



Swami Keshvanand Institute of Technology, Management & Gramothan

**Approved by AICTE, Ministry of HRD, Government of India
Recognized by UGC under Section 2(f) of the UGC Act, 1956
Affiliated to Rajasthan Technical University, Kota**

*Center of Excellence
in
“Internet of Things (IoT)”*

🏠: RAMNAGARIA (JAGATPURA), JAIPUR-302017 (RAJASTHAN), INDIA
☎: +91-141-3500300, 2752165, 2759609 | 📠: 0141-2759555
✉: info@skit.ac.in | 🌐: www.skit.ac.in

TABLE OF CONTENTS

- **Introduction**
- **Vision**
- **Aim**
- **Objectives**
- **Event Report: 5th International Conference On “Emerging Technologies in Computer Engineering: Cognitive Computing and Intelligent IoT” (ICETCE-2022)**
- **Event Report: One Week FDP (Online) On Arduino-an open source electronics microcontroller**
- **Event Report: Two Weeks IN-HOUSE INTERNSHIP on Introduction to Internet of Things**
- **Event Report: Summer Internship-2021**

Introduction

This Internet of Things lab was established in 2020-21 as the Centre of Excellence (CoE) for Internet of things (IoT) at SKIT, Jaipur, Rajasthan as a part of the Digital India Initiative to jump-start the IoT ecosystem. The department of Computer Science & Engineering and Information Technology aims at educating and training students with sound knowledge and awareness of recent developments in the Internet of Things technology. It is a well-equipped laboratory with the latest hardware and software including Raspberry Pi (Minicomputers), Arduino Uno R3 Microcontroller Boards, Xilinx Vivado Design Software Suite for high-level Synthesis, Nexys 4 DDR FPGA Boards, ZYBO FPGA boards, NODEMCU ESP8266 -12 CH340 Wireless Micro-Controller Boards, Proteus Simulator for Industrial IoT, Lab View Software for System Design and Analysis, NI MYRIO (Mechatronics kits, Embedded Kits, Starter kits), MY RIO 1900 Microcontroller Boards, etc., which complement the high standards of the Institute. The Centre of Excellence also comprises distributed facilities within the campus such as E-Yantra lab, Printed Circuit Board (PCB) Lab, Field Programmable Gate Arrays (FPGA) Lab, etc for developing Industry 4.0 Standard IoT-enabled products.

Experts from the industry are periodically invited to give lectures/demonstrations to the students /faculty members on the latest developments in the field. Students are given exposure to industries through industrial visits and industrial training sessions. The Centre organized and propose specific FDP, conferences, Short Term training programs, and workshops for benefit of students and research fellows' start-ups.

Vision:

The Centre of Excellence in near future will be able to enable it as innovation hub with proper standardization, realization of prototypes, and provide complete support to the solutions for IoT applications. It will help entrepreneurs by providing ideas, research, and development facilities to build up the Atmnirbhar bharat.

Aim:

The aims of the CoE-IoT are to enable India as the innovation hub in the emerging technology of Internet of Things through democratization of Innovation, Standardization, Realization of prototype, products before deployment of the IoT devices in the public domain/ infrastructure and support Government Initiatives on IoT solutions for specific areas like water, energy, agriculture, health, security, and privacy of data.

Objectives:

The main objective of the centre is to create innovative applications and domain capability by harnessing the innovative nature of start-up community and leveraging the experience of corporate players.

The other objectives are as follows:

1. To create innovative applications and domain capability across vertical for country's needs such as Smart City, Smart Health, Smart Manufacturing, Smart Agriculture, and others.
2. To build industry capable talent, start-up community, and entrepreneurial ecosystem for IoT.
3. To provide an ecosystem for innovation to thrive and embrace entrepreneurship.
4. To energise research mind-set and reduce cost in Research and Development by providing neutral and interoperable, multi technology stack laboratory facilities.
5. To reduce import dependency on IoT components and promote indigenization.
6. To promote Indianisation by providing development facilities to researchers as well as to those who need to develop prototypes using reverse engineering and the required library of equivalent components.

5th International Conference
On
**“Emerging Technologies in Computer Engineering:
Cognitive Computing and Intelligent IoT”**
(ICETCE-2022)
04th-05th February, 2022

RTU Recognized Centre of Excellence (CoE)
“INTERNET OF THINGS”

PUBLICATION PARTNER: Springer CCIS Series (Scopus Indexed)

Contributors:

IBM, Infosys Campus Connect, Natural Group



Infosys® | Campus Connect



CONFERENCE REPORT

Organized By:

IOT-RC (Centre of Excellence)

**Department of Computer Science & Engineering & Department of Department of
Department of Information Technology (NBA Accredited)**

Swami Keshvanand Institute of Technology, Management & Gramothan, Jagatpura, Jaipur-

302019 Telephone: 0141-3500300 (Ext. 286, 284, 213), Fax: 014-2759555

Website: www.icetce.skit.ac.in/2022

GENERAL CHAIR	TECHNICAL PROGRAM CHAIR	CONFERENCE CHAIR	PROGRAMME AND SCIENTIFIC COMMITTEE CHAIR	ORGANIZING CHAIR
Prof. Seeram Ramakrishna, Vice President Research Strategy, Professor, Faculty of Engineering National University of Singapore (NUS), Singapore.	<ol style="list-style-type: none"> 1. Prof. (Dr.) Valentina E. Balas, “Aurel Vlaicu” University of Arad, Romania. 2. Prof. (Dr.) G. R. Sinha, MIIT Mandalay, Myanmar. 3. Dr. Basant Agarwal, Indian Institute of Information Technology Kota (IIIT Kota), India. 4. Prof. (Dr). Tarun Kumar Sharma, Dean, Shobhit University, Gangoh, Saharanpur, India 5. Dr. Pankaj Dadheech, Associate Professor (CSE), SKIT, India 6. Dr. Mehul Mahrishi, Associate Professor (IT) SKIT, Jaipur 	Prof. (Dr.) Arun K. Somani, Associate Dean for Research, College of Engineering, Iowa State University, Ames, USA.	Prof. (Dr.) Mukesh Kumar Gupta, Professor & Head, Department of Computer Science & Engineering, SKIT, Jaipur	<p>Prof. (Dr.) Anil Chaudhary, IEEE SM: 90508967 , Head, Department of Information Technology, SKIT</p> <p>Dr. C. M. Choudhary, Professor, Department of Computer Science & Engineering, SKIT</p>

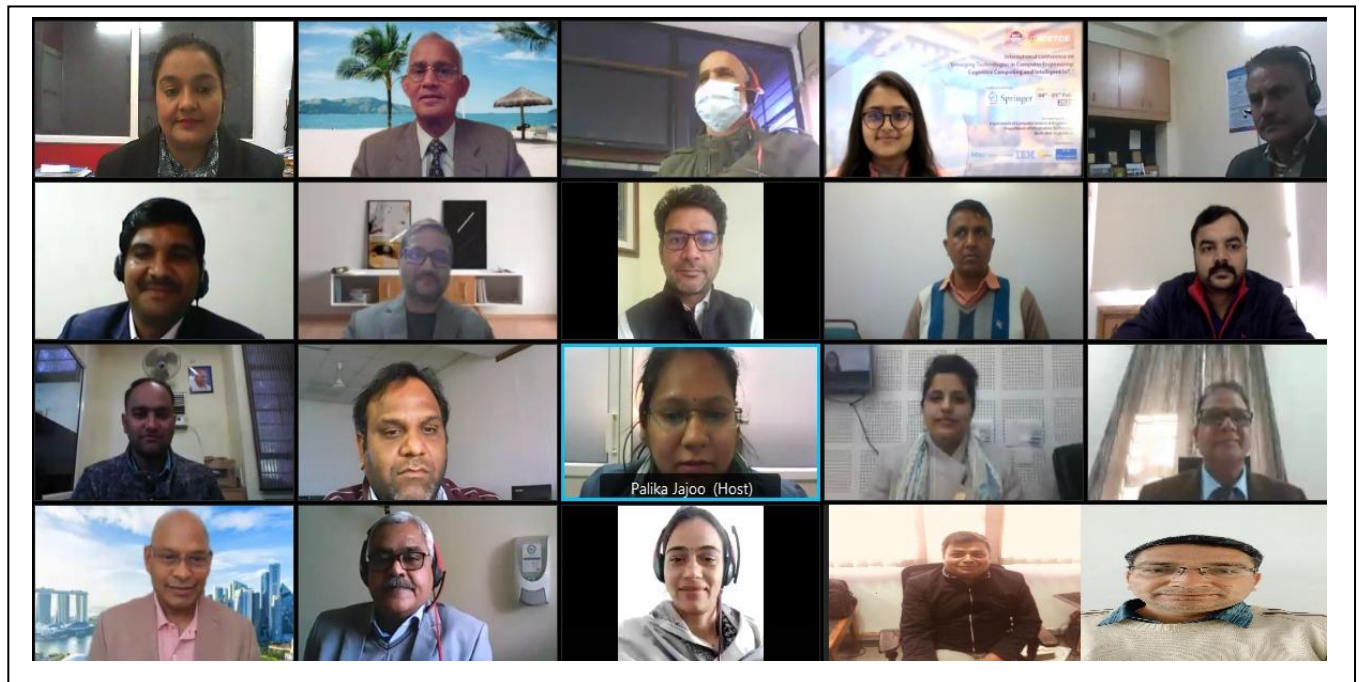
	AUTHOR/OWNER	REVIEWED BY	APPROVED BY
NAME	<ol style="list-style-type: none"> 1. Ms. Anjana Sangwan, Associate Professor, CSE Department, SKIT 2. Ms. Sanju Choudhary, Associate Professor, IT Department, SKIT 3. Ms. Priyanka, Assistant Professor, CSE Department, SKIT 	<ol style="list-style-type: none"> 1. Mr. M. K. Beniwal, Associate Professor, CSE Department, SKIT 2. Mr. Sunil Dhankar, Associate Professor, CSE Department, SKIT 	<ol style="list-style-type: none"> 1. Prof. (Dr.) Anil Chaudhary, HOD, IT Department, SKIT 2. Dr. C. M. Choudhary, Professor, CSE Department, SKIT
DESIGNATION	SECRETARY	COORDINATOR	CONVENER

E-mail: icetce@skit.ac.in, Website: <https://icetce.skit.ac.in/2022>

TABLE OF CONTENTS

AUTHOR/OWNER	2
REVIEWED BY	2
APPROVED BY	2
GLIMPSES OF ICETCE-2022	4
OVERVIEW OF ICETCE-2022	7
1. Introduction:	5
2. Two Days International Conference on “Emerging Technologies in Computer Engineering: Cognitive Computing and Intelligent IoT” ICETCE-2022 (04th-05th Feb. 2022)	8
INAUGURATION	8
Plenary Talks.....	9
Track-1.....	9
Track-2.....	11
Track-3.....	13
Track-4.....	18
Track-5.....	21
Track-6.....	23
Wrap Up and Valedictory Session.....	25
CONFERENCE OUTCOMES	25
<i>NEWS & MEDIA</i>	26

GLIMPSES OF ICETCE-2022



Sumit Srivastava is presenting

State of Technology, Management & Gramothan, Jaipur

ROAD CRASHES IN RAJASTHAN WITH DETAILED ANALYSIS OF JAIPUR DISTRICT

Rank	State	% Share	Killed
1	Uttar Pradesh	15.0	22655
2	Maharashtra	8.5	12788
3	Madhya Pradesh	7.4	11249
4	Karnataka	7.3	10958
5	Rajasthan	7.0	10563
6	Tamil Nadu	7.0	10525
7	Andhra Pradesh	5.3	7984
8	Gujarat	4.9	7380
9	Bihar	4.8	7205
10	Telangana	4.6	6964

Table 4 Percentage Share of Fatalities During Year 2019. Source: Transport Department, Rajasthan

Fig. Road Accidents and Injuries in Rajasthan (2015 - 2019) Source: Transport Department

Fig. Persons Killed in Road Accidents in Rajasthan (2015-2019) Source: Transport Department

Springer CCIS | IBM Academic Initiative | Infosys Campus Connect | Natural Group

10:40 AM | hjw-tcr-0fg

Track 2 ML and Ap...pdf

Show all

11:04 AM 04-02-2022

Dr.Chitra Desai is presenting

Data Pre-processing

- There are no null values in the dataset.
- There are 90 duplicate values in the dataset.
- The duplicate values are dropped and the number of instances is reduced to 1696 instances.
- The dataset as mentioned earlier consists of 2 columns - text and label.
- In this dataset, the label is our target variable.
- The target variable consists of four unique classes - The value count across each class - accounts is 284, biology is 595, geography is 93, physics is 724 as shown in the figure.
- It is observed the data is highly imbalanced.

Springer CCIS | IBM Academic Initiative | Infosys Campus Connect | Natural Group

11:50 AM | kwm-evrc-yfs

People

Add people

Search for people

In call

- Sunita Gupta (You)
- Ab Basit Ahanger
- Anjali Pandey
- Anjali Pandey
- Ashish Pant
- Dolly Mittal
- Dr. Neha Janu

Arun Somani is presenting

Neural Architecture Search: A Hardware Perspective*

Arun K. Somani
Distinguished Professor of Electrical and Computer Engineering
Associate Dean for Research, College of Engineering
Philip and Virginia Sproul Professor
Iowa State University, Ames, IA, USA

*This work is based on PhD dissertation of Mr. Krishna Teja Chitty-Venkata. These slides are copyrighted. If used for any purpose, they should be acknowledged/referenced as below. Arun K. Somani and Krishna Teja Chitty-Venkata, "Neural Architecture Search: A Hardware Perspective," A talk delivered as part of Confluence-22 Conference held at Amity University Uttar Pradesh, Jan 27, 2022.

9:01 AM | Track-4: cognitive Computing

People

Mute all Add people Host controls

Search for people

In call

- Dolly Mittal (You) Meeting host
- Arun Somani
- Arun Somani Presentation
- Deepa Modi
- Diwakar Sharma

material - rastogi.rish@gmail.com x Meet - yov-xanf-yfm x

meet.google.com/yov-xanf-yfm?pli=1

sunil kumar is presenting

Algorithm 2

Algorithm 2 Mining

Input: PD: Partition Database, M-U: Minimum Utility, M-P: Minimum Probability
Output: PHUI's at a worker node

- 1: Create PU-list for each item
- 2: **for all** item in PU-list **do**
- 3: **if** Utility(item) \geq M-U and Pro(item) \geq M-P **then**
- 4: PHUI \leftarrow item
- 5: **end if**
- 6: **end for**
- 7: Generate projected dataset
- 8: Mining(itemset, PU-list, projected dataset, M-U, M-P)

Presented By: Sunil Kumar (Central University of Rajasthan) ICETCE February 3, 2022 16/25

09:32 | yov-xanf-yfm

Type here to search

sunil kumar, Priyanka Sharma, Dr. Krishna K. ..., Vinod Kataria, Khongdet Pha..., Nikhar Bhatnag..., Sunil Dhankhar, 10 others, You

ENG IN 9:32 AM 2/5/2022

Search re: x (5) What: x Schedule: x Attendee: x Meet: x Schedule: x floating: x Fixed and: x Fixed poi: x Decimal: x

meet.google.com/sry-trhj-xpa

Sukhwinder Sharma is presenting

Paper ID: 068

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

ICETCE

Penetration Testing Framework (PTF):

- **Generalized Deterministic Environment** having set of input output parameters
- Mixture of well-known benchmarked network parameters
 - a) **radio model** considered for deciding how the energy dissipation will be calculated based on the node deployment and data transmission in the network,
 - b) **network model** indicating the physical parameters about the network size, number of nodes and types, their placement along with that of the sink node,
 - c) **performance metrics**, and
 - d) **simulation setup**

Activate Windows
Go to Settings to activate Windows.

Springer CCIS | IBM Academic Initiative | Infosys Campus Connect | Natural Group

10:37 AM | sry-trhj-xpa

Sukhwinder Sh..., Khongdet Pha..., Rubal Deep Gill, Pawan Jangir, Pravin Kshirsag..., Dr. Pankaj Dad..., Rajiv Singh, 16 others, You

10:37 AM 2/5/2022

OVERVIEW OF ICETCE-2022

1. Introduction:

First National Conference started in 2011. This conference aims to provide a stage for expert technical exchanges and exhibition regarding the advanced technologies, equipments, techniques, and innovations applied in the field of Computer Engineering.

It has attracted government officials, multinational experts, managers, researchers and technocrats in a relevant field to discuss together their ideas and experiences.

First International Conference started in 2018. The Organizing Committee of 5th International Conference ICETCE-2022, with its utmost sincerity, intends to invite all the related experts and scholars worldwide to attend the Conference and to realize the most extensive exchanges and discussion in this field.

Vision

“To contribute to the Research Community through excellence in scientific and technical research; to serve as a valuable resource, platform for industry and society; and remain a source of pride for researchers.”

Mission

“To advance the state of the art in Computer Engineering and to bring those advances in benefit of Society’s businesses.”

5th INTERNATIONAL CONFERENCE

2. Two Days International Conference on “Emerging Technologies in Computer Engineering: Cognitive Computing and Intelligent IoT” (ICETCE-2022). (04th -05th Feb. 2022).

INAUGURAL CEREMONY

CONFERENCE CHAIR - Prof. (Dr.) Arun K. Somani, Associate Dean for Research, College of Engineering, Iowa State University, Ames, USA.

GENERAL CHAIR - Prof. Seeram Ramakrishna, Vice President Research Strategy, Professor, Faculty of Engineering National University of Singapore (NUS), Singapore.

CHIEF GUEST - Prof. (Dr.) R. A. Gupta, Hon'ble Vice-Chancellor, Rajasthan Technical University, Kota

GUEST OF HONOUR – Dr. Mani Madhukar, Program Manager, Global University Programs, IBM Research

INAUGURATION

The inaugural ceremony on the first day of the 5th International Conference on “Emerging Technologies in Computer Engineering: Cognitive Computing and Intelligent IoT”

At the start, Welcome Note given by Prof. (Dr). S. L. Surana - Director (Academics), SKIT, Jaipur then the Journey of ICETCE presented by Prof. (Dr.) Arun K. Somani, Conference Chair, followed by Conference Introductory Speech by Prof. (Dr.) Anil Chaudhary, Organizing Chair, ICETCE-2022. Motivational Talks were given by Chief Guest Prof. (Dr.) R. A. Gupta, Hon'ble Vice-Chancellor, Rajasthan Technical University, Kota, Guest of Honor Dr. Mani Madhukar, and Prof. Seeram Ramakrishna, General Chair, ICETCE-2022. At the end of the inaugural, a Vote of Thanks was given by Prof. (Dr.) C. M. Choudhary, Organizing Chair, ICETCE-2022. With a focus on the health of the research environment and of the research literature, the theme of the Conference is Cognitive Computing and Intelligent IoT.

PLENARY TALKS

Plenary Talk-I on the topic ‘How to Optimize ROI’ was given by Conference Chair- Prof. (Dr.) Arun K. Somani, Associate Dean for Research, College of Engineering, Iowa State University, Ames, USA.

Plenary Talk-II on the topic ‘Lessons via COVID19 Lens’ was given by General Chair- Prof. Seeram Ramakrishna, Vice President Research Strategy, Professor, Faculty of Engineering National University of Singapore (NUS), Singapore.

Track-1

Track-1: Internet of Things (IoT)

Keynote Session

Track-1: Internet of Things (IoT)

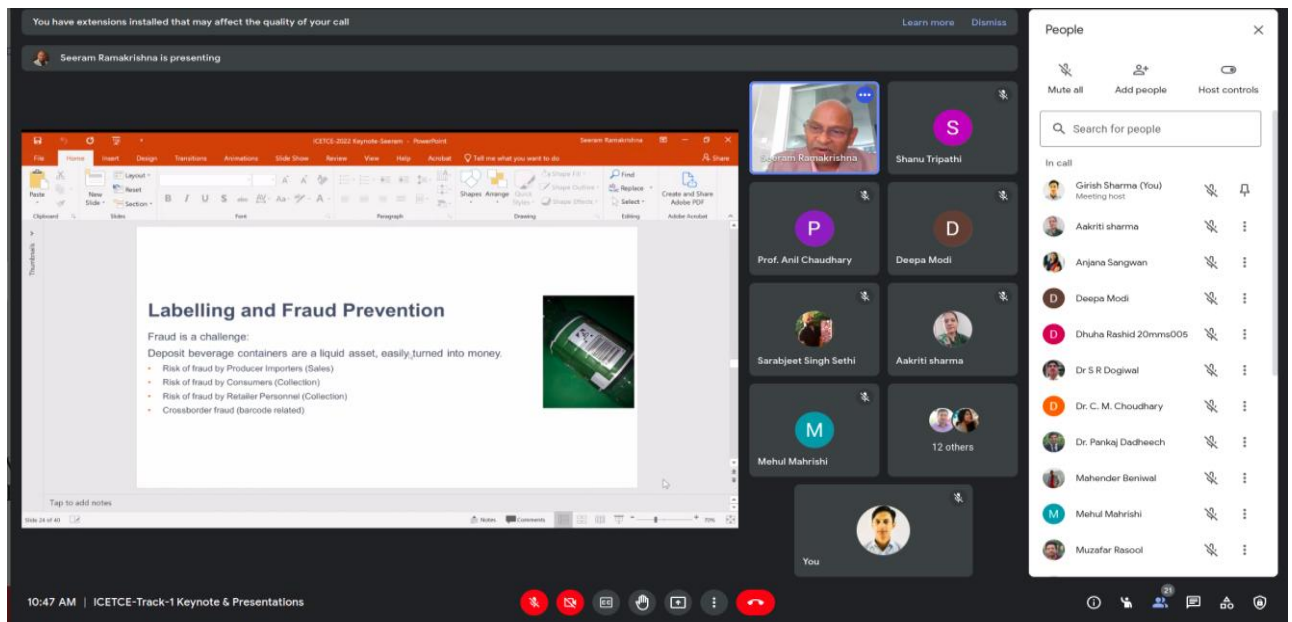
Keynote (10:30 am - 11:00 am): Prof. Seeram Ramakrishna, Vice President Research Strategy, Professor, and Faculty of Engineering National University of Singapore (NUS).

Topic of Talk: BioTech Befriending Circular Economy.

The screenshot shows a Zoom meeting interface. The main window displays a presentation slide titled "BigTech Befriending Circular Economy" with the URL <https://go.nature.com/3rRVDde>. The slide also mentions Prof. Seeram Ramakrishna, FRC, Emeritus Chair, Professor @ National University of Singapore, and his contact information. The Zoom interface includes a grid of participants on the right, a search bar, and a list of people in the call. The bottom status bar indicates "1 Keynote & Presentations".

- Prof. Seeram has talked about the multidisciplinary domains such as ML, IoT, Fraud Detection and security.
- He has discussed that how a computer program can detect people who are at higher risk of developing depression.
- He has also talked about some new concepts like ESG, Zero Carbon society and Greenwashing.
- He has emphasized about the plastic waste management & wearable device in healthcare.

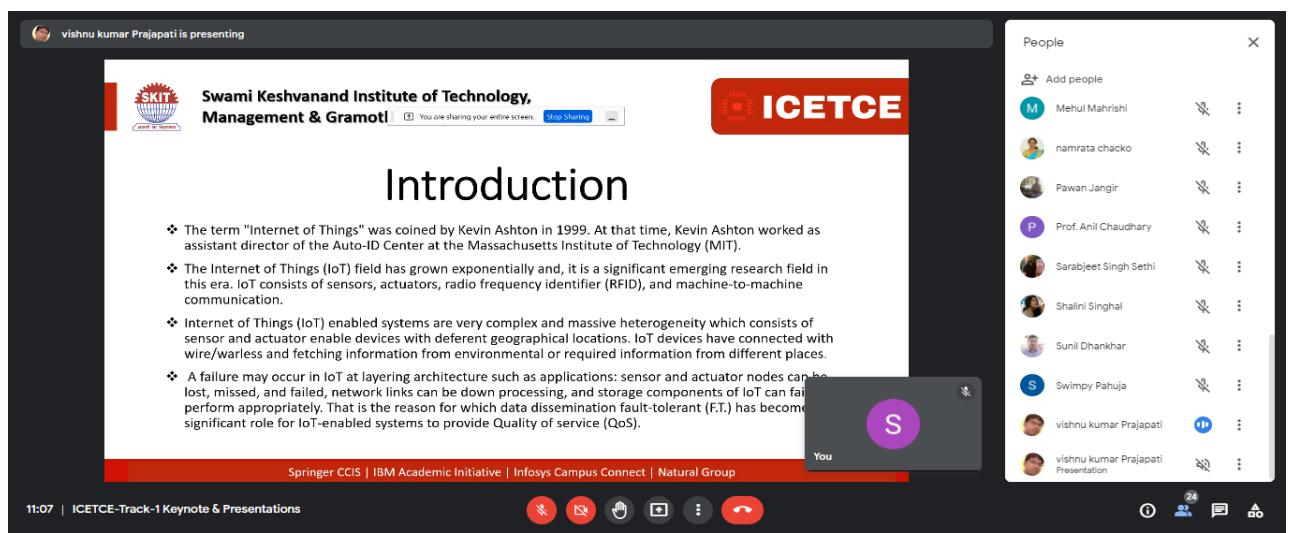
The screenshot shows a Zoom meeting interface. The main window displays a presentation slide titled "Plastic Labelling/Tagging - Watermarking of Plastics". The slide illustrates a process flow from "Molecular sequence marking" to "Product", "Tagging with a digital block chain record", "Market place", "Plastic waste", "Segregation", "Molecular analysing", "Utility inspection", "Recycle", and "Base material to other industries". The Zoom interface includes a grid of participants on the right, a search bar, and a list of people in the call. The bottom status bar indicates "10:46 AM | ICETCE-Track-1 Keynote & Presentations".



Technical Session Chaired by:

- 1. Dr. ManjuKaushik**, Associate Professor, Amity Institute of Information Technology (AIIT)
- 2. Dr. AbhishekVerma**, Assistant Professor, IIIT Jabalpur, Madhya Pradesh, India.

SCREENSHOTS OF THE PRESENTATIONS



- 10 Papers were presented in this Track of Technical Session.

Track-2

Machine Learning and Applications

Keynote by- Dr. Sumit Srivastava, Professor, Manipal University, Jaipur & Senior Member, IEEE Delhi Section (10:30-11:00).

Topic: Machine Learning Model for the Road Accidents.

Technical Session Chaired by:

1. Dr. Sudha Morwal, Associate Professor, Department of Computer Science, Banasthali Vidhyapith, Rajasthan, India.

2. Dr. Megha Chhabra Grover, Assistant professor, Department of Computer Science, Sharda University, UP, India

The screenshot displays a Google Meet interface during a presentation. The main window shows a slide titled "Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur Department of CSE & IT" with the text "Welcome to Track-02(Machine Learning and Applications)". The presentation is being shared by Dr. Nilam Choudhary. The right sidebar shows a grid of participants: Sumit Srivastava, Dr. Meenakshi Nawal, Dr. Nilam Choudhary, bhagyashree choug..., babita dhanwal, Megha Chhabra, and You. The bottom status bar shows the time as 10:34 AM and the meeting ID as hjw-tcr-0fg. The Windows taskbar at the bottom shows the date as 04-02-2022.

Sumit Srivastava is presenting

SKIT Institute of Technology,
Management & Gramothan, Jaipur

ICETCE

ROAD CRASHES IN RAJASTHAN WITH DETAILED ANALYSIS OF JAIPUR DISTRICT

Rank	State	% Share	Killed
1	Uttar Pradesh	15.0	22655
2	Maharashtra	8.5	12788
3	Madhya Pradesh	7.4	11249
4	Karnataka	7.3	10958
5	Rajasthan	7.0	10563
6	Tamil Nadu	7.0	10525
7	Andhra Pradesh	5.3	7984
8	Gujarat	4.9	7390
9	Bihar	4.8	7205
10	Telangana	4.6	6964

Table 4 Percentage Share of Fatalities During Year 2019. Source: Transport Department, Rajasthan

Fig. Road Accidents and Injuries in Rajasthan (2015 - 2019) Source: Transport Department

Fig. Persons Killed in Road Accidents in Rajasthan (2015-2019) Source: Transport Department

Springer CCIS | IBM Academic Initiative | Infosys Campus Connect | Natural Group

10:40 AM | hjw-tcr-0fg

Track 2 ML and Ap...pdf

Show all

Sumit Srivastava is presenting

SKIT Institute of Technology,
Management & Gramothan, Jaipur

ICETCE

DATA SOURCES FOR ANALYSING ROAD CRASHES

Cause	Accidents	Killed	Injured
Overspeed	3695	1215	3162
Drunken Driving	68	11	43
Wrong Side Driving	142	41	135
Red Light Jump	1	0	0
Using Mobile	6	4	4
TOTAL	3912	1271	3344

Table Accidents, Deaths, and Injured According to Cause in Jaipur (2018). Source: Transport Department

Fig. Percentage Share of Deaths According to Cause of Accident in Jaipur (2018)

Springer CCIS | IBM Academic Initiative | Infosys Campus Connect | Natural Group

10:46 AM | hjw-tcr-0fg

ACFrOgAKsuU6Kqj...pdf

Track 2 ML and Ap...pdf

Show all

- 13 Papers were presented in this Track of Technical Session.

Track 3

Soft Computing

Technical Session (10:30-1:30)

Total 12 papers were presented in this session.

Technical Session Chaired by:


1. **Dr. Mithlesh Arya**, Poornima College of Engineering, Jaipur, Rajasthan, India.
2. **Mr. Gaurav Meena**, Assistant Professor, Central University of Rajasthan, India.


The screenshot shows a Zoom meeting in progress. The main window displays a presentation slide titled "TEST SYSTEM" from Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur. The slide features a complex diagram of a power system with various components and labels. Below the diagram, it specifies: Base Voltage: 12.66 kV, Base MVA: 100 MVA, System Load: 3802.1 kW and 2694.6 kVar. The slide is attributed to Fig. IEEE 69-bus test system. The presentation is being shared by Gunjan Sharma, as indicated by the status bar at the top. The bottom of the screen shows a grid of participant tiles: Gunjan Sharma (active), Nidhi Srivastva, Gaurav Meena, Dolly Mittal, 13 others, and You. A sidebar on the right lists participants in the call, including Sunita Gupta (You), Ab Basit Ahanger, Ashish Pant, Dolly Mittal, Dr. Neha Janu, Dr. Pankaj Dadheech, and Garima Gupta. The time is 10:50 AM and the meeting ID is kwm-evrc-yfs.

The screenshot shows a Zoom meeting in progress. The main window displays a presentation slide titled "An Analytical Method for Optimal Allocation of Renewable Based DGs at Different Penetration Level" by Dr. Sarfaraz Nawaz, Gunjan Sharma, with the email gunjansmay10@gmail.com. The slide is attributed to Springer CCIS | IBM Academic Initiative | Infosys Campus Connect | Natural Group. The presentation is being shared by Gunjan Sharma, as indicated by the status bar at the top. The bottom of the screen shows a grid of participant tiles: Gunjan Sharma, Nidhi Srivastva, Gaurav Meena, Mithlesh Arya (active), 15 others, and You. A sidebar on the right lists participants in the call, including Sunita Gupta (You), Ab Basit Ahanger, Anjali Pandey, Ashish Pant, Dolly Mittal, Dr. Neha Janu, and Dr. Pankaj Dadheech. The time is 10:54 AM and the meeting ID is kwm-evrc-yfs.

meet.google.com/kwm-evrc-yfs

Ab Basit Ahanger is presenting


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



Introduction

- The main goal of recommendation systems is to suggest the most relevant items to the users as accurately as possible to the best satisfaction of the user through analysis of their preferences by observing their interactions (clicks, ratings, likes etc) with the system in question.
- As the prediction accuracy of recommender systems rose, research focus shifted to making recommendations more fair, diverse, novel and serendipitous
- User satisfaction in popular trend suggestions is of the same order of magnitude as the suggestions made by state of the art recommender systems with lower cost of development and maintenance

Springer CCIS | IBM Academic Initiative | Infosys Campus Connect | Natural Group

Ab Basit Ahang... Prashant Acha... Sunita Gupta Pushpa Koranga 14 others You

11:21 AM | kwm-evrc-yfs

People

Add people


Search for people


In call

- Sunita Gupta (You)
- Ab Basit Ahanger
- Ab Basit Ahanger Presentation
- Anjali Pandey
- Ashish Pant
- Dolly Mittal
- Dr. Neha Janu

meet.google.com/kwm-evrc-yfs

Ab Basit Ahanger is presenting


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



Model Based and Reranking Techniques

- The two most widely used techniques in literature are model based and re-ranking techniques
- In Model Based technique, the objective function is modified to adjust for item popularity in final rating prediction.
- The re-ranking technique is a post processing method where the recommendations produced by a RS are reordered to minimize the effect of popularity bias

Springer CCIS | IBM Academic Initiative | Infosys Campus Connect | Natural Group

Ab Basit Ahang... Prashant Acha... Sunita Gupta Pushpa Koranga 18 others You

11:29 AM | kwm-evrc-yfs

People

Add people

Search for people

In call

- Sunita Gupta (You)
- Ab Basit Ahanger
- Ab Basit Ahanger Presentation
- Anjali Pandey
- Anjali Pandey
- Ashish Pant
- Dolly Mittal

Meet - Day 1 Track 3 International Conference

meet.google.com/kwm-evrc-yfs?pli=1&authuser=0

Syed Wajid Aalam is presenting

Introduction

- Recommender systems are part of our lives as these help in decision making, information retrieval, listening to preferred music, and a lot more.
- Recommender systems mostly rely on historical interactions, so accuracy is increased as users interact with the system.
- A recommender system should be fair enough in recommending relevant items to users and it should help users to find what they need even if they are unaware of their needs.
- The items of advantaged groups are more likely to get recommended irrespective of their quality or user's preferences which makes fairness a critical issue in recommender systems.

Syeda Wajid Aalam

12:09 PM | Day 1 Track 3 International Conference

Participants: Sunita Gupta, Prashant Acharya, Dr.Chitra Desai, Gaurav Meena, Mithlesh Arya, Garima Gupta, Neha Mathur, 13 others, You.

Meet - Day 1 Track 3 International Conference

meet.google.com/kwm-evrc-yfs?pli=1&authuser=0

Syed Wajid Aalam is presenting

Literature survey

user-sided fairness & item-sided fairness: For the recommender system to be fair, both item-sided and user-sided perspectives need to be considered. Users must get fairer recommendations of items and items should be fairly recommended to users.

For item sided fairness Ke Yang and Julia Stoyanovich proposed a metric(rND) which is defined as:

$$rND(\tau) = \frac{1}{X} \sum_{j=20,30}^M \frac{1}{\log_2 j} \left| \frac{|S_{i,j}^+|}{j} - \frac{|S^+|}{M} \right|$$

Syeda Wajid Aalam

12:16 PM | Day 1 Track 3 International Conference

Participants: Sunita Gupta, Prashant Acharya, Dr.Chitra Desai, Gaurav Meena, Mithlesh Arya, Garima Gupta, Neha Mathur, 15 others, You.

meet.google.com/kwm-evrc-yfs

Dr.Chitra Desai is presenting

Data Pre-processing

- There are no null values in the dataset.
- There are 90 duplicate values in the dataset.
- The duplicate values are dropped and the number of instances is reduced to 1696 instances.
- The dataset as mentioned earlier consists of 2 columns – text and label.
- In this dataset, the label is our target variable.
- The target variable consists of four unique classes - The value count across each class - accounts is 284, biology is 595, geography is 93, physics is 724 as shown in the figure.
- It is observed the data is highly imbalanced.



Springer CCIS | IBM Academic Initiative | Infosys Campus Connect | Natural Group

11:50 AM | kwm-evrc-yfs

People

Add people

Search for people

In call

- Sunita Gupta (You)
- Ab Basit Ahanger
- Anjali Pandey
- Anjali Pandey
- Ashish Pant
- Dolly Mittal
- Dr. Neha Janu

Neha Mathur, Garima Gupta, Dr.Chitra Desai, Prashant Acha..., 19 others, You

meet.google.com/kwm-evrc-yfs

Dr.Chitra Desai is presenting

Text Pre-processing

- To check those outliers, instances with text length greater than 3000 and less than 100 are identified. There are 3 instances with text length greater than 3000 and 4 instances less than 100.
- To impact the mean, three instances above 3000 can be dropped.
- However, for further experiment, these records are retained here.
- The unique words found in 1696 instances is 18632.
- The data after text preprocessing is split into 80% training data and 20% of testing data.

	text	label	TextLen
938	dual nature radiation every body temperature e...	3	3175
1265	g ravitati india leap space india started spac...	3	3367
1688	geography discipline ocean geographical factor...	2	3048

	text	label	TextLen
1172	physic	3	8
1254	simulate propagation electromagnetic wave a	3	43
1316	physic hysterisis magnetic material f	3	37
1680	physic	3	8

Springer CCIS | IBM Academic Initiative | Infosys Campus Connect | Natural Group

11:54 AM | kwm-evrc-yfs

People

Add people

Search for people

In call

- Sunita Gupta (You)
- Ab Basit Ahanger
- Anjali Pandey
- Anjali Pandey
- Ashish Pant
- Dolly Mittal
- Dr. Neha Janu

Neha Mathur, Garima Gupta, Dr.Chitra Desai, Prashant Acha..., 19 others, You

The screenshot shows a Google Meet interface. The main window displays a presentation slide with the following text:

ICETCE 2022, SKIT, M & G JAIPUR

**ASSOCIATION RULE CHAINS (ARC):
A NOVEL DATA MINING TECHNIQUE
FOR PROFILING AND ANALYSIS OF TERRORIST
ATTACKS**

Saurabh Ranjan Srivastava¹, Dr.Yogesh Meena², Dr.Girdhari Singh³

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING,
MALVIYA NATIONAL INSTITUTE OF TECHNOLOGY, JAIPUR

The slide features a background image of a soldier in tactical gear holding a rifle. Below the text is the logo of Malviya National Institute of Technology, Jaipur.

On the right side of the screen, there is a grid of participant avatars. The participants listed are: Kavya Goel, Prashant Acharya, Saurabh Srivastava (highlighted), Gaurav Meena, Mithlesh Arya, Dolly Mittal, Anjali Pandey, 10 others, and You.

The bottom of the screen shows the Windows taskbar with various application icons and the system clock indicating 1:01 PM on 2/4/2022.

This screenshot shows a Google Meet session with a grid of participants. The participants visible in the grid are: Mehul Mahrishi, Gaurav Meena, Manisha samanta, Mithlesh Arya, Kavya Goel, Sunita Gupta, Pushpa Koranga, and You. There is also a tile for '7 others'.

On the right side, there is a 'People' list with the following participants:

- Manisha samanta
- Mehul Mahrishi
- Mithlesh Arya
- Neha Mathur
- Nidhi Srivastava (Meeting host)
- Pushpa Koranga
- Sunita Gupta

The bottom of the screen shows the Windows taskbar with various application icons and the system clock indicating 1:40 PM on 2/4/2022.

- 12 Papers were presented in this Track of Technical Session.

Track 4

Cognitive Computing

Keynote (9:00 am - 09:30 am) by Prof. (Dr.) Arun K. Somani, Associate Dean for Research, College of Engineering, Iowa State University, Ames, USA.

1. He started the session with the basics of Hardware Perspective of Neural Architecture Search.
2. He explained the neural network processing hardware.
3. He also talked about Image and weight reuse without layer fusion.
4. He also discussed various case studies on this like ASIC: Accelerator Aware NAS.
5. At the end a very healthy question answer session also took place. Different questions were asked by the participants related to various application of Deep learning in Image Processing.

Neural Architecture Search: A Hardware Perspective*

Arun K. Somani
Distinguished Professor of Electrical and Computer Engineering
Associate Dean for Research, College of Engineering
Philip and Virginia Sproul Professor
Iowa State University, Ames, IA, USA

*This work is based on PhD dissertation of Mr. Krishna Teja Chitty-Venkata.
These slides are copyrighted. If used for any purpose, they should be acknowledged/referenced as below.
Arun K. Somani and Krishna Teja Chitty-Venkata, "Neural Architecture Search: A Hardware Perspective,"
A talk delivered as part of Confluence-22 Conference held at Amity University Uttar Pradesh, Jan 27, 2022.

9:01 AM | Track-4: cognitive Computing

Hardware Metrics - Look-up-table (LUT) vs Prediction-based

- **Look-up Table (LUT):**
 - LUT consists of pre-collected cost of each operator in the search space on the target hardware
 - FBNet, and SPNAS methods construct an LUT to hold runtime latencies
- **Prediction-based:**
 - A few ML-based regression models have been used to predict a model's performance
 - ChamNet incorporates energy, accuracy and latency predictors in the search process
 - BRP-NAS predicts the hardware performance using a Graph Convolutional Network (GCN)

9:22 AM | pes-gkhg-esu

Inbox (16) - dogiwal@gmail.com x Meet - pes-gkhg-esu x +

meet.google.com/pes-gkhg-esu?pli=1

You have extensions installed that may affect the quality of your call [Learn more](#)
Dismiss

A Arun Somani is presenting

Top 10 IEEE Explorer's Hottest Topics (Source IEEE Spectrum Dec 2021)

1. Image Processing
2. Antenna
3. Artificial Intelligence
4. Machine Learning
5. Data Mining
6. Cloud Computing
7. VLSI
8. Deep Learning
9. Big Data
10. Internet of Things

Arun Somani Prof. Anil Chau... 14 others You

9:01 AM | pes-gkhg-esu

Windows Taskbar: File Explorer, Google Chrome, Microsoft Word, Google, PDF, Excel

9:01 AM 2/5/2022

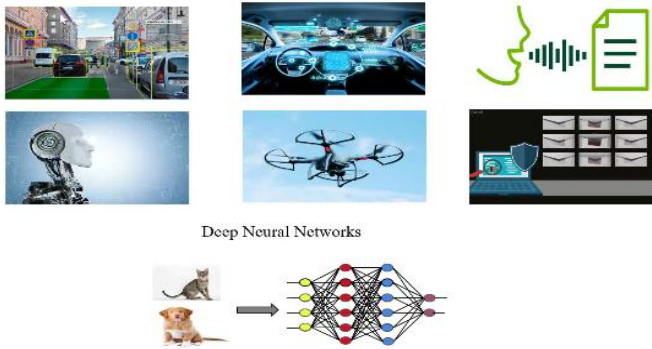
Inbox (16) - dogiwal@gmail.com x Meet - pes-gkhg-esu x +

meet.google.com/pes-gkhg-esu?pli=1

You have extensions installed that may affect the quality of your call [Learn more](#) [Dismiss](#)

A Arun Somani is presenting

AI and Deep Learning is Everywhere



Deep Neural Networks

Arun Somani 18 others You

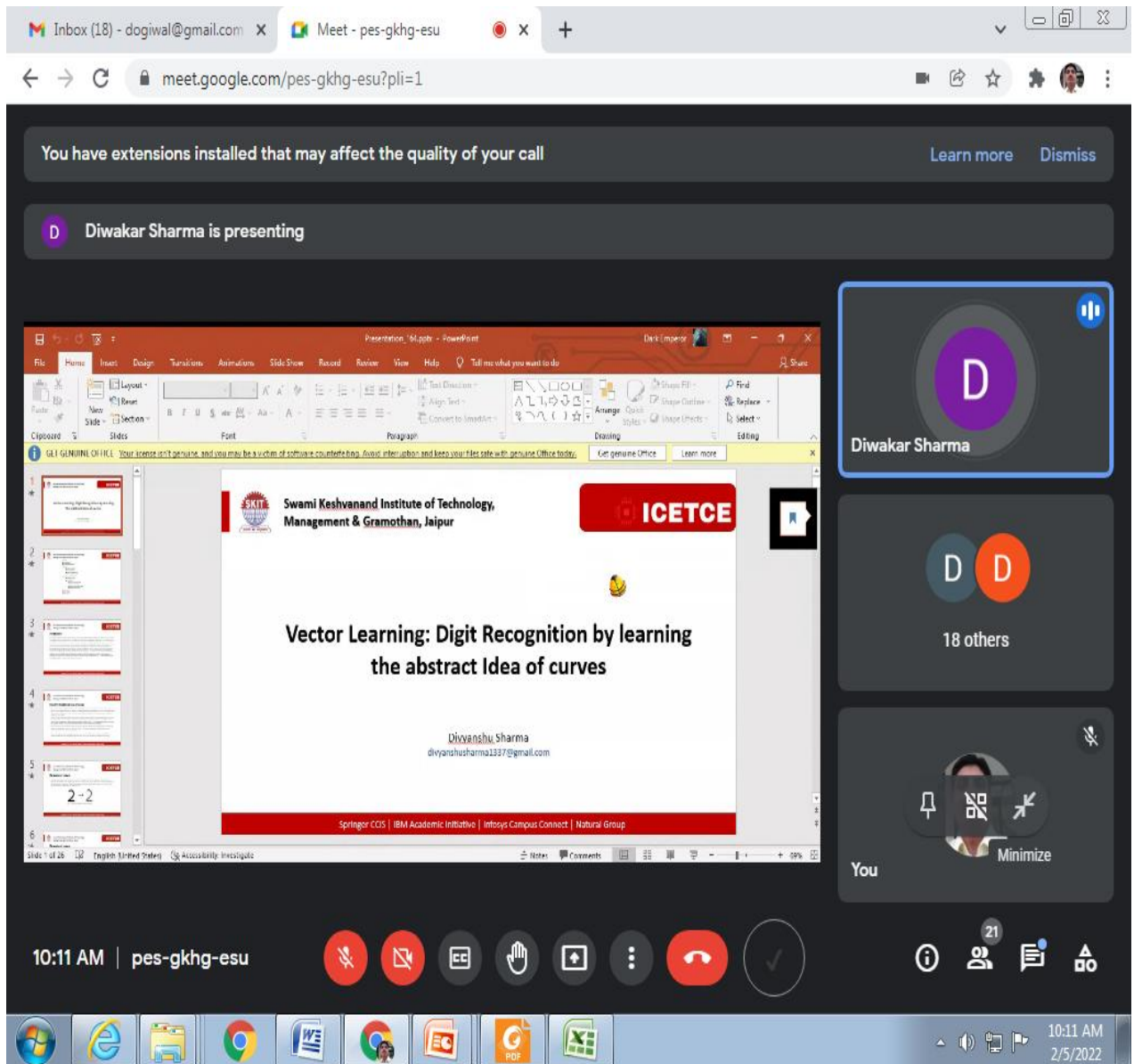
9:03 AM | pes-gkhg-esu

Windows Taskbar: File Explorer, Google Chrome, Microsoft Word, Google, PDF, Excel

9:03 AM 2/5/2022

Technical Session Chaired by:

1. **Dr. Linesh Raja**, Assistant Professor, Department of Computer Applications, Manipal University Jaipur, Rajasthan, India.
2. **Dr. Kamal Kant Hiran**, Associate Professor, Sir Padmapat Singhania University, Udaipur, Rajasthan.



- 8 Papers were presented in this Track of Technical Session.

Track 5

Data Science & Big Data Analytics

Keynote (9:30 am - 10:00 am) by Ms. Pratibha Sharma, Technical Test Lead, Infosys Ltd.

1. Session was taken by **Ms. Pratibha Sharma**, Technical Test Lead, Infosys Ltd.
2. She started the session with a brief introduction on IoT, Internet of Things.
3. She talked about different waves of technologies like IoT, AI and Robotics.
4. She explained the 3 A's of IoT namely Aware, Autonomous & Actionable.
5. She also explained the elements of IoT namely Identification, sensing, communication, computation and data visualization.
6. At the end a very healthy question answer session also took place where different questions were asked by the participants related to the various applications of IoT.

Pratibha Sharma is presenting

IoT an Introduction

Tomy Thomas Engineering Academy

Infosys Building Tomorrow's Enterprise

We Evolve because We Communicate

09:43 | yov-xanf-yfm

Type here to search

ENG IN 9:43 AM 2/5/2022

Pratibha Sharma is presenting

So machines are taking over

Internet of People

Internet of Things

Inflection point

7 Billion

100 Billion

Current Network Connect People

Future Network Connect All

Designed for People

Designed for Things

Infosys Building Tomorrow's Enterprise

09:50 | yov-xanf-yfm

Type here to search

ENG IN 9:50 AM 2/5/2022

Technical Session Chaired by:

1. **Dr. Amit Kumar Gupta**, Associate Professor, Department of Computer Science and Engineering, Amity School of Engineering & Technology (ASET), Amity University Jaipur, Rajasthan, India.
2. **Dr. Krishna Kant Mohbey**, Assistant Professor, Department of Computer Science, Central University of Rajasthan, Ajmer, India.

The screenshot shows a Google Meet interface. At the top, the browser address bar displays the meeting URL: `meet.google.com/yov-xanf-yfm?pli=1`. The main window shows a PowerPoint presentation titled "Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur Track-05(Data Science & Big Data Analytics)". The presentation includes logos for SKIT and ICETCE, and profiles of Dr. Amit Kumar Gupta (Associate Professor, Department of Computer Science and Engineering, Amity School of Engineering & Technology (ASET), Amity University Jaipur, Rajasthan, India) and Dr. Krishna Kumar Mohbey (Assistant Professor, Department of Computer Science, Central University of Rajasthan, Ajmer, India). The bottom of the presentation slide lists affiliations: Springer CCIS | IBM Academic Initiative | Infosys Campus Connect | Natural Group. On the right side of the screen, a grid of participants is visible, including Rajat Goel, Prof. Anil Cha..., Nikhar Bhatia..., Devanshu Ku..., Dr. Krishna K. ..., Priyanka Shar..., Khongdet Pha..., and a group of 14 others. The bottom of the screen shows the Windows taskbar with the time 10:20 and date 2/5/2022.

- 6 Papers were presented in this Track of Technical Session.

Track 6

Blockchain and Cyber Security

Track – 6 (Presentation link: <https://meet.google.com/sry-trhj-xpa>)

Keynote (9:00 am - 09:30 am) by Prof. (Dr.) S. C. Jain, Professor, Computer Science & Engineering, Rajasthan Technical University, Kota, Rajasthan.

1. Session was taken by **Prof. (Dr.) S. C. Jain**, Professor, Department of Computer Science & Engineering, Rajasthan Technical University, Kota, Rajasthan.
2. He started the session with the basics of Bank transactions and cyber crimes and security measures.
3. He explains the topics and various techniques of Blockchain Generations from 1 to 4.
4. He also talked about Blockchain 4 emerges in business application and also discussed Blockchain as Service (Baas).
5. He also explains the various challenges faced by these techniques and also discuss latest emerging areas.
6. At the end a very healthy question answer session also took place. Different questions were asked by the participants related to various application of Blockchain and its Applications.

Technical Session is Chaired by:

1. **Dr. Rajiv Singh**, Associate Professor, Department of Computer Science, Faculty of Mathematics and Computing, Banasthali Vidyapith.
2. **Dr. Pravin R. Kshirsagar**, Professor, Faculty of Engineering, G.H Rasoni College of Engineering, Nagpur, India.
3. **Dr. Vijendra Singh**, Associate Professor, Faculty of Engineering, Department of Computer Science and Engineering, Manipal University Jaipur, Rajasthan, India.

The screenshot displays a Google Meet session titled "Blockchain - Flow Diagram" presented by S.C. Jain. The main content area shows a detailed flow diagram of the blockchain process. It starts with a user initiating a transaction from a "Wallet". This transaction is broadcast to the "P2P network". The transaction is then verified by "Miners" through a "Consensus" process to form a "Block". This block is added to the "Blockchain" and also enters an "Unconfirmed Block Pool" before being finalized. The diagram also highlights "Cryptography" and "Transaction & Block Structure". The Meet interface shows participants: S.C. Jain, Dr. Pankaj Dadheech, Naveen Jain, Neha Mathur, Pawan Jangir, Rajiv Singh, Rohit Khinchi, Rubal Deep Gill, and S.C. Jain. The bottom status bar shows the time as 9:28 AM on 2/5/2022.

Swimpy Pahuja is presenting

Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur

ICETCE

Analysis and Discussions

S.N o.	Multimodal System	Accuracy (in percentage)	FAR (in percentage)	FRR (in percentage)	EER (in percentage)
1.	IBFS [19]	99.6	0.33	0.002	0.4
2.	DGS [20]	99.41	0.21	0.97	0.59
3.	OMBAS [21]	99.2	2	1.03	0.8

Springer CCIS | IBM Academic Initiative | Infosys Campus Connect | Natural Group

10:22 AM | sry-trhj-xpa

Schedule TECHNIC...pdf Attendee_AGENDA...pdf Attendee_AGENDA...pdf Show all

Sukhwinder Sharma is presenting

Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur

ICETCE

Paper ID: 068

Penetration Testing Framework (PTF):

- **Generalized Deterministic Environment** having set of input output parameters
- Mixture of well-known benchmarked network parameters
 - a) **radio model** considered for deciding how the energy dissipation will be calculated based on the node deployment and data transmission in the network,
 - b) **network model** indicating the physical parameters about the network size, number of nodes and types, their placement along with that of the sink node,
 - c) **performance metrics**, and
 - d) **simulation setup**

Springer CCIS | IBM Academic Initiative | Infosys Campus Connect | Natural Group

10:37 AM | sry-trhj-xpa

- 9 Papers were presented in this Track of Technical Session.

WRAP UP AND VALEDICTORY SESSION

In the Valedictory Session key persons, practitioners and chair members shared their experiences of the conference. Ms. Anjana Sangwan, Secretary (ICETCE-2022) presented the summary report of the conference. The certificates was awarded for the best paper and to the coordinators and volunteers by Prof. (Dr.) San Murugesan, Adjunct Professor, Western Sydney University; Director, BRITE Professional Services; Golden Core Member, IEEE, Dr. Pankaj Dadheech (Technical Program Chair), Dr. Mehul Mahrishi (Technical Program Chair), Ms. Sanju Choudhary (Secretary) and Ms. Priyanka (Secretary) ICETCE-2022. Vote of thanks was given by Prof. (Dr.) Anil Chaudhary (Organizing Chair).The conference was a success and served as a source to gain and give knowledge, it also fostered the professional and personal growth of students as they got the opportunity interact with such learn dignitaries.

CONFERENCE OUTCOMES

The next generation of research and development must be faster, enhanced, intelligent, integrated and secured. The conference helped the researchers and technocrats to deepen the understanding of Machine Learning and Applications, Internet of Things (IoT) Applications and Technologies, Big Data Analytics, Security, Privacy and Trust, Big Data Organization, Retrieval and Indexing Using Deep Learning, Machine Learning to Real Time Processing of Microservice Events and many more research areas and upcoming technologies.

Students were also benefited and updated their skills on the latest technologies to understand how next generation computing can contribute to deliver faster and integrated commercial viabilities.

इस दौरान मौजूद मरीजों को फलों की टोकरी भी भेंट की गई।

एसकेआईटी में 5वीं अंतरराष्ट्रीय कॉन्फ्रेंस आयोजित

जयपुर | स्वामी केशवानंद इंस्टीट्यूट ऑफ टेक्नोलॉजी (एसकेआईटी) में ऑनलाइन प्लेटफॉर्म पर दो दिवसीय 5वीं अंतरराष्ट्रीय कॉन्फ्रेंस 'इमर्जिंग टेक्नोलॉजी इन कंप्यूटर इंजीनियरिंग: कॉग्निटिव कम्प्यूटिंग एंड इंटेलिजेंट' आईबीएम, इंफोसिस (कैंपस कनेक्ट) और नेचुरल ग्रुप के संयुक्त तत्वावधान में शुरू की गई। कार्यक्रम के मुख्य अतिथि राजस्थान टेक्निकल यूनिवर्सिटी के वाइस चांसलर डॉ. आरए गुप्ता रहे। कॉलेज ऑफ इंजीनियरिंग आयोवा स्टेट यूनिवर्सिटी, अमेरिका के एसोसिएट डीन डॉ. अरुण सोमानी ने कहा कि इस बार इसमें 8 देशों से



229 रिसर्च पेपर प्राप्त हुए एवं 58 को सेलेक्ट किया गया जो स्प्रिंगर सी सी आई एस सीरीज में प्रकाशित किए जाएंगे। कार्यक्रम की गेस्ट ऑफ ऑनर डॉ. मनी मधुकर (प्रोग्राम मैनेजर, ग्लोबल यूनिवर्सिटी प्रोग्राम, आई बी एम) ने कॉन्फ्रेंस की थीम को सटीक बताया। इस मौके पर प्रो. सीएम चौधरी, प्रो. एस.एल. सुराणा, जयपाल मील, डॉ. रमेश पचार, डॉ. अनिल चौधरी, डॉ. मुकेश गुप्ता आदि मौजूद रहे।

एसकेआईटी में दो दिवसीय अंतरराष्ट्रीय कॉन्फ्रेंस शुरू

जयपुर (कासं.)। स्वामी केशवानंद इंस्टीट्यूट ऑफ टेक्नोलॉजी में ऑनलाइन प्लेटफॉर्म पर दो दिवसीय 5वीं अंतरराष्ट्रीय कॉन्फ्रेंस 'इमर्जिंग टेक्नोलॉजी इन कंप्यूटर इंजीनियरिंग: कॉग्निटिव कम्प्यूटिंग एंड इंटेलिजेंट IoT (ICETCE 2022)' आईबीएम, इंफोसिस (कैम्पस कनेक्ट) और नेचुरल ग्रुप के संयुक्त तत्वावधान में शुरू की गई। कार्यक्रम के मुख्य अतिथि डॉ आर ए गुप्ता (वाइस चांसलर, राजस्थान टेक्निकल यूनिवर्सिटी) ने एसकेआईटी के सेंटर ऑफ एक्सीलेंस की प्रशंसा करते हुए इसे इनोवेशन हब बताया और क्वालिटी रिसर्च को आज की जरूरत बताया। उन्होंने कहा कि इस तरह की कॉन्फ्रेंस को बार बार ऑर्गेनाइज करना चाहिए। प्रो.



एस.एल. सुराणा (डायरेक्टर, एकेडमिक्स), जयपाल मील (डायरेक्टर) एवं डा. रमेश पचार (प्रिंसिपल), आईटी हेड डा. अनिल चौधरी और हेड कंप्यूटर इंजीनियरिंग, डा. मुकेश गुप्ता ने सभी आगंतकों का स्वागत किया। डाक्टर अरुण सोमानी (एसोसिएट डीन, कॉलेज ऑफ इंजीनियरिंग आयोवा स्टेट यूनिवर्सिटी, अमेरिका) ने कॉन्फ्रेंस के महत्व के बारे में बताते

हुए कहा कि इस बार इसमें 8 देशों से 229 रिसर्च पेपर प्राप्त हुए एवं 58 को सेलेक्ट किया गया जो स्प्रिंगर सी सी आई एस सीरीज में प्रकाशित किए जायेंगे। कॉलेज के प्रो सीएम चौधरी ने प्रतिभागियों को कॉन्फ्रेंस प्रोग्राम के बारे में जानकारी दी। प्रो. ऑफ डॉक्टर मनी मधुकर (प्रोग्राम मैनेजर, ग्लोबल यूनिवर्सिटी प्रोग्राम, आई बी एम) ने कॉन्फ्रेंस की थीम को सटीक बताया।



महानगर टाइम्स

जयपुर। स्वामी केशवानंद इंस्टीट्यूट ऑफ टेक्नोलॉजी में ऑनलाइन प्लेटफॉर्म पर दो दिवसीय 5 वीं अंतरराष्ट्रीय कॉन्फ्रेंस 'इमर्जिंग टेक्नोलॉजी इन कंप्यूटर इंजीनियरिंग: कॉग्निटिव कम्प्यूटिंग एंड इंटेलिजेंट' में की गई कांफ्रेंस समापन शनिवार को हुआ। कांफ्रेंस के दौरान 58 पेपर्स प्रेजेंट 6 कैटेगरी में प्रेजेंट किए गए। इस मौके पर प्रो. सिंग्रेवेल मुर्गेंसन ने अपने प्लेनरी

टॉक में कंप्यूटर हिस्ट्री बताते हुए इसके डेवलपमेंट को रीयल लाइफ से जोड़ते हुए बताया कि कैसे अब यह हर सेक्टर में उपयोग हो रहा है। 6 ट्रेक से अलीमुल, हेमा, सौरभ श्रीवास्तव, गीतिका सिंह, सुनील कुमार, सुखविंदर शर्मा के पेपर को बेस्ट डिक्लेयर किया। अंजना सांगवान ने कांफ्रेंस को समराइज किया और आईटी हेड अनिल चौधरी ने वोट ऑफ थैंक्स प्रस्तुत किया।

**SWAMI KESHAVANAND INSTITUTE OF TECHNOLOGY,
MANAGEMENT & GRAMOTHAN, JAIPUR**



**Department of Computer Science & Engineering and Department
Information Technology**

REPORT

One Week FDP (Online)

On

Arduino-an open source electronics microcontroller

22nd -26th March, 2022

Jointly Organized By:

Spoken Tutorial, IIT Bombay



Spoken Tutorials



&

Department of Computer science & Engineering (NBA Accredited) &

Department of Information Technology (NBA Accredited)

under

Center of Excellence for Internet of Things(IoT-COE)

**Swami Keshvanand Institute of Technology, Management & Gramothan,
Jaipur-302017**

Submitted By:

Dr. Sunita Gupta (IT)

Ms. Nidhi Srivastav (CSE)

Index

1. About SKIT	3
2. Organizing Committee for the FDP	4
3. Objectives, Contents & Outcomes of the FDP	5
4. FDP Brochure	6
5. Feedback Analysis	8
6. Sample Copy of Participant's Certificate	11
7. List of Registered Participants	12

About SKIT

Swami Keshvanand Institute of Technology, Management & Gramothan (SKIT) has been ranked no.1 engineering institute in Rajasthan by RTU, Kota consecutively for the last three years. SKIT is a selective comprehensive institution offering undergraduate and postgraduate programmes in Engineering and Management. The institute was established in the year 2000 by a team of committed professionals and academicians. During all the past years SKIT has emerged as a premier centre of technical education not only in Rajasthan but also in northern India which has been realized through efficient and dedicated faculty members, innovative teaching learning methods, state of the art infrastructures and core value of discipline. The various undergraduate programmes of the institute are accredited by the National Board of Accreditation (NBA).

Vision

To promote higher learning in advanced technology and industrial research to make our country a global player

Mission

To promote quality education, training and research in field of Engineering by establishing effective interface with industry and to encourage faculty to undertake industry sponsored projects for students.

Quality Policy

We are committed to 'achievement of quality' as an integral part of our institutional policy by continuous self-evaluation and striving to improve ourselves.

Institute would pursue quality in

- All its Endeavour's like admissions, teaching- learning processes, examinations, extra and co-curricular activities, industry institution interaction, research & development, continuing education, and consultancy.
- Functional areas like teaching departments, Training & Placement Cell, library, administrative office, accounts office, hostels, canteen, security services, transport, maintenance section and all other services.

Department of Computer Science & Engineering and Department of Information Technology

The Department is dedicated towards providing its students with a motivating environment and facilitating their academic requirements with committed and expert supervision of faculty and experts from various fields from time to time. The department offers B.Tech (CS) & B.Tech (IT), M.Tech. (CS) and PhD. (CS). The B.Tech degree programme has been accredited by NBA in both CSE and IT. The department Computer Science & Engineering is a recognized Research Centre of Rajasthan Technical University. Organises Spoken Tutorial and NPTEL Certification by IIT Bombay and has Virtual Lab setup by IIT Madras.

Organizing Committee of FDP

FDP is organized by Department of Computer Science & Engineering and Department of Information Technology, Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur, Under the guidance of Dr. Prof. Mukesh Gupta, HOD (CSE) SKIT and Dr. Prof. Anil Chaudhary, HOD (IT).

Coordinators of the FDP are:

1. Dr. Sunita Gupta, Associate Professor (IT), SKIT
2. Ms. Nidhi Srivastav, Associate Professor (CSE), SKIT
3. Mr. Mehul Mahrishi, Associate Professor (IT), SKIT

Objectives of the FDP

- Participant can build awesome projects by using Arduino.
- Arduino is great for programming so participants can learn electronics easily with Arduino.
- Participants can explore the opportunities and challenges in the use of Arduino.
- To provide an opportunity for the participants to learn from expert in Specialized areas

Contents of the FDP

- Overview and Introduction of Arduino
- Arduino components and IDE
- Arduino with Tricolor LED and LCD
- Wireless Connectivity to Arduino
- Assembly of Robot and Robot Control
- Introduction to IoT
- Assembly programming through Arduino
- AVR-GCC programming through Arduino
- Arduino Programming with Scilab and Xcos

Outcomes of the FDP

By the end of the program, the participants should:

- Understand the Structure of Arduino microcontroller, its components IDE and its applications.
- Explore the research opportunities and challenges of the using Arduino.
- Understand the current state of research and practice using Arduino in IoT.
- Know how to work with Arduino and its assembly for Robot Control, along with the Assembly programming through Arduino.
- Applications and Use of Arduino Programming with Scilab and Xcos .

FDP Brochure

PATRON

Shri Raja Ram Meel, Patron, SKIT
Shri Surja Ram Meel, Chairman, SKIT

ADVISORS

Shri Jaipal Meel, Director, SKIT
Prof. S.L. Surana, Director (Academics), SKIT
Mrs. Rachna Meel, Registrar, SKIT
Prof. Ramesh Kumar Pachar, Principal, SKIT
Mrs. Abha Meel, Adviser, SKIT
Prof. (Dr.) R.K. Jain, Dean, SKIT
Prof. (Dr.) Anil Choudhary, HOD (IT), SKIT
Prof. (Dr.) Mukesh Gupta, HOD (CSE), SKIT
Prof. (Dr.) Mukesh Arora, HOD (ECE), SKIT
Prof. (Dr.) Ona Ladiwal, HOD (DMS), SKIT
Prof. (Dr.) Dheeraj Joshi, HOD (ME), SKIT
Prof. (Dr.) D.K. Sharma, HOD (CE), SKIT
Dr. Dhanraj Chitara, Head (EE), SKIT
Prof. (Dr.) Rohit Mukherjee, Incharge, B.Tech.I Year, SKIT
Prof. (Dr.) Amber Shrivastava, Head (Maths), SKIT
Dr. Sharda Soni, Head (Chemistry), SKIT
Prof. (Dr.) Brajraj Sharma, Head (Physics), SKIT
Prof. (Dr.) Neha Purohit, Head (English), SKIT

COORDINATOR

Dr. Sunita Gupta, Spoken Tutorial Coordinator (IT)
Ms. Nidhi Srivastav, Spoken Tutorial Coordinator (CSE)
Mr. Mehul Mahrishi, Incharge, IoT Center of Excellence

ORGANIZING COMMITTEE

Department of Computer Science and Engineering
& Department of Information Technology,
Swami Keshvanand Institute of Technology,
Management & Gramothan, Jaipur, Rajasthan,
India-302017

REGISTRATION FORM

To join this FDP, you are requested to register your name
by clicking the following registration link / QRcode:

For SKIT Faculties:

<https://forms.gle/WB2vctXPDheo86SY6>

For Outside Faculties:

Registration & Payment Link (Participation Fees-590)

https://spoken-tutorial.org/training/list_events/ongoing/?state=29&foss=&host_college=&event_start_date_after=&event_start_date_before=&event_end_date_after=&event_end_date_before=&event_type=

Note:

- ✓ FDP will be conducted online through Spoken Tutorial portal.
- ✓ The registration for the FDP is on first come first serve basis.
- ✓ Participation Certificate will be provided by the Spoken Tutorial after completion of FDP. Course Completion Certificate will also be provided to the faculties who will score more than 40% in certification exam.
- ✓ For any queries regarding FDP, please contact: spoken_csit@skit.ac.in

Dr. Sunita Gupta (Coordinator)
Associate Professor,
Department of IT, SKIT, Jaipur
Mobile: 9828510686
Email: sunita@skit.ac.in

Ms. Nidhi Srivastav (Coordinator)
Associate Professor,
Department of CSE, SKIT, Jaipur
Mobile: 9981381882
Email: nidhi@skit.ac.in

Mr. Mehul Mahrishi (Coordinator)
Associate Professor,
Department of IT, SKIT, Jaipur
Mobile: 7597924279
Email: mehul@skit.ac.in

One Week Online FDP
On

**Arduino-an open source electronics
microcontroller**

22nd -26th March, 2022

Jointly Organized By:

Spoken Tutorial, IIT Bombay



Spoken Tutorials



&

Department of CSE & IT
under
Center of Excellence for Internet of
Things(IoT-COE)



Swami Keshvanand Institute of Technology,
Management & Gramothan, Ramnagar,
Jagatpura, Jaipur – 302017

Website: www.skit.ac.in

ABOUT PROGRAM

Program is intended to introduce with basics of Arduino with its applications. Program would help participant to understand the working of Arduino and its applications in various electronic projects. Arduino improves coding and electronics skills. Arduino programming is a great tool to learn coding and electronics because it easily connects with other open-source hardware and components.

OBJECTIVES OF THE FDP

- Participant can build awesome projects by using Arduino.
- Arduino is great for programming so participants can learn electronics easily with Arduino.
- Participants can explore the opportunities and challenges in the use of Arduino.
- To provide an opportunity for the participants to learn from expert in Specialized areas

CONTENTS

- Overview and Introduction of Arduino
- Arduino components and IDE
- Arduino with Tricolor LED and LCD
- Wireless Connectivity to Arduino
- Assembly of Robot and Robot Control
- Introduction to IoT
- Assembly programming through Arduino
- AVR-GCC programming through Arduino
- Arduino Programming with Scilab and Xcos



ABOUT SPOKEN TUTORIAL, IIT BOMBAY

A project of the National Mission on Education through ICT funded by the Ministry of Education (MHRD), Govt. of India. Spoken Tutorial is a multi-award winning educational content portal. Here one can learn various Free and Open Source Software all by oneself. It has self-paced, multi-lingual courses that anybody with a computer and a desire for learning, can learn from any place, at any time and in a language of their choice. All the content published on their website are shared under the CC BY SA license.

ABOUT SKIT JAIPUR

Swami Keshvanand Institute of Technology, Management & Gramothan (SKIT) has been Ranked No. 1 Engineering Institute in Rajasthan by RTU, Kota consecutively for the last five years. SKIT is a selective comprehensive institution offering Undergraduate, Postgraduate & Doctorate Programmes in Engineering and Management. The institute was established in the year 2000 by a team of committed Professionals and Academicians. During all the past years SKIT has emerged as a Premier Center of Technical Education not only in Rajasthan but also in Northern India which has been realized through efficient and dedicated Faculty Members, Innovative Teaching Learning Methods, State of the art infrastructures and Core Value of Discipline. The various undergraduate programmes of the institute are accredited by the National Board of Accreditation (NBA). Located in the Pink City Jaipur, which is a blend of traditional history and modern outlook, SKIT is putting in efforts for making industry ready engineers and managers through effective Industry – Institute Interface. Apart from University curriculum SKIT also pursues activities for Research and Development in various fields. The green landscaping, aesthetic elegance of arches and the vibrant pursuit of knowledge by the young aspirants make the environment serene, pleasant and dynamic.

DEPARTMENT OF CSE & IT

The departments are NBA accredited and offers undergraduate programs in CSE & IT, postgraduate program in CSE and Ph.D. in CSE. The major areas of research are Big Data Analytics, Cloud Computing & Virtualization, Artificial Intelligence, Security, Compilers & Programming Languages, Computer Architecture, Bioinformatics and Theoretical Computer Science. Both departments have various research laboratories with the state-of-the-art computing facilities. The department is also recognized as a "Center of Excellence in IoT" by Rajasthan Technical University, Kota

TARGETED AUDIENCE

This FDP will be very helpful for faculties as it gives knowledge about Arduino and IOT that is base of recent trends and technology. The targeted audiences are faculty members of different organizations.

REGISTRATION FEE

Faculties of SKIT- No Registration fee
Outside Faculties- Rs.590 for Registration

IMPORTANT DATES

Last Date for Online Registration: 19.3.2022
FDP Dates: 22.3.2022-26.3.2022





Sample Feedback

4/12/22, 2:54 PM

One Week FDP (Online) on "Arduino-an open source electronics microcontroller" from 22nd March to 26th March 2022 - Feedback

One Week FDP (Online) on "Arduino-an open source electronics microcontroller" from 22nd March to 26th March 2022 - Feedback

E-mail ID (Mention your registered Email ID only) *

anjana@skit.ac.in

Full Name of the Participant *

ANJANA SANGWAN

Designation *

ASSOCIATE PROFESSOR

Organization *

Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur

Employee ID (For SKIT Faculty Members only)

168

https://docs.google.com/forms/d/17wYnj8OOZ5dVekxY5_iTuECi1t2G14GO0YYA2XgSJUQ/edit#response=ACYDBNhrQRFp-OJs6zjiOs-2fxXBP4q9A... 1/3

4/12/22, 2:54 PM

One Week FDP (Online) on "Arduino-an open source electronics microcontroller" from 22nd March to 26th March 2022 - Feedback

Contact Number *

941939111

Quality of the e-content available on Spoken Tutorial, IIT Bombay *

	1	2	3	
FAIR	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	EXCELLENT

How helpful was the content? *

	1	2	3	
Slightly Helpful	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	Extremely Helpful

Relevance of the content *

	1	2	3	
FAIR	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	EXCELLENT

Knowledge gained by the FDP *

yes

https://docs.google.com/forms/d/17wYnj8OOZ5dVekxY5_iTuECi1t2G14GO0YYA2XgSJUQ/edit#response=ACYDBNhrQRFp-OJs6zjiiOs-2fxXBP4q9A... 2/3



4/12/22, 2:54 PM

One Week FDP (Online) on "Arduino-an open source electronics microcontroller" from 22nd March to 26th March 2022 - Feedback

Your overall experience *

	1	2	3	
FAIR	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	EXCELLENT

Any additional comments or suggestions?

This form was created inside of Swami Keshvanand Institute of Technology.

Google Forms

https://docs.google.com/forms/d/17wYnj8OOZ5dVekxY5_iTuECi1t2G14GO0YYA2XgSJUQ/edit#response=ACYDBNhrQRFp-OJs6zjiiOs-2fxXBP4q9A... 3/3

Sample Copy of Participant's Certificate



Certificate of Participation



Spoken Tutorial Project at IIT Bombay

This is to certify that **DEEPA MODI** has participated in **Paid FDP** from **2022-03-22** to **2022-03-26** on **Arduino** organized by **SWAMI KESHVANAND INSTITUTE OF TECHNOLOGY, MANAGEMENT & GRAMOTHAN** with course material provided by Spoken Tutorial Project, IIT Bombay.

This training is offered by the Spoken Tutorial Project, IIT Bombay.


Prof. Kannan M Moudgalya
IIT Bombay

Spoken Tutorial is a project at IIT Bombay, started with funding from the National Mission on Education through ICT, Ministry of Education (previously MHRD), Govt. of India



Certificate of Participation



Spoken Tutorial Project at IIT Bombay

This is to certify that **MR. MAHENDER KUMAR BENIWAL** has participated in **Paid FDP** from **2022-03-22** to **2022-03-26** on **Arduino** organized by **SWAMI KESHVANAND INSTITUTE OF TECHNOLOGY, MANAGEMENT & GRAMOTHAN** with course material provided by Spoken Tutorial Project, IIT Bombay.

This training is offered by the Spoken Tutorial Project, IIT Bombay.


Prof. Kannan M Moudgalya
IIT Bombay

Spoken Tutorial is a project at IIT Bombay, started with funding from the National Mission on Education through ICT, Ministry of Education (previously MHRD), Govt. of India

List of Registered Participants

S.no	Emp. ID	Name	Email	Organization Name
1	835	Achin Srivastav	achin.srivastav@skit.ac.in	Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur
2	31	Anjali Pandey	anjali.pandey@skit.ac.in	Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur
3	168	ANJANA SANGWAN	anjana@skit.ac.in	Swami Keshvanand Institute of Technology, Management & Gramothan , Jaipur
4	876	Ashish Pant	ashish.pant@skit.ac.in	Swami Keshvanand Institute of Technology, Management & Gramothan , Jaipur
5	772	Deepa Modi	deepa.modi@skit.ac.in	Swami Keshvanand Institute of Technology, Management & Gramothan , Jaipur
6	875	Deepak Kumar	deepak.kumar@skit.ac.in	Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur
7	37	Dolly Mittal	dolly.mittal@skit.ac.in	Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur
8	830	Garima Gupta	garima.gupta@skit.ac.in	Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur
9	30	Harpreet Singh Gill	harpreet@skit.ac.in	Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur
10	764	Harshal Nigam	harshal.nigam@skit.ac.in	Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur
11	642	KAJAL MATHUR	kajal.mathur@skit.ac.in	Swami Keshvanand Institute of Technology, Management & Gramothan , Jaipur
12	09	Mahender Kumar Beniwal	mbeniwal@gmail.com	Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur
13	832	MANOJ KUMAR	manoj.kumar@skit.ac.in	Swami Keshvanand Institute of Technology, Management & Gramothan , Jaipur
14	895	Meenakshi Nawal	meenakshi.nawal@skit.ac.in	Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur

15	18	Naveen Jain	naveen@skit.ac.in	Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur
16	856	NEERAJ GARG	neeraj.garg@skit.ac.in	Swami Keshvanand Institute of Technology Management and Gramothan, Jaipur
17	852	Neha Mathur	neha.mathur@skit.ac.in	Swami Keshvanand Institute of Technology, Management & Gramothan , Jaipur
18	833	Nidhi Srivastav	nidhi@skit.ac.in	Swami Keshvanand Institute of Technology Management & Gramothan, Jaipur
19	894	Nilam Choudhary	nilam@skit.ac.in	Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur
20	880	Palika Jajoo	palika@skit.ac.in	Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur
21	11	Pankaj Dadheech	pankaj@skit.ac.in	Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur
22	139	PRAMOD JAIN	Pramod.jain@skit.ac.in	Swami Keshvanand Institute of Technology, Management & Gramothan , Jaipur
23	654	Priyanka Sharma	priyanka.sharma@skit.ac.in	Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur
24	693	Priyanka Trikha	priyanka@skit.ac.in	Swami Keshvanand Institute of Technology, Management & Gramothan , Jaipur
25	26	Richa Rawal	richarawal@skit.ac.in	Swami Keshvanand Institute of Technology, Management & Gramothan , Jaipur
26	29	Rubal Deep Gill	rubal@skit.ac.in	Swami Keshvanand Institute of Technology, Management & Gramothan , Jaipur
27	161	Ruchika Khandelwal	ruchika@skit.ac.in	Swami Keshvanand Institute of Technology, Management & Gramothan , Jaipur
28	28	Sanju Choudhary	sanju@skit.ac.in	Swami Keshvanand Institute of Technology, Management & Gramothan , Jaipur
29	08	Sanwta Ram Dogiwal	srdogiwal@skit.ac.in	Swami Keshvanand Institute of Technology, Management and Gramothan,Jaipur
30	806	Shanu Tripathi	shanu.tripathi@skit.ac.in	Swami Keshvanand Institute of Technology, Management & Gramothan , Jaipur

31	625	Sunil Dhankhar	sunil@skit.ac.in	Swami Keshvanand Institute of Technology, Management & Gramothan , Jaipur
32	673	Sunil Kumar	sunil.kumar@skit.ac.in	Swami Keshvanand Institute of Technology, Management & Gramothan , Jaipur
33	834	Sunita Gupta	sunita@skit.ac.in	Swami Keshvanand Institute of Technology, Management & Gramothan , Jaipur
34	751	Vinay Singh Marwal	vinaysingh@skit.ac.in	Swami Keshvanand Institute of Technology, Management & Gramothan , Jaipur
35	27	Vipin Jain	vipin@skit.ac.in	Swami Keshvanand Institute of Technology, Management & Gramothan , Jaipur

Swami Keshvanand Institute of Technology, Management and Gramothan

Centre of Excellence for Internet of Things (IoT-CoE)

A

REPORT

On

**“Two Weeks IN-HOUSE INTERNSHIP on Introduction to Internet of
Things”**



Internship In-Charge
Mr. Manish Bhardwaj
Assistant Professor, CSE

Submitted By:
Dr. Mehul Mahrishi
Coordinator, IoT-CoE

In-House Internship on Introduction to Internet of Things		
Duration: 15 Days		Date & Time: 18th July – 4th August 2022 8:30 am to 1:30 pm
Venue: Gyan Mandir & Labs		Year: 2nd year (CS/IT/AI/DS)
Convener:	Mr. Manish Bhardwaj	Registered Students: <u>20</u>
Mode of Workshop: Offline classes on Internet of things & Hands-on Practice		Present Students: <u>20</u>

Objective:

The objective of the workshop was to impress upon the students the concepts of Internet of things with preliminary hands-on practice. To cultivate student learning and development by supporting students in their academic, personal, and social growth.

About the Internship:

Internship was organized in two modes:

1. Inhouse internship by experts from the department
2. Inhouse internship by experts from industry

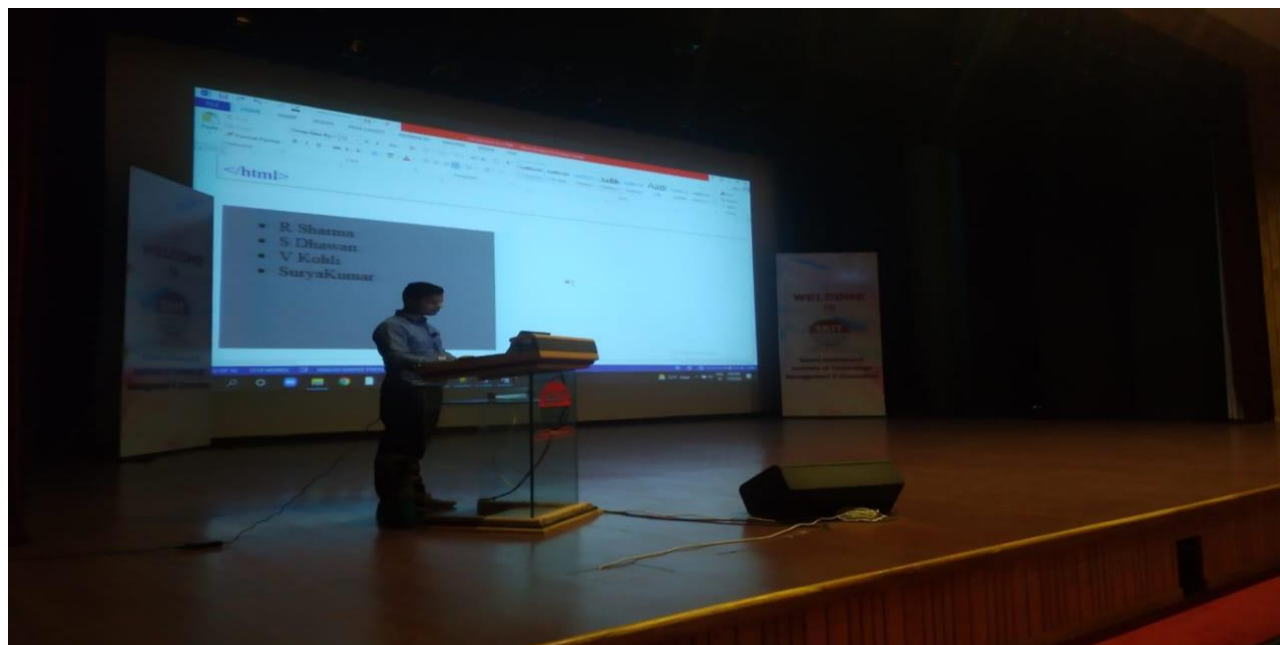
Both the internships were having sessions in the morning followed by hands-on in the afternoon. 20 students participated in an internship.

The IoT-CoE organized a 15 days free internship by in-house experts on “**Introduction to Internet of Things**” with the aim to provide hands-on practice to the students on the aspects of development project. This workshop was also useful in reference of placement of students. Mr. Manish Bhardwaj, Mr. Sumit Mathur, Madhav Katri, Pawan Kumar Patidar, and Ms. Surbhi Sharma, acted as trainers for this workshop. Sessions at gyanmandir were concluded with a live demo with the integration of all the components communicated by all the trainers. In Lab sessions, hands-on activities were conducted and in-house faculties helped students to perform. Dr. S.R. Dogiwal, Dr. Rajat Goyal, Dr. Nidhi Srivastava, Ms. Jeba Nega, Ms. Neha Mathur, Ms. Surbhi Sharma, acted as resource persons for lab sessions.

Internship Modules

Swami Keshvanand Institute of Technology, Management & Gramothan			
RTU recognised Centre of Excellence for IoT			
Internship modules (Beginner)			
Module: 15 Days			
Prerequisite: Basic Knowledge of programming	No. of Hours	Springboard course mapping	
Chapter 1			
Introduction to IoT: Definition & Characteristics	9	Introduction to Internet of Things, Internet of Things 101, Internet of Things 201, Learning Internet of Things with Raspberry Pi, Mastering Arduino by Building Real World Applications	
Applications of IoT			
IoT Enabling Technologies			
IoT Ecosystem			
Chapter 2	12		
Introduction to Arduino			
Chapter 3	12		
Introduction to Raspberry Pi			
Chapter 4	12		
Introduction to Python Programming with IoT			
Chapter 5	15		
Handson- IoT with Python and Arduino			
Total	60		

Glimpses of Internship:







List of Participant

S. No.	Roll No.	Name of Student	Start Date	End Date	Duration
1	21ESKCS003	Aakash gupta	18-7-2022	08-04-2022	15 Days
2	21ESKCS035	Anurag lohar	18-7-2022	08-04-2022	15 Days
3	21ESKCS048	Ayush garg	18-7-2022	08-04-2022	15 Days
4	21ESKCS050	Ayushi Khandal	18-7-2022	08-04-2022	15 Days
5	21ESKCS122	Madhur Agrawal	18-7-2022	08-04-2022	15 Days
6	21ESKIT073	Mohit Agarwal	18-7-2022	08-04-2022	15 Days
7	21ESKCS149	Palak singh	18-7-2022	08-04-2022	15 Days
8	21ESKCA081	Parag pareek	18-7-2022	08-04-2022	15 Days
9	21ESKCS169	Radhika Soni	18-7-2022	08-04-2022	15 Days
10	21ESKCS176	Rajat choudhary	18-7-2022	08-04-2022	15 Days
11	21ESKCS178	Rajveer Singh	18-7-2022	08-04-2022	15 Days
12	21ESKCA088	Ria Agarwal	18-7-2022	08-04-2022	15 Days
13	21ESKCS193	Rucha Kukreti	18-7-2022	08-04-2022	15 Days
14	21ESKIT099	Safal Sachdeva	18-7-2022	08-04-2022	15 Days
15	21ESKIT100	Saket jain	18-7-2022	08-04-2022	15 Days
16	21ESKCS817	Shreshtha Suri	18-7-2022	08-04-2022	15 Days
17	21ESKCS823	shruti sharma	18-7-2022	08-04-2022	15 Days
18	21ESKIT107	Tanishtha Sharma	18-7-2022	08-04-2022	15 Days
19	21ESKIT109	Tarun Kumar	18-7-2022	08-04-2022	15 Days
20	21ESKIT117	Vishal Agarwal	18-7-2022	08-04-2022	15 Days


Sample Certificates



असतो मा सद्गमय



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



CENTRE OF EXCELLENCE FOR INTERNET OF THINGS (IOT-COE)

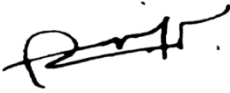
CERTIFICATE

of Completion


proudly presented to

Aakash gupta


for completion of 15 days of In-House Summer Internship 2022 on
Introduction to Internet of Things (IoT) from 18 July,2022 to 4 Aug,2022.



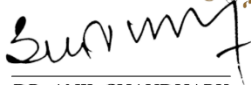
SH. JAIPAL MEEL
Director




DR. RAMESH KUMAR PACHAR
PRINCIPAL




DR. MUKESH GUPTA
Head, CSE



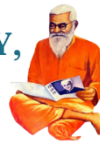
DR. ANIL CHAUDHARY
Head, IT



असतो मा सद्गमय



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



CENTRE OF EXCELLENCE FOR INTERNET OF THINGS (IOT-COE)

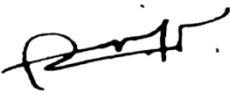
CERTIFICATE

of Completion


proudly presented to

Anurag lohar


for completion of 15 days of In-House Summer Internship 2022 on
Introduction to Internet of Things (IoT) from 18 July,2022 to 4 Aug,2022.



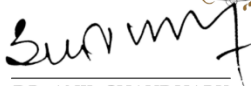
SH. JAIPAL MEEL
Director



DR. RAMESH KUMAR PACHAR
PRINCIPAL



DR. MUKESH GUPTA
Head, CSE



DR. ANIL CHAUDHARY
Head, IT

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

	<p style="text-align: center;">Department of Computer Science & Engineering / Information Technology (NBA Accredited)</p> <p style="text-align: center;">Summer Internship - 2021 2nd August-3rd September, 2021</p>	<p style="text-align: center;">SKIT SKIT IoT Center of Excellence</p>
--	--	---

Technically Sponsored By:

**IoT Center of Excellence
&**

IEEE Computer Society Chapter, IEEE Delhi Section



Table of Contents

Call for Summer Internship (2021) for 6 th Semester:.....	2
Student Registration List:.....	3
Training Schedule:.....	4
Glimpses of the sessions:.....	9
Learning Outcomes:	10
Certificate:.....	11
Feed Back Form:.....	15

Call for Summer Internship (2021) for 6th Semester:

Full stack Java Development with DevOps IoT Technologies

Notice

Dated: 06/06/2021

SKIT IoT Center of Excellence, invite applications for **13th batch of 'Summer Internship 2021'**. We have designed Summer Internship program to help and develop competitive knowledge backed by unmatched technology offerings that will help create talent pool of adaptive innovators, those with deep education in their home disciplines and ability to think and act across multiple disciplines to meet the challenges of software development in software industry.

We are thrilled that you're interested in summer training internship at SKIT. This Internship Program is a very competitive with only few seats (**30 seats: 25 open to all + 5 seats are reserved for rural background students**), which apply every year.

Training cum Internship Content's industry relevance can be verified from following web links:

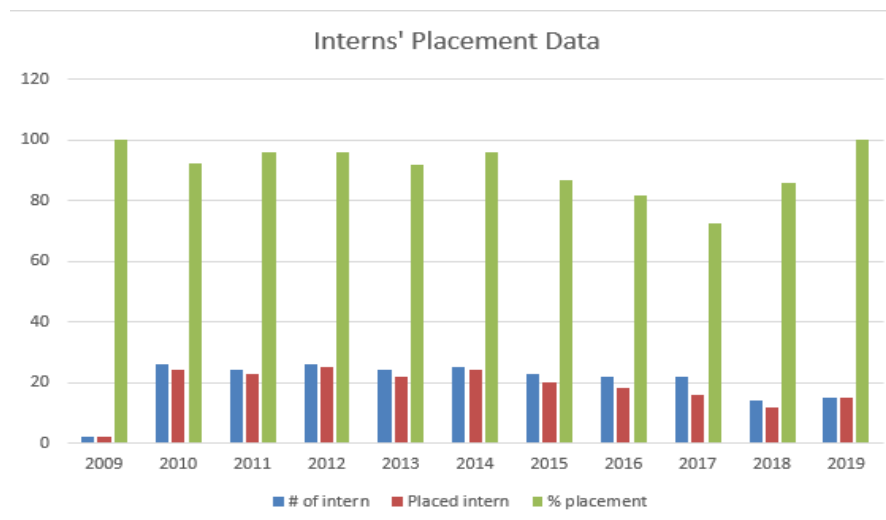
1. Core Java: <http://www.ibm.com/developerworks/java/>
2. Enterprise Java: <https://www.ibm.com/docs/en/was-zos/8.5.5?topic=applications-enterprise-java-ee>
3. IBM's Rational Application Developer (RAD): <http://www-03.ibm.com/software/products/en/application/>
4. DB2: <http://www-01.ibm.com/software/data/db2/linux-unix-windows/>
5. Spring boot: <https://spring.io/projects/spring-boot>
6. Angular (<https://angular.io/>), React(<https://reactjs.org/>)
7. Arduino: <https://www.arduino.cc/>
8. Raspberry Pi: <https://www.raspberrypi.org/>

So rush your brief resume/application at sohan.sain@skit.ac.in by 20th June, 2021.



(Anil Chaudhary)

Coordinator, Summer Internship



Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur

Student Registration List:

Google form link:

https://docs.google.com/forms/d/e/1FAIpQLSdLZwcXOEfXvIyB7NO5AkSs9YbX-qc0lpqlRPMzD2LWHL-Ixg/viewform?usp=sf_link

Summer Internship List 2021						
S.No.	Name	Roll Number	Branch	College Mail Id	E-mail id	Mobile
1	Abhinav Mishra	19ESKCS003	CSE	btech19eskes003@skit.ac.in	mishra00abhi@gmail.com	9680749131
2	Abhishek Tripathi	18ESKCS004	CSE	btech18eskes004@skit.ac.in	abhishektripathi2207@gmail.com	9351275515
3	Acchint kaur	18ESKIT002	IT	btech18eskit002@skit.ac.in	saachikaur19@gmail.com	7378177658
4	Aditya kumar	18ESKIT005	IT	btech18eskit005@skit.ac.in	adityakumar2482@gmail.com	8860876527
5	Aditya Tanwar	18ESKCS009	CSE	btech18eskes009@skit.ac.in	aditya.tanwar0404@gmail.com	9571445323
6	Aditya manu sharma	18ESKIT006	IT	btech18eskit006@skit.ac.in	adityambha1999@gmail.com	9829498064, 9352416153
7	Archika Dixit	19ESKIT015	IT	btech19eskit015@skit.ac.in	archikadt10@gmail.com	9649430440
8	Divyansh Sharma	18ESKCS048	CSE	btech18eskes048@skit.ac.in	divyanshjpr@gmail.com	7412889198
9	Harsh Modi	18ESKCS059	CSE	btech18eskes059@skit.ac.in	hanimodi2000@gmail.com	9649830288
10	Jahanvi Rathi	18ESKCS070	CSE	btech18eskes070@skit.ac.in	jahanvirathi2000@gmail.com	7023096989
11	Kalpna Modi	18ESKCS075	CSE	btech18eskes075@skit.ac.in	kalpanamodi2002@gmail.com	7414085183
12	Khushi goyal	19ESKCS118	CSE	btech19eskes118@skit.ac.in	khushigoyal018@gmail.com	9119384272
13	Livisha jain	18ESKCS400	CSE	btech18eskes400@skit.ac.in	jainlivisha211@gmail.com	7878401272
14	Mayank Saxena	18ESKIT047	IT	btech18eskit047@skit.ac.in	saxenamayank.153@gmail.com	6377791534
15	Mishal gupta	18ESKIT048	IT	btech18eskit048@skit.ac.in	mishalgupta2001@gmail.com	9784453761
16	Mohit Babani	19ESKCS143	CSE	btech19eskes143@skit.ac.in	mohit.babani01@gmail.com	8529402670
17	Mohit Vijay	19ESKCS147	CSE	btech19eskes147@skit.ac.in	mohit251vijay@gmail.com	7357929667
18	Mudit Maheshwari	18ESKCS100	CSE	btech18eskes100@skit.ac.in	muditmaheshwari100@gmail.com	7300262478
19	Nikhil Sharma	18ESKCS108	CSE	btech18eskes108@skit.ac.in	nikhilsharma1552000@gmail.com	9636241578
20	Priti Agarwal	18ESKCS124	CSE	btech18eskes124@skit.ac.in	pritiagarwal021@gmail.com	9460860884
21	Ritika Jain	18ESKCS301	CSE	btech18eskes301@skit.ac.in	ritika8233@gmail.com	6377949390
22	Ronak Vijayvergia	19ESKCS808	CSE	btech19eskes808@skit.ac.in	ronak2001.kv@gmail.com	9460991467
23	Saijal Gulyani	18ESKCS300	CSE	btech18eskes300@skit.ac.in	saijalgulyani@gmail.com	6350053393
24	Shreyansh Jain	18ESKCS159	CSE	btech18eskes159@skit.ac.in	shreyanshjainsi1004@gmail.com	9166915066
25	Shruti Agarwal	18ESKCS160	CSE	btech18eskes160@skit.ac.in	shruti.amit.agrawal@gmail.com	8947965549
26	Skand Gupta	18ESKIT083	IT	btech18eskit083@skit.ac.in	gupta.skend@gmail.com	7220978160
27	Sourav Shandilya	18ESKCS306	CSE	btech18eskes306@skit.ac.in	souravshandilya1998@gmail.com	7783073122
28	Srishti Gupta	18ESKCS169	CSE	btech18eskes169@skit.ac.in	srishtigupta191@gmail.com	8979190966
29	Vishal Prajapat	18ESKCS182	CSE	btech18eskes182@skit.ac.in	vkprajapat4248@gmail.com	9649144248

Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur

30	Yash Khandelwal	18ESKCS187	CSE	btech18esks187@skit.ac.in	khandelwalyash2710@gmail.com	8696946625
31	Amit Sharma	18ESKCS019	CSE	btech18esks019@skit.ac.in	amit.sharma.28700043@gmail.com	8949076440, 8824057050
32	Sumedha Sharma	18ESKCS171	CSE	btech18esks171@skit.ac.in	sharmasumedha01@gmail.com	6377828216
33	Mahima Dariyani	18ESKEC045	ECE	btech18eskec045@skit.ac.in	mahidariyani05@gmail.com	9602170927

Training Schedule:

Swami Keshvanand Institute of Technology Management & Gramothan, Jaipur							Learning Path
Tentative Schedule of Summer Training 2021							
Department of Computer Science & Information Technology							
Date	Days	Topic	Time			No of hours	Core Java Track
2-Aug-2021	Day 1	Unit-1 Java Basics	8:00 AM	To	11:00 AM	3:00	
		Chapter 1: Overview of Java	8:00 AM	To	9:00 AM	1:00	
		Chapter 2: Operators, Expressions and Control Flow	9:00 AM	To	10:00 AM	1:00	
		Chapter 3: Operations, Expressions and Control Flow Lab.	10:00 AM	To	11:00 AM	1:00	
		OLTP Case Study discussion & Distribution	11:30 AM	To	3:30 PM	4:00	
		OLTP Case Study discussion in mapping with CIO's top 10 IT Skills Growing in demand: java/python (10/21%)	8:00 AM	To	3:30 PM	7:30	
3-Aug-2021	Day 2	Unit-2 Object Oriented Programming	8:00 AM	To	11:00 AM	3:00	
		Chapter 1: Classes, Objects and References	8:00 AM	To	9:00 AM	1:00	
		Chapter 2: Classes, Objects and References Lab	8:00 AM	To	9:00 AM	1:00	
		Chapter 3: Inheritance	9:00 AM	To	10:00 AM	1:00	
		Chapter 4: Inheritance Lab.	9:00 AM	To	10:00 AM	1:00	
		Chapter 5: Abstract Classes and Interfaces	10:00 AM	To	11:00 AM	1:00	
		Chapter 6: Abstract Classes and Interfaces Lab.	10:00 AM	To	11:00 AM	1:00	
		Chapter 7: Packages	11:00 AM	To	11:30 AM	0:30	
		OLTP Case Study discussion in mapping with CIO's top 10 IT Skills Growing in demand: java/python (10/21%)	8:00 AM	To	3:30 PM	7:30	
4-Aug-2021	Day 3	Unit-3 Exception Handling	8:00 AM	To	11:00 AM	3:00	
		Chapter 1: Exception Handling and Types of Exceptions	8:00 AM	To	9:00 AM	1:00	
		Chapter 2: Raising & Handling Exceptions	9:00 AM	To	10:00 AM	1:00	
		Chapter 3: Raising and Handling Exceptions Lab.	10:00 AM	To	11:00 AM	1:00	
		OLTP Case Study discussion in mapping with CIO's top 10 IT Skills Growing in demand: java/python (10/21%)	11:00 AM	To	2:00 PM	3:00	
		Unit-4: Input/Output Facilities	8:00 AM	To	11:00 AM	3:00	
		Chapter 1: Files and Stream	8:00 AM	To	9:00 AM	1:00	
		Chapter 2: Files and Streams Lab.	8:00 AM	To	9:00 AM	1:00	

Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur

		Chapter 3: Object Serialization	9:00 AM	To	10:00 AM	1:00	Enterprise Java Track
		OLTP Case Study discussion in mapping with CIO's top 10 IT Skills Growing in demand: java/python (10/21%)	8:00 AM	To	3:30 PM	7:30	
5-Aug-2021	Day 4	Chapter 4: Object Serialization Lab.	10:00 AM	To	11:00 AM	1:00	
		OLTP Case Study discussion in mapping with CIO's top 10 IT Skills Growing in demand: java/python (10/21%)	8:00 AM	To	3:30 PM	7:30	
6-Aug-2021	Day 5	Unit-5: Graphical Interface using AWT	8:00 AM	To	11:00 AM	3:00	
		Chapter 1: AWT Components and Containers	8:00 AM	To	9:00 AM	1:00	
		Chapter 2: AWT Components and Containers Lab	8:00 AM	To	9:00 AM	1:00	
		Chapter 3: Layout Managers	9:00 AM	To	10:00 AM	1:00	
		Chapter 4: Layout Managers Lab.	9:00 AM	To	10:00 AM	1:00	
		Chapter 5: Event Driven Model and Event Handling	10:00 AM	To	11:00 AM	1:00	
		Chapter 6: Event Driven Model and Event Handling Lab.	10:00 AM	To	11:00 AM	1:00	
		OLTP Case Study discussion in mapping with CIO's top 10 IT Skills Growing in demand: java/python (10/21%)	8:00 AM	To	3:30 PM	7:30	
7-Aug-2021	Day 6	Unit-6: Applets	8:00 AM	To	11:00 AM	3:00	
		Chapter 1: Writing and Deploying Applets	8:00 AM	To	9:00 AM	1:00	
		Chapter 2: Writing and Deploying Applets Lab.	9:00 AM	To	10:00 AM	1:00	
		Multithreading & Networking	10:00 AM	To	11:00 AM	1:00	
		OLTP Case Study discussion in mapping with CIO's top 10 IT Skills Growing in demand: java/python (10/21%)	8:00 AM	To	3:30 PM	7:30	
9-Aug-2021	Day 7	Unit-7: Multithreading and Networking	8:00 AM	To	11:00 AM	3:00	
		Chapter 1: Creating Threads	8:00 AM	To	9:00 AM	1:00	
		Chapter 2: Creating Threads Lab.	8:00 AM	To	9:00 AM	1:00	
		Chapter 3: Thread Synchronization	9:00 AM	To	10:00 AM	1:00	
		Chapter 4: Thread Synchronization Lab	9:00 AM	To	10:00 AM	1:00	
		Chapter 5: Working with URLs and Socket Programming	10:00 AM	To	11:00 AM	1:00	
		Chapter 6: Working with URLs and Socket Programming Lab.	10:00 AM	To	11:00 AM	1:00	
		OLTP Case Study discussion in mapping with CIO's top 10 IT Skills Growing in demand: java/python (10/21%)	8:00 AM	To	3:30 PM	7:30	
10-Aug-2021	Day 8	Unit-8: Advanced Concepts	8:00 AM	To	11:00 AM	3:00	
		Chapter 1: Collection API	8:00 AM	To	9:00 AM	1:00	
		Chapter 2: Collections API Lab.	9:00 AM	To	10:00 AM	1:00	
		Chapter 3: JDBC	10:00 AM	To	11:00 AM	1:00	

Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur

		Chapter 4: JDBC Lab.	10:00 AM	To	11:00 AM	1:00
		Chapter 5: Advanced JDBC	10:00 AM	To	11:00 AM	1:00
		Chapter 6 : Advanced JDBC Lab.	11:00 AM	To	12:00 PM	1:00
		Chapter 7: Reflection API	11:00 AM	To	12:00 PM	1:00
		Chapter 8: Reflection API Lab.	12:00 PM	To	1:00 PM	1:00
		Chapter 9: Advanced Features	12:00 PM	To	1:00 PM	1:00
		Chapter 10: Advanced Features Lab.	1:00 PM	To	2:00 PM	1:00
		OLTP Case Study discussion in mapping with CIO's top 10 IT Skills Growing in demand: java/python (10/21%)	8:00 AM	To	3:30 PM	7:30
11-Aug-2021	Day 9	Unit-9:Java Foundation Classes (JFC)	8:00 AM	To	11:00 AM	3:00
		Chapter 1: MVC Architecture and Swing Classes	8:00 AM	To	9:00 AM	1:00
		Chapter 2: Swing Components	9:00 AM	To	10:00 AM	1:00
		Chapter 3: Swing Components Lab.	10:00 AM	To	11:00 AM	1:00
		Advance Concept	10:00 AM	To	11:00 AM	1:00
		OLTP Case Study discussion in mapping with CIO's top 10 IT Skills Growing in demand: java/python (10/21%)	8:00 AM	To	3:30 PM	7:30
12-Aug-2021	Day 10	Unit -10: J2EE	8:00 AM	To	11:00 AM	3:00
		Chapter 1: Overview of J2EE	8:00 AM	To	9:00 AM	1:00
		Chapter 2: Evaluation of web Application	9:00 AM	To	10:00 AM	1:00
		Chapter 3: MVC & J2EE Architecture	10:00 AM	To	11:00 AM	1:00
		Chapter 4: J2EE Components & Container	10:00 AM	To	11:00 AM	1:00
		OLTP Case Study discussion in mapping with CIO's top 10 IT Skills Growing in demand: Cyber Security (2/77%)	8:00 AM	To	3:30 PM	7:30
13-Aug-2021	Day 11	Unit-11: Server Side Components-Part-1	8:00 AM	To	11:00 AM	3:00
		Chapter 1: Java Servlet	8:00 AM	To	9:00 AM	1:00
		Chapter 2: Java Server Pages	9:00 AM	To	10:00 AM	1:00
		Chapter 3: Java Server Faces	10:00 AM	To	11:00 AM	1:00
		OLTP Case Study discussion in mapping with CIO's top 10 IT Skills Growing in demand: Cyber Security (2/77%)	8:00 AM	To	3:30 PM	7:30
14-Aug-2021	Day 12	Unit-11: Server Side Components-Part-2	8:00 AM	To	11:00 AM	3:00
		Chapter 1: EJB 3.0	8:00 AM	To	9:00 AM	1:00
		Chapter 2: Java Persistent API	9:00 AM	To	10:00 AM	1:00
		Chapter 3: Web Services	10:00 AM	To	11:00 AM	1:00
		OLTP Case Study discussion in mapping with CIO's top 10 IT Skills Growing in demand: Information Security (9/30%)	8:00 AM	To	3:30 PM	7:30

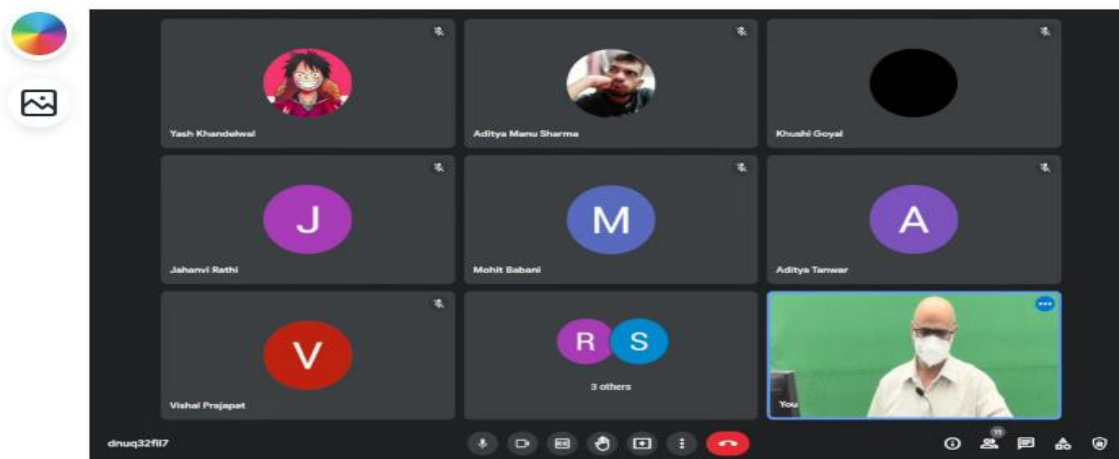
Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur

16-Aug-2021	Day 13	Unit-12:RAD - Part-1	8:00 AM	To	11:00 AM	3:00	
		Module 1 Course Introduction	8:00 AM	To	9:00 AM	1:00	
		Module 2 IBM Rational Application Developer Basics	9:00 AM	To	10:00 AM	1:00	
		Module 3 Java Development	10:00 AM	To	11:00 AM	1:00	
		Module 4 Web Tools Basics	11:00 AM	To	3:30 PM	4:30	
		OLTP Case Study discussion in mapping with CIO's top 10 IT Skills Growing in demand: java/python (10/21%)	8:00 AM	To	3:30 PM	7:30	
17-Aug-2021	Day 14	Unit 13: DB2	8:00 AM	To	11:00 AM	3:00	
		DB2 Planning	8:00 AM	To	9:00 AM	1:00	
		DB2 Security	9:00 AM	To	10:00 AM	1:00	
		Working with Databases	10:00 AM	To	11:00 AM	1:00	
		OLTP Case Study discussion in mapping with CIO's top 10 IT Skills Growing in demand: Hadoop (6/38%)	8:00 AM	To	3:30 PM	7:30	
18-Aug-2021	Day 15	OLTP Architecture	8:00 AM	To	2:00 PM	6:00	
		Presentation tier	8:00 AM		9:30 AM	1:30	
		Application Tier	9:30 AM		11:00 AM	1:30	
		JPA layer	11:00 AM		12:00 PM	1:00	
		Enterprise Information System Tier	12:00 PM		1:00 PM	1:00	
		OLTP File System	1:00 PM		3:30 PM	2:30	
		OLTP Case Study discussion in mapping with CIO's top 10 IT Skills Growing in demand: Salesforce (5/43%)	8:00 AM	To	3:30 PM	7:30	
19-Aug-2021	Day 16	OLTP case Study: technical	8:00 AM	To	2:00 PM	6:00	
		UI interface components at web tier	8:00 AM		9:30 AM	1:30	
		Controls at Application	9:30 AM		11:00 AM	1:30	
		JPA APIs	11:00 AM		12:00 PM	1:00	
		Database	12:00 PM		1:00 PM	1:00	
		Reporting	1:00 PM		3:30 PM	2:30	
		OLTP Case Study discussion in mapping with CIO's top 10 IT Skills Growing in demand: Cloud (8/34%)	8:00 AM	To	3:30 PM	7:30	
20-Aug-2021	Day 17	JAZZ integration: SCM	8:00 AM	To	3:30 PM	7:30	
		Introduction to JAZZ	8:00 AM		9:30 AM	1:30	
		RTC overview	9:30 AM	To	11:30 AM	2:00	
		OLTP configuration to JAZZ	11:30 AM	To	1:00 PM	1:30	
		Accessing OLTP at clients	1:00 AM	To	3:30 PM	14:30	
		OLTP Case Study discussion in mapping with CIO's top 10 IT Skills Growing in demand: Puppet/JIRA (1/91%) (7/35%)	8:00 AM	To	3:30 PM	7:30	
21-Aug-2021	Day 18	Machine Learning Library (MLlib) Programming	8:00 AM		9:30 AM	1:30	AI: Machine
		Classification and regression	9:30 AM	To	11:30 AM	2:00	

Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur

		Linear models (SVMs, logistic regression, linear regression)	11:30 AM	To	1:00 PM	1:30	
		naive Bayes, decision trees, ensembles of trees (Random Forests and Gradient-Boosted Trees)	1:00 PM	To	3:30 PM	2:30	
23-Aug-2021	Day 19	Collaborative filtering	8:00 AM		9:30 AM	1:30	
		Alternating Least Squares (ALS)	9:30 AM	To	11:30 AM	2:00	
		Clustering	11:30 AM	To	1:00 PM	1:30	
		Dimensionality reduction	1:00 PM	To	3:30 PM	2:30	
24-Aug-2021	Day 20	Singular Value Decomposition (SVD)	8:00 AM	To	3:30 PM	7:30	
		principal component analysis (PCA)	8:00 AM		9:30 AM	1:30	
		Feature extraction and transformation	9:30 AM	To	11:30 AM	2:00	
		Optimization (developer)	11:30 AM	To	1:00 PM	1:30	
		Stochastic gradient descent	1:00 AM	To	3:30 PM	14:30	
		limited-memory BFGS (L-BFGS)	8:00 AM	To	3:30 PM	7:30	
25-Aug-2021	Day 21	Angular 8 — Introduction	8:00 AM	To	3:30 PM	7:30	
		Angular 8 — Creating First Application	8:00 AM		9:30 AM	1:30	
		Angular 8 — Architecture	9:30 AM	To	11:30 AM	2:00	
26-Aug-2021	Day 22	Angular 8 — Angular Components and Templates	8:00 AM		9:30 AM	1:30	
		Angular 8 — Data Binding	9:30 AM	To	11:30 AM	2:00	
		Angular 8 — Directives	11:30 AM	to	3:30 PM	4:00	
		Angular 8 — Pipes	11:30 AM	to	3:30 PM	4:00	
		Angular 8 — Reactive Programming	8:00 AM	To	3:30 PM	7:30 AM	
		Angular 8 — Services and Dependency Injection	8:00 AM	To	3:30 PM	7:30	
		Angular 8 — Http Client Programming	8:00 AM	To	3:30 PM	7:30	
27-Aug-2021	Day 23	Angular 8 — Routing and Navigation	8:00 AM	To	3:30 PM	7:30	
		Angular 8 — Forms and validations	8:00 AM	To	3:30 PM	7:30	
		Angular 8 — Authentication and Authorization	8:00 AM	To	3:30 PM	7:30	
		Angular 8 — Server Side Rendering					
28-Aug-2021	Day 24	IOT Introduction & need	8:00 AM	To	3:30 PM	7:30	
		Raspberry Pi - Introduction	8:00 AM	To	3:30 PM	7:30	
		Raspberry Pi - Getting Started	8:00 AM	To	3:30 PM	7:30	
		Raspberry Pi - Configuration	8:00 AM	To	3:30 PM	7:30	
		Raspberry Pi - Operating System	8:00 AM	To	3:30 PM	7:30	
		Raspberry Pi - Third-party Software Package	8:00 AM	To	3:30 PM	7:30	
(Anil Chaudhary), Internship Coordinator, 2021							

Glimpses of the Sessions:



Learning Outcomes:

After completing of this Summer Internship, students are able to:

- Uses of java as a programming language for IoT and its applications.
- Identify the technological challenges brought by IoT.
- Explain the impact of IoT on governance and society.
- Implement IoT to solve real-world problems while using Angular and React as UI designing technologies.
- Build JEE based enterprise application.
- Boost their ability through innovative and independent learning.
- Get a certificate on successful completion of the course.

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

Certificate:



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



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



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



Certificate of Completion

This is to certify that Mr./Ms. Abheet yadav has successfully completed the **“Summer Internship – 2021”** from 1st September to 15th September at **“SKIT- RTU IoT Centre of Excellence”**.

Prof. (Dr.) Mukesh Kumar Gupta
HOD, (CSE)

Prof. (Dr.) Anil Chaudhary
HOD, (IT)

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



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



Certificate of Completion

This is to certify that Mr./Ms. ABHISHEK Garg has successfully completed the **“Summer Internship – 2021”** from 1st September to 15th September at **“SKIT- RTU IoT Centre of Excellence”**.

Prof. (Dr.) Mukesh Kumar Gupta
HOD, (CSE)

Prof. (Dr.) Anil Chaudhary
HOD, (IT)

Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur

Feed Back Form:

S.No.	Timestamp	Email Address	Salute	Participant Name	Department	Institute Name	Contact No.	Clarity of Course objectives at the start	Training met the stated objectives	Learning material and training aid	Improvement in level of knowledge	Flow of presentation of topics	Examples/ Analogies	About audio and video class quality.	Instructor delivery	Overall Experience
1	9/7/2021 10:39:44	abhishektripathi2207@gmail.com	Mr.	Abhishek Tripathi	CSE	SKIT JAIPUR	9351275515	5	5	5	5	5	5	5	5	5
2	9/7/2021 10:41:06	vkprajapat4248@gmail.com	Mr.	Vishal Prajapat	CSE	SKIT JAIPUR	9649144248	4	3	4	4	4	4	4	4	4
3	9/7/2021 10:44:15	shreyanshjainsj1004@gmail.com	Mr.	Shreyansh Jain	CSE	SKIT JAIPUR	9166915066	5	4	5	4	5	3	5	5	4
4	9/7/2021 10:44:56	muditmaheshwari100@gmail.com	Mr.	Mudit Maheshwari	CSE	SKIT JAIPUR	7300262478	4	5	5	5	4	3	5	4	4
5	9/7/2021 10:47:11	btech18esks169@skit.ac.in	Ms.	Srishti Gupta	CSE	SKIT JAIPUR	8979190966	3	3	4	4	4	3	4	3	4
6	9/7/2021 11:01:00	jahanvirathi2000@gmail.com	Ms.	Jahanvi Rathi	CSE	SKIT JAIPUR	7023096989	1	4	4	4	4	4	4	4	4
7	9/7/2021 11:14:05	souravshandilya1998@gmail.com	Mr.	Sourav Shandilya	CSE	SKIT JAIPUR	7783073122	5	4	4	4	3	5	3	4	4
8	9/7/2021 11:29:06	nikhilsharma1552000@gmail.com	Mr.	Nikhil Sharma	CSE	SKIT JAIPUR	9636241578	5	5	5	5	5	5	5	5	5
9	9/7/2021 11:40:50	adityambha1999@gmail.com	Mr.	Aditya Manu Sharma	IT	SKIT JAIPUR	9829498064	4	4	4	4	4	4	4	4	4
10	9/7/2021 12:24:24	mohit251vijay@gmail.com	Mr.	Mohit vijay	CSE	SKIT JAIPUR	7357929667	4	4	4	5	4	4	4	4	4
11	9/7/2021 12:46:22	kalpanamodi2002@gmail.com	Ms.	Kalpana Modi	CSE	SKIT JAIPUR	7414085183	5	5	5	5	5	5	5	5	5
12	9/7/2021 12:50:40	hanimodi2000@gmail.com	Mr.	Harsh Modi	CSE	SKIT JAIPUR	9649830288	5	5	5	5	5	5	5	5	5
13	9/7/2021 16:07:46	aditya.tanwar0404@gmail.com	Mr.	Aditya Tanwar	CSE	SKIT JAIPUR	9571445323	5	4	4	5	5	5	5	5	5
14	9/8/2021 11:08:20	sharmasumedha01@gmail.com	Ms.	Sumedha Sharma	CSE	SKIT JAIPUR	6377828216	4	5	5	5	5	5	5	5	5
15	9/8/2021 17:58:23	saijalgulyani@gmail.com	Ms.	Saijal Gulyani	CSE	SKIT JAIPUR	6350053393	5	5	4	4	4	4	5	5	4
16	9/8/2021 21:31:22	mishalgupta2001@gmail.com	Mr.	Mishal Gupta	IT	SKIT JAIPUR	9784453761	3	4	4	4	4	4	4	4	4
17	9/8/2021 22:52:39	btech19esks003@skit.ac.in	Mr.	Abhinav Mishra	CSE	SKIT JAIPUR	9680749131	5	5	5	5	5	5	5	5	5

-THANK YOU-