

Report on One Week OFDP
on "Emerging Trends in Data Science & IoT"
Held on 20.07.2020 to 26.07.2020

Date of Event	20.07.2020 to 26.07.2020
Name and Type of Event	One Week FDP on "Emerging Trends in Data Science & IoT"
Conducted by	Dr. Arun Kumari Marandi, Mrs. Sweta Kumari Barnwal, Mr. Arvind Kumar Pandey
No. Of Participant	577

A One Week OFDP on "**Emerging Trends in Data Science & IoT**" was organized for the PG Students, Research Scholars, Faculties, Academicians, Industrial Experts, Professional, Government Employee, Self Employed etc. on 20.07.2020 to 26.07.2020 via Google Meet which was being coordinated by, Dr. Arun Kumari Marandi, Ms. Sweta Kumari Barnwal, Prof. Arvind Kumar Pandey, Head of CS and IT Department. The session was taken by several Professors from renowned colleges/university (IIT/NIT) of India

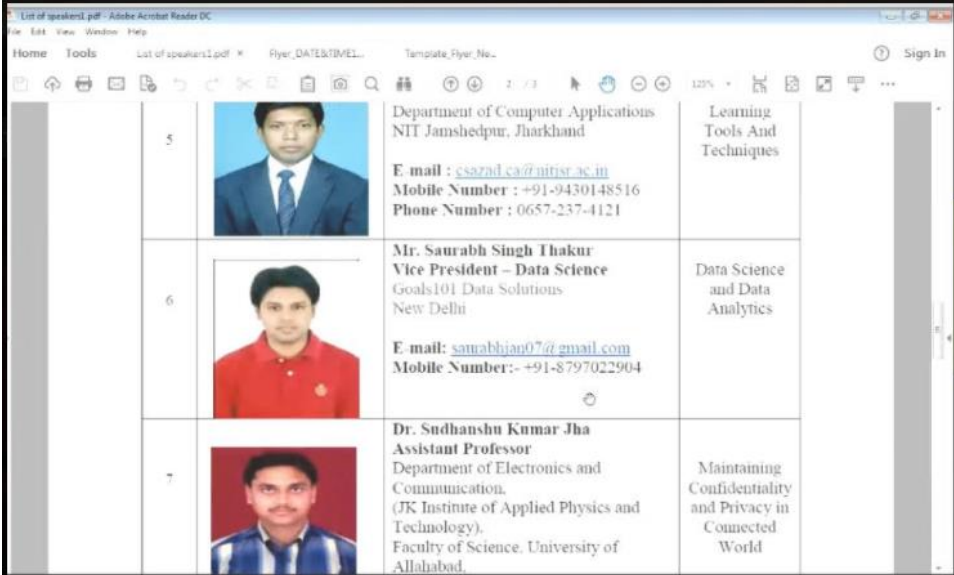
The Aim of this OFDP was to provide advanced knowledge to the participants. More than 500 Participants participated in this event. Certification was being issued to the one whose attendance was more than 70%.




All Professors were highly educated in their area given very informative knowledge. This was six Day Program, participants from India & Abroad actively participated in the event.


E-Certificate was provided to the active participants after filling feedback/attendance form on daily basis.

No Registration Fees Taken.

1. Photo of the Event



5		Department of Computer Applications NIT Jamshedpur, Jharkhand E-mail : csarad.ca@nitjrr.ac.in Mobile Number : +91-9430148516 Phone Number : 0657-237-4121	Learning Tools And Techniques
6		Mr. Saurabh Singh Thakur Vice President – Data Science Goals101 Data Solutions New Delhi E-mail: saurabhjan07@gmail.com Mobile Number:- +91-8797022904	Data Science and Data Analytics
7		Dr. Sudhanshu Kumar Jha Assistant Professor Department of Electronics and Communication, (JK Institute of Applied Physics and Technology), Faculty of Science, University of Allahabad.	Maintaining Confidentiality and Privacy in Connected World



Dr. Arun Marandi

IoT Application : Solar Power Technology for Rural India

.....Optimal Utilization of PV Energy of Jal Minar by Integrating it with Solar Power Converter for Rural Home Loads using IoT Technology....



Presented
By
Prof(Dr).S.N.Singh
Deptt of Electronics & Comm. Engg

National Institute of Technology, Jamshedpur
(An Institution of National Importance Under MHRD, Govt. of India)

Prof. (Dr.) S.N. Singh, NATIONAL INSTITUTE OF TECHNOLOGY



S N SINGH (Electronics)

meet.google.com/xak-agoq-cmz7pli=18authuser=0

REC Dr. Om Pal is presenting

6:04 PM

Dr. Om Pal

Sweta Barnwal

Sweta Barnwal

Anurag patel

Blockchian technology is not a replacement of Public Key Infrastructure (PKI)

- In Blockchain technology, members of the network keep the transactions' data in form of decentralized ledger
- Copy of each transaction, hash of transaction data and hash of previous block is stored in a form of ledger with each member of the network.

Diagram illustrating a decentralized ledger structure:

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graph LR
    B9[B9] --- B10[B10]
    B10 --- B11[B11]
    B11 --- B12[B12]
    B12 --- B13[B13]
  
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PM 6:04 25-07-2020

meet.google.com/xak-agoq-cmz7pli=18authuser=0

REC

5:56 PM

Saurabh Singh

Sweta Barnwal

Dr. Om Pal




Sweta Barnwal


PM 5:56 25-07-2020

<p>About ARKA Jain University</p> <p>With a vision to empower talent through its innovative learning experience, ARKA JAIN University, Jharkhand intends to become an educational hub for millions of young minds across the country and internationally. Situated at the 1st industrial town of India, popularly known as Tatanagar or Jamshedpur, named after visionary industrialist Shri J.N. Tata, founder of Tata Group, the university has evolved magnificently over the last few years. ARKA JAIN University enlightens each and every aspiring student on higher education and career choices. Its ever-evolving and open-minded system encourages students to exceed expectations in their area of interest, thus, guiding them to become ethically sound individuals. Due to its quest for continued success and resilience, ARKA JAIN University, Jharkhand is on its way to become one of the top universities in eastern India. The university, which is spread across 25 acres, has left no stone unturned in providing state-of-the-art facilities in various sectors including education, sports, entrepreneurship, research, and its other ventures. In Feb'2017, the JHARKHAND State Legislature under "The ARKA JAIN University Act" established ARKA JAIN University. The University is a government-recognized university with the right to confer degrees as per the Sections 2(f) and 22(1) of the UGC Act, 1956. The sprawling campus of the University is situated at Gambaria, Dist. Seraikela – Kharsawan, 13 km from steel city Jamshedpur. The University offers multi-disciplinary programs, all of which are designed to be industry-relevant.</p> <p>About the Department</p> <p>Department of Computer Science & Information Technology offers education and skills needed for leadership in a rapidly changing world. With an enduring dedication to the pursuit of excellence, University offers unparalleled student experiences across a broad spectrum of academic environments.</p>	<p>About the Short Term Programme (OFDP- ETDSIoT)</p> <p>Online FDP on Emerging Trends in Data Science & IOT (ETDSIoT-2020) to be hosted by Department of Computer Science and Information Technology, Arka Jain University, Jharkhand is intended to assist the students, researchers and professionals mainly from academic institutions, industry of IT fields and other agencies of Indian country to share their knowledge and to develop mutual training and research activities in Information Technology. Information Technology is the fastest growing sector of the market, and with the evolution of new technologies to help businesses operate efficiently and effectively.</p> <p>Topics to be covered</p> <ul style="list-style-type: none"> • Introduction to IoT • What is Internet of Things • Background & Significance • IoT Technologies • IoT for Weather Monitoring • Scope of IoT in Machine Learning • Scope of IoT in Artificial Intelligence • Architecture of IoT • Wireless Sensor Network and IoT • Network Architecture of IoT Protocols • Introduction to Sensors • Sensor Calibration • Sensor Maintenance • Sensor Deployment • Powering options for Sensors • Artificial Neural Network in Machine Learning • Machine Learning Tools and Techniques • Data Science and Data Analytics • Application of Data Science • Perspective Research and Views • Research tools and Techniques 	<p>Arka Jain University, Jamshedpur, Jharkhand.</p> <p>We are happy to inform you that Department of Computer Science & Information Technology, organizing the online Faculty Development Program on "EMERGING TRENDS IN DATA SCIENCE & IOT", from 20.07.2020 to 25.07.2020 for the PG Students, Research Scholars, Faculties, Academicians, Industrial Experts, Professional, Government Employee, Self Employed etc.</p> <p>We sincerely request to you kindly register yourself through given link and circulate the same among your contacts. OFDP Link will be sent to the registered Participants via Email and What'sApp group.</p> <p>Registration link: https://forms.gle/oSaiPradPkc8fFa7</p> <p>Kindly join our What's App group after registration for further updates & feedback form:</p> <p>1. https://chat.whatsapp.com/JekMoZnU4k2DuxaY7yyoSh</p> <p>2. https://chat.whatsapp.com/KkF1wk8Mf5vHft2JNshSFo</p> <p>E-Certificate will be provided to the active participants after filling feedback/attendance form on daily basis.</p> <p>No Registration Fee</p> <p>Registration closes by 19th July 2020, 19:00 hrs.</p> <p>For further information contact us: Dr. Arun Kumar Marandi (dr.arun@arkajainuniversity.ac.in) (+91 9931317668), Sweta Kumari Barawal (sweta.b@arkajainuniversity.ac.in) (+91-7992330735)</p>
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2. List of Experts:

Online Faculty Development Program on **“Emerging Trends in Data Science & IoT”** organized by Department of Computer science & Information Technology, ARKA Jain University, Jamshedpur Jharkhand held from 20th to 26th July 2020. List of Speakers and Experts are as follows: -

S.No	Expert and Speakers	Speaker's Profile	Topics
1		<p>Prof. Shiva Nand Singh Professor & Head Department of Electronics & Communication Engineering NIT Jamshedpur, Jharkhand</p> <p>E-mail : snsingh.ece@nitjsr.ac.in Phone Number : 0657-237-4122 Mobile Number : +91-8789411814, +91-7739222532</p>	<p>IOT Applications in Solar Power Technology</p>
2		<p>Dr. Jayendra Kumar Assistant Professor Department of Electronics & Communication Engineering NIT Jamshedpur, Jharkhand</p> <p>E-mail : jkumar.ece@nitjsr.ac.in Phone Number : 0657-237-4082 Mobile Number : +91-9835169351</p>	<p>IOT Applications And Protocols</p>
3		<p>Dr. Sunil Kumar Singh Assistant Professor Department of Computer Science and Engineering, VIT-AP University Amravati, A.P.</p> <p>E-Mail:- sunil.singh@vitap.ac.in Mobile Number:- +91-9155238352</p>	<p>Wireless sensor networks and Role of Sensors in IoT</p>

4		Mr. Dharmveer Kumar Yadav Assistant Professor Department of Computer Science & Technology- Bihar Katihar Engineering College, Katihar E-Mail:- kumar.dharmveer@gmail.com Mobile Number:- +91-8757760847	Artificial Neural Network In Machine Learning
5		Dr. Chandrashekhar Azad Assistant Professor Department of Computer Applications NIT Jamshedpur, Jharkhand E-mail : csazad.ca@nitjsr.ac.in Mobile Number : +91-9430148516 Phone Number : 0657-237-4121	Machine Learning Tools And Techniques
6		Mr. Saurabh Singh Thakur Vice President – Data Science Goals101 Data Solutions New Delhi E-mail: saurabhjan07@gmail.com Mobile Number:- +91-8797022904	Data Science and Data Analytics
7		Dr. Sudhanshu Kumar Jha Assistant Professor Department of Electronics and Communication, (JK Institute of Applied Physics and Technology), Faculty of Science, University of Allahabad, Prayagraj - 211 002 (Uttar Pradesh), INDIA E-mail: sudhanshukumarjha@gmail.com Mobile Number :- +91-9470311972	Maintaining Confidentiality and Privacy in Connected World
8		Dr. Dindayal Mahto Assistant Professor-III Dept. of IT, SoC, SASTRA Deemed to be UNIVERSITY Tirumalaisamudram Thanjavur - 613401. Tamilnadu, India. E-mail: dindayalmahto@it.sastra.edu Mobile Number :- +91-7979805487	Data communication security.

9		Dr. Om Pal Yadav Scientist –D R&D in IT Group, Ministry of Electronics & Information Technology, (MeitY), Govt. of INDIA E-mail:- op.yadav@meity.gov.in Mobile Number:- +91-8929874957	1. Quantum computing and its applications 2. Quantum Security 3. Blockchain Technology.
10		Dr. Ashok Kumar Mehta Associate Professor Department of Computer Applications NIT Jamshedpur E-mail:- akmehta.ca@nitjsr.ac.in Mobile Number : +91-7903049929 Phone Number : 0657-237-4121	Classification Using Support Vector Machine

3. Details of Event:

Final Schedule of OFDP- ETDSIoT- 2020 20th July to 25th July

S.No	DATE and Timing	Expert and Speakers	Topics	Expert and Speakers	Topics
DAY 1	MONDAY 20-07-2020 Day-1 Link:- https://meet.google.com/nub-dxgf-nok	Session 1 Time:- 5:30 P.M to 6:20 P.M. Prof. Shiva Nand Singh Professor & Head NIT Jamshedpur	IoT Applications in Solar Power Technology	Session 2 Time:- 6:30 P.M to 7:20 P.M. Dr. Jayendra Kumar Assistant Professor NIT Jamshedpur	IoT Applications And Protocols
DAY 2	TUESDAY 21-07-2020 Day-2 Link:- https://meet.google.com/uii-ypxt-pay	Session 3 Time:- 5:00 P.M. to 6:00 P.M. Dr. Sudhanshu Kumar Jha Assistant Professor Faculty of Science, University of Allahabad, Prayagraj - 211 002 (Uttar Pradesh), INDIA	Maintaining Confidentiality and Privacy in Connected World	Session 4 Time:- 6:00 P.M. to 7:00 P.M. Dr. Om Pal Yadav Scientist –D R&D in IT Group, Ministry of Electronics & Information Technology Govt. of INDIA	Quantum computing and its applications

DAY 3	WEDNESDAY 22-07-2020 Day-3 Link:- https://meet.google.com/thv-vefp-kqs	Session 5 Time:- 5:00 P.M. to 6:00 P.M. Dr. Sunil Kumar Singh Assistant Professor VIT-AP University, Amravati, A.P.	Wireless sensor networks and Role of Sensors in IoT	Session 6 Time :- 6:00 P.M. to 7:00 P.M Dr. Dindayal Mahto Assistant Professor SASTRA Deemed to be University	Data Communication Security.
DAY 4	THURSDAY 23-07-2020 Day-4 Link:- https://meet.google.com/bdc-myof-jku	Session 7 Time:- 5:00 P.M. to 6:00 P.M. Mr. D. K. Yadav Assistant Professor Katihar Engineering College, Katihar	Artificial Neural Network In Machine Learning	Session 8 Time:- 6:00 P.M. to 7:00 P.M. Dr. Om Pal Yadav Scientist –D R&D in IT Group, Ministry of Electronics & information Technology Govt. of INDIA	Quantum Security
DAY 5	FRIDAY 24-07-2020 Day-5 Link:- https://meet.google.com/tsf-tjtd-mky	Session 9 Time:- 5:00 P.M. to 6:00 P.M. Dr. C. Azad Assistant Professor NIT Jamshedpur	Machine Learning Tools And Techniques	Session 10 Time:- 6:00 P.M. to 7:00 P.M. Dr. Ashok Kumar Mehta Associate Professor NIT Jamshedpur	Classification of Support Vector Machine
DAY 6	SATURDAY 25-07-2020 Day-6 Link:- https://meet.google.com/xak-agoq-cmz	Session 11 Time:- 5:00 P.M. to 6:00 P.M. Mr. Saurabh Singh Thakur Vice President - Data Science	Data Science and Data Analytics	Session 12 Time:- 6:00 P.M. to 7:00 P.M. Dr. Om Pal Yadav Scientist –D R&D in IT Group, Ministry of Electronics & information Technology Govt. of INDIA	Block chain Technology.

4. Feedback Analysis:

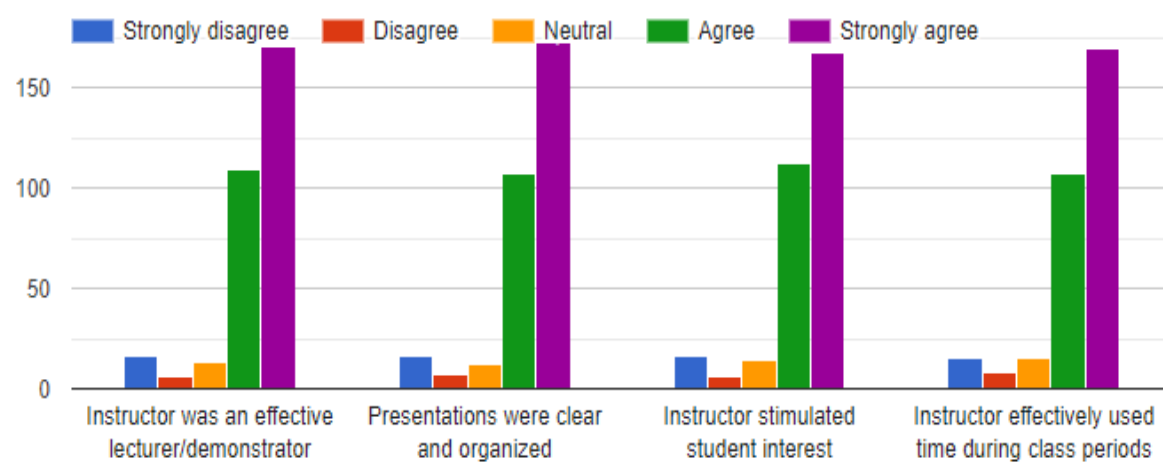
Level of effort



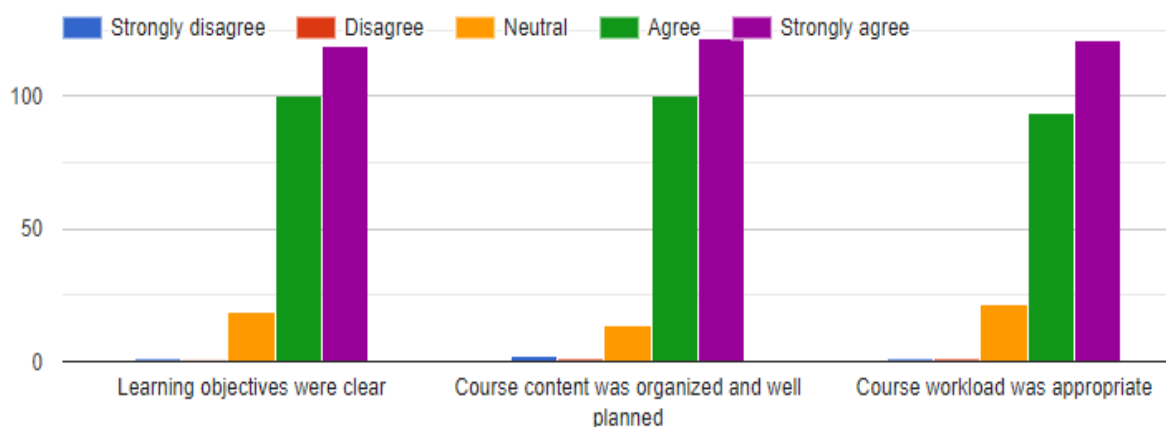
Contribution to learning



Skill and responsiveness of the instructor

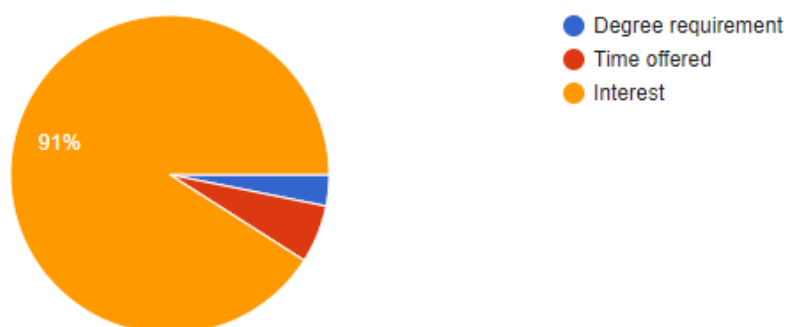


Course content



Why did you choose this course?

221 responses



What aspects of this course were most useful or valuable?

114 responses

Very useful
Research
Informative
All
Nice
The future aspect was tapped.
Easy to understand
Practical Part
Research work

5. Certificate Format:

This Online Faculty Development Program is conducted and Organized by Dr. ARUN KUMAR MARANDI and Sweta Kumari Barnwal

Date of Issued: {{date2}}

Certificate of Participation

Presented to

{{full name}}

From **{{other identifier}}** has participated in the online Faculty Development Program on "Emerging Trends in Data Science & IoT" organized by Department of Computer Science & Information Technology, ARKA JAIN University, Jamshedpur, Jharkhand held from 20th to 24th July 2020.

JGi
ARKA JAIN University
Jharkhand (Jamshedpur)

Dr. S. S. Razi
VC&Chief Patron

Arvind Kumar Pandey
HOD (CS & IT)

Certificate ID :- **{{certificate id}}**

This Online Faculty Development Program is conducted and Organized by Dr. ARUN KUMAR MARANDI and Sweta Kumari Barnwal

This Online Faculty Development Program is conducted and Organized by Dr. ARUN KUMAR MARANDI and Sweta Kumari Barnwal

Date of Issued: 30/07/2020

Certificate of Participation

Presented to

Ranjeet Kumar

From **ARKA JAIN UNIVERSITY** has participated in the online Faculty Development Program on "Emerging Trends in Data Science & IoT" organized by Department of Computer Science & Information Technology, ARKA JAIN University, Jamshedpur, Jharkhand held from 20th to 24th July 2020.

JGi
ARKA JAIN University
Jharkhand (Jamshedpur)

Dr. S. S. Razi
VC&Chief Patron

Arvind Kumar Pandey
HOD (CS & IT)

Certificate ID :- **AJU/CSIT/OFDP/ETDIoT-485**

This Online Faculty Development Program is conducted and Organized by Dr. ARUN KUMAR MARANDI and Sweta Kumari Barnwal



