



**INSPIRING EXCELLENCE**

Celebrating  
**23** years of  
EXCELLENCE



**NGCT-2021**  
**TWO-WEEKS BLENDED**  
**FACULTY DEVELOPMENT PROGRAMME**  
ON  
***NEXT-GEN COMPUTING TECHNOLOGIES***  
10<sup>th</sup> to 25<sup>th</sup> NOVEMBER, 2021  
ORGANIZED BY  
**DEPARTMENT OF COMPUTER APPLICATION**  
UNDER THE AEGIS OF  
**HUMAN RESOURCE DEVELOPMENT CENTRE (HRDC)**  
**INTEGRAL UNIVERSITY, LUCKNOW**

**Brief Report**

Having discovered the advantages of the blended learning approach, it only makes sense to spread its accessibility to educators all over. Hence to bridge the awareness gap, **Faculty Development Programme (FDP)** is designed to discover, experiment and adapt this technique with much ease. Last year, we conducted three e-FDPs on the most trending technologies with a vision to transform the teaching-learning experience and restructure the learning curve of academicians.

With this aim, the **Advanced Computing Research Lab, Department of Computer Application** under the aegis of **Human Resource Development Centre (HRDC)**, Integral University, organized a **Two-Week Blended Faculty Development Programme** on “**Next-Gen Computing Technologies, NGCT-2021**” from **10<sup>th</sup>-25<sup>th</sup> November, 2021**. The entire FDP was productively delivered via **ILI Learning Management System**. Through this platform, speakers from reputed institutes/companies exchanged their views on recent technological trends with faculty/research scholars spanning across India.

***FDP Highlights:***

- Registered Participants: **78**
- **80+ hours** of online active engagement through content-based learning, assignments & quizzes on **ILI**.

- Participants were from **10 different states** across India.
- A "**Certificate of Completion**" was given to the participants after completing all activities of ten modules.

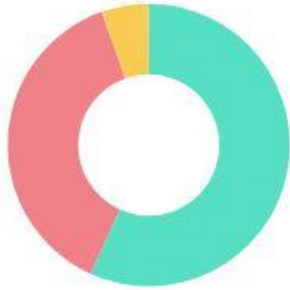
| SESSIONS OF THE FDP |   |   |
|---------------------|---|---|
| Date                | Topic   | Speaker   |
| 10-11-2021          | Topic: Handling Statistical Data using R Programming      | <b>Dr. Ajay Pratap</b><br>Amity University, Lucknow   |
| 13-11-2021          | Topic: Data Analytics for Legacy and Modern data platform | <b>Mr. Sandeep Pandit</b><br>YARA International   |
| 15-11-2021          | Topic: Cloud Technology                                   | <b>Mr. Khalid Jamal</b><br>i-Nurture Education Solutions Pvt. Ltd                                       |
| 17-11-2021          | Topic: Internet of Things                                 | <b>Mr. Mohd. Siddique</b><br>Majan University, Oman   |
| 18-11-2021          | Topic: Ethical Hacking                                    | <b>Mr. Ankit Kumar</b><br>Hanu Software Solutions, Greater Noida  |
| 20-11-2021          | Topic: Programming with PL/SQL                            | <b>Mr. Farooq Ahmad</b><br>Integral University, Lucknow   |
| 22-11-2021          | Topic: Microsoft Azure                                    | <b>Mr. Nayyar Ali Usmani</b><br>Hanu Software Solutions, Greater Noida                                  |
| 23-11-2021          | Topic: Data Analytics                                     | <b>Dr. Mohd. Shahid Hussain</b><br>University of Technology and Applied Sciences, CAS-Ibri campus, Oman |
| 24-11-2021          | Topic: Security Governance                                | <b>Dr. Suhel Ahmad Khan</b><br>IGNTU, Amarkantak  |
| 25-11-2021          | Topic: Blockchain Technology                              | <b>Dr. Amrendra Singh Yadav</b><br>i-Nurture Education Solutions Pvt. Ltd                               |

This sixteen-day-long FDP couldn't be possible without the constant support and motivation from **Prof. (Dr.) Syed Aqeel Ahmad**, Director, Human Resource Development Centre and **Prof. (Dr.) Naim R. Kidwai**, Deputy Director IQAC. All the FDP related activities like e-content, quizzes, and assignments were effectively well-coordinated by the *Organizing Committee Members*: **Dr. Mohd. Waris Khan, Mr. Malik Shahzad Ahmad, Dr. Ausaf Ahmad, Mr. Dr. Asif Khan and Mohd. Faizan**.

Overall, FDP management was artfully administered by *FDP Coordinators*: **Dr. Sandeep Kumar Nayak, Dr. Tasneem Ahmed, Ms. Nashra Javed, and Mr. Farooq Ahmad**, who arranged for quality speakers for this FDP and walked the extra mile to bridge the participants with the speakers. Also, they were instrumental in ensuring the punctuality of the program. All the participants were enthusiastic and responsive throughout the event. FDP concluded with excellent feedback and positive response from all participants as they found the sessions to be insightful, informative, inspiring, and enriching.

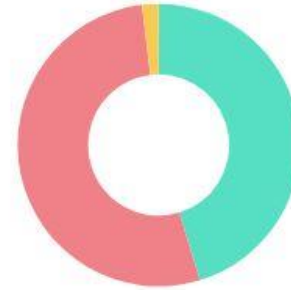
**Feedback analysis of participants:**

Quality of learning material/demonstration given



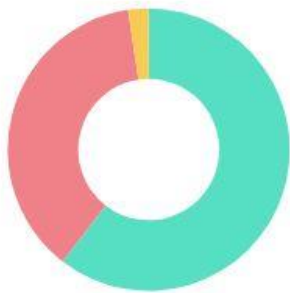
■ Excellent (56.76%) ■ Very Good (37.84%) ■ Satisfactory (5.41%)

Quality of learning support provided by FDP Team



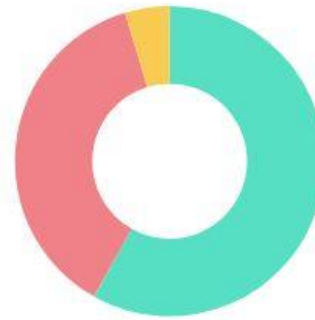
■ Excellent (45.28%) ■ Very Good (52.83%) ■ Satisfactory (1.89%)

Learning from the FDP program shall improve effectiveness in your work & research



■ Strongly Agree (60.47%) ■ Agree (37.21%) ■ Neutral (2.33%)

Overall learning experience

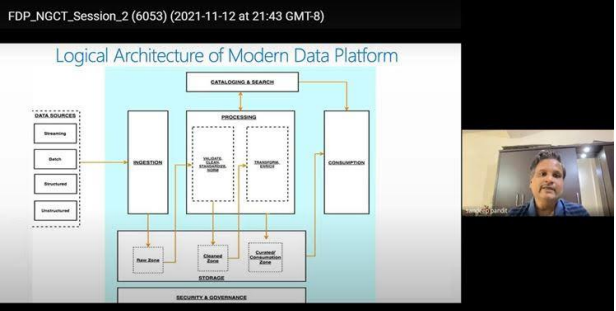


■ Excellent (58.14%) ■ Very Good (37.21%) ■ Satisfactory (4.65%)

# FDP sessions at glance:

FDP\_NGCT\_Session\_1\_1 (6053) (2021-11-09 at 22:41 GMT-8)

The screenshot shows a Jupyter Notebook interface. On the left, there is Python code for data analysis, including imports like pandas and matplotlib, and a plot function. On the right, a scatter plot is displayed with a green regression line. The plot has an x-axis labeled 'x' and a y-axis labeled 'y'. The data points are scattered around the line, showing a positive correlation.



Masr University College  
Data and Latest Trends in Technology

As predicted by Parkhill, computing will be distributed across the world and coordinated via various public access networks (Parkhill,1966).

With fourth digital revolution, this era is getting smart with IoT through technology and connectivity solutions (Botta et al,2018)

IoT due to its pervasiveness is going to dominate our daily life.

Developing smart city systems such as transportation, parking, illumination, traffic, and health requires the establishment of a network that facilitates scaling up and minimises the costs associated with providing the infrastructure with modern technologies.

The diagram shows a central 'IoT' hub connected to five categories: Smart City, Connected mobility, Health & Fitness, Smart Home, and Industrial applications. A small inset image shows a man speaking during the session.

### Microsoft Azure?

The diagram shows a cloud environment with various services and components. A central cloud icon is connected to several smaller icons representing different services like storage, networking, and compute. A small inset image shows a man speaking during the session.

- Azure is a public cloud computing platform—with solutions including Infrastructure as a Service (IaaS), Platform as a Service (PaaS), and Software as a Service (SaaS) that can be used for services such as analytics, virtual computing, storage, networking, and much more.

### Data generated every Minute... a glimpse

The infographic displays various data generation statistics:

- more than 857 terabytes of web content uploaded
- 474,000 Tweets
- over 107,250 photos (phones and videos) uploaded
- 147,000 photos uploaded
- 100,000 shared messages
- 500 million messages via SMS and text messages
- 41.97 million messages
- Over 2.5 Billion searches
- 52,082 people connected
- 205,333 participant engaged in livestream
- 1,380,488 persons engaged on video call
- 166 Billion
- 254,442 hours of Netflix content are streamed

Source: Statista's Data Never Sleeps 8.5 report

A small inset image shows a man speaking during the session.

https://meet.google.com/gpm-wgpr-yet?ip1=1&authuser=1

The screenshot shows a Google Meet video conference in progress. The interface includes a grid of participants, a chat window, and a control bar at the bottom. The participants are:

- Dr. Sandeep Kumar Nayak
- Computer Application Integrat...
- Dr. Tasneem A...
- Eram Fatima Siddiqui
- Muhammad Ibrah...
- Muhammad Ibrah...
- MANI ISLE
- 18 others
- You

The bottom control bar shows the time as 1:22 PM and the session ID as FDP\_NGCT\_Session\_10 (6053).

*FDP completion certificate:*



## CERTIFICATE OF COMPLETION

This is to certify that **XXXXXX XXXXXX** (Registration ID: NGCTXXXX)  
XXXXXXXXXXXXXXXXXXXX  
has successfully completed Two-weeks blended Faculty Development Programme on

### Next-Gen Computing Technologies

Organized by Department of Computer Application under the aegis of Human Resource Development Centre (HRDC),  
Integral University, Lucknow, from 10-11-2021 to 25-11-2021

[10-days face to face session (One week equivalent) and 80+ hours of online active engagement (One week equivalent)]

Issue date: 1 December 2021

**Dr. Mohammad Faisal**  
Head, Dept. of Computer Application  
Integral University, Lucknow

**Prof. (Dr.) T Usmani**  
Dean, Computer Application  
Integral University, Lucknow

**Prof. (Dr.) Syed Aqeel Ahmad**  
Director, HRDC  
Integral University, Lucknow

Certificate Number: XXX-XXXX-XXXXX