला का मुख्य उद्देश्य छात्रों को विषय का गहन ज्ञान प्रदान करते हुए प्रैक्टिकल विषयों से जोड़ना है।

व्याख्यान के प्रथम दिन मुख्य अतिथि सी.ई.ई.री (सी.एस.आई.आर.) जयपुर के सीनियर साइंटिस्ट डॉ. विजय चटर्जी एवं पिलानी के सीनियर साइंटिस्ट अशोक चौहान

ने ऑनलाइन सभी प्रतिभागियों को मार्गदर्शन प्रदान किया।

मुख्य अतिथि डॉ. विजय चटर्जी ने इलेक्ट्रॉनिक और कम्युनिकेशन क्षेत्र में चल रहे

नवाचारों और सी.ई.ई.री पिलानी में चल रहे नवीन अनुसंधानों पर प्रकाश डाला। प्रो. मोनिका माथुर ने व्याख्यान श्रृंखला की रूपरेखा प्रस्तुत की।

प्रो. एसएल सुराणा ने विभिन्न अनुसंधानों एवं अनुप्रयोगों के बारे में छात्रों को अवगत कराया। इससे पूर्व प्रिंसिपल रमेश प्रचार में सभी आगतकों का स्वागत किया। डॉ. स्वाति अरोड़ा ने धन्यवाद ज्ञापित किया। इस दौरान कार्यक्रम संयोजक प्रो. मोनिका माथुर, डॉ. किरण राठी, हर्षल निगम ग्लोरिया जोसेफ आदि मौजूद रहे।

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**जयपुर।** स्वामी केशवानन्द इंस्टीट्यूट ऑफ टेक्नॉलजी में CEERI के सहयोग से चल रही दो सप्ताह की व्याख्यान शृंखला के अंतर्गत पंचम सेमिस्टर के छात्रों ने जयपुर स्थित CEERI की प्रयोगशाला को निरीक्षण किया। वहाँ छात्रों ने कई नई उन्नत तकनीकों के बारे में जाना। डॉ. विजय चटर्जी ने विभिन्न योजनाओं से अवगत करवाया। निरीक्षण के दौरान व्याख्यान शृंखला के समन्वयक प्रो. मोनिका माथुर, किरण राठी, स्वाति अरोड़ा एवं हर्षल निगम उपस्थित रहे।

**ये भी पढ़ें - अपने राज्य / शहर की खबर अखबार से पहले पढ़ने के लिए क्लिक करें**

Advertisement



## 10. Technical Report

- This Two Week Lecture Series on Recent Trends in Electronics and Communication Engineering, RTECE 3.0 was jointly organized by Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur in collaboration with CEERI (CSIR) from 9 to 20 October, 2023
- **Mr. Ashok Chauhan, Senior Principal Scientist & Group Head, CEERI and Dr Vijay Chatterjee, Senior Scientist, Head Skill Development Unit and Technology Business Development Unit CSIR-CEERI Jaipur Campus were the Guest of Honor.** The Inauguration ceremony also witnessed the presence of Prof. S.L Surana (Director, Academics), Prof. Mukesh Arora (Head, ECE), Prof. Praveen K. Jain (Dy.Head, ECE, SKIT), Dr. Monika Mathur, Dr. Swati Arora, Dr Kiran Rathi, Mr. Harshal Nigam and other faculties and students of the department.
- On the first day , Dr Vijay Chatterjee delivered an expert talk on Introduction of skill training programs at CSIR (CEERI)
- Second day started with an expert online talk by Dr. Ing. Ayan Kumar Bandyopadhyay, Senior Principal Scientist, CSIR-CEERI. He enlightened all with Overview of 5G Technologies and Beyond
- Third day started with an expert online lecture of Dr. Rajendra Kumar Verma , Sr. Scientist CSIR-CEERI. He gave insight on the topic Electromagnetics journey from Wires to Wireless
- The fourth day started with a Hands on by Mr. Harshal Nigam, Asst Prof. SKIT Jaipur, on HFSS software, including the basic calculation technique used for simulation by the software
- Day 5 started again with the session of Dr. Sachin Devassy, Principal Scientist CSIR-CEERI. He enlightened with the knowledge of **Power Electronic application in renewable energy systems**
- Day 6 started again with the session of Mr. Ajay Dhanopia, SKIT Jaipur. He gave the insight about Incubation cell in SKIT Jaipur
- Day 7 included the visit at CEERI Pilani, Jaipur Center
- Day 8 started again with the session of Mr. Navjot Kumar ,Sr. Scientist CSIR-CEERI. He gave a lecture on the topic Sensor interfacing and signal processing
- Finally the last session ended with a hands on session by Dr. Pallav Rawal, Associate Prof. SKIT Jaipur on CST Software for Electromagnetic simulation



- The discussed areas were of great benefit for the participants as they are enlightened with the most widely used advance tools, strategies and techniques being used in the field of Electromagnetics