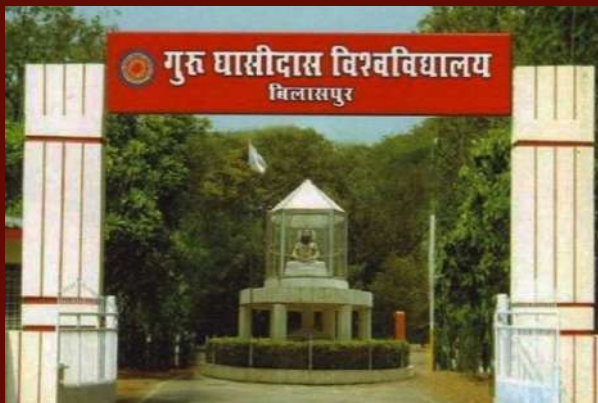## ABOUT THE UNIVERSITY

Guru Ghasidas Vishwavidyalaya is a Central University of India, located in Bilaspur C.G. State, established under Central Universities Act 2009, No. 25 of 2009. Formerly called Guru Ghasidas University (GGU), established by an Act of the State Legislative Assembly, was formally inaugurated on June 16, 1983.

GGU is an active member of the Association of Indian Universities and Association of Commonwealth Universities. Situated in a socially and economically challenged area, the university is appropriately named to honour the great Satnami Saint Guru Ghasidas (born in the 17th century), who championed the cause of the downtrodden and waged a relentless struggle against all forms of social evils and injustice prevailing in the society.

The University is a residential cum affiliating institution, having its jurisdiction spread over Bilaspur Revenue Division of the state of Chhattisgarh.

Guru Ghasidas Vishwavidyalaya, Bilaspur

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Hon'ble Vice-Chancellor, GGV Bilaspur

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One week
Online Faculty Development Program
On

Interdisciplinary Smart Applications of Internet of Things, Cloud Computing & Data Analytics Technologies

04 October – 08 October, 2021

Organized by

Department of Computer Science and Engineering
School of Studies in Engineering & Technology

Guru Ghasidas Vishwavidyalaya

(A Central University)

Bilaspur - 495009

ABOUT THE DEPARTMENT

The department of computer science was established in 1997. The department is committed to provide quality higher education in the field of Computer Science & Engineering With the understanding, knowledge and practical competence to participate in a long revolution. The knowledge will enable you to understand and foresee the great changes and challenges that Computer Science presents to the world, now and in the future. Besides teaching there is also a doubt removal session. The department has specialized laboratories such as NETWORKING LAB, ADVANCE PROGRAMMING LAB, DATABASE & UNIX LAB, PROJECT LAB. The department provides opportunities for carrying projects by students under the joint supervision of the faculty and experts from the industry. The department has been involved in providing training in reputed government and public sectors like DRDO Delhi, Microsoft Hyderabad, CMC Kolkata, Orbit IT Hyderabad, S.E.C.L., B.S.N.L., Indian Railways, Bokaro Steel Plant & Bhilai Steel Plant (SAIL), Software Tech & ISM Banglore. Our students are working in reputed private, public and govt. organizations. Some of them are Infosys, Wipro, Persistent, IBM, TCS, Mahindra BT, Syntel, Satyam, BSNL, NTPC, INFLIBNET.

School of Studies in Engineering & Technology

ABOUT FDP

This FDP is aimed at imparting knowledge and training on the fundamentals of the Internet of Things (IoT), communication with cloud servers and performing data analytics to derive useful insights from the data. The main objective is to make the participants familiar with the emerging frontiers and interesting applications of these technologies. Expert lectures & hands-on sessions will be delivered by faculty members from academia (IITs/NITs/IIITs/Central Universities) and practitioners from industry. The program will have a nice blend of theoretical and practical aspects of the field. More emphasis will be given to practical hands.-on exposure by solving some real-life problems using IoT and Cloud.

The participants of this FDP will be able to understand the underlying concepts and applications. They will learn how to use Arduino, NodeMCU, and Raspberry Pi along with an array of different sensors & actuators in the realm of developing some interesting applications. IoT applications in smart cities, healthcare, rural development, human-computer interaction, computer vision etc, will be discussed. Experts will also discuss various issues, challenges and research directions in the field. The theme of the FDP has been chosen to be interdisciplinary so that it may benefit a large segment of researchers and faculty.

RESOURCE PERSON

Faculty experts from reputed institutes, and invited experts from industries.

FDP CONTENTS

This workshop will help the participants to learn Interdisciplinary Smart Applications of the Internet of Things, Cloud Computing & Data Analytics Technologies in various fields. This FDP program proposes the following content.

- Overview of IoT and Cloud Platforms
- IoT Elements and Various Protocols
- IoT & Edge Computing
- Getting familiar with various sensors and actuators for IoT
- Reading and writing the sensor data, data transmission & sensor control over WiFi/Bluetooth
- Various interdisciplinary use-case scenarios of IoT such as healthcare, agriculture, smart homes, industrial process automation etc.
- IoT coupled with AI, Machine Learning.

TARGET AUDIENCE

The faculty members of the AICTE approved institutions, research scholars, participants from Government and Industry.

REGISTRATION

No Registration Fees

To Register, please visit :
https://atalacademy.aicte-india.org/signup

Eligible participants are requested to sign-up, create a profile, select workshop, select thrust areas and apply to this workshop for registration. Due to limitations on the number of participants (200), applications will be considered on a first come first serve basis.

REPORT

Interdisciplinary Smart Applications of Internet of Things, Cloud Computing & Data Analytics Technologies

4th Oct. 2021-8Th Oct. 2021, Guru Ghasidas Vishwavidyalaya, Bilaspur (C.G).

AICTE TRAINING AND LEARNING ACADEMY, PUNE

Interdisciplinary Smart Applications of Internet of Things, Cloud Computing & Data Analytics Technologies

One week AICTE sponsored FDP was conducted from 4th to 8th October 2021 in which total 133 participants from different parts of the country participated.

The speakers for the one week FDP on "Interdisciplinary Smart Applications of Internet of Things, Cloud Computing & Data Analytics Technologies" were:

	Prof. R Balasubramanian, IIT Roorkee
	Dr. Lalit Singh, Scientist F BARC Mumbai
	Dr. Sudesh Morey, Drmz Inovation, Bhopal
	Dr, Ashish Khare, University of Allahabad

	Prof. H. S Hota, Atal Bihari Vishwavidyalaya, Bilaspur
	Dr. Abhishek Singh, Jain University Bangalore
	Dr. Neeraj Varshney, GLA University, Mathura
	Dr. Arun Kumar, NIT Rourkela
	Dr. C. M Sharma, IIT Delhi

	Dr. Santosh Soni, GGV Bilaspur
	Dr. Shailendra kumar Sharma, KKPG College, Etawah

The schedule of the FDP was as below:-

Department of Computer Science and Engineering
School of Studies in Engineering & Technology
Guru Ghasidas Vishwavidyalaya, Bilaspur *(A Central University)*
Schedule for AICTE Sponsored One Week Online Faculty Development Program On
"Interdisciplinary Smart Applications of Internet of Things, Cloud Computing & Data Analytics Technologies"

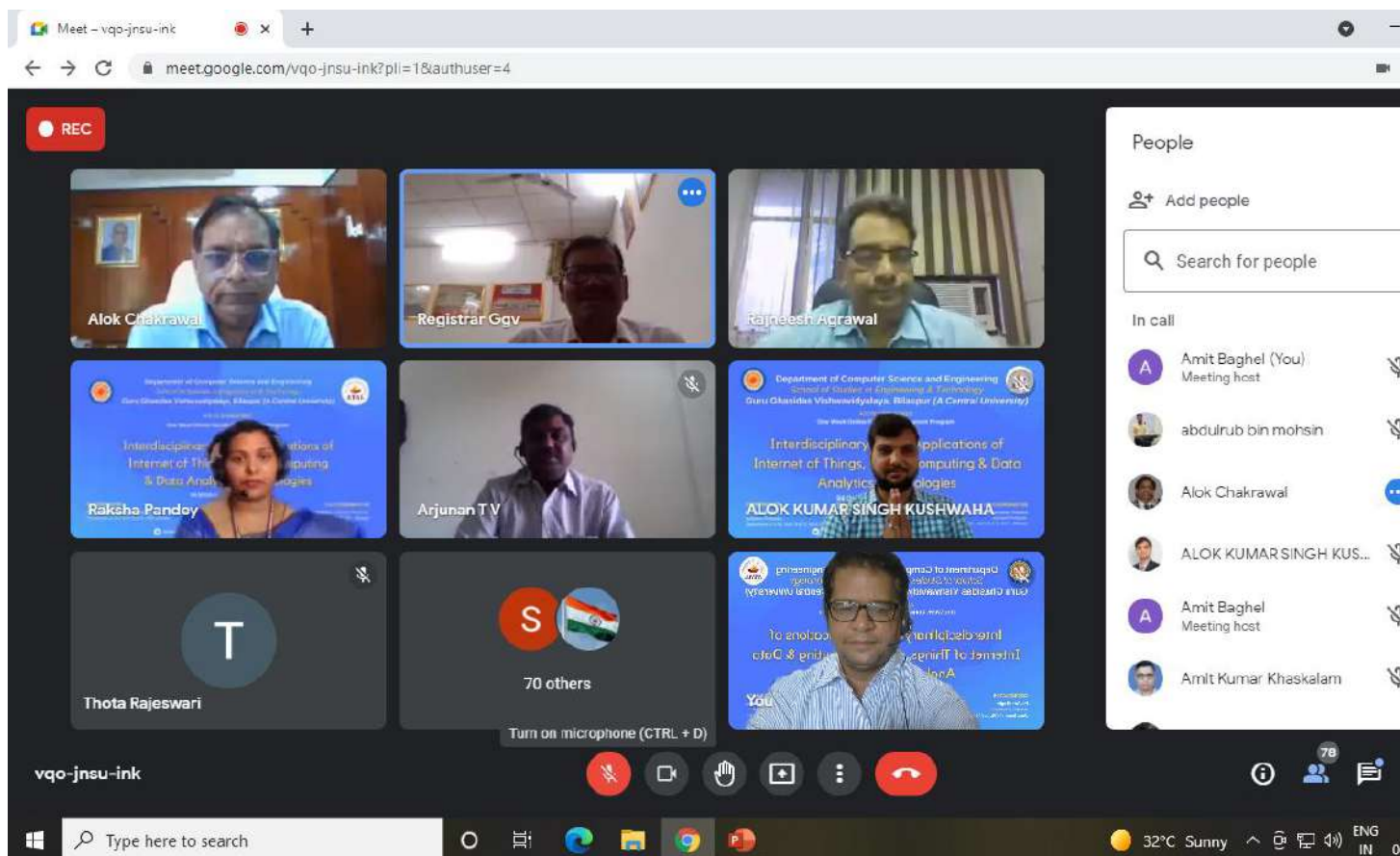| DATE	09:30 AM - 11:30 AM	11:30 AM -12:00 Noon	12:00 Noon - 02:00 PM	02:00 PM - 03:00 PM	03:00 PM - 05:00 PM
Monday 04-10-2021	**Prof. R. Balasubramanian** *IIT Roorkee* **Encrypted domain processing of big multimedia data over the cloud**	B	**Dr. Lalit Singh** *Scientist F, BARC Mumbai* **Reliability Analysis of communication protocol of safety Critical IoT systems**	B	**Dr. Sudesh Morey** *Drmz Innovation, Bhopal* **Layered Architecture in IoT and introduction to Tinkercad Online IoT Platform**
Tuesday 05-10-2021	**Dr. Ashish Khare** *University of Allahabad* **Machine Learning and its application in IoT**	R	**Prof. H.S.Hota** *Atal Bihari Vishwavidyalaya* **Machine Learning techniques for IoT framework**	R	**Dr. Sudesh Morey** *Drmz Innovation , Bhopal* **Hands on online session for IoT implementation using tinkercad**
Wednesday 06-10-2021	**Dr. Abhishek Singh** *Jain University Bangalore* **AI and Immersive Technology in Health Engineering**	E	**Dr. Neeraj Varshney** *GLA University Mathura* **Time Series Data Analysis using Deep Learning**	E	**Dr. Arun Kumar** *NIT Rourkela* **Innovative Approaches to Solve Personalized Visual Comfort and Energy Efficiency of Office Spaces using IoT**
Thursday 07-10-2021	**Dr. C.M. Sharma** *IIT Delhi* **Data Analysis in Health Care**	A	**Dr. C.M. Sharma** *IIT Delhi* **Brain Stroke Prediction using Machine Learning- Hands-on Session**	A	**Dr. Santosh Soni** *Guru Ghasidas Vishwavidyalaya* **Practical Implementation of sensors using IOT in Smart City Implementation**
Friday 08-10-2021	**Mr. Vineet Chauhan** *Software Engineer, IBM* **Application of Azure IoT Central in the field of Internet of Things**	K	**Dr. Shailendra Kumar Sharma** *KKPG College, Etawah* **Health and Wellness**	K	**Online Test and Feedback Session**

visit us: www.ggu.ac.in

The inauguration was held on 4th October 2021 online at 09:30 am. Chief Guest of the program was Prof. Alok Kumar Chakrawal (Vice Chancellor, Guru Ghasidas Vishwavidyalaya, Bilaspur), Special Guest of the function was Dr. Rajneesh Agrawal (Director, STPI, Noida), Guest of Honour of the function were Prof. Shailendra kumar (Registrar, GGV Bilaspur) and Prof. T. V. Arjunan (Dean, SOS(E&T), GGV Bilaspur). The entire program was Successfully inaugurated with Converner being Dr. Alok Singh Kushwaha (Head of the Department, CSE, GGV Bilaspur). The Coordinator and Co-Coordinator of the program were Mr. Amit Baghel and Mr. Pushpendra kumar Chandra (Department of CSE, GGV Bilaspur) respectively.

Some screenshots of the inaugural function are as below.

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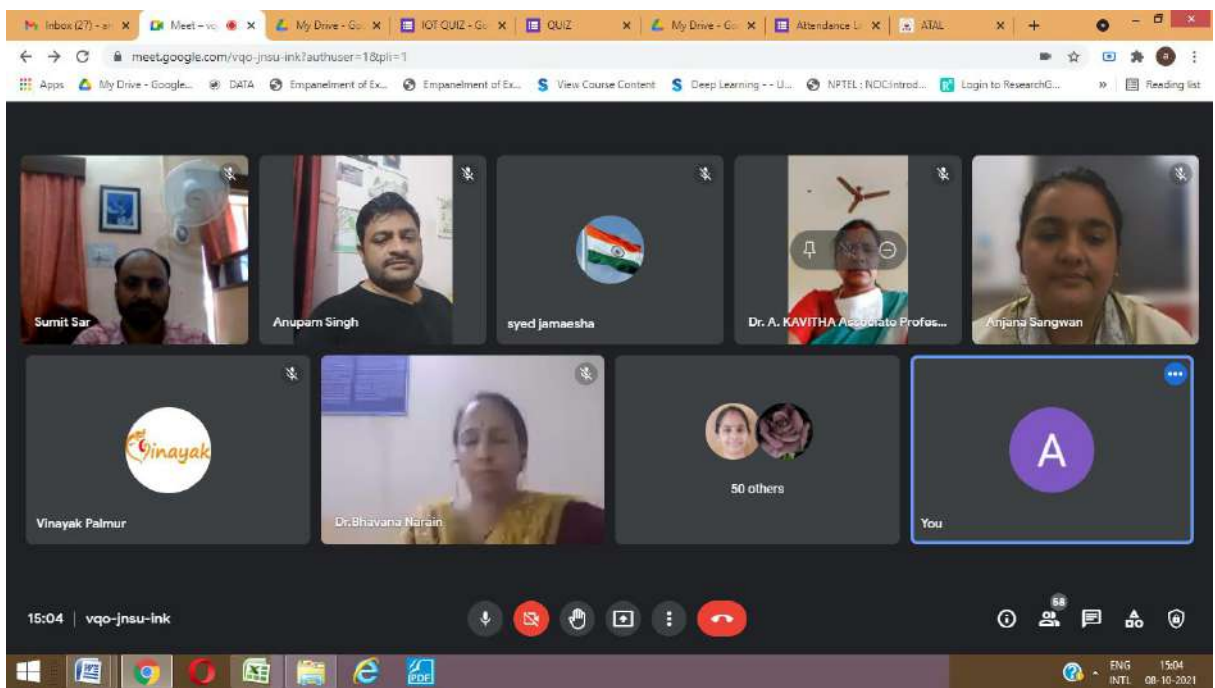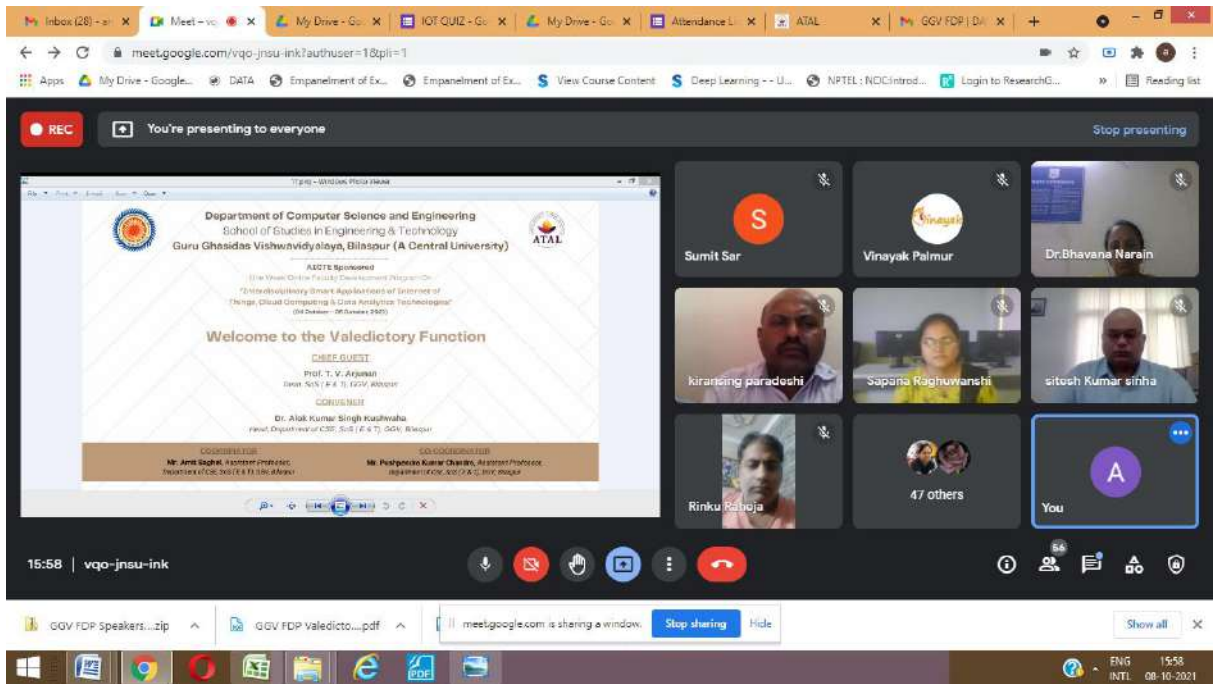|			
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The screenshot of the participants taken on closing are :

Feedback received from participant is as follows:

The organising team of GGV Bilaspur on this one week faculty development program on Internet of things and Cloud Computing, I am from the field of Education and i have learned from this programme, different usage of technology for improving classroom conduct. My basic area of research is using these technologies. So, when i Saw this programme providing all these, I was very much interested to attend this program. When i joined the program, all the sessions and quality of resource i got and quality of information i got, was very much beneficial. How to use cloud computing, Internet of Thing and how it can be integrated in terms of augmented and virtual reality, all these can be used were covered. The overall experience was very nice, the quality of resource person was also very informative. Also the organizing team was also supportive. In future, I would definitely like to attend these type of informative platform.

It was great initiative by ATAL academy. I am thankful for AICTE for giving opportunity to conduct online FDP.