



**Jagan Institute of Management Studies**

3, Institutional Area, Sector-5, Rohini, Delhi-110085

**Co-Curricular Activities  
conducted by the  
institute**

**Annexure XI**



## Jagan Institute of Management Studies

3, Institutional Area, Sector-5, Rohini, Delhi-110085

### List of Conferences organised by the institute for Academic session 2022-23

S.No	Date	Title	Guests/ Resource Person	Organised For
1	27-05-2023	8th International Conference on Information, Communication and Computing Technology (ICICCT 2023)	General Chair: Prof.(Dr.) Jemal Abawajy Professor, Faculty of Science, Engineering and Built Environment, Deakin University, Program Chair: Dr.Ali Bou Nassif Associate Professor of Computer Engineering & Vice Dean of Graduate Studies. University of Sharjah, Sharjah - United Arab Emirates; Technical Session-1: (Track-01) : Session Chair : Dr. Saroj Kr. Biswas Associate Professor, Department of Computer Science Engg, NIT Silchar, India; Technical Session – 2: (Track-02) : Session Chair : Dr. Dilip Singh Sisodia, Associate Professor, Department of Computer Science Engg, NIT Raipur, India	MCA, BCA, BBA & BA(Hons.)(Eco.)
2	16-07-2022	7th Information, Communication and Computing Technology (ICICCT-2022) on the theme Networking and Communication and Evolutionary Computing through Machine Learning	Program Chair: Prof. Costin Badica, Professor, Computer and Information Technology Department, University of Craiova, Romania, Chief Guest Address: Dr. Maya Ingle Director, Deen Dayal Upadhyay Kendra, Indore, India Keynote Speaker 01: Dr. Milan Simic Senior Lecturer, STEM, School of Engineering, RMIT University, Australia Keynote Speaker 02: Prof.(Dr.) Jean Paul Van Belle Professor and Director, Centre for Information Technology and National Development, University of Cape Town, Africa Technical Session-1: (Track-01) : Session Chair : Dr. Subrata Nandi Professor, Department of Computer Science Engg, NIT Durgapur, India Technical Session – 2: (Track-02) : Session Chair : Dr.	MCA, BCA, BBA & BA(Hons.)(Eco.)




Jemal Abawajy · Joao Tavares ·  
Latika Kharb · Deepak Chahal ·  
Ali Bou Nassif (Eds.)

Communications in Computer and Information Science

1841

# Information, Communication and Computing Technology

8th International Conference, ICICCT 2023  
New Delhi, India, May 27, 2023  
Revised Selected Papers


 Springer



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The CCIS series is devoted to the publication of proceedings of computer science conferences. Its aim is to efficiently disseminate original research results in informatics in printed and electronic form. While the focus is on publication of peer-reviewed full papers presenting mature work, inclusion of reviewed short papers reporting on work in progress is welcome, too. Besides globally relevant meetings with internationally representative program committees guaranteeing a strict peer-reviewing and paper selection process, conferences run by societies or of high regional or national relevance are also considered for publication.

## **Topics**

The topical scope of CCIS spans the entire spectrum of informatics ranging from foundational topics in the theory of computing to information and communications science and technology and a broad variety of interdisciplinary application fields.

## **Information for Volume Editors and Authors**

Publication in CCIS is free of charge. No royalties are paid, however, we offer registered conference participants temporary free access to the online version of the conference proceedings on SpringerLink (<http://link.springer.com>) by means of an http referrer from the conference website and/or a number of complimentary printed copies, as specified in the official acceptance email of the event.

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Jemal Abawajy · Joao Tavares · Latika Kharb ·  
Deepak Chahal · Ali Bou Nassif  
Editors


# Information, Communication and Computing Technology

8th International Conference, ICICCT 2023  
New Delhi, India, May 27, 2023  
Revised Selected Papers



*Editors*

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Burwood, VIC, Australia

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Costin Badica  
Marcin Paprzycki  
Latika Kharb  
Deepak Chahal (Eds.)

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# Information, Communication and Computing Technology

7th International Conference, ICICCT 2022  
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New Delhi, India, July 16, 2022  
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**SURGE 2K23 Report**

Event Title:	Annual Management Seminar – Surge 2023
Topic	<b>Financial Literacy: A Tool to empower India’s next generation During India’s G20 Presidency”</b>
Date; Time	15 <sup>th</sup> April , 2023.
Convenor	Dr. Parminder Bajaj
Resource Person	<ol style="list-style-type: none"> <li><b>1. Mr Puneet Sethi ( chief guest of the program)</b> Designation : Vice President Company : Reliance Nippon Life Insurance</li> <li><b>2. Mr. Manu Kohli</b> Designation: EV Enthusiast &amp; Business Developer</li> <li><b>3. Mr. Rohit Gupta</b> Designation: Corporate Consultant</li> <li><b>4. Ms Sarika Chawla</b> Designation: Financial Consultant</li> </ol>
Venue / Medium	Crystal Hall, Crowne Plaza, Rohini, Delhi
Program	BBA and BA-Eco Hons – All years
No. of Students	320
Organiser (Club/ Dept.)	IP Department (Management)

**Objective of the event**

The objective of this seminar was to equip our young generation with the necessary knowledge and skills to manage their finances effectively, achieve financial success, and contribute to a financially responsible and prosperous society. The seminar main goal was to target the audiences on the basic financial concepts, such as budgeting, saving, investing, and managing debt, that are essential to achieving financial success. Overall the seminar aimed to provide a forum for experts to exchange ideas and insights to empower the future generation and build a responsible national and global economy.



# Minutes Of Meeting

**Minutes Of Meeting (Stage 2021)**  
**Meeting No. 1**

Date: 1 March 2021  
Venue: C-304, College campus  
Time: 12:00 pm

**Present Members:**

1. Dr. Parvinder Kaur Baggi
2. Sakshi Verma
3. Sakshi Khatri
4. Divya Gupta
5. Divya Kharbade
6. Divya Khanna
7. Shruya Gupta
8. Karishma
9. Ananya Deyani

**Agenda of the Meeting:**

- 1. **Finalizing the report for Stage 2021**

Dr. Parvinder Kaur Baggi opened the meeting by introducing the agenda and invited everyone to give their views on the report. For the report:

Members discussed their work and shared their views on the report. They discussed the report and shared their views on the report. They discussed the report and shared their views on the report. They discussed the report and shared their views on the report.

At last the meeting was concluded with all the members agreeing on the work and their report.

**Meeting No. 2**

Date: 21 March 2021  
Venue: C-304, College campus  
Time: 12:00 pm

**Present Members:**

1. Dr. Parvinder Kaur Baggi
2. Sakshi Verma
3. Sakshi Khatri
4. Divya Gupta
5. Divya Kharbade
6. Divya Khanna
7. Shruya Gupta
8. Karishma
9. Ananya Deyani
10. Ananya Deyani
11. Ananya Deyani

**Agenda of the Meeting:**

- 1. **Working about Stage 2021**

Dr. Parvinder Kaur Baggi opened the meeting by introducing the agenda and invited everyone to give their views on the report. For the report:

Members discussed their work and shared their views on the report. They discussed the report and shared their views on the report. They discussed the report and shared their views on the report. They discussed the report and shared their views on the report.

At last the meeting was concluded with all the members agreeing on the work and their report.

**Meeting No. 3**

Date: 11 April 2021  
Venue: Noida, College Campus  
Time: 12:00 pm

**Present Members:**

1. Dr. Parvinder Kaur Baggi
2. Sakshi Verma
3. Sakshi Khatri
4. Divya Gupta
5. Divya Kharbade
6. Divya Khanna
7. Shruya Gupta
8. Karishma
9. Ananya Deyani
10. Ananya Deyani
11. Ananya Deyani

**Agenda of the Meeting:**

- 1. **Check Checking of the Dates**
- 2. **Finalizing of the work**

Dr. Parvinder Kaur Baggi opened the meeting by introducing the agenda and invited everyone to give their views on the report. For the report:

Members discussed their work and shared their views on the report. They discussed the report and shared their views on the report. They discussed the report and shared their views on the report. They discussed the report and shared their views on the report.

At last the meeting was concluded with all the members agreeing on the work and their report.

**Meeting No. 4**

Date: 1 April 2021  
Venue: C-304, College campus  
Time: 12:00 pm

**Present Members:**

1. Dr. Parvinder Kaur Baggi
2. Sakshi Verma
3. Sakshi Khatri
4. Divya Gupta
5. Divya Kharbade
6. Divya Khanna
7. Shruya Gupta
8. Karishma
9. Ananya Deyani
10. Ananya Deyani
11. Ananya Deyani

**Agenda of the Meeting:**

- 1. **Finalizing the report**
- 2. **Appointment of Coordinators**

Dr. Parvinder Kaur Baggi opened the meeting by introducing the agenda and invited everyone to give their views on the report. For the report:

Members discussed their work and shared their views on the report. They discussed the report and shared their views on the report. They discussed the report and shared their views on the report. They discussed the report and shared their views on the report.

At last the meeting was concluded with all the members agreeing on the work and their report.

**Meeting No. 5**

Date: 13 April 2021  
Venue: Noida, College Campus  
Time: 12:00 pm

**Present Members:**

1. Dr. Parvinder Kaur Baggi
2. Sakshi Verma
3. Sakshi Khatri
4. Divya Gupta
5. Divya Kharbade
6. Divya Khanna
7. Shruya Gupta
8. Karishma
9. Ananya Deyani
10. Ananya Deyani
11. Ananya Deyani

**Agenda of the Meeting:**

- 1. **Check Checking of the Dates**
- 2. **Finalizing of the work**

Dr. Parvinder Kaur Baggi opened the meeting by introducing the agenda and invited everyone to give their views on the report. For the report:

Members discussed their work and shared their views on the report. They discussed the report and shared their views on the report. They discussed the report and shared their views on the report. They discussed the report and shared their views on the report.

At last the meeting was concluded with all the members agreeing on the work and their report.

**Brochure**



**8th ANNUAL MANAGEMENT SEMINAR ON FINANCIAL LITERACY: A TOOL TO EMPOWER NEXT GENERATION DURING INDIA'S G20 PRESIDENCY**

**APRIL 15, 2023 | SATURDAY**  
Venue: Crystal Hall, Crowne Plaza, Sector-10, Rohini

**ABOUT THE TOPIC:**  
India has made great advancement in bringing the issue of financial literacy for working men and women and services available to the broader population. Through the monetary support from the Government Institution, micro-finance institutions (MFIs) and NGOs, in 2015 the government launched Pradhan Mantri Jan Dhan Yojana, a program aimed at providing a bank account for every household. The program generated a record 44 million accounts for India's households over 66 days in 2014 through January 2015. However, closing the banking gap also requires a wide understanding of how the financial system works. "Empower India's Citizens - and take the nation - near the economic heart of financial literacy is defined for the Reserve Bank of India".

**ABOUT JIMS:**  
Jagan Institute of Management Studies (JIMS) is 30 years of its being has created a niche for itself in the field of Management and Information Technology. The institute offers several undergraduate and postgraduate programs in BBA, B.Com, B.A. (E) (Political Science), B.Com (Hons), B.Com (Hons) International Business, Ph.D. (Health Management) in our campus are approved by Govt. of India Council for Technical Education and are affiliated to National Board of Accreditation (NBA). All programs are approved by Association of Management Studies (AIMS). The Institute of Management Studies (JIMS) has been awarded ISO 9001:2015 certification. The Institute is also a member of the top management colleges in India to meet criteria in health and management. The institute has been awarded the prestigious condition certificate awarded by State Quality Standards (SQS) from the Association of Management Development Institutions in India (AIMDI) in 2018. We are also a member of the following bodies: AACCIA, government of India, and various other bodies. For more information, please contact the following details: Jagan Institute of Management Studies, 3rd Floor, Sector 10, Rohini, Delhi - 110088. Tel: 011-49518888, 978613007.

Sl. No.	Time	Topic
1	1:00 pm - 1:15 pm	Inaugural Session
2	1:15 pm - 1:30 pm	Welcome Address
3	1:30 pm - 1:45 pm	Director General's Address
4	1:45 pm - 2:30 pm	Technical Session 1
5	2:30 pm - 3:15 pm	Lunch
6	3:15 pm - 4:00 pm	Technical Session 2
7	4:00 pm - 4:45 pm	Vote of Thanks

EventPoster and Programme Schedule

**8th Annual Management Seminar on FINANCIAL LITERACY: A TOOL TO EMPOWER NEXT GENERATION DURING INDIA'S G20 PRESIDENCY**

**April 15, 2023 | Saturday**  
Venue: Crystal Hall, Crowne Plaza, Sector-10, Rohini

**Chief Guest:** Mr. Puneet Sethi, Vice President, Reliance Nippon Life Insurance

**Mr. Rohit Gupta**, Corporate Consultant

**Mr. Manu Kohli**, EV Enthusiast & Business Developer

**Ms. Sarika Chawla**, Financial Consultant

**FINANCIAL LITERACY: A TOOL TO EMPOWER NEXT GENERATION**  
Programme Schedule  
8 April 2023, Saturday

Event Details	Timings
Inaugural (Lamp Lighting and Saraswati Vandana)	1:00 pm - 1:10 pm
Welcome Address (Dr. Praveen Arora, Dean, IPU Affiliated Program)	1:10 pm - 1:15 pm
Director General's Address (Dr. Harshvardhan Hatve)	1:15 pm - 1:20 pm
<b>TECHNICAL SESSION 1</b>	
Mr. Puneet Sethi (Chief Guest), Vice President, Reliance Nippon Life Insurance	1:20 pm - 1:30 pm
Mr. Manu Kohli, EV Enthusiast & Business Developer	1:30 pm - 2:30 pm
Lunch	2:30 pm - 3:15 pm
<b>TECHNICAL SESSION 2</b>	
Mr. Rohit Gupta, Corporate Consultant	3:15 pm - 4:00 pm
Ms. Sarika Chawla, Financial Consultant	4:00 pm - 4:45 pm
Vote of Thanks (Dr. Parminder Bajaj)	4:45 pm - 5:00 pm



## Invite Mail Staff



Dr. Praveen Arora  
to staff5

Apr 14, 2023, 12:03 PM (3 days ago)



Dear all,

You are cordially invited to 8th Annual Management Seminar - Surge2K23 organised by Jagan Institute of Management Studies (JIMS) for BBA and BA Eco(H) students .The objective of this year's seminar is to provide insights about financial literacy. In this context, we will invite industry experts to unfold their opinions about current trends in financial literacy.

Following are the details for the event:

**Topic: Financial Literacy: A Tool To Empower Next Generation During India's G20 Presidency**  
**Date: 15th April, 2023**  
**Time: 12:30 pm**  
**Venue: Crystal Hall, Crowne Plaza, Rohini**

Waiting for your presence at the event!

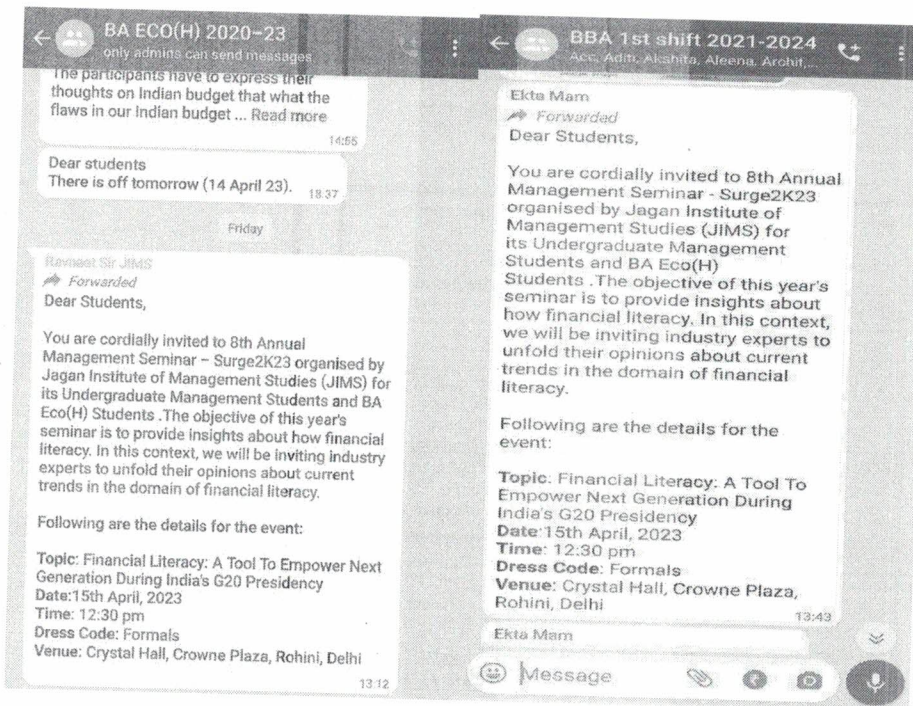
Brochure and Program Schedule is attached herewith:

Thanks and Regards,

Dr. Praveen Arora  
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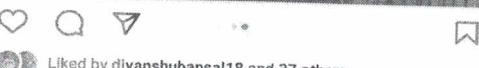




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jimsrohiniSector5 JIMS Rohini is organizing Surge 2023 - 8th Annual Management Seminar on "Financial Literacy: A Tool To Empower Next Generation During India's G20 Presidency" on 15th April 2023 at Crowne Plaza, Rohini, Delhi. We welcome our Chief Guest Mr. Puneet Sethi - Vice President - Reliance Nippon Life Insurance and our esteemed speakers Mr. Rohit Gupta - Corporate Consultant, Mr. Manu Kohli - EV Enthusiast & Business Developer and Ms. Sarika Chawla - Financial Consultant.

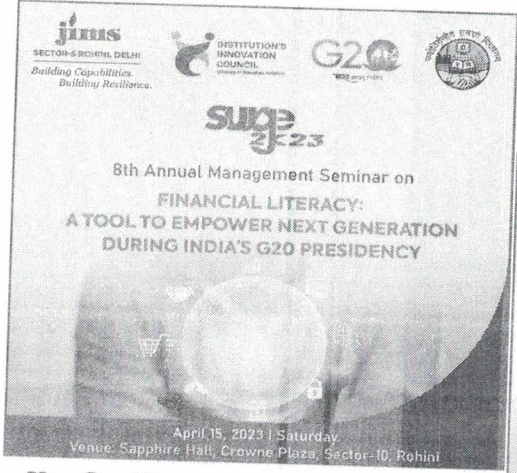
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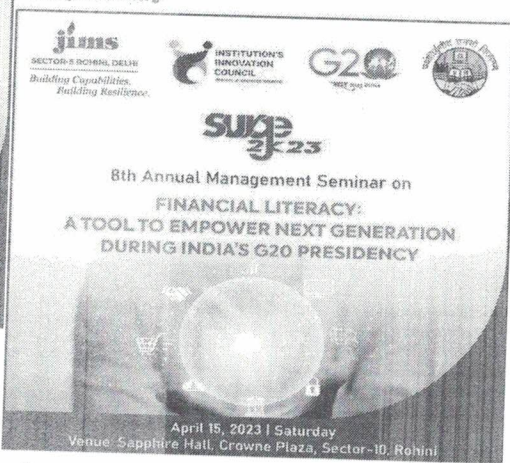
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JIMS Rohini is organizing Surge 2023 - 8th Annual Management Seminar on "Financial Literacy: A Tool To Empower Next Generation During India's G20 Presidency" on 15th April 2023 at Crowne Plaza, Rohini, Delhi.

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## POST EVENT REPORT

'Surge' 2K23, the Annual Management Seminar of JIMS sec 5, Rohini was held at hotel Crowne Plaza, on April 15, 2023.

The topic of the seminar this year was "**Financial Literacy: A Tool to empower India's next generation During India's G20 Presidency**"

The seminar focused on the importance of financial literacy and how it can empower the next generation of individuals to make informed financial decisions.

The occasion was graced by various industry experts who shared their personal experiences and apprised students of the latest information on the seminar's topic.

### **Inaugural Ceremony**

The program started with lamp lightning ceremony and Saraswati Vandana.

Following this was the launch of Management Magazine – Osmosis by Dr Parminder Bajaj – the Faculty In charge of Osmosis and the dignitaries present their on the dice .

Then the event was graced by the welcome address by the Dean followed by the director general Dr. Harshvardhan Halve's key note speech in which he emphasised about the role of financial literacy in today's fast changing world.

The seminar was divided into two technical sessions.

### **Technical session 1**

#### **Speaker 1 – Mr Puneet Sethi (chief guest)**

The chief guest started on a very light note throwing light upon his background and experiences then paving the way through his conversations about the basics of financial literacy and its importance in personal financial planning . He discussed about how money works, including topics such as budgeting, saving, investing, debt management, and financial planning.

All of which helps individuals make informed decisions about their money and avoid financial mistakes that can have long-term consequences.

He emphasised that By being financially literate, individuals can take control of their finances and make informed decisions about how to allocate their resources to achieve their long-term goals. They can learn how to create a budget, save for emergencies and future expenses, invest in their future, and manage debt effectively.

These skills can help people build a strong financial foundation and achieve financial stability and security.



He also discussed the potential of financial literacy in promoting financial inclusion which could be a flag bearer for change.

### **Speaker 2 – Mr Manu Kohli**

Mr Manu Kohli very interestingly and interactively focussed on the knowledge of stock markets investments. He very first grabbed audience's attention by asking them –

How many of use invest in stocks? Followed by other ques how many of you invest in Cryptocurrencies?

From there he made us realise that it is our lack of market knowledge that prevents us from investing in stocks and how important it is to gain knowledge about the market .

Furthermore, He then started by taking names of some stock market movies and discussed with the audience what movies actually portrayed and what all can we learn from them.

The movies included The BIG BULL – Harshad Mehta, Wolf of Wall Street – Leonardo DiCaprio, the big shot -Christiano Bale etc.

He then delved into the basis of stock market explaining us terms related to it, discussing the various types of trading – day, position and momentum trading.

Furthermore, he talked about derivatives wherein he focussed on futures and options.

Then also taught everyone about the alternate investment options that we have involving – Real Estates, Unlisted Shares , cryptocurrency , commodities like gold, metals etc.

Following this was a Question-and-Answer round wherein students asked the questions they had related to the topic from the speakers on the dice.

After which the speakers of first technical session were presented by mementos and gifts by our director general and dean.

The technical session 1 ended with a vote of thanks proposed by Dr Parminder Bajaj mam.

### **Technical Session 2**

#### **Speaker 1 – Rohit Gupta**

Mr Rohit Gupta focused on the role of financial literacy in entrepreneurship and business management.

He discussed that financial literacy is a crucial aspect of entrepreneurship and business management. It refers to the knowledge and skills necessary to make informed financial decisions and manage money effectively.

And that by Being financially literate entrepreneurs and business owners can manage their finances efficiently, make informed investment decisions, and navigate the complexities of financial markets.



He further emphasised that financial literacy becomes extremely important when starting a new business.

Since Starting a new business requires significant financial resources, and entrepreneurs need to make informed decisions about how to allocate those resources. Financial literacy can help entrepreneurs to understand the financial implications of different business decisions, such as taking on debt or raising capital, and to create effective financial plans to support their business goals.

Mr Rohit Gupta also discussed the role of financial literacy in effective business management. Business owners need to be able to analyse financial statements, monitor cash flow, and make decisions about budgeting and investing. Without a strong understanding of financial concepts and tools, business owners may struggle to make informed decisions and manage their finances effectively and achieve their business goals.

#### **Speaker 2 – Ms Sarika Chawla**

Ms Sarika Chawla very innovatively grabbed everyone's attention by asking eight girls and boys to come near the stage for a small activity.

In The activity questions were asked about basic activities that students have learnt by certain age group. if the answer was yes then students were supposed to take one step forward while if the answer was no, students were asked to take one step back. This activity concluded with a thought and realisation that financial literacy is crucial for all the genders and everyone should imbibe this knowledge.

Mam then along with her companion Mr Sandeep Garg threw light upon Mutual Funds .

Both of them clarified the concept of Mutual funds , its structure and scheme categories.

Moreover, various categorizations of mutual funds were also discussed involving –

Equity Schemes, Debt Scheme, Hybrid schemes solution oriented schemes – for children and retirement.

Then the speaker emphasised onto which scheme is suitable for whom and what actually is the power of compounding.

Following this was a Question-and-Answer Round for technical session 2.

After this all the speakers of session 2 were presented with mementos and gifts by Dr Parminder Bajaj mam.

After which Osmosis – Management Magazine and The Student Press – Monthly Management release team were awarded by the speakers for their efforts and contribution.

The seminar then ended on a positive tone with a vote of thanks by Dr Parminder Bajaj.





The seminar included interactive sessions, where participants had the opportunity to engage with the speakers and discuss their thoughts on financial literacy.

The event received excellent feedback from the attendees, who appreciated the diverse range of topics covered and the quality of the speakers.

In conclusion, the Annual Management Seminar Surge 2023 on Financial Literacy: A Tool to Empower Next Generation during India's G20 Presidency was a highly informative and engaging event that highlighted the significance of financial literacy for the future of India. The event has paved the way for further discussions and initiatives to promote financial literacy and empower the next generation of individuals.

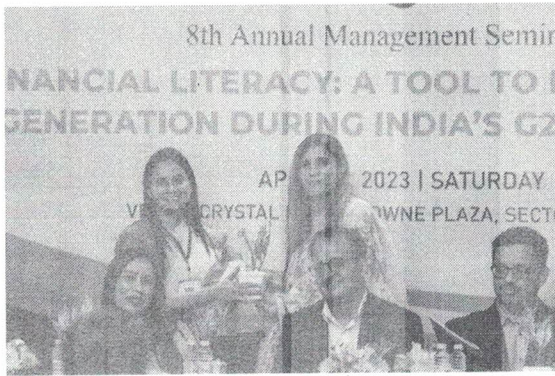
Event Highlights

Inaugural Session

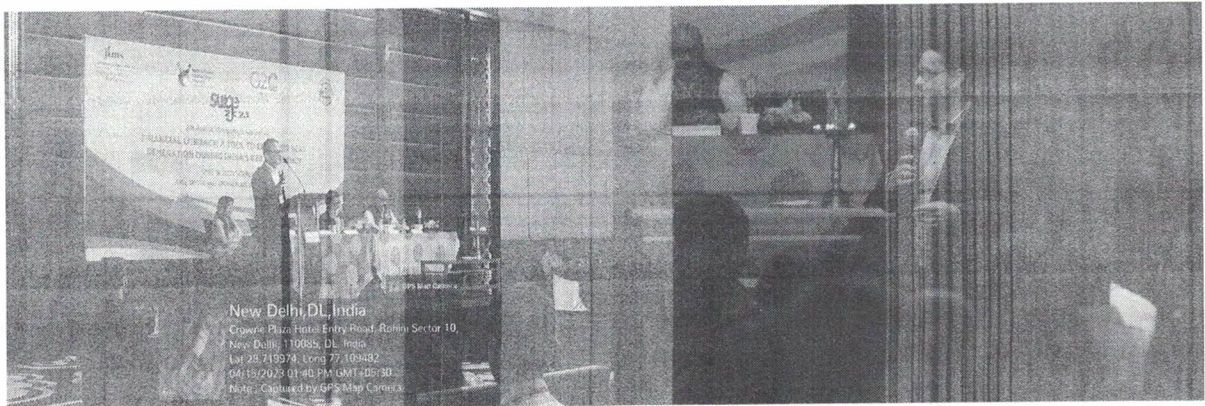


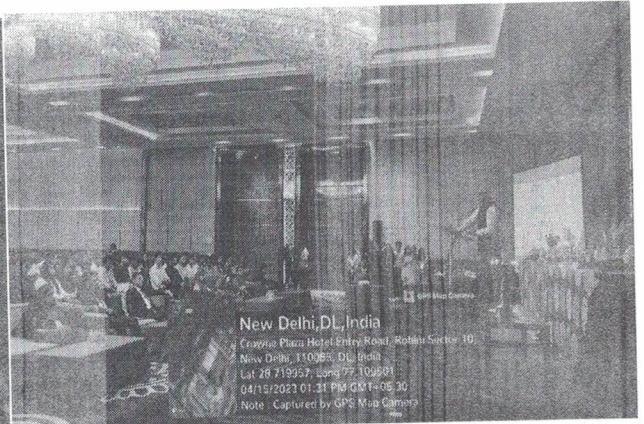
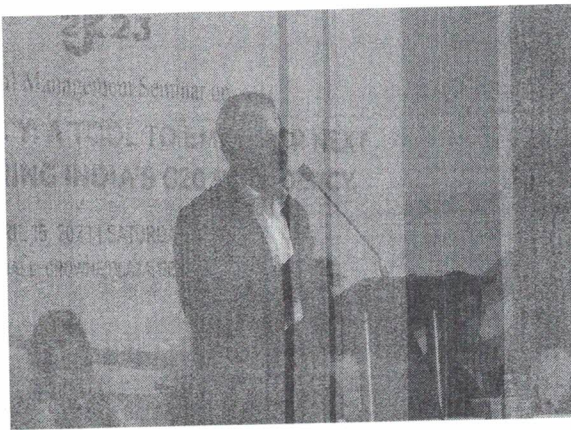
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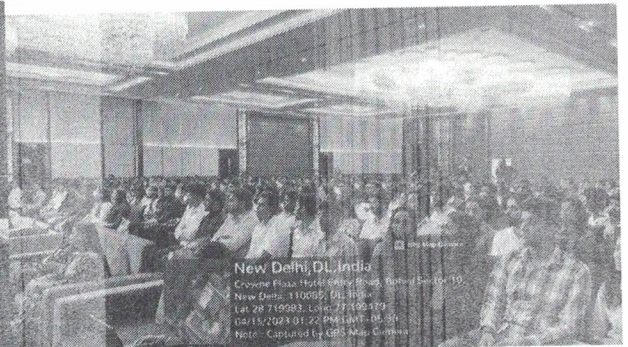
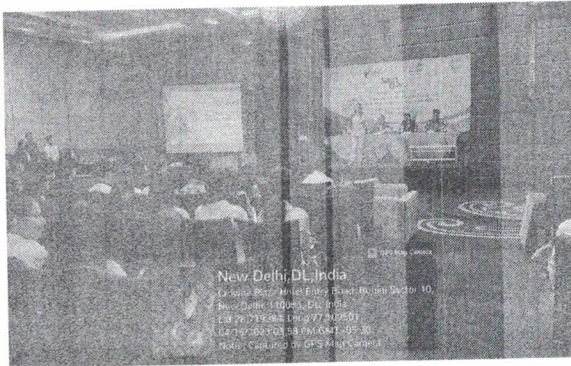
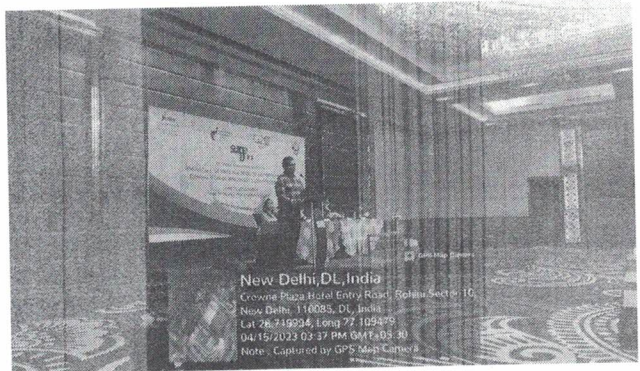
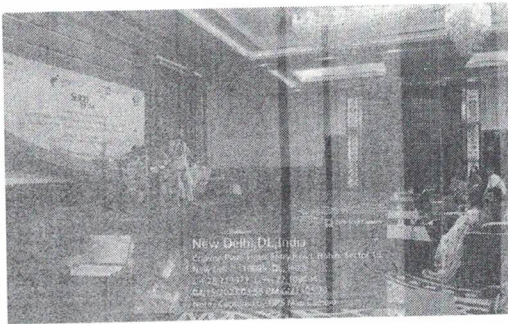


### Technical Session 1





Technical Session 2



Student Participation certificate



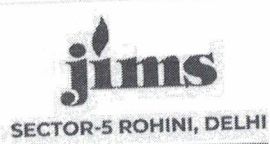


# JAGAN INSTITUTE OF MANAGEMENT STUDIES



NAAC Accredited 'A' Grade & NBA Accredited MCA Program Institute  
Approved by AICTE, Ministry of HRD Govt. of India, Affiliated to GGSIPU

Event Title:	TECHNOWHIZ 2023
Topic	Evolution of AI Based Conversational Systems
Date; Time	15 <sup>th</sup> April 2023; 8:30am-05:30pm
Convenor	Dr Deepti Chopra, Ms. Chandni Kohli
Venue / Medium	Crystal Hall, Crowne Plaza, Rohini, Delhi
Program	BCA
No. of Students	199
Organiser (Club/ Dept.)	JIMS, Department of Information Technology in Collaboration with CSI



*Building Capabilities.  
Building Resilience.*



8th Annual InfoTech Symposium

# TECHNOWHIZ 2023

## Evolution of AI based Conversational Systems

<b>15th</b> Apr 2023	<b>8:30AM</b> <b>ONWARDS</b>
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**Crown Plaza, Sector- 10, Rohini, Delhi**



## REPORT

The Department of Information technology at JIMS, Rohini, Delhi, in collaboration with CSI organized 8<sup>th</sup> Annual InfoTech Symposium 'TECHNOWHIZ 2023' on 15<sup>th</sup> April 2023 at Crowne Plaza.

### Objective:

1. to facilitate discussions and interactions among attendees and speakers and to help foster an environment of learning and collaboration
2. The attendees are coming away with new knowledge and perspectives
3. To be able to impart confidence and leadership qualities

Department of Information Technology of **JIMS Rohini Sector 5**, in collaboration with CSI, Delhi Chapter organized 8<sup>th</sup> Annual InfoTech Symposium, TECHNOWHIZ 2023 on 15<sup>th</sup> April 2023. The theme of the Symposium was 'Evolution of AI based Conversational Systems'. The event took place in Crowne plaza. The chief guest was Mr. Sandeep Jain; Founder and CEO of GeeksforGeeks. The Guest of Honour was Mr. Navendu Brajesh, Head R&D Sopra Steria. The Guest Speakers were Dr. Gaurav Tripathi, Head Scientist, Bharat Electronics Limited and Mr. Abhinav Gupta, Head mobility, Techugo. All the speakers discussed about future of AI, NLP and the conversational systems evolution and its impact and applications in the society. The convener of the event were Dr Deepti Chopra and Ms. Chandni Kohli. The student coordinators were: Priyanshu Mehta, Ritika Singh, Aditya Pandey, Sahil Kumar and Ishita Jindal. During the event the UG Magazine 'INTELLITRENDS' was also released.

### Learning Outcomes:

1. The students were enlightened about AI based conversational systems and its evolution.
2. The students gained confidence and leadership skills by taking part as coordinators for different tasks such as overall management, stage management, website management, magazine management, designing, food management, registration management etc.
3. The students were able to share individual views about conversational systems and various emerging applications of AI with the speakers and be able to gain insight into the topic.



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SECTOR-5 ROHINI, DELHI



8th Annual InfoTech Symposium

# TECHNOWHIZ 2023

ON

## EVOLUTION OF AI BASED CONVERSATIONAL SYSTEMS

Saturday, 15th April, 2023 | 9:15 am Onwards



JAGAN INSTITUTE OF MANAGEMENT STUDIES

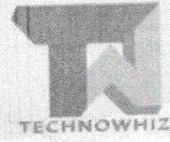


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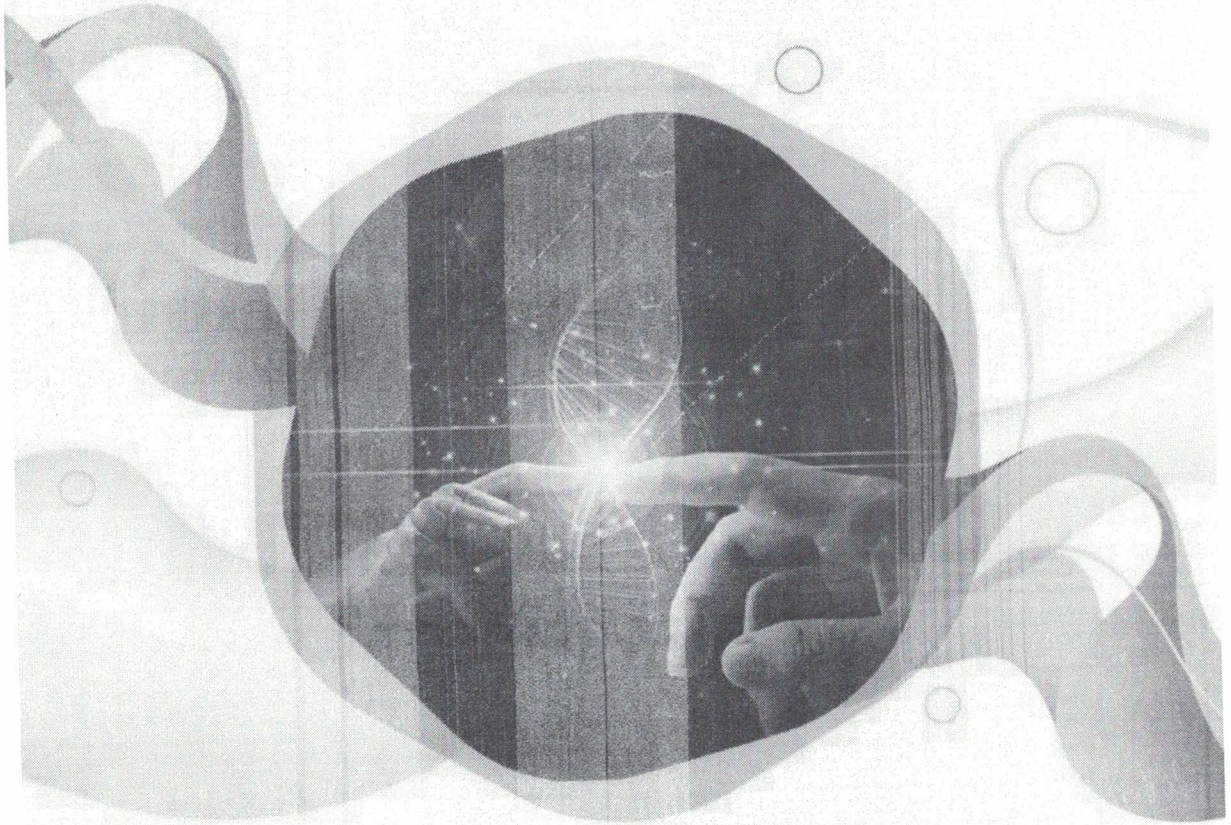


SECTOR-5 ROHINI, DELHI



# INTELLITRENDS

TECHNOWHIZ 2023



EVOLUTION OF  
AI BASED CONVERSATIONAL SYSTEMS







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**Jagan Institute of Management Studies**  
3, Institutional Area, Sector-5, Rohini, Delhi-110085

**List of Seminar conducted by the institute for Academic Session 2022-23**

S.No	Date	Topic	Resource Person	Organised For
1	15-04-2023	8th Annual Management Seminar - Surge2K23 on Financial Literacy: A Tool To Empower Next Generation During India's G20 Presidency	(1)Mr.Punnet Sethi as Chief Guest, Vice President, Reliance Nippon Life Insurance; (2)Mr.Manu Kohili, EV Enthusiast & Business Developer, Mr.Rohit Gupta, Corporate Consultant, Mr.Sarika, Financial Consultant (3)	BBA and BA(Hons)(Eco.)
2	15-04-2023	8th Annual InfoTech Symposium-TECHNOWHIZ 2023 with the theme " Evolution of AI Based Conversational Systems	(1)Mr. Sandeep Jain, Founder & CEO at Geeks-for-Geeks (2)Mr. Navendu Brajesh, Head R&D, AI & ML, Sopra Steria(3)Dr. Gaurav Tripathi, Senior Defence Scientist, Bharat Electronics Limited (4)Mr. Abhinav Gupta, Director Mobility, Techugo(5)Dr. Manjot Kaur Bhatia (Professor)-IT, JIMS	BCA
3	25-03-2023	National Conclave 2023 on Trade Pattern for Growth in Global Market-A stakeholder's Perspective	(1)Dr. Yogendra Narain IAS officer, Present Chancellor-Hemwati Nandan Bahuguna Garhwal University (2)Mr. Manu Seth, Founder, CEO-Speaking Mindz Inc, Chairman-ASSOCHAM(JEDC), INDIA (3)Prof. Manmohan Krishna, Prof Former Head of Economics, Department-Allahabad University (4) Mr. Umesh Rao, Senior Consultant, Educator, Advisor-International Business & Strategy (5)Mr. Praduman Gupta, MD of Lasco Shipping (6)Mr. Gaurav Jain, Founder & CMD, KR Industries Ltd (7)Mr. Jagat Shah, Founder & CMD Global Network, Diamond technologist, Custer development expert by UNIDO (8)Prof. Mehtani Prof. International Business, and Strategy IIFT (9)Mr. Asif Eqbal Khan, Export Promotion Officer, Council, for Leather Exports	MCA, BCA, BBA & BA(Hons.)(Eco.)
4	18-03-2023	PRASTUTI -2023, An Annual Students' Convention: Environmental Sustainability and Public Health"	(1)Dr. S. D. Attri, Additional director General of Meteorology Department, India Meteorological Department. as Guest of Honor; (2) Dr. Anju Gambhir, Pediatric Surgeon, Fortis hospital as Eminent Speaker (Topic: Growing Birth defects because of Environmental Stressors); (3)Dr. S.K.Singh, Vice Chancellor, RTU, Rajasthan Technical University, Kota, Rajasthan; (4) Prof. Anil Kumar Haritash, Head of Department, Environmental Engineering, Delhi as Technical Co-host	MCA, BCA, BBA & BA(Hons.)(Eco.)
5	12-11-2022	Techbyte Recent Innovations in Computing and Communications"	1.Dr. Ashok Kumar Sangwan Head – Program Management Office (PMO) 2., Mr. Amit Balyan ,Wipro Limited,Technical Account Manager Asia Pacific, Sklyline Communications, 3. Mr. Pradvash Tayal Technical Leader, Nokia, Bangalore, 4. ,Ms. Aakriti Kakkar India,Technical Leader, GSPANN Technologies. Delhi	MCA



**Faculty Development Program conducted for the Academic session 2022-23**

Date		Name of the Resource Person	Title of session	Content to be delivered	Organised For
20-Feb-23	I	Dr Latika Kharb	UML	Introduction to UML, various diagrams, example and case study	Faculty and Research Scholar of MCA
	II	Ms. Shivani Wadhwa	Self awareness	Why is self-awareness important, How to become more self-aware?	Faculty and Research Scholar of MCA
21-Feb-23	I	Ms. Tanshi Ghai	Bais of statistics	Measure of central tendencies dispersion and corelation on MS Excel	Faculty and Research Scholar of MCA
	II	Ms Silky	Personality and Business Etiquette	Aspects of individual personality, personality assessment and workplace	Faculty and Research Scholar of MCA
22-Feb-23	I	Dr. Parminder Bajaj	Panel Data Analysis	Introduction of Panel Data and its Advantages, Testing of Assumptions, Pooled Regression and Unit Root Test	Faculty and Research Scholar of MCA
	II	Ms. Mansi Madan	Stress Management	Stress management and Time Management	Faculty and Research Scholar of MCA
23-Feb-23	I	Dr. Parminder Bajaj	Panel Data Analysis	Fixed Effect and Random Effect model, BP test, Hausman Test, Introduction to Dynamic Panel Data models	Faculty and Research Scholar of MCA
	II	Dr Sonal Pahwa	Conflict Management	Ways to deal with workplace conflicts	Faculty and Research Scholar of MCA
24-Feb-23	I	Mr Ajay Dureja	SAP ABAP	Introduction, basics of SAP-ABAP, Procedural and Object oriented programming, TAW 10-1, TAW 12-1	Faculty and Research Scholar of MCA
	II	Dr Jyotsna Ostwal	Gender Sensitization and Prevention of Sexual Harassment at workplace	Introduction to gender sensitization and detail description of sexual harassment at workplace	Faculty and Research Scholar of MCA

27-Feb-23	Mr Sunny Seth	Data Analysis using SPSS	Data formatting, hypothesis testing, assumptions for tests	Faculty and Research Scholar of MCA
	Dr Geeta Sharma and Dr Priyanka Gandhi	IPR- Patents- Introduction	Patent filing and form details	Faculty and Research Scholar of MCA
28-Feb-23	Mr Sunny Seth	Data Analysis using SPSS	ANOVA, chi-square etc	Faculty and Research Scholar of MCA
	Dr Deepti Chopra	Recommender Based System	Various types of recommender based systems, application areas and implementation in Python	Faculty and Research Scholar of MCA



**jims**  
SECTOR-5 ROHINI, DELHI



SKILLS

Jagan Institute of Management Studies  
in association with  
Computer Society of India-Delhi Chapter  
Presents

**ONE WEEK  
FACULTY  
DEVELOPMENT  
PROGRAMME**

20th February to 28th February, 2023





## ABOUT THE PROGRAMME

Faculty Development Program is a tool for fostering knowledge and professional skills of academicians to stay relevant in current times and also to improve their performance in education, research and administration. It also aims to augment organizational capacities and culture. In the present times, with new knowledge sharing platforms and teaching pedagogies replacing the time tested techniques, we need to learn even faster. Such programs not only helps the academicians in augmenting their instructional capabilities in contemporary educational pedagogy but also in their professional development with better understanding of professional responsibilities as educators, researchers and administrators as well as in the Organizational development with respect to the requirements.

This Program is specifically designed to discuss, deliberate and come up with use of technological advancements in Data analytics, UML, self-awareness and conflict Management. The participants will have an opportunity to learn from experts who shall be delivering expert talks on various topical issues related to Personality and business etiquettes, Stress Management, Data analysis with SPSS. There would be learnings on SAP-ABAP and brief introduction on IPR-Patents. The focus of this program shall also be the deliberation on the impact of these technologies on academia while identifying the gaps and suggesting future reforms therein.

This program is designed in a manner where registration and participation is invited from representatives of Academia and Industry. Participants can register for program as per the detailed learning outcomes defined for each day.

Faculty Development Program				
20th February 2023 to 28th March 2023				
Session I: 12 noon to 1.30 pm, Session II: 2 pm to 3.30 pm				
Date		Resource Person	Session Title	Content to be delivered
20-Feb-23	I	Dr Latika Kharb	UML	Introduction to UML, various diagrams, example and case study
	II	Ms Shivani Wadhwa	Self-awareness	Why is self-awareness important? How to become more self-aware?
21-Feb-23	I	Ms Tanshi Ghai	Basics of Statistics	Measures of central tendencies, dispersion and correlation on MS-Excel



	II	Ms Silky	Personality and Business Etiquette	Aspects of individual personality, personality assessment and workplace etiquette
22-Feb-23	I	Dr. Parminder Bajaj	Panel Data Analysis	Introduction of Panel Data and its Advantages, Testing of Assumptions, Pooled Regression and Unit Root Test
	II	Ms Mansi Madan	Stress Management	Stress management and Time Management.
23-Feb-23	I	Dr. Parminder Bajaj	Panel Data Analysis	Fixed Effect and Random Effect model, BP test, Hausman Test, Introduction to Dynamic Panel Data models
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	II	Dr Geeta Sharma and Dr Priyanka Gandhi	IPR- Patents- Introduction	Patent filing and form details
28-Feb-23	I	Mr Sunny Seth	Data Analysis using SPSS	ANOVA, chi-square etc
	II	Dr Deepti Chopra	Recommender Based System	Various types of recommender based systems, application areas and implementation in Python



## ELIGIBILITY AND REGISTRATION DETAILS

- This programme is open to all Faculty members from any Indian University/College, Research Scholars and representatives from industry.
- All the participants are required to register online on or before : 17th Feb, 2023 by visiting <https://jimsindia.org/fdp> or by browsing the following link:  
<https://jimsindia.org/fdp2023/registration.aspx>

## FEE & CERTIFICATES

The registration fees can be paid online by the link mentioned in the registration form. Selected participants will be intimated through Email, on or before 18th Feb, 2023  
Certificates will be provided on the completion of the program. Fee structure is as follows:

Event details	Amount
Full Programme	Rs. 1000/-

## FOR REGISTRATION

<https://jimsindia.org/fdp2023/registration.aspx>

## IMPORTANT DATES

Last date of Registration: 17th Feb, 2023

Intimation of Confirmation: 18th Feb, 2023

## DURATION

- Programme duration is 7 days i.e. from 20th February 2023 to 28th February 2023.
- Each session will be 90 minutes duration.

## MODE OF DELIVERY OF FDP SESSION

All sessions shall be held in online mode only. Participants can easily join using their Laptops, Desktops, Mobile or Tablets.



## ABOUT JIMS

Jagan Institute of Management Studies (JIMS) imparts professional education at post graduate and graduate levels in the fields of Management and Information Technology. The Institute has been working for the attainment of a mission: to develop highly skilled and professional human resource for industry and business for the past 30 years. Established in 1993, it has now acquired a commendable position as one of the premier institutes of the country. Our PGDM, PGDM (IB), PGDM (RM) Programme are approved by the All India Council for Technical Education. PGDM, PGDM (IB) & PGDM (RM) Programmes are accredited from National Board of Accreditation (NBA) for excellence in quality education and have also been granted equivalence to MBA degree by Association of Indian Universities (AIU). Our GGSIP University affiliated programs are MCA, BBA, BCA and B.A.(Hons.)(Economics). The MCA programme is accredited by National Board of Accreditation (NBA). The National Assessment and Accreditation council (NAAC) has accredited JIMS at A grade.

The institute has earned appreciations and accreditations from various Govt. Bodies, industry associations and leading newspapers and channels. These include NBA, AIU, NAAC, National Institutional Ranking Framework (NIRF), FICCI, ASSOCHAM, Times of India, Competition Success Review, Business Standard, Business Today, etc.

JIMS Rohini has now moved beyond National Recognitions and has got South Asian Quality Standards (SAQS) accreditation for quality assurance standards. This gives an advantage for increasing international visibility among the South Asian Countries.

Apart from a leading teaching institution, JIMS is well recognized for its empirical and topical research work which benefits the industry, corporate and startups directly. JIMS Conducts an AICTE approved Doctoral program in management named Fellowship Program in Management (FPM) which is equivalent to Ph.D degree.

In the first ever NIRF ranking (2016) of teaching plus research management institutes, JIMS Rohini was placed on 43rd spot in a list of top 50 on all India basis. Since then, JIMS continues to remain in the list of Top 100 B-Schools of India for the 7th year in a row in National Institutional Ranking Framework (NIRF) of the Ministry of HRD, Govt. of India.

Apart from providing gainful and decent placement, JIMS also encourages the spirit of entrepreneurship and acts as an incubation centre for aspiring entrepreneurs and young startups.

JIMS thus proves to be an ideal place for those wishing to engage in academic pursuits and seek intellectual fulfilment.



## ORGANISING COMMITTEE

Dr. Pooja Jain, Director, JIMS

Dr. Praveen Arora, Dean, IPU Affiliated programs, JIMS

Mr. Devesh Lowe, Asst. Prof., IT Dept., JIMS

Ms. Bhavna Galhotra, Asst. Prof., IT Dept., JIMS

## ADDRESS FOR COMMUNICATION

Jagan Institute of Management Studies  
3, Institutional Area, Sector-5, Rohini, Delhi-110085  
(Near Rithala Metro Station)  
[fdp@jimsindia.org](mailto:fdp@jimsindia.org)

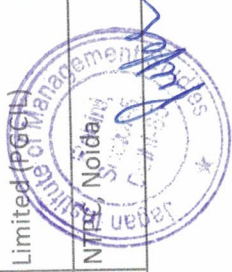


# Jagan Institute of Management Studies

3, Institutional Area, Sector-5, Rohini, Delhi-110085

## List of MDPs conducted by Faculty for Academic Session 2022-23

S.No	Event Date	Resource Person	Title of MDP	No. of Participants	Organised For	Organised By
1	15-17 May 2023	Dr. Priyanka Goel, Prof., JIMS	Advanced Labour Codes/Various Acts related to Labour and Industrial Laws	30	NHPC Limited; GOI	JIMS
2	5-9 May 2023	(1)Ms. Kanika Gupta; Asst.Prof.,JIMS	Enhancing Leadership Skills	23	Indian Railway Catering and Tourism Corporation(IRCTC)	JIMS
3	13 <sup>th</sup> March 2023	(1)Dr. Chetna Laroia, Asso.Prof.; JIMS Dr. Isha Singh, Asst.Prof., JIMS	Introduction to Blockchain Technology and Cloud Computing	25	Punjab and Sind Bank	JIMS
4	22nd -24th Feb 2023	(1)Dr. Geeta Sharma; Asso.Prof.:JIMS (2)Mr. Devesh Lowe., Asst.Prof.; JIMS	Using Basic MS Office Application	30	Power Grid Corporation of India Limited (PGCIL)	JIMS
5	15 <sup>th</sup> -17 <sup>th</sup> Feb 2023.	(1)Ms. Shivani Wadhwa, Asst.Prof., JIMS	Influencing Stakeholders	30	GAIL (India) Limited	JIMS
6	9 <sup>th</sup> Feb 2023	(1)Dr. Chetna Laroia, Asso.Prof.; JIMS (2)Dr. Isha Singh., Asst.Prof; JIMS	Introduction to Blockchain Technology and cloud computing	30	Punjab and Sind Bank	JIMS
7	18 <sup>th</sup> -21 <sup>st</sup> December 2022	(1)Ms. Nanika Kaushik.Asst.Prof. JIMS (2)Dr. Disha Grover, Asso.Prof, JIMS	Next Innings	26	Grid Controller of India Ltd.	JIMS
8	9th December 2022	(1)Ms. Rachna Minocha.;Asst.Prof.;JIMS (2)Ms. Ruchika Sharma; Asst.Prof.;JIMS (3)Dr. Manjot Kaur Bhatia, Prof,JIMS	Sexual Harassment of Women at Workplace ( Prevention, Prohibition and Redressal) Act, 2013 (POSH)	35	Power Grid Corporation of India Limited (PGCIL)	JIMS
9	12-13th July, 2022	(1)Dr.Priyanka Goel, Asso.Prof.,JIMS (2)Ms. Kanika Gupta, Asst.Prof.,JIMS	Building, Inspiring and leading a Team	35	NHPC, Noida	JIMS



# **JAGAN INSTITUTE OF MANAGEMENT STUDIES**

**3, Institutional Area, Sector-5, Rohini, Delhi-110085**

Is Organizing

**Management Development Programme**

ON

**Enhancing Leadership Skills**  
**(For IRCTC Employees)**

During 5<sup>th</sup> – 9<sup>th</sup> May, 2023



## Session Schedule

Program	<b>MDP on "Enhancing Leadership Skills" for IRCTC</b>
Duration	4 Days (5 <sup>th</sup> -8 <sup>th</sup> May 2023)
sVenue	JIMS , Sector-5 , Rohini

### DAY 1 (5<sup>th</sup> May 2023)

Time	Session Topic	Faculty
10:00-11:00	Inauguration, Lighting the Lamp	
11:00-11:45	Tea-Break	
11:45-13:00	Leadership skills for organizational excellence	Dr. A.K. Balyan (Ex. CMD-Petronet LNG, Dir. HR ONGC, Ex-President Reliance Hydrocarbons)
13:00-14:00	Lunch	
14:00-15:15	Motivating Self and Others	Dr. Pooja Jain (Director – JIMS)
15:15-15:45	Tea-Break	
15:45-17:00	Motivation and building high-performing teams	Dr. Pooja Jain (Director – JIMS)

### DAY 2 (6<sup>th</sup> May 2023)

Time	Session Topic	Faculty
10:00-11:15	Enhancing Emotional Intelligence	Dr. Pratima Daipuria (Dean PGDM Program)
11:15-11:45	Tea-Break	
11:45-13:00	Crisis Management with reference to IRCTC	Mr. M.P. Mall (Ex. CMD-IRCTC)
13:00-14:00	Lunch	
14:00-15:15	Creating Positive work environment	Ms. Kanika Gupta
15:15-15:45	Tea-Break	
15:45-17:00	Creating a Positive work environment	Ms. Kanika Gupta





**Day 3 (7<sup>th</sup> May 2023)**

Time	Session Topic	Faculty
10:00-11:15	Handling manpower and delegation effectively	Dr. S.C. Kapoor (Adjunct Faculty)
11:15-11:45	Tea-Break	
11.45-13.00	Handling manpower and delegation effectively	Dr. S.C. Kapoor (Adjunct Faculty)
13:00-14:00	Lunch	
14.00-15:15	Maintaining work life balance	Ms. Harpreet Rakhra (Head, Psychology Dept.)
15:15-15:45	Tea-Break	
15:45-17:00	Stress Management	Ms. Harpreet Rakhra (Head, Psychology Dept.)

**Day 4 (8<sup>th</sup> May 2023)**

Time	Session Topic	Faculty
10:00-11:15	Gender Sensitization and Prevention of Sexual Harassment	Dr. Pratima Daipuria (Dean PGDM Program)
11:15-11:45	Tea-Break	
11.45-13.00	Managing Projects Effectively	Mr. Himanshu Manglik (Adjunct Faculty)
13:00-14:00	Lunch	
14.00-15:15	Project Presentations	Dr. R. K. Singh (Dean RM Program) Prof. Ambika Bhatia
15:15-15:45	Tea-Break	
15:45-17:00	Valedictory	

- Program Director: Mr YPS Kanwar, VP & Dean Executive Education, JIMS 9999752346
- Program Coordinator: Ms Sunayna Kawatra, JIMS, 9810756580





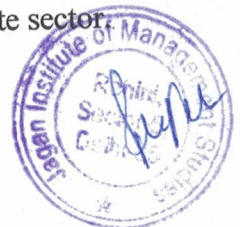
**Dr. Pooja Jain, Professor and Director, JIMS Rohini**

She has over 19 years of experience majoring in academics and Industry. She regularly conducts management development programs and Training on customer experience, Relationship management, Leadership, Change management, and conflict resolution for junior and middle-level executives. She is an avid researcher and has published numerous research papers in national and international journals. In addition, she has also developed multiple cases for classroom teaching and some of them have been published in journals of repute. She regularly undertakes consultancy assignments for companies in the area of Marketing and Human resource management. Some of the organizations in which she has conducted training recently are Punjab & Sind Bank, Delhi Transport Corporation and Delhi Fire Service. She holds a Post graduate in Management and PhD in the area of Marketing.



**Ms. Harpreet K. Rakhra, Asst. Professor, JIMS Rohini**

Ms. Harpreet Kaur Rakhra has been associated with JIMS as an Assistant Professor for six years. An MA in English and Psychology. She is also an MBA and has a graduate degree in English Literature from Delhi University. Prior to this she has worked with Educomp as a subject matter expert and Excel Books as a language editor. Ms. Rakhra has several international publications and has presented papers at International forums. She has an experience of 19 years in the area of academics and industry. She is an dynamic orator and has designed training modules for various levels of English language learners and conducted several Training Programs on Communication and soft skills in the private sector.





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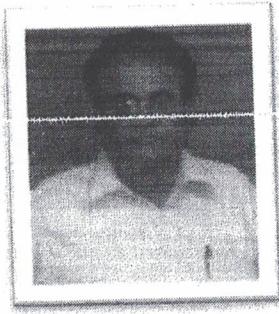
*Dr. Pratima Daipuria, Professor & Dean PGDM Program at JIMS, Rohini*

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She holds MBA in Human Resource Management, MA in Economics and PhD from Faculty of Management Studies, University of Delhi on Emotional Intelligence. She is a Certified Hogan Assessor and makes use of personality-based assessments for consultancy support to industry in selections, team building, training and coaching. She is also a certified POSH Trainer from Indian Society Training Development. With more than 20 years of experience that includes both academic and corporate, she is actively involved in teaching, research and training in areas related to individual behaviour, emotional intelligence, mindfulness, leadership, culture, interpersonal relations, stress and conflict management. She curates learning programs for leading Corporates in Public and Private sectors including Banking, Retail, Aviation, Logistics, technology, Infrastructure and Start-ups. Some of her recently concluded training sessions were done in Airport Authority of India, Delhi Transport Corporation, Power Grid Corporation, Punjab and Sind Bank, Tata Power Delhi Distribution Ltd, WAPCOS, Ritu Wears to name a few.

She is an avid reader and passionate about helping people decipher their self and surroundings. And for that she designs and delivers elevated learning experiences through workshops and training sessions. She believes that learning is an ever evolving process and the best way to learn is unlearn, unwind and restart.





**PROF. S.C.KAPOOR, Corporate Trainer & Visiting faculty, JIMS Rohini**

Prof. Subhash Kapoor has 45 years of experience in Corporate, consulting and has an innovative mix of academics. He has been involved in providing consulting in major management areas of Human Resource and Industrial Relations with a special focus on HRD including Human Resource Policies, Recruitment and Selection, Training and Development, Appraisal Systems, Compensation and Benefits, Attitude, Morale and Motivational studies, etc. He has been practicing counsel in industrial relations and industrial laws and has rendered his expertise to more than a hundred industries in India in various facets of IR right from diagnosis to contingency management to preventive and proactive aspects of developing healthy IR culture in the organizations. His last major assignment for the corporate was with the house of Tata (Timex watches ltd as GM HR).

He is former General Secretary NIPM (Delhi Chapter) he is also a life member of NHRD. He conducted more than 500 workshops for managerial development for corporate, and various professional bodies like PHD Chambers of Commerce, IIFM, ASSOCHAN, ICAI and Delhi productivity council. He was a member ad-hoc committee NHRD (Delhi Chapter) for the reorganization of the system operations for making outcomes effective. He is regularly conducting training programs for ICAI in Managerial effectiveness.

Prof. Kapoor holds an honours degree in English Literature with a postgraduate degree in Social Work with a specialization in Personnel Management and Industrial Relations from the University of Delhi. He also holds a Diploma in Labour Law from the Indian Law Institute and PGDM in training and development from ISTD.



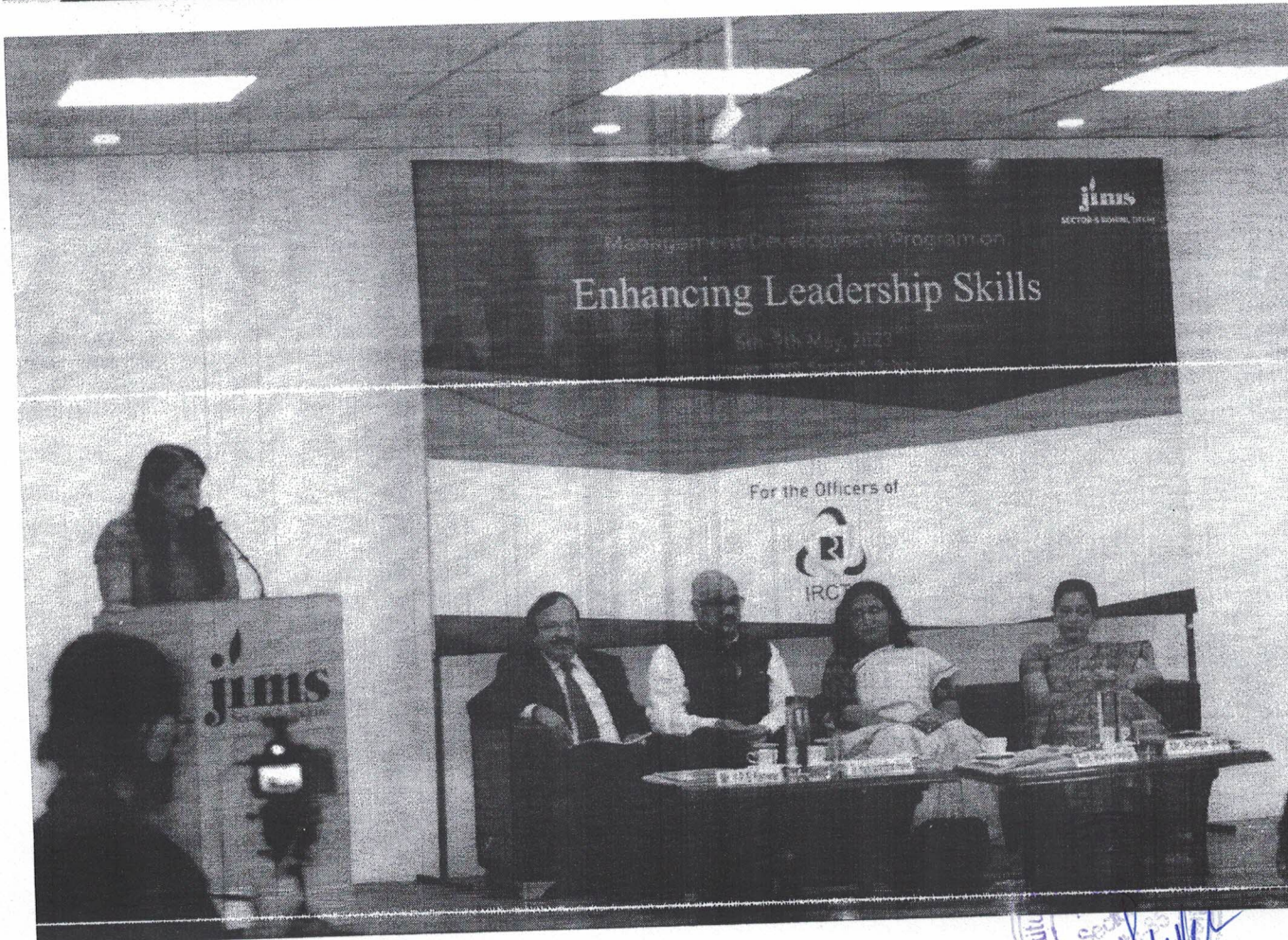


Himanshu Manglik is Founder & President of WALNUTCAP Consulting. He is a management consultant with extensive experience working with multinational companies as well as Indian businesses. An MBA from IIM Bangalore, he is an alumnus of Shri Ram College of Commerce and a Post graduate in Economics from Delhi University. Himanshu has over 40 years of experience across industry and academics and has been involved with handling many successful projects as well as resolving extraordinary crisis situations. He is Visiting Faculty, Adjunct Faculty and Academic Advisor at Management Schools including IIM Shillong and others in Lucknow, Indore, Delhi region, writes extensively on issues relating to marketing, economy and society and is invited as a jury and panelist on public forums. He has also been on the governing body of the Business and Community Foundation [BCF] and is Mentor for the School of Entrepreneurship at the Rishihood University.

Himanshu Manglik has worked closely with CEOs and Senior Management across diverse industries and companies and with some of the toughest brands including Nestle, JWT, India Today, Times of India, Shalimar Paints, Sankey Wheels, GOLDCAFE and Godrej. He believes that business succeeds when professional managers behave as if they own the business. When they understand the importance of systems and processes but have an entrepreneurial mindset and constantly search for innovative solutions. He believes that it was his commitment to these fundamentals that enabled him to successfully launch fmcg brands nationally, helped create path breaking advertising campaigns, manage factory operations impacted by prolonged labour strife and be at the forefront of the MAGGI crisis at Nestle in what was undoubtedly the biggest crisis faced by the food industry in India. He has been passionate and committed to creating long term value. His expertise in marketing, brand building, communication and understanding of general management and human relations makes his experiences a unique competitive advantage.

He believes firmly in the values of integrity, honesty and transparency, both in professional as well as personal life. His personal philosophy is to continue recalibrating and reinventing to 'Protect. Nurture. Grow.'





Handwritten signature and a circular official stamp of the JIMS Sector-6, Gurgaon, Haryana.



SECTOR-5 ROHINI, DELHI

*Building Capabilities.  
Building Resilience.*



MDP On

# Introduction to Blockchain Technology and cloud computing

Resource Persons:  
Dr. Chetna Loriya.  
Dr. Isha Singh.





SECTOR-5 ROHINI, DELHI

*Building Capabilities.  
Building Resilience.*

## Session on Cloud Computing

**Objective:** The main objective of this session is to introduce concepts related to the analysis, design, and implementation of computation and storage clouds. With the completion of the session, the participant will be in a position to understand the necessary theoretical background for computing and storage cloud environments.

**Resource Person:** Dr. Isha Singh  
Assistant Professor (Department of IT)  
JIMS, Sector-5, Rohini

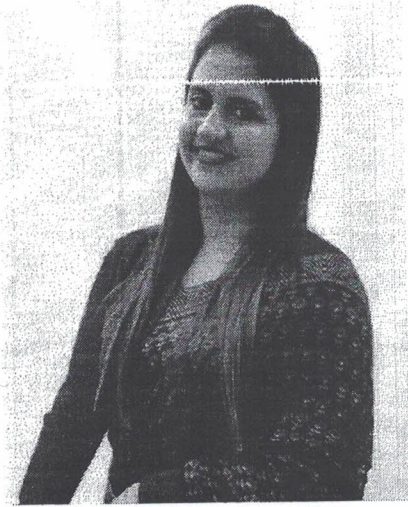
### Outline of the Session

- 1 Introduction to cloud computing
- 2 Types of Service Models in cloud computing
- 3 Cloud Deployment Models
- 4 Benefits of Cloud Computing services
- 5 Issues & Challenges in cloud
- 6 Cloud Computing & Banking ( Pre & Post)
- 7 Best Practices & Future of Cloud Computing for the Banking Services





## Profile



### **Dr. Isha Singh**

Asst. Professor- Information Technology

**Specialisation:** Image Processing, Soft Computing, Cloud Computing

Dr. Isha Singh is a keen learner and is currently working as Assistant Professor (IT) with JIMS, Sector-5 Rohini, New Delhi since 2022. She has a rich experience of 6 years in teaching undergraduate & postgraduate students. She has completed her Ph.D. in 2020, from Delhi Technological University (DTU) in Information Technology. She completed her master's in Technology in Information systems from Delhi Technological University (DTU). She pursued her graduation in B.Tech from UP Technical University. Her research areas are Image Processing, Soft Computing, and Cloud Computing. She has published several papers in National and International Journals namely Springer, DRDO, IEEE, etc. Currently, at JIMS, she is teaching Cloud Computing in MCA & Cyber security, Software Testing for the BCA program. She is also involved as a Pre-Placement co-ordinator for MCA students.





**Dr. Chetna Laroia**  
**(Associate Professor)**

Jagan Institute of Management Studies

Research Area: Sensor network, Machine Learning, Blockchain

Dr. Chetna Laroia is Ph.D. (Computer Science Engineering), MCA and UGC-NET qualified faculty in IT Department of JIMS. She has 18+ years of teaching experience in GGSIPU affiliated Institutions and University of Delhi Colleges. She completed her Ph.D. in Ubiquitous DBMS for Data Mining over Wireless Sensor Network. Her research area includes Blockchain Technology, Data Analytics in Wireless Sensor Network, Security in IOT devices and Sensor Networks.

She has an Indian Design Patent and Australian Innovation Patent in area of IoT & Blockchain.

She has published many research papers in Journals and Conferences indexed in Scopus/ IEEE/UGC Care.



# CLOUD COMPUTING

BY:

**DR. ISHA SINGH**  
Assistant Professor  
(Department of IT)  
JIMS, Sector-5, Rohini

## Outline of the Session

- 1 Introduction to cloud computing
- 2 Types of Service Models in cloud computing
- 3 Cloud Deployment Models
- 4 Benefits of Cloud Computing services
- 5 Issues & Challenges in cloud
- 6 Cloud Computing & Banking
- 7 Best Practices & Future of Cloud Computing for the Banking Services

typically edit data software computing cloud also computer utility systems Amazon Storage Provider Own Architectures applications examples infrastructure

See Web Application Services

Platform users Components

Google

## INTRODUCTION

- How many of you used cloud computing services ?
  - If you ever browsed YouTube for videos
  - If you streamed music online
  - Or just sent and received emails online
- "The cloud has been around us for a long time and its only now we have started realizing its full potential"

## What is not cloud computing ?

- If you need to specify the number of machines you want upfront... its not a cloud.
- If it only runs one operating system... its not a cloud.
- If you can't connect to it from your own machine... its not a cloud.
- If you need to install software to use it... its not a cloud.
- If you own all the hardware... its not a cloud.
- If it takes 20 slides to explain.... its not a cloud

## WHAT IS CLOUD COMPUTING?

- **IT IS DELIVERY OF COMPUTING SERVICE OVER THE INTERNET.**  
(SERVICES LIKE SERVERS, DATABASES, NETWORKING, SOFTWARE etc.)
- **PAY FOR WHAT YOU USE !!**
- **STORING OR ACCESSING YOUR DATA OVER THE INTERNET.**  
E.G.: YAHOO!, GMAIL, HOTMAIL-  
Instead of running an e-mail program on your computer, you log in to a web e-mail account remotely. The software and storage for your account do not exist on your computer -- it's on the service's computer cloud.

## What is not cloud computing ?

- If you peel back the label and its says "Grid" or "OGSA" underneath... its not a cloud.
- If you need to send a 40 page requirements document to the vendor then... it is not cloud.
- If they are trying to sell you hardware... its not a cloud.
- If there is no API... its not a cloud.
- If you need to rearchitect your systems for it... Its not a cloud.
- If it takes more than ten minutes to provision... Its not a cloud.
- If you can't provision in less than ten minutes... its not a cloud.
- If you know where the machines are... its not a cloud.
- If there is a consultant in the room... its not a cloud.

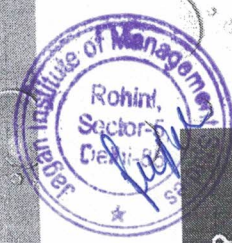
## HISTORY

- Concept evolved in 1950(BM) called RJE; (remote job entry process).
- In 2006 amazon provided first public cloud: AWS (Amazon Web Service).

## Five Essential Characteristics

On-Demand self-service

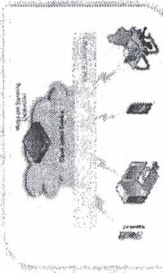
A consumer can provision computing capabilities, such as server time and network storage, as needed automatically without requiring human interaction with each service provider.



## Five Essential Characteristics

### Broad network access

Capabilities are available over the network and accessed through standard mechanisms that promote use by heterogeneous thin or thick client platforms (e.g., mobile phones, tablets, laptops, and workstations).



## Five Essential Characteristics

### Resource Pooling

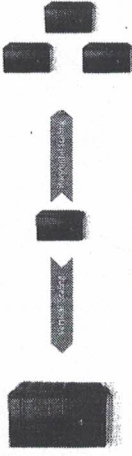
The provider's computing resources are pooled to serve multiple consumers using a multi-tenant model, with different physical and virtual resources dynamically assigned and reassigned according to consumer demand.



## Five Essential Characteristics

### Rapid elasticity

Capabilities can be elastically provisioned and released, in some cases automatically, to scale rapidly outward and inward commensurate with demand. To the consumer, the capabilities available for provisioning often appear to be unlimited and can be appropriated in any quantity at any time.



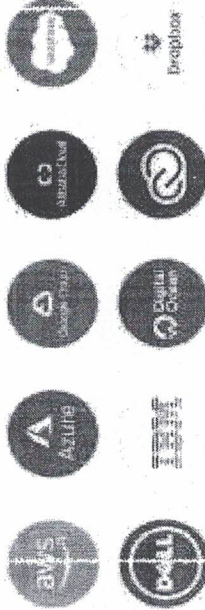
## Five Essential Characteristics

### Measured service

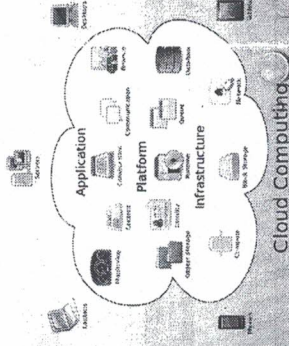
Cloud systems automatically control and optimize resource use by metering capability at some level of abstraction appropriate to the type of service (e.g., storage, processing, bandwidth, and active user accounts). Resource usage can be monitored, controlled, and reported, providing transparency for both the provider and consumer of the utilized service.



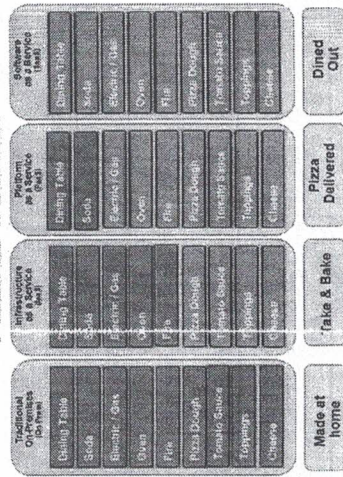
## Top 10 Cloud Providers



## TYPES OF SERVICE MODELS IN CLOUD COMPUTING



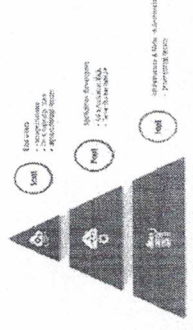
## Pizza as a Service



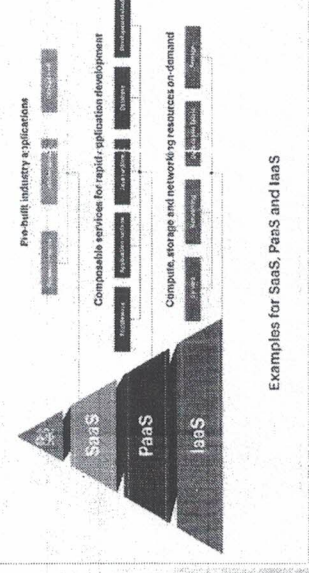
## CLOUD SERVICE MODELS

HERE ARE THE FOLLOWING THREE TYPES OF CLOUD SERVICE MODELS -

- INFRASTRUCTURE AS A SERVICE (IAAS)
- PLATFORM AS A SERVICE (PAAS)
- SOFTWARE AS A SERVICE (SAAS)



These are sometimes called the cloud computing stack because they are built on top of one another.



## CHARACTERISTICS OF IAAS

THERE ARE THE FOLLOWING CHARACTERISTICS OF IAAS -

- Resources are available as a service
- Services are highly scalable
- Dynamic and flexible
- GUI and API-based access
- Automated administrative tasks

EXAMPLE: DIGITAL OCEAN, LINODE, AMAZON WEB SERVICES (AWS), MICROSOFT AZURE, GOOGLE COMPUTE ENGINE (GCE), RACKSPACE, AND CISCO METACLOUD.

## ADVANTAGES OF IAAS

- **COST-EFFECTIVE:** Eliminates capital expenses and reduces ongoing cost and IAAS customers pay on a per-user basis, typically by the hour, week, or month.
- **WEBSITE HOSTING:** Running websites using IAAS can be less expensive than traditional web hosting.
- **SECURITY:** The IAAS cloud provider may provide better security than your existing software.
- **MAINTENANCE:** There is no need to manage the underlying data center or the introduction of new releases of the development or underlying software. This is all handled by the IAAS cloud provider.

## INFRASTRUCTURE AS A SERVICE (IAAS)

- IAAS IS ALSO KNOWN AS HARDWARE AS A SERVICE (HAAS).
- The main advantage of using IAAS is that it helps users to avoid the cost and complexity of purchasing and managing the physical servers.
- IAAS is a service model that delivers computer infrastructure on an outsourced basis to support various operations.
- Typically IAAS is a service where infrastructure is provided as outsourcing to enterprises such as networking equipment, devices, database, and web servers.

## PLATFORM AS A SERVICE (PAAS)

- PAAS Cloud computing platform is created for the programmer to develop, test, run, and manage the applications.
- PAAS services are hosted in the cloud and accessed by users simply via their web browser.
- A PAAS provide - hosts the hardware and software on its own infrastructure. As a result, PAAS frees users from having to install in-house hardware and software to develop or run a new application. Thus, the development and deployment of the application take place independent of the hardware.

## PLATFORM AS A SERVICE (PAAS)

- The consumer does not manage or control the underlying cloud infrastructure including network, servers, operating systems, or storage, but has control over the deployed applications and possibly configuration settings for the application-hosting environment.
- To make it simple, take the example of an annual day function, you will have two options either to create a venue or to rent a venue but the function is the same.

## CHARACTERISTICS OF PAAS

There are the following characteristics of PAAS -

- Accessible to various users via the same development application.
- Integrates with web services and databases.
- Builds on virtualization technology, so resources can easily be scaled up or down as per the organization's need.
- Support multiple languages and frameworks.
- Provides an ability to "auto-scale".

Example: AWS elastic beanstalk, windows azure, google app engine, magento commerce cloud, and open shift.

## ADVANTAGES OF PAAS:

- **SIMPLE AND CONVENIENT FOR USERS:** It provides much of the infrastructure and other IT related services, which users can access anywhere via a web browser.
- **COST-EFFECTIVE:** It charges for the services provided on a per-use basis thus eliminating the expenses one may have for on-premises hardware and software.
- **EFFICIENTLY MANAGING THE LIFECYCLE:** It is designed to support the complete web application lifecycle: building, testing, deploying, managing, and updating.
- **EFFICIENCY:** It allows for higher-level programming with reduced complexity thus, the overall development of the application can be more effective.



## SOFTWARE AS A SERVICE (SAAS)

- SAAS is also known as "on-demand software".
- It is a software in which the applications are hosted by a cloud service provider. Users can access these applications with the help of internet connection and web browser.
- It removes the need to install and run applications on our own computers eliminating the expenses of hardware as well as software maintenance.

## SOFTWARE AS A SERVICE (SAAS)

- SAAS Provides a complete software solution that you purchase on a PAY-AS-YOU-GO Basis from a cloud service provider.
- Most SAAS applications can be run directly from a web browser without any downloads or installations required.
- The SAAS Applications are sometimes called **WEB-BASED SOFTWARE, ON-DEMAND SOFTWARE, OR HOSTED SOFTWARE.**

## CHARACTERISTICS OF SAAS

There are the following characteristics of SAAS -

- Managed from a central location
- Hosted on a remote server
- Accessible over the internet
- Users are not responsible for hardware and software updates. Updates are applied automatically.
- The services are purchased on the PAY-AS-PER-USE basis

EXAMPLE: BIGCOMMERCE, GOOGLE APPS, SALESFORCE, DROPBOX, ZENDESK, CISCO WEBEX, ZENDESK, SLACK, AND GOTO MEETING.

## ADVANTAGES OF SAAS

- Cost-effective: pay only for what you use.
- Reduced time: users can run most SAAS apps directly from their web browser without needing to download and install any software. This reduces the time spent in installation and configuration and can reduce the issues that can get in the way of the software deployment.
- Accessibility: we can access app data from anywhere.
- Automatic updates: rather than purchasing new software, customers rely on a SAAS provider to automatically perform the updates.
- Scalability: it allows the users to access the services and features on-demand.

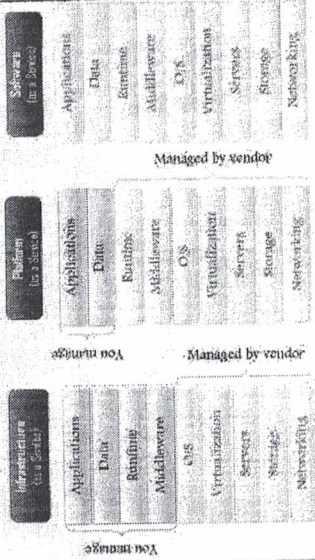
## DIFFERENCE BETWEEN IAAS, PAAS, AND SAAS

IAAS	PAAS	SAAS
It provides a virtual data center to store information and create platforms for app development, testing, and deployment.	It provides virtual platforms and tools to create, test, and deploy apps.	It provides web software and apps to complete business tasks.
It provides access to resources such as virtual machines, virtual storage, etc.	It provides runtime environments and deployment tools for applications.	It provides software as a service to the end-users.
It is used by network architects.	It is used by developers.	It is used by end users.
IAAS provides only Infrastructure.	PAAS provides Infrastructure + Platform.	SAAS provides Infrastructure + Platform + Software.

## ELASTICITY

- Elasticity isn't just about beefing up resources to meet demand peaks. It's also about shrinking those resource levels when they aren't needed. This ability to pare resources makes the "pay as you go" approach to IT possible.
- With cloud computing, customers only pay for the resources they use at any given time.
- Cloud elasticity proves cost-effective for any business with dynamic workloads such as digital streaming services or e-commerce platforms.

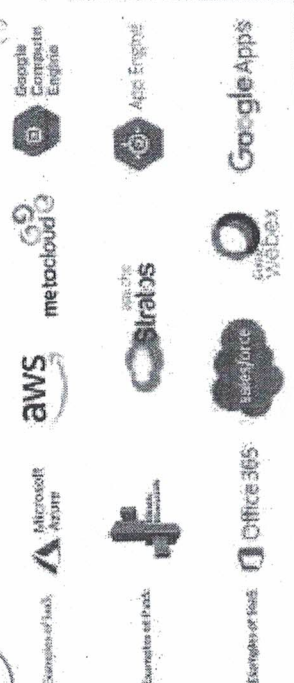
## CLOUD SERVICE MODELS



## SCALABILITY & ELASTICITY

## DIFFERENCES BETWEEN SCALABILITY AND ELASTICITY

- One of the primary differences between scalability and elasticity is the scale of resources involved.
- While elasticity usually involves the dynamic allocation of memory and CPU resources, scalability often consists of the provisioning of new servers to meet static demand growth.
- The process of adding more nodes to accommodate growth is known as scaling out. This isn't the only way to scale, however.



## EXAMPLE

- Let's say you are the manager of a pizza delivery business, and you are making your employee schedule for the coming week that includes super bowl Sunday. Of course, there will be far more orders placed on the day of the big game than on an average Sunday.
- To ensure that you can sufficiently meet customer demand, you double the number of delivery drivers that period and add two internal staff members to take orders and make the pizzas.
- The chances are that the increase in business for that once-a-year event will come at the expense of demand the following Monday. Therefore, you might reduce the number of hours normally allocated to the Monday crew to avoid paying your drivers and staff to remain idle that night.
- The goal is to match personnel resources with the actual amount of resources you think will be needed.



## DIFFERENCES BETWEEN SCALABILITY AND ELASTICITY

- For instance, let's say you have a database application serving a greater number of queries every month.
- While you could add a database server to double the load potential, a simpler approach would be to provision a more robust server on a more persistent basis, a process known as scaling up.

## DIFFERENCES BETWEEN SCALABILITY AND ELASTICITY

- The involved time windows are quite different as well.
- While ELASTICITY centers around meeting fluctuating workflows for a specific time, SCALABILITY addresses persistent growth over designated periods. It's a bigger step, and that involves a greater level of commitment towards the future.
- A social media giant such as Facebook is constantly implementing additional data centers worldwide to meet a consistently growing demand of online users.

## EXAMPLE

- Using the example of our pizzeria again, you notice that several large subdivisions are being developed within a five-mile radius of your store and city.
- You also heard that city officials are forecasting a growth rate for the area's population that significantly exceeds prior growth projections from a couple of years ago.
- To meet this static growth of residents, you decide to open a second store down the road.
- Once both stores are open, you will, of course, utilize dynamic work scheduling to make each location as elastic as possible to meet daily demand fluctuations.

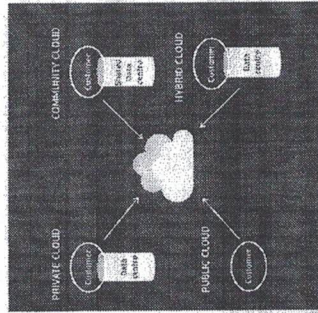
## CLOUD DEPLOYMENT MODELS

- Deployment is the process of making software available and ready for use.
- In a cloud context deployment is basically where the software is made available, in other words where it is running.

## CLOUD/DEPLOYMENT MODELS

It works as your virtual computing environment with a choice of deployment model depending on how much data you want to store and who has access to the infrastructure.

- Different Types are:
- PUBLIC CLOUD
  - PRIVATE CLOUD
  - HYBRID CLOUD
  - COMMUNITY CLOUD



## WHICH CLOUD MODEL IS AN IDEAL FIT FOR A BUSINESS ?



Cloud Deployment models

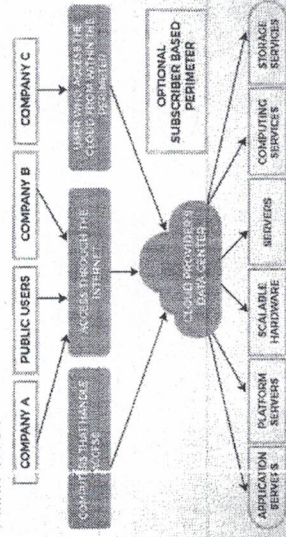
## \*\*NOTE\*\*

- Choosing the right one from the various types of cloud service deployment models is essential. Depends on your organization's computing and business needs.
- It would ensure your business is equipped with the performance, scalability, privacy, security, compliance & cost-effectiveness it requires.

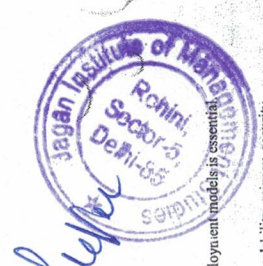
## PUBLIC CLOUD

- The most common and well-known deployment model is public cloud. It is accessible to the public.
- A public cloud is a huge data center that offers the same services to all its users. The services are accessible for everyone and much used for the consumer segment.
- Public deployment models in the cloud are: perfect for organizations with growing and fluctuating demands. It also makes a great choice for companies with low-security concerns
- Examples of public services are Facebook, Google, and LinkedIn.

## Public Cloud



Cloud Deployment models



## BENEFITS OF PUBLIC CLOUD

- **MINIMAL INVESTMENT** - as a Pay-per-use Service, there is no large upfront cost and is ideal for businesses who need quick access to resources
- **NO HARDWARE SETUP** - the cloud service providers fully fund the entire infrastructure
- **NO INFRASTRUCTURE MANAGEMENT** - this does not require an in-house team to utilize the public cloud.

## LIMITATIONS OF PUBLIC CLOUD

- **DATA SECURITY AND PRIVACY CONCERNS** - since it is accessible to all, it does not fully protect against cyber-attacks and could lead to vulnerabilities.
- **RELIABILITY ISSUES** - since the same server network is open to a wide range of users, it can lead to malfunction and outages
- **SERVICE/LICENSE LIMITATION** - while there are many resources you can exchange with tenants, there is a usage cap.

## PRIVATE CLOUD

- Companies that look for cost efficiency and greater control over data & resources will find the private cloud a more suitable choice.
- A professional cloud vendor may also offer a private cloud to their customers by supporting a separate hardware environment in the data centre. A private cloud is therefore most suited for sensitive data, where the customer is dependent on a certain degree of security.
- Private clouds, to a certain degree, lose the economy of scale compared to a public cloud.
- The private cloud offers bigger opportunities that help meet specific organizations' requirements when it comes to customization.

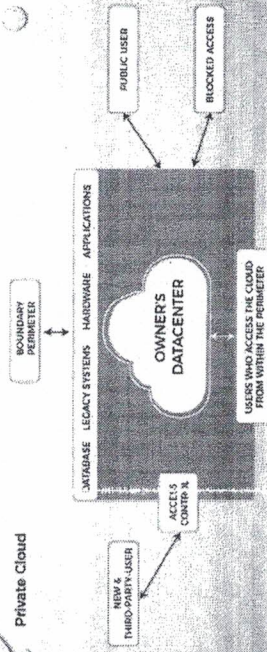
## PRIVATE CLOUD

- The distinction between private and public cloud is in how you handle all of the hardware. It is also called the "internal cloud" & it refers to the ability to access systems and services within a given border or organization.
- The cloud platform is implemented in a cloud-based secure environment that is protected by powerful firewalls and under the supervision of an organization's IT department.
- The private cloud gives the greater flexibility of control over cloud resources.

## BENEFITS OF PRIVATE CLOUD

- **DATA PRIVACY** - it is ideal for storing corporate data where only authorized personnel gets access
- **SECURITY** - segmentation of resources within the same infrastructure can help with better access and higher levels of security.
- **SUPPORTS LEGACY SYSTEMS** - this model supports legacy systems that cannot access the public cloud.

## Private Cloud



## LIMITATIONS OF PRIVATE CLOUD

- **HIGHER COST** - with the benefits you get, the investment will also be larger than the public cloud. Here, you will pay for software, hardware, and resources for staff and training.
- **FIXED SCALABILITY** - the hardware you choose will accordingly help you scale in a certain direction
- **HIGH MAINTENANCE** - since it is managed in-house, the maintenance costs also increase.

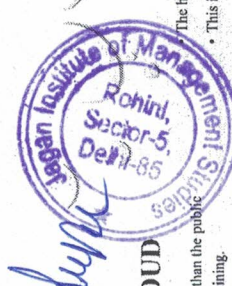
## HYBRID CLOUD

The hybrid cloud is a combination of both private and public.

- This is a setup that is much used for large companies.
- Vital data is usually preferred in a private cloud and supporting services in public. For instance, search, email, blogs, CRM, and so on. In other words, strategic applications are run separately.

## BENEFITS OF HYBRID CLOUD

- **COST-EFFECTIVENESS** - the overall cost of a hybrid solution decreases since it majority uses the public cloud to store data.
- **SECURITY** - since data is properly segmented, the chances of data theft from attackers are significantly reduced.
- **FLEXIBILITY** - with higher levels of flexibility, businesses can create custom solutions that fit their exact requirements





## LIMITATIONS OF HYBRID CLOUD

- **COMPLEXITY** - it is complex setting up a hybrid cloud since it needs to integrate two or more cloud architectures
- **SPECIFIC USE CASE** - this model makes more sense for organizations that have multiple use cases or need to separate critical and sensitive data

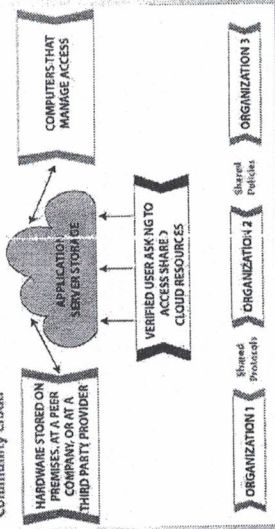
Cloud Deployment models

## COMMUNITY CLOUD

- The community cloud operates in a way that is similar to the public cloud. There's just one difference - it allows access to only a specific set of users who share common objectives and use cases.
- This type of deployment model of cloud computing is managed and hosted internally or by a third-party vendor. However, you can also choose a combination of all three.

Cloud Deployment models

Community Cloud



Cloud Deployment models

## BENEFITS OF COMMUNITY CLOUD

- **COST EFFECTIVE**: It is cost-effective because the cloud is shared by multiple organizations or communities.
- **SECURITY**: Community cloud provides better security.
- **SHARED RESOURCES**: It allows you to share resources, infrastructure, etc. With multiple organizations.
- **COLLABORATION AND DATA SHARING**: It is suitable for both collaboration and data sharing.

Cloud Deployment models

## LIMITATIONS OF COMMUNITY CLOUD

- **SHARED RESOURCES** - due to restricted bandwidth and storage capacity, community resources often pose challenges.
- **NOT AS POPULAR** - since this is a recently introduced model, it is not that popular or available across industries

Cloud Deployment models

## MAKING THE RIGHT CHOICE FOR CLOUD DEPLOYMENT MODELS

- There is no one-size-fits-all approach to picking a cloud deployment model. Instead, organizations must select a model based on workload-by-workload. Here are a few factors you can consider before making the call:
  - **Ease of use** - how savvy and trained are your resources? Do you have the time and the money to put them through training?
  - **Cost** - how much are you willing to spend on a deployment model? How much can you pay upfront on subscription, maintenance, updates, and more?
  - **Scalability** - what is your current activity status? Does your system run into high demand?
  - **Compliance** - are there any specific laws or regulations in your country that can impact the implementation? What are the industry standards that you must adhere to?
  - **Privacy** - have you set strict privacy rules for the data you gather?

## MAKING THE RIGHT CHOICE FOR CLOUD DEPLOYMENT MODELS

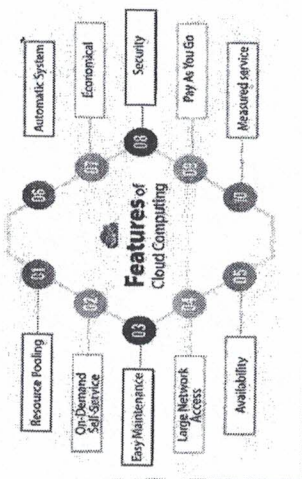
- Each cloud deployment model has a unique offering and can immensely add value to your business.
- For small to medium-sized businesses, a public cloud is an ideal model to start with. And as your requirements change, you can switch over to a different deployment model.

• VIDEO

Cloud Deployment models

TYPE	PROPERTIES
PRIVATE CLOUD	<ul style="list-style-type: none"> <li>• Outsource or own</li> <li>• Lease or buy</li> <li>• Separate or virtual data center</li> </ul>
COMMUNITY CLOUD	<ul style="list-style-type: none"> <li>• Private cloud for a set of users</li> <li>• Several state holders</li> </ul>
PUBLIC CLOUD	<ul style="list-style-type: none"> <li>• Mega-scale infrastructure</li> <li>• Available for all</li> </ul>
HYBRID CLOUD	<ul style="list-style-type: none"> <li>• Combination of two clouds</li> <li>• Usually private for sensitive data and strategic applications</li> </ul>

## BENEFITS OF CLOUD COMPUTING SERVICES



Compatibility: cloud services allow access to data from any location and on any device. Employees can work from anywhere.

Better team work: access from any location facilitates better collaboration with persons working on the field being able to update their reports.

- Elasticity: cloud hosting services are scalable. Consumers can add resources they need and discard resources they do not want.
- Reliability: the cloud load runs on multiple servers and is isolated to run even if one server fails. Resources are drawn from the other servers to ensure continuity without any interruption.
- Easy maintenance: the service provider does the maintenance of the cloud server. They will ensure to provide high server uptime and consistent service performance.
- Large network access: we can easily access the data from the cloud or upload the data from anywhere just by having an internet connection. This way cloud supports all kinds of networks.
- Server availability with the cloud: there is high server availability because if one server fails then the other will take responsibility. High uptime is assured as compared to other services.
- NI investment: consumers need not make any upfront investment in hardware. All services can be drawn on a subscription basis and users pay for the resources they consume.

## ISSUES AND CHALLENGES OF CLOUD COMPUTING

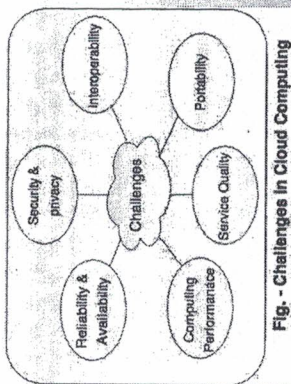


Fig. - Challenges in Cloud Computing

## PORTABILITY

- The applications running on one cloud platform can be moved to new cloud platform and it should operate correctly without making any changes in design, coding.
- The portability is not possible, because each of the cloud providers uses different standard languages for their platform.

## SECURITY AND PRIVACY

- Security and privacy are the main challenge in cloud computing.
- These challenges can be reduced by using security applications, encrypted file systems, data loss software.

## INTEROPERABILITY

- The application on one platform should be able to incorporate services from the other platform. This is known as interoperability.
- It is becoming possible through web services, but to develop such web services is complex.

## SERVICE QUALITY

The service-level agreements (SLAs) of the providers are not enough to guarantee the availability and scalability. The businesses disinclined to switch to cloud without a strong service quality guarantee.

## COMPUTING PERFORMANCE

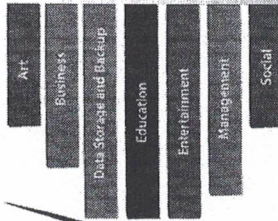
- High network bandwidth is needed for data intensive applications on cloud, this results in high cost.
- In cloud computing, low bandwidth does not meet the desired computing performance.



## RELIABILITY AND AVAILABILITY

- Most of the businesses are dependent on services provided by third-party, hence it is mandatory for the cloud systems to be reliable and robust.

## Cloud Computing Application



Cloud is transforming the business of banking

Business is being transformed on three technology enabled dimensions



### Data

- The new natural resource**
- Data is the new basis of competitive advantage
  - Sophisticated analytics across disparate data sources will drive business outcomes
  - True value of data will come from "what" and "speed of action" as core differentiators



### Cloud

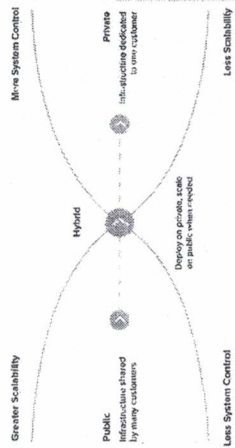
- Enables new business models**
- Cloud's "game changing" attribute revolutionize legacy services to embrace new business models
  - Cloud is enabling transformation of IT and business processes into digital services



### Systems of Engagement

- Redefines customer relationships**
- Mobile connectivity, access and participation are growing rapidly
  - Social media is quickly becoming the primary communication & collaboration format.
  - Mobile and social enhance speed of responsiveness and personalization

## CHOOSING THE BEST CLOUD COMPUTING MODEL FOR FINANCIAL SERVICES



## CLOUD COMPUTING & BANKING

- Cloud adoption is rising across industries at a steady rate, with over 90% of organizations using cloud computing technology. The growth in adoption rate is evident from the last year survey that reported 88% organizations using the cloud across the globe.
- Now while industries have started relying on cloud services for their varied data and operational needs, there is one industry that is taking its sweet time to adopt the idea on a holistic level - BANKING.

## CLOUD COMPUTING & BANKING

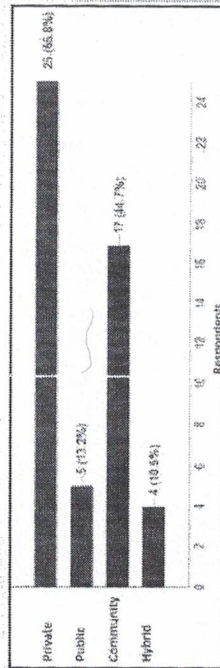
- With banks and financial institutions taking time to check every aspect of cloud from the security and privacy angle, cloud computing in banking is moving at an overly cautious speed.
- However, it there is one thing that covid-19 has taught us, it is the fact that consumers need services on their fingertips without visiting a brick and mortar shop - whether it is shopping for groceries or line or managing their end-to-end banking needs. In light of this, banks, however slow they are in adopting IT cloud infrastructure and cloud computing virtualization, know that their 2030 version will be very different from what it looks now. And that they need to put strategies in place today to prepare for their future-self.

## CLOUD COMPUTING & BANKING

- Banks are expected to enter the cloud computing arena cautiously, with no single cloud services delivery model being a silver bullet for best meeting their demanding business needs.
- Cloud computing can offer financial institutions a number of advantages, including:
  - Cost savings
  - usage-based billing
  - business continuity
  - business agility
  - green IT

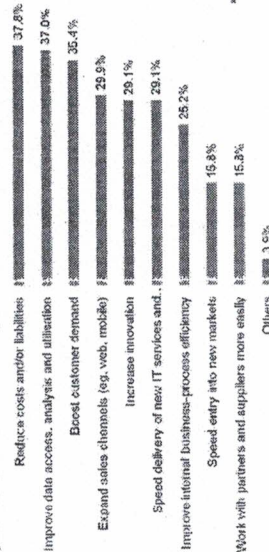
Before moving to the cloud, banks must consider issues around data confidentiality, security, regulatory compliance, interoperability of standards, and quality of services.

## FROM THE SURVEY, BANKS PREFER PRIVATE AND COMMUNITY CLOUD AS THE MOST ACCEPTABLE DEPLOYMENT MODELS



## Cost reduction, improving data access and demand generation are top business drivers for cloud adoption by banks

### Primary business drivers behind cloud adoption



## CHALLENGES OF CLOUD ADOPTION IN BANKS

**Performance:** When business data and apps are moved to the cloud, the business performance becomes dependent on the cloud platform. So before investing in cloud technology, banks should look for cloud service vendors with emerging technologies. The performance of BI tools and other cloud-based solutions is linked to the vendor's systems. This makes it vital to ensure the provider has protocols to mitigate real-time issues.

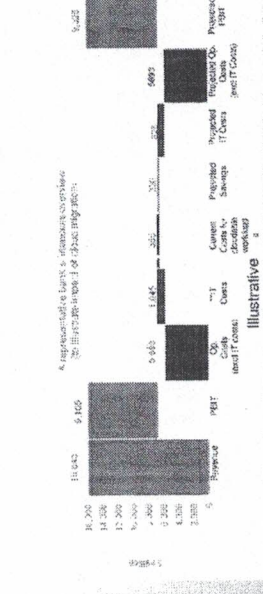
**High availability:** Banking systems need to remain up and running at all times. So banks relying on third-party services and cloud systems must be reliable and robust to avoid frequent outages and unwanted downtime.

**Compliance:** Banks can leverage third-party tools to track service efficiency and have a reliable plan to monitor SLAs, usage, performance, feedback, and business reliance on cloud services.

**Compliance:** Certain banking regulations require the provider to keep data remain segregated to the home country. This sensitive data should not be intermixed with other information residing on shared databases.

**Banking must select the right service provider and clearly understand where their data will reside in the cloud and the deployment & operating models employed to address compliance and security concerns.**

## Quantification – A 35% partial workload migration to cloud helps bank improve its profits and reduce costs



## WHY CLOUD COMPUTING FOR BANKS?

- Cost savings and usage-based billing with cloud computing, financial institutions can turn a large up-front capital expenditure into a smaller, ongoing operational cost. There is no need for heavy investments in new hardware and software. In addition, the unique nature of cloud computing allows financial institutions to pick and choose the services required on a pay-as-you-go basis.
- Businesses continually with cloud computing, the provider is responsible for managing the technology. Financial firms can gain a higher level of data protection, fault tolerance, and disaster recovery. Cloud computing also provides a high level of redundancy and back-up at a lower price than traditional managed solutions.
- Businesses agility and focus the flexibility of cloud-based operating models for financial institutions experiences shorter development cycles for new products, this supports a faster and more efficient response to the needs of banking customers. Since the cloud is available on-demand, less in-house investment is required, saving initial setup time.
- Cloud computing also allows new product development, less to those forward without capital investment. Cloud computing also allows businesses to move IT-related services to the cloud, including software patches, maintenance, and other computing issues. As a result, firms can focus more on the business of financial services, not IT.
- Green IT organizations can use cloud computing to transfer their services to a virtual environment that reduces the energy consumption and carbon footprint that comes from setting up a physical infrastructure. It also leads to more efficient utilization of computing power and less idle time.

## BEST PRACTICES & FUTURE OF CLOUD COMPUTING FOR THE BANKING SERVICES

- Cloud skills can be divided into two broad categories—the technical skills necessary for an engineering-led transformation and proficiencies in using cloud technology to shape better business outcomes. The first category includes the technical skills people need to design, build, operate and maintain cloud computing systems—skills in cloud architecture, engineering, security, data management and modelling, and development.
- We call the second category the technology quotient or "TQ" skills. They span a cloud-powered bank's entire organization and include digital fluency, cloud value optimization, cross-functional collaboration, data-driven leadership, customer-centricity and innovation culture.
- Leading banks are investing in both categories, understanding that cloud isn't just a new IT tool, but a new operating model.

## APPLICATIONS OR AREAS OF BANKING THAT CAN BE DEPLOYED ON CLOUD

- Applications that are mission-critical in nature. It may be good to begin with non-transactional and non-customer-facing applications such as e-mail, e-learning, etc.
- Applications used by mobile employees, using which they store their activities and time records. This constitutes a very small amount of data compared to the organization's information database and updating it is an overhead.
- Applications running in different time zones so that they can take resource optimization advantages.
- For Disaster Recovery & Internal IT tools (project management, bug tracking, etc.)

## CHALLENGES OF CLOUD ADOPTION IN BANKS

- There are a number of roadblocks that stand between banks and their cloud adoption initiatives:
  - LATENCY:** The physical distance between a data center and the cloud service provider can affect performance introducing latency issues. This latency can lead to a delay in core banking activities like card authorizations addition to the difference in geographical points, shifting the systems from the data center to cloud environment also lead to extra latency.
  - DATA RESIDENCY:** When data is hosted on the cloud, several issues of "data ownership" arise. (Regulatory compliances add on to this issue as several financial institutions face government mandated jurisdiction on where can store the data.)
  - SECURITY:** The main concern for banks investing in cloud services is ensuring data security. When sensitive banking data is stored and processed by a third-party provider, banks lack visibility into authentic data issues, credentials and authentication, & there is a risk of data breaches.
- Fortunately, popular cloud providers have optimized their security capabilities. Ensure your chosen cloud service provider implements a robust identity management system with reliable access control measures. Cloud providers enables the trackback of data privacy protocols and database security.

## WHICH SKILLS ARE BANKS INVESTING IN TO DRIVE CLOUD SUCCESS?

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## CLOUD DEPLOYABLE BANKING APPLICATIONS

- CUSTOMER RELATIONSHIP MANAGEMENT (CRM) AND ANALYTICS:** The main functions of CRM include customer servicing, customer analytics, customer management, on-boarding agent/business correspondent (BC) management. As most service providers choose multichannel access to provide CRM services, it is beneficial for banks as services can be accessed from day one onwards, thus, resulting in no latency.
- Since the operations of analytics, data warehouses, and reporting platforms are almost uniform or flat throughout the day except at the end of the day, it is advisable to adopt cloud computing for information management system along with CRM deployment.

## DEPLOYABLE BANKING APPLICATIONS

### OTHER DIGITAL CHANNELS:

ing a lot of mobile applications for the customers like online banking application, fund transfer application, requisition of new cheque option for these applications to be migrated on to as it reduces the file applications to bank's internal servers.

## CLOUD DEPLOYABLE BANKING APPLICATIONS

### APPLICATIONS RELATED TO CORE BANKING SOLUTION (CBS):

It is very hard to migrate each and every application to the cloud. Among all applications, core banking solution (CBS) is the toughest one to migrate to the cloud. However, a fraction of CBS can be migrated to the cloud like, KYC validation, credit rating process, cash management, anti-money laundering regulatory, compliance reporting, etc.

The interesting fact about these applications is that their workloads reach at peak point only at particular times of a day and remains very low for the rest of the time. Therefore, cloud is the best option for these applications.

Small banks and cooperative banks that are keen in IT manpower could adopt CBS on cloud, as it provides a platform for them to compete with large banks while ensuring better safety and security measures.

### HUMAN RESOURCE OPERATIONS:

The human resource sections do not provide support in terms of the business, but they are useful for some functions to run smoothly like hiring right employees, payrolls, compensation management, etc.

A variety of HR models are available over the cloud and most of the industry verticals are using it. Banks can also migrate their HR operations to the cloud.

## CLOUD DEPLOYABLE NON-CORE BANKING APPLICATIONS

## LOYABLE NON-CORE BANKING APPLICATIONS

### LEARNING MANAGEMENT MATERIAL:

can that can be comfortably migrated to the cloud. Prior to moving banks must ensure that the compliance requirements regarding security endor.

es, learning management set (having large learning material), intranet and IT deployment in banks can also be migrated to the cloud without

## TO ADDRESS THE CHALLENGES IDENTIFIED, BANKS HAVE THE FOLLOWING EXPECTATIONS FROM CSPs:

- Enhance transparency, implement effective audit controls
- More efficient data encryption tool
- real time log inquiry
- remote auditing service
- forensic and electronic forensics tools
- incident reporting mechanism
- clear responsibilities
- data centre site audit
- clearer systems and tools for data portability
- clearer systems and tools for service portability
- strict given privacy protection technology

## ADOPTION OF CLOUD IN THE INDIAN BANKING INDUSTRY - SUCCESS STORIES

Though public cloud services have many security and data protection related issues, banks are opting for it to carry out their back-office processes which may not contain any sensitive data pertaining to customers, payment functions, etc.

Large financial institutions such as HDFC bank, IDFC bank, Kotak Mahindra, bank of Baroda and Axis bank have moved to local clouds for their operations and customer service managements

## CLOUD DEPLOYABLE BANKING APPLICATIONS

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## CLOUD DEPLOYABLE NON-CORE BANKING APPLICATIONS



## KEY TAKEAWAYS

- The cloud is not new. Veterinary banking incumbents have still only dabbled in it. A sizable portion of workloads still run in on-premises data centers due to technical complexity, compliance and data sovereignty concerns, and a fear of change.
- Banks that are not migrating most of their workloads to the cloud are missing opportunities to make their business more efficient, resilient, and customer focused.

## KEY TAKEAWAYS

- The cloud continues to evolve in exciting new ways that promise to unlock new avenues for innovation, differentiation, customer value and profitability. One of the most significant developments is the rise of an industry cloud for banking. The banking cloud is an evolving combination of digital assets such as data capabilities, algorithms, software, and platforms tailored to banks.
- It enables banks to rapidly build custom solutions on top of services, infrastructure and applications that offer regulatory compliance out of the box. Banks can assess which cloud building blocks can be customized to their needs, rather than needing to build risk mitigation and compliance measures from scratch with each new app or deployment—accelerating time to value.

McMindra life insurance, ICICI Lombard, reliance general insurance, Indian bank cloud solutions in order to carry out their operations and to improve their

e banks in India are stepping towards cloud adoption in order to transform their environment and making themselves withstand the stiff competition. For Rajkot (Gujarat), Shivajinno blossie salabard bank (Maharashtra), goa state ashvini co-operative bank (Karnataka) have opted for cloud solutions to set up data center to offer services like ATM, mobile banking, and online banking.

LOBCC, offered by IFTAS, a subsidiary of IDBRET is offering community ing open stack environment.

mall banks including co-operative banks and primary agricultural cooperative clubs, platform and software as a service such as CBS, SFMS (NIFT and

THANK YOU !!



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*Building Resilience.*



**पारदर्शिता  
POWERGRID**



MDP On

# **Sexual Harassment of Women at Workplace (Prevention, Prohibition and Redressal) Act, 2013 (POSH)**

Resource Persons:

Ms. Rachna Minocha.

Ms. Ruchika Sharma.

Dr. Manjot Kaur Bhatia.



**Management Development Program**  
**On**  
**Sexual Harassment of Women at Workplace**  
**(Prevention, Prohibition and Redressal) Act, 2013 (POSH)**  
**For**  
**The Employees of**  
**Power Grid Corporation of India Ltd. (PGCIL)**  
**December 9<sup>th</sup>, 2022**  
**Program Schedule**

Timing	Session	Resource person
10:00 am – 11:30 am	<b>Session I</b> Understanding & Identifying Gender Discrimination	Dr Manjot Bhatia
11:30-11:45am	<b>Tea Break</b>	
11:45 am – 1:30 pm	<b>Session II</b> What is Sexual Harassment? Three Pillars of POSH Act	Ms. Rachna Minocha
1:30 pm – 2:30 pm	<b>Lunch</b>	
2:30 pm – 3:30 pm	<b>Session III</b> Complaints Mechanism-Role of IC & LCC	Ms Ruchika Sharma
3:30-3:45pm	<b>Tea Break</b>	
3:45 pm – 5:00 pm	<b>Session IV</b> Creating A Responsible Workplace	Dr Manjot Bhatia





## Trainer's Profile



**Dr. Manjot Kaur Bhatia, Head Research & Development, Professor (IT), IPR Head, Innovation Ambassador at JIMS, Rohini**

Experienced Information Technology Professor with a demonstrated history of working in the education management, Guiding Research Scholars for PhD, Mentoring UG/PG student's projects, Lecturing, Curriculum Development for MCA, Skilled in Databases, OS, Linux, Information Security, Cryptography, Steganography. Strong information technology professional with a Doctor of Philosophy (Ph.D.) in computers science from Delhi University in the area of Information Security. Actively involved in teaching and research in the areas of Security, Databases, Linux, Operating System and Information Security. Her other areas of interest includes Cloud Computing, Steganography, Data Hiding, and Software testing. Published many research papers in various refereed International journals and has presented number of papers in international conferences. Session chair in various international conferences.



**Ms Rachna Minocha, Assistant Professor at JIMS**

Ms Rachana Minocha is an academician and a trainer. She has close to 15 years of professional experience. She has been guiding, mentoring and teaching students. She enjoy programming and can help others to understand that logic as well. Her skill includes Database Management System (DBMS) · Data Structures · Taken Pre-Placement sessions · SQL · Software Engineering · C++ · C (Programming Language) · Python (Programming Language). She also believe in shaping and grooming the student's personality in every possible aspect.





**Ms. Ruchika Sharma. , Assistant Professor at JIMS**

Ms. Ruchika Sharma is an academician and a trainer. She has close to 15 years of professional experience. Her core subjects are Database Management System, C# Dot Net programming, C, C++, Web technologies. Her qualification include MBA(IT), DOEACC B Level, M.Phil (Computer Science), and she is pursuing PHD from JaganNath University, Jaipur. She is a keen enthusiast and has published many paper in the journals of repute.



## Jagan Institute of Management Studies

### List of Short Term / Value added course for academic session 2022-23

S.No	Year	Date	Course Name	Mode	Company Name / Resource Person	Organised for
1	2023	24-07-2023 to 05-08-2023	Value added course on Ms Excel for Data Analysis - Basic to Advanced	Offline	Dr. Parminder kaur Bajaj, Professor, JIMS	BA (Eco)(Hons.)
2	2023	22-06-2023 to 28-06-2023	Data Structures Training	Offline	Mr. Chandra Shekhar, Alumnus, Batch 2014-17	MCA
3	2023	12-06-2023 to 14-06-2023	C Programming Training	Offline	Ms. Sweta Goel, Alumnus, Batch 2011-14	MCA
4	2023	13-04-2023 to 13-04-2023	QT Classes	Offline	Prof. J.P.Singh	BBA 2nd Year
5	2023	17-03-2023 to 31-03-2023	2 weeks Training on Amazon Web Service(AWS)	Blended Mode	Mr. Chandra Shekhar Paatni (Alumni Batch 2014-2017); Senior Software Engineer, To The New	MCA
6	2022	20-06-2022 to 15-07-2022	4 Week Android Development	Offline	Mr Shubham Mani tripathi, Corporate Trainer, Ainwik Technologies	BCA 2nd Year
7	2022	13-04-2023 to 13-04-2023	Ms Excel for Data Analysis - Basic to Advanced	Offline	Dr. Parminder kaur Bajaj, Professor, JIMS	BA (Eco)(Hons.)
8	2022	20-06-2022 to 23-07-2022	5 Week Mern Stack development	Offline	Mr.Nikhil Jha, Tech Explica	BCA 2nd Year



# JAGAN INSTITUTE OF MANAGEMENT STUDIES



NAAC Accredited 'A' Grade & NBA Accredited MCA Program Institute

Approved by AICTE, Ministry of HRD Govt. of India, Affiliated to GGSIPU

Event Title:	Add on course
Topic	Ms Excel for Data Analysis - Basic to Advanced
Date; Time	24 <sup>th</sup> July 2023 to 5 <sup>th</sup> August 2023, 10 am to 01:00 pm
Duration	30 Hours
Resource person	Dr. Parminder Kaur Bajaj
Venue / Medium	Lab B301
Program	For BA (H) Eco, 2 <sup>nd</sup> and 3 <sup>rd</sup> year students
Organiser (Club/ Dept.)	Economics Department
Faculty In charge	Ms. Tanshi Ghai

## REPORT

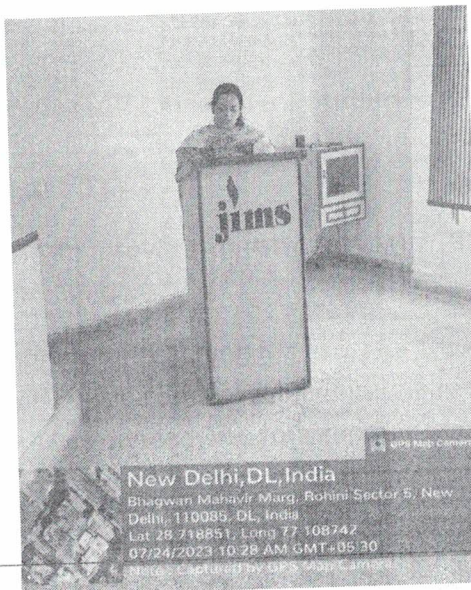
Jagan Institute of Management Studies organised an Add on course on "Ms Excel for Data Analysis - Basic to Advanced", for the students of Economic Department from 24<sup>th</sup> July 2023 to 5<sup>th</sup> August 2023.

**OBJECTIVE:** To provide participants with a comprehensive understanding of Excel's data analysis capabilities.

The curriculum for teaching Ms Excel for Data Analysis was designed in a progressive manner, starting with basic concept which gradually moved towards more advanced techniques. The curriculum was divided into four modules, namely;

1. Introduction to Excel
2. Basic Functions and Formulas
3. Advanced Functions and Formulas
4. Data Analysis Using Excel

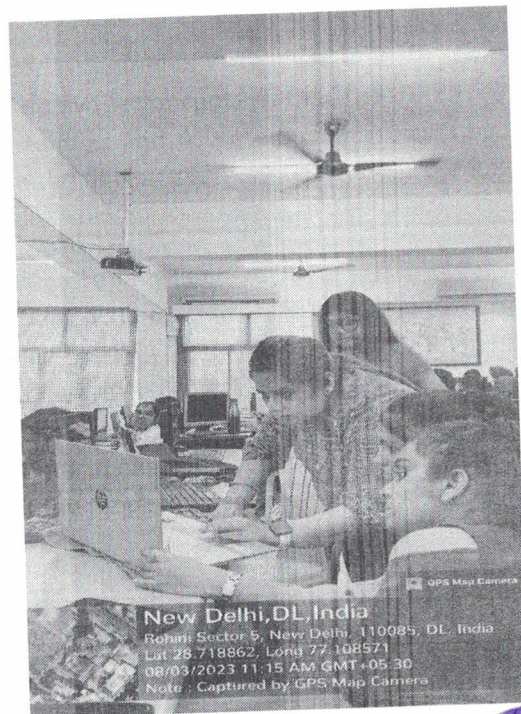
The workshop commenced with Ms Tanshi Ghai introducing and facilitating the Resource person, Dr. Parminder Kaur Bajaj. She also explained the importance and guidelines of the course.

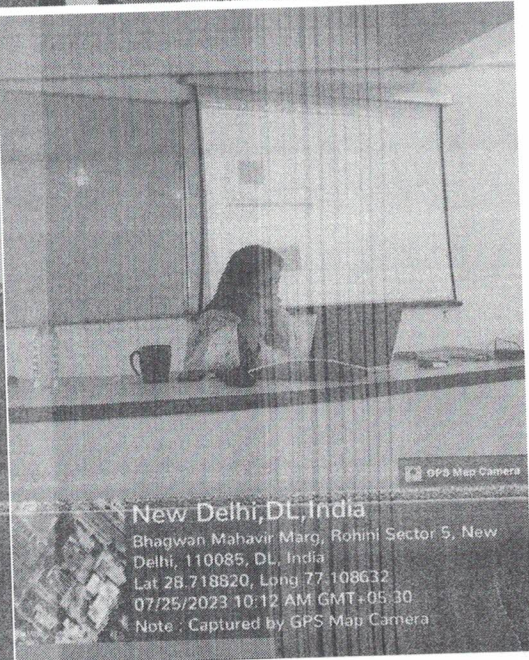
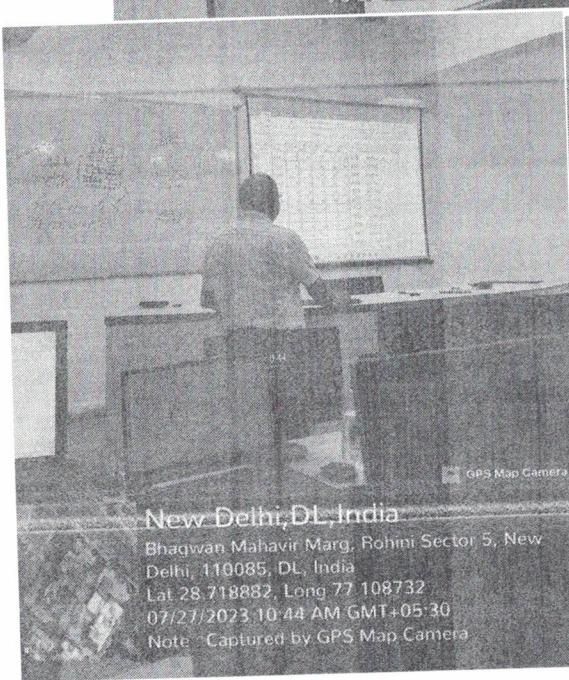
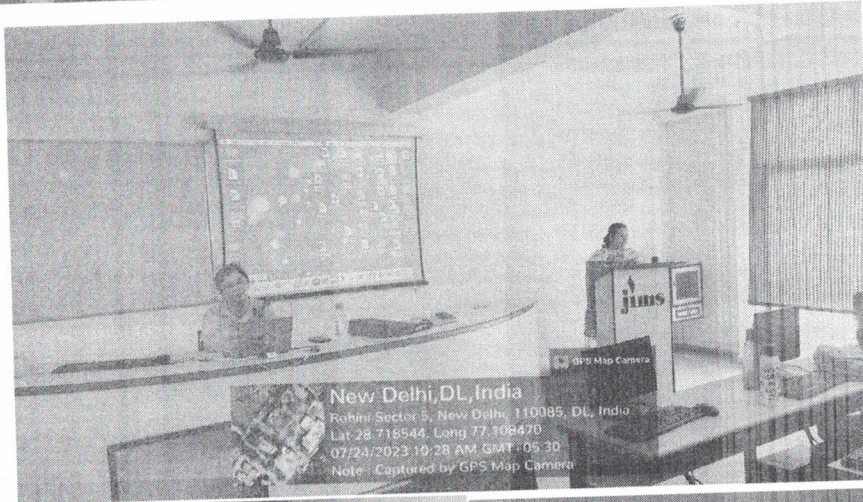
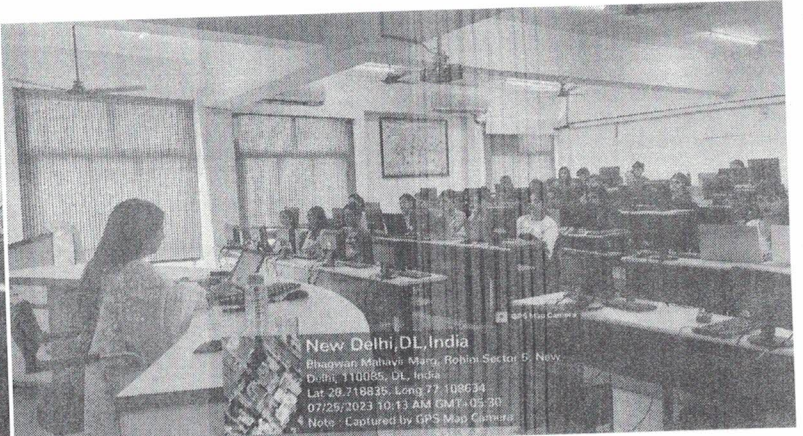
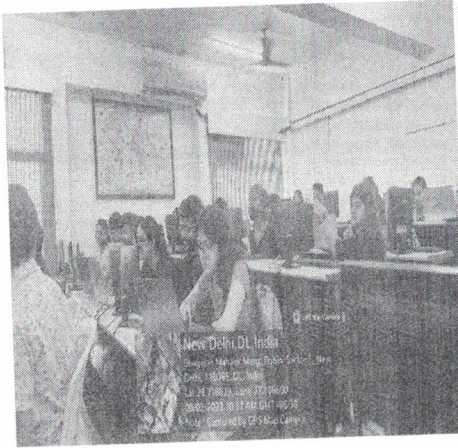


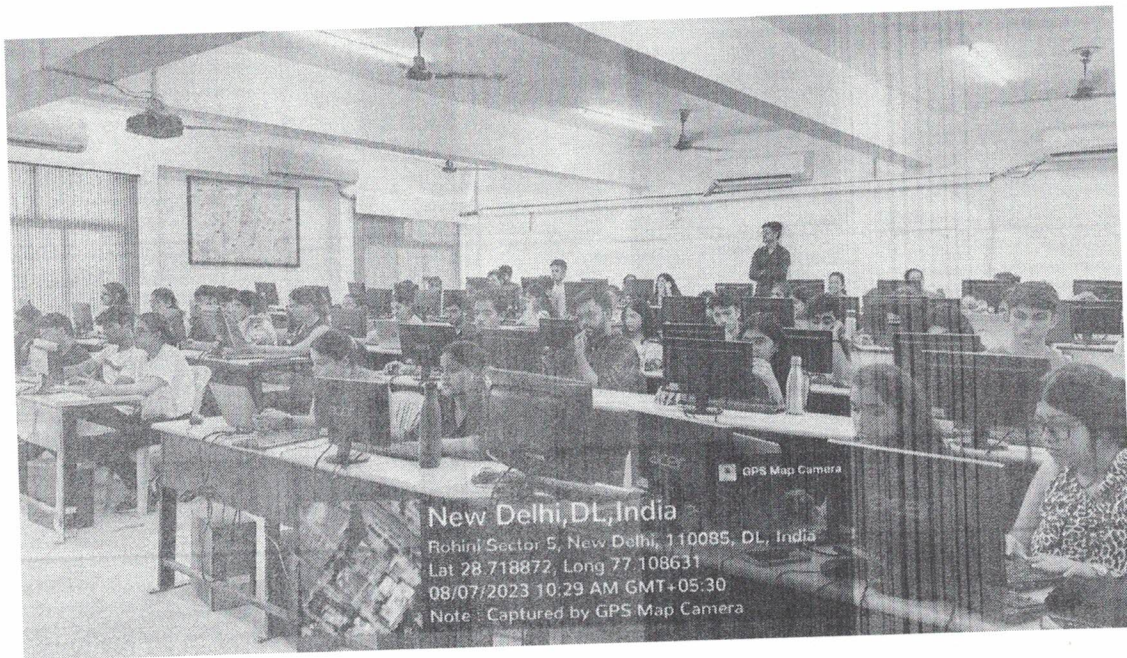
To reinforce learning and provide practical experience, assignments were given after the completion of each module. The assignment required students to apply the concepts learned in Excel to real-world scenarios, enabling them to solidify their understanding and skillset. Successful completion of assignments and achieving a minimum score of 50% in the final assessment test were prerequisites for earning the workshop's certification.

Proficiency in Excel for Data Analysis enhances student's employability across various sectors such as finance, marketing, healthcare, and research. The skills acquired lay a strong foundation for more advanced data analysis tools and programming languages like Python and R. Students can apply these skills in research projects, internships, and personal data-driven projects, boosting their academic and professional growth. Learning Ms Excel for Data Analysis from basic to advanced levels is a valuable asset for college students. A well-structured curriculum and engaging pedagogical approaches ensure that students are well-prepared for the challenges of the modern job market.

The workshop on "Ms Excel for Data Analysis - Basic to Advanced" was a success. The curriculum's structured progression, practical assignments, and thorough assessment ensured that participants not only gained knowledge but also practical skills. This educational initiative equipped participants with vital analytical skills necessary to excel in today's data-driven world.







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### Attendance and Result Report

Total students	78
Students attended	66
Students appeared for the exam	66
Students that passed	52

s.no.	Year	Name	Score	PASS/FAIL	ATTENDANCE(16)	75% ATT.	certificate
1	2022-2025	Yukta Chaudhary	44	PASS	14	yes	YES
2	2022-2025	Harshita gaurge	35	FAIL	14	yes	
3	2021-2024	muskan khanna	40	PASS	14	yes	YES
4	2022-2025	Ashmit Gupta	47	PASS	10	no	
5	2022-2025	Manek Preet Singh	58	PASS	10	no	
6	2021-2024	Ayush Aryan	47	PASS	10	no	
7	2021-2024	Geetika Chugh	66	PASS	16	yes	YES
8	2021-2024	SAMARTH KUMBHA	41	PASS	14	yes	YES
9	2022-2025	JAI DHAWAN	53	PASS	16	yes	YES
10	2022-2025	VRINDA GANDHI	60	PASS	16	yes	YES
11	2022-2025	Anubhav garg	42	PASS	14	yes	YES
12	2021-2024	Ianya	45	PASS	13	yes	YES
13	2021-2024	muskan garg	52	PASS	14	yes	YES
14	2021-2024	Harshit Kumar	46	PASS	14	yes	YES
15	2021-2024	Deergha	36	FAIL	14	yes	
16	2022-2025	riya mishra	39	FAIL	14	yes	
17	2021-2024	Bhavileen Kaur	46	PASS	12	yes	YES
18	2021-2024	RIYA SAINI	60	PASS	6	no	
19	2022-2025	Rakshith Bhatia	45	PASS	16	yes	YES
20	2021-2024	GURTARAN KHEPARH	51	PASS	16	yes	YES
21	2022-2025	Vanshika Jain	53	PASS	16	yes	YES
22	2022-2025	Dishita rajpal	49	PASS	16	yes	YES
23	2021-2024	Dipanshu Goyal	35	FAIL	10	no	
24	2021-2024	vishakha agarwal	50	PASS	14	yes	YES
25	2021-2024	sampada agnihotri	43	PASS	11	no	Yes
26	2022-2025	SIDDHARTH TYAGI	25	FAIL	12	yes	
27	2022-2025	vaibhav nautiyal	65	PASS	11	no	Yes
28	2021-2024	jiya sharma	50	PASS	10	no	
29	2022-2025	Aayush Bhardwaj	58	PASS	12	yes	YES



30	2022-2025	Soniya Rawat	43	PASS	14	yes	YES
31	2021-2024	Isha	42	PASS	16	yes	YES
32	2022-2025	Kanak garg	46	PASS	14	yes	YES
33	2022-2025	Parul Gupta	46	PASS	14	yes	YES
34	2022-2025	Anishaa Dixit	33	FAIL	16	yes	
35	2022-2025	nitika dhali	44	PASS	16	yes	YES
36	2022-2025	Ravik Mehta	40	PASS	16	yes	YES
37	2022-2025	ishan rawat	42	PASS	16	yes	YES
38	2022-2025	ava mittal	63	PASS	14	yes	YES
39	2022-2025	Romit Dhangra	84	PASS	14	yes	YES
40	2022-2025	ASTHA JAIN	46	PASS	16	yes	YES
41	2022-2025	Bhumika khanna	46	PASS	24	yes	YES
42	2021-2024	Pavik Dutt	51	PASS	16	yes	YES
43	2022-2025	Mianavi Tina	61	PASS	12	yes	YES
44	2022-2025	SNEHA BANSAL	62	PASS	14	yes	YES
45	2022-2025	Siddhi Malhotra	56	PASS	16	yes	YES
46	2021-2024	Esha Arora	66	PASS	10	no	
47	2022-2025	Manya Dhangra	45	PASS	16	yes	YES
48	2022-2025	kanak garg	57	PASS	16	yes	YES
49	2022-2025	saiky bhardwaj	41	PASS	15	yes	YES
50	2022-2025	Shruti Basak	60	PASS	12	yes	YES
51	2021-2024	vidheha khandewal	48	PASS	14	yes	YES
52	2022-2025	Archana Garg	41	PASS	14	yes	YES
53	2022-2025	RIYA BHARDWAJ	41	PASS	12	yes	YES
54	2021-2024	manika khosla	43	PASS	11	no	
55	2021-2024	DISHA MALIK	44	PASS	12	yes	YES
56	2021-2024	Sakshi Ghalewal	44	PASS	16	yes	YES
57	2022-2025	Kritagya Saha	45	PASS	14	yes	YES
58	2022-2025	Devyani Gupta	58	PASS	14	yes	YES
59	2021-2024	Shwanshi Gaur	43	PASS	10	no	
60	2022-2025	Jagrit Sharma	43	PASS	10	no	
61	2022-2025	Raksha Jain	50	PASS	15	yes	YES
62	2022-2025	NEHA KUMARI	51	PASS	16	yes	YES
			41	PASS	15	yes	YES

63	2021-2024	Himadri Purohit	45	PASS	14	yes	YES
64	2022-2025	Madhav S Jaiswal	65	PASS	16	yes	YES
65	2022-2025	Palak Naviani	46	PASS	12	yes	YES
66	2022-2025	Orishthy Adlakha	43	PASS	16	yes	YES





# JAGAN INSTITUTE OF MANAGEMENT STUDIES



NAAC Accredited 'A' Grade & NBA Accredited MCA Program Institute

Approved by AICTE, Ministry of HRD Govt. of India, Affiliated to GGSIPU

Event Title:	Data Structures Training
Date; Time	22 – 28 June, 2023 9am to 5pm
Convenor	Dr. Suman Madan
Resource Person	Mr. Chandra Shekhar, Alumnus, Batch 2014-17
Venue /Medium	Offline Mode , Room 201
Program	MCA 1 Year both shifts
No. of Students	100
Organiser (Club/ Dept.)	Department of Information Technology

## Objective:

In the present dynamic world, the demand for good coding skills is increasing and with this, the requirement for technical persons for the same arises. To match the basic competition and requirements of the industry the workshop was organized for the students to be placement ready with logic building and problem-solving ability and also help them in placement preparation to be perfect candidate for the company.

The agenda of the training was

1. To bridge the gap between industry and academia.
2. To let students can excel in their placements
3. To broaden the vision via dynamic programming questions.

## Learning Outcomes:

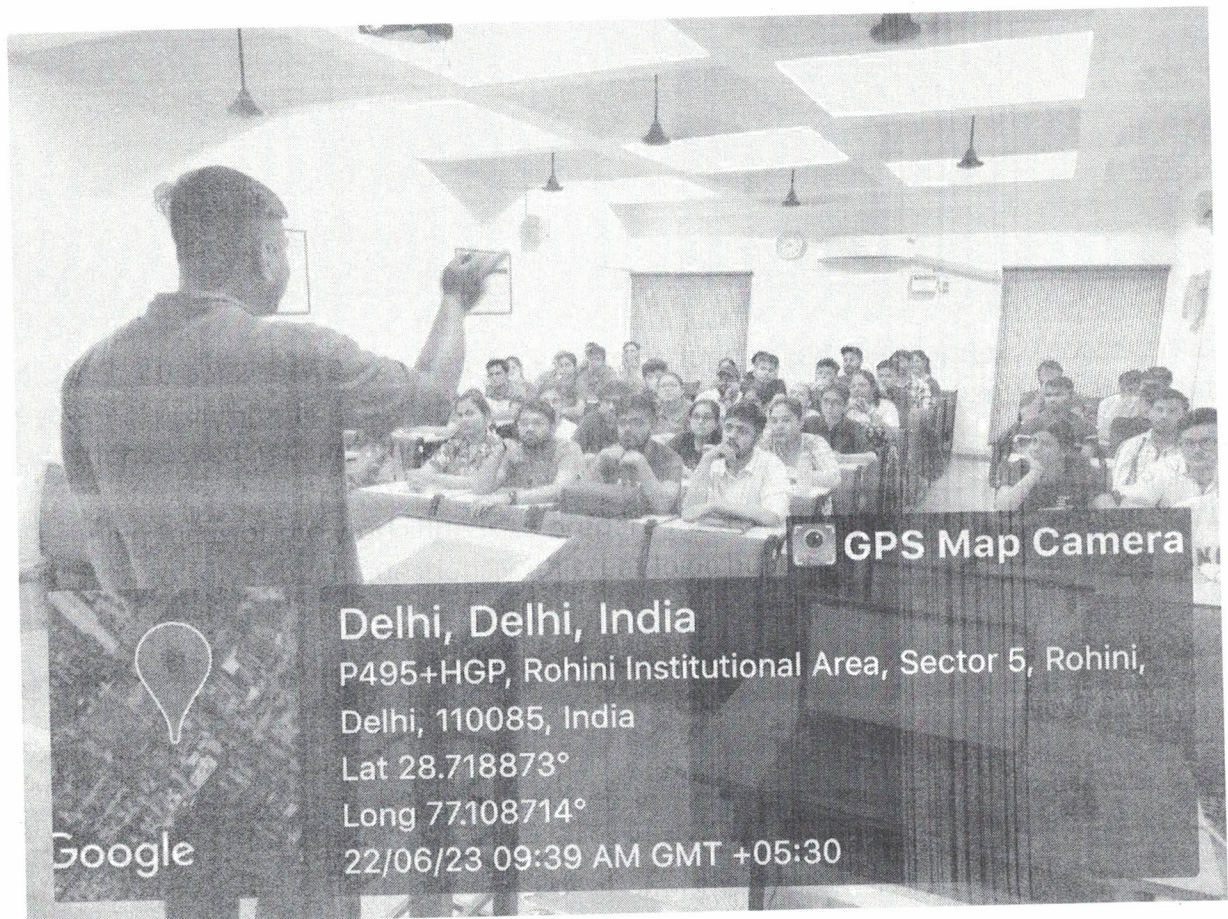
The IT Department, JIMS organized a one week Training on "Data Structures and Algorithms". The key outcome of the workshop was enabling the students to understand and analyse data structures and algorithms along with their implementations. To enhance the skillset of students for Data structures and algorithm and mainly to prepare the students for the upcoming placements. The modules designed were from level 1 to hard so that a student can gain the best knowledge possible. This will further help in optimizing code and improving performance in offline mode for MCA students.

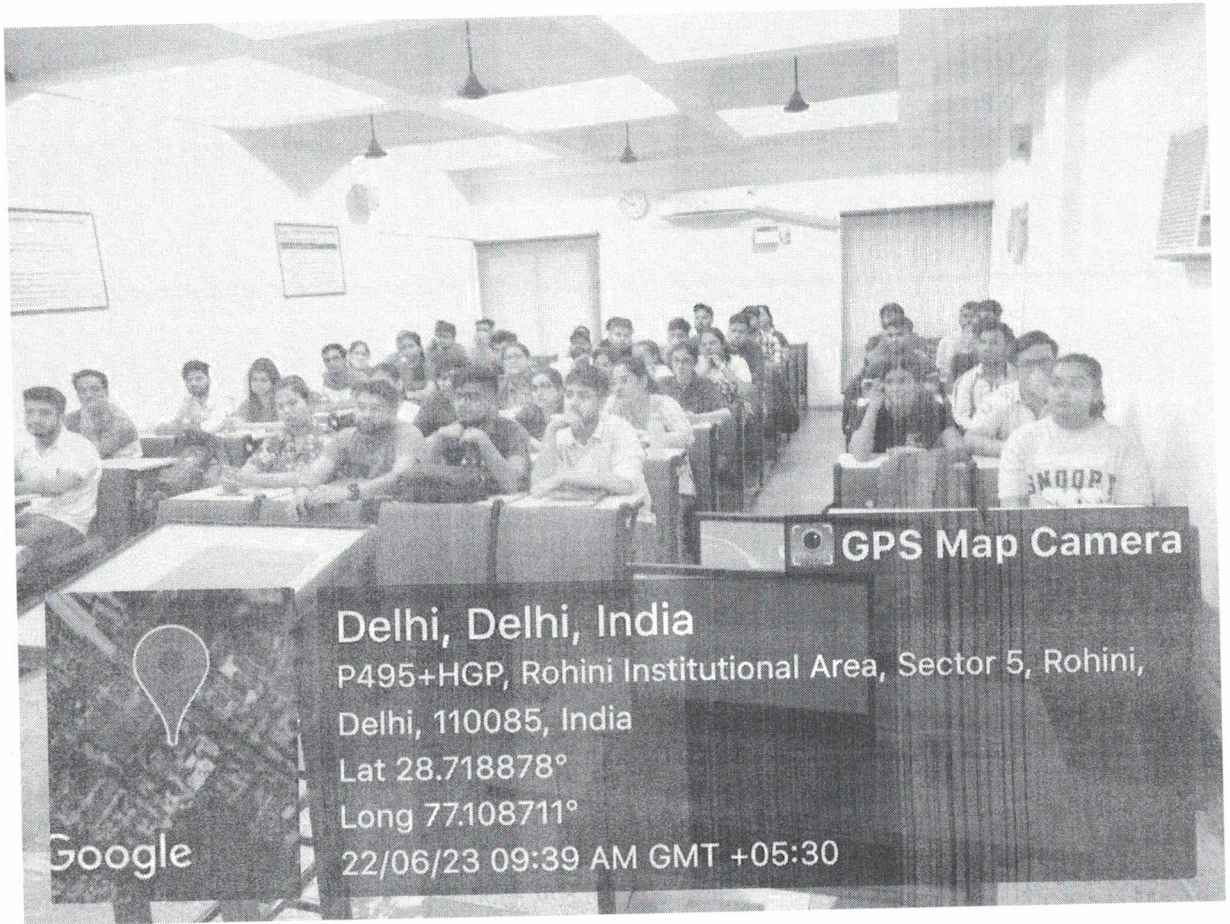
100+ Students attended the sessions that were less theoretical and more inclined toward practical which resulted in a better and fast understanding of the concepts. Every student had a hands-on as everyone coded on their own, from basic logic building to a full fledge program .Concepts being taught broadly include Dynamic programming, different kinds of sorting such as bucket sort, merge sort, selection sort, arrays and strings we also brain stromed for different techniques for coding questions such as the problems on Boat and sailor, king and thief, island problem ,binary matrix and many more such problem questions also discussed time complexity



as well. The workshop covered several questions asked in interview too covering dynamic programming and how to approach them. We also covered frequent questions asked in companies like Nagarro, IVP, Apple and many more.

The main focus of the workshop is to prepare for the interviews with the coding skills and how to solve tough questions with great logic building.





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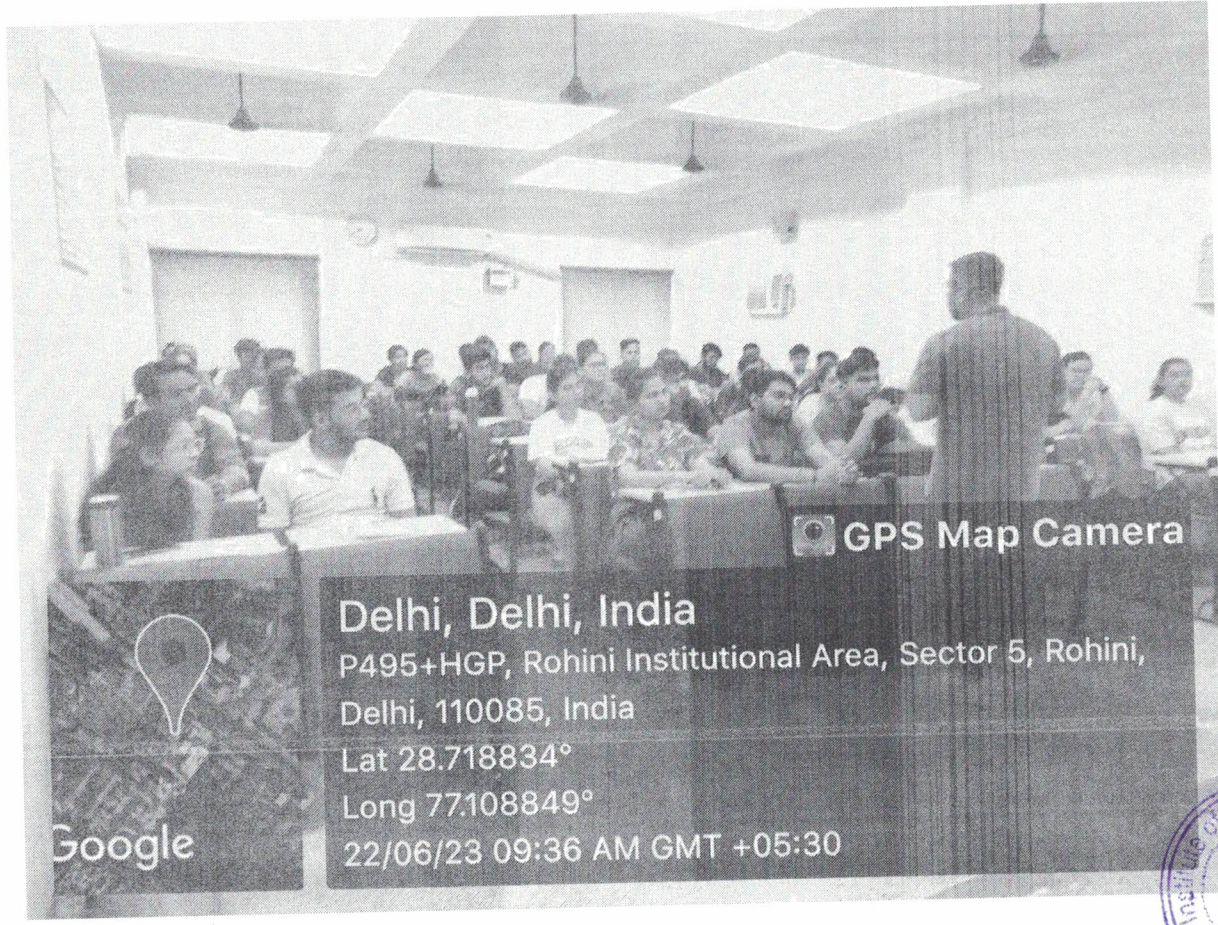
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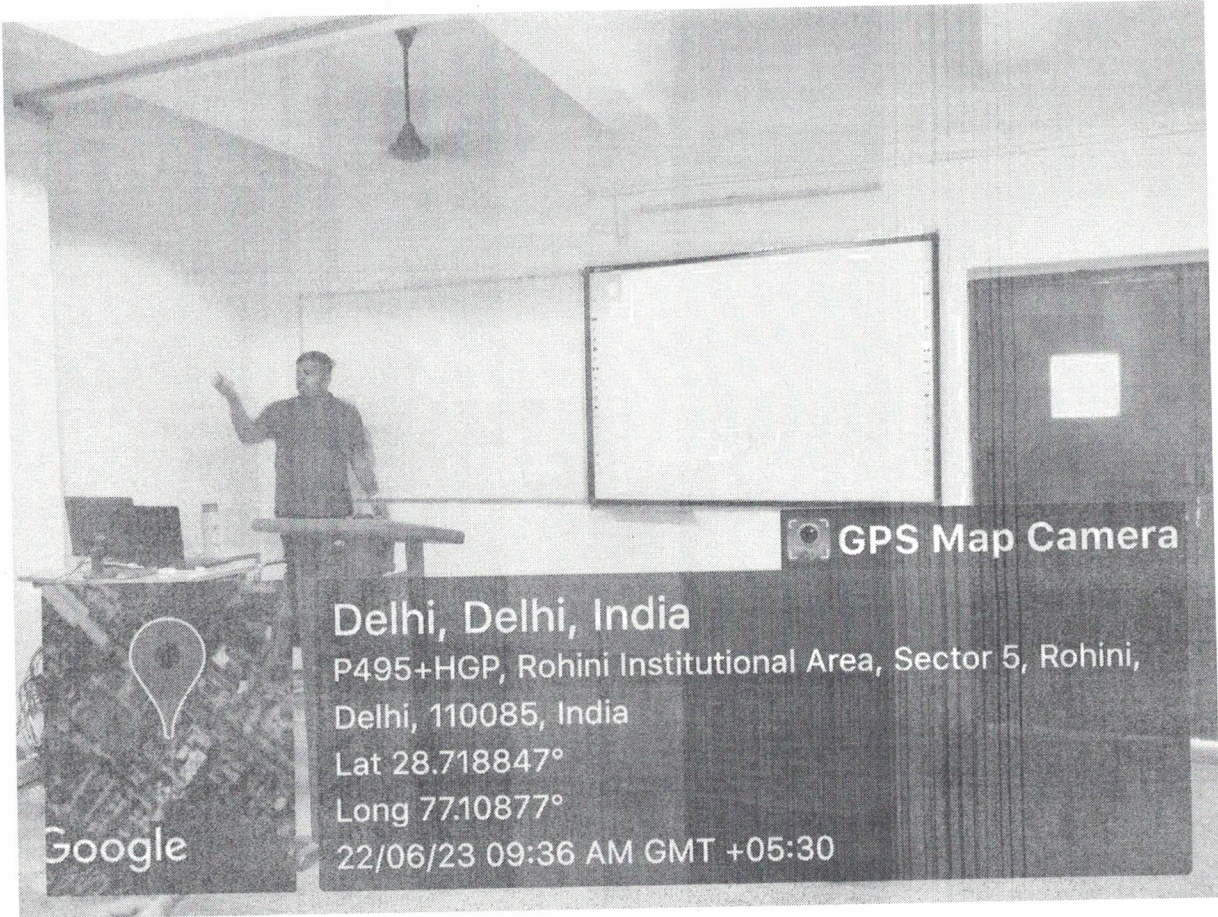
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# JAGAN INSTITUTE OF MANAGEMENT STUDIES



NAAC Accredited 'A' Grade & NBA Accredited MCA Program Institute

Approved by AICTE, Ministry of HRD Govt. of India, Affiliated to GGSIPU

Event Title:	C Programming Training
Date; Time	12 June - 14 June 2023
Convenor	Dr. Suman Madan
Resource Person	Ms. Sweta Goel
Venue /Medium	A202
Program	MCA 1st Shift
No. of Students	100
Organiser (Club/ Dept.)	Department of Information Technology

## Objective of the event:

C programming language is the most important and basic programming language. All the other languages can be learnt quickly if one has a good command on C language. It is the building block for all the other languages and many companies still work in C. The objective of the training was

1. To bridge the gap between industry and academia
2. Understand the need for the C language in the industry.
3. To let students excel in their placements as C is the most asked language in interviews.
4. It will also help the students to learn Data Structures fast and easily

## Learning Outcomes:

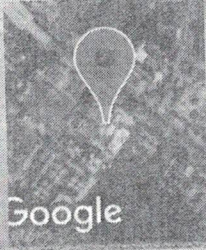
The IT Department, JIMS organized C programming offline mode training for MCA students. To make the students interview and placement ready. The modules designed were from basic to best so that a student can make logics and write codes fast.

60 Students attended the session, sessions were less theoretical and more inclined toward practical which resulted in a better and fast understanding of the concepts. The sessions was started from the very basic of C language like it's features, advantages, etc. The mentor gave programs to write and was paying attention on each and every student. The mentor encouraged students to answer in class, gave programs through which the students logic building was getting better, explained the topic again if even one student had a doubt and most importantly, gave tips on how to answer in an interview.





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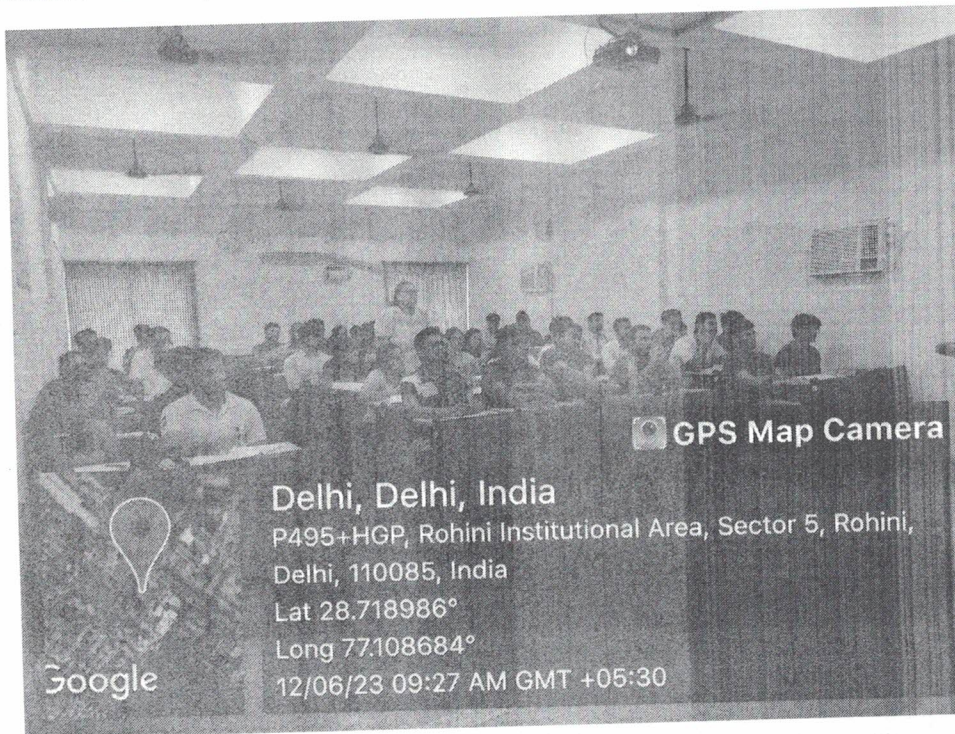
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# JAGAN INSTITUTE OF MANAGEMENT STUDIES



NAAC Accredited 'A' Grade & NBA Accredited MCA Program Institute

Approved by AICTE, Ministry of HRD Govt. of India, Affiliated to GGSIPU

Event Title:	AWS Training
Date; Time	17 March, 2023 7pm to 9pm
Convenor	Dr. Suman Madan
Resource Person	Mr. Chandra Shekhar
Venue /Medium	Blended Mode, B302
Program	MCA 1 Year both shifts
No. of Students	100
Organiser (Club/ Dept.)	Department of Information Technology

## Objective:

In the present dynamic world, the demand for cloud is increasing and with this, the requirement for technical persons for the same arises. To match the basic competition and requirements of the industry Amazon Web Services Training in Blended mode was organized for the betterment of the students. The objective of the training was

1. To bridge the gap between industry and academia.
2. Understand the need for the cloud in the industry and how one can develop a career in DevOps.
3. To let students can excel in their placements as AWS would going to be the required skill in just a few years.
4. To broaden the vision of the students and explain what is the flow of work in the industry.

## Learning Outcomes:

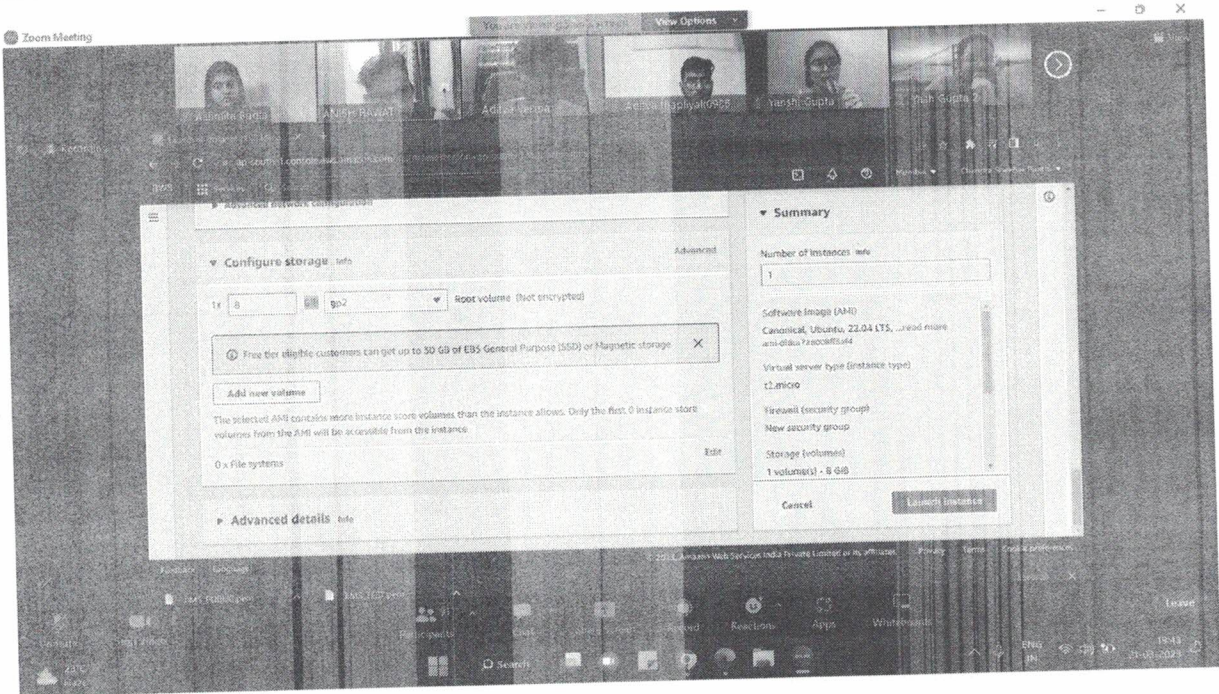
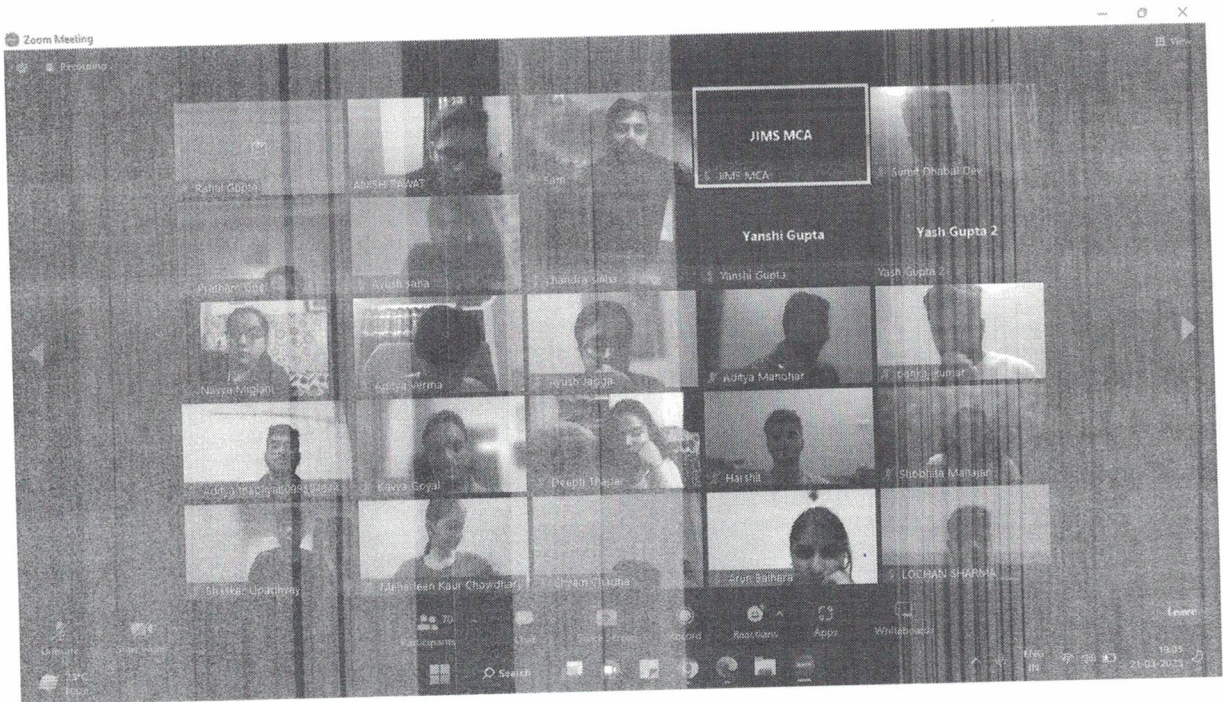
The IT Department, JIMS organized Amazon web services Blended mode training for MCA students. To broaden the vision of students about Devops and careers in it. The modules designed were from basic to best so that a student can have a wide vision of AWS.

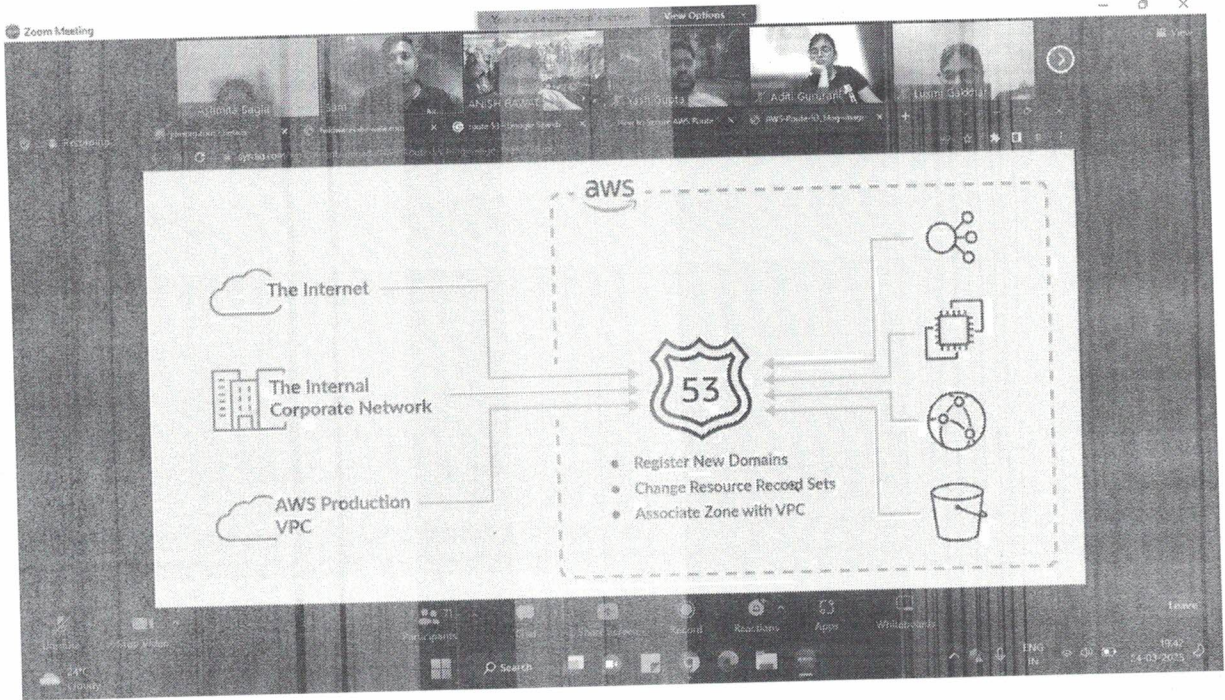
100 Students attended the sessions, sessions were less theoretical and more inclined toward practical which resulted in a better and fast understanding of the concepts. Every student had a hands-on as everyone created their root user account as instructed. Services being taught broadly include VPC, EC2, S3, Route 53, Cloudwatch, Cloudformation, Terraform, Load Balancer, and Session Manager.

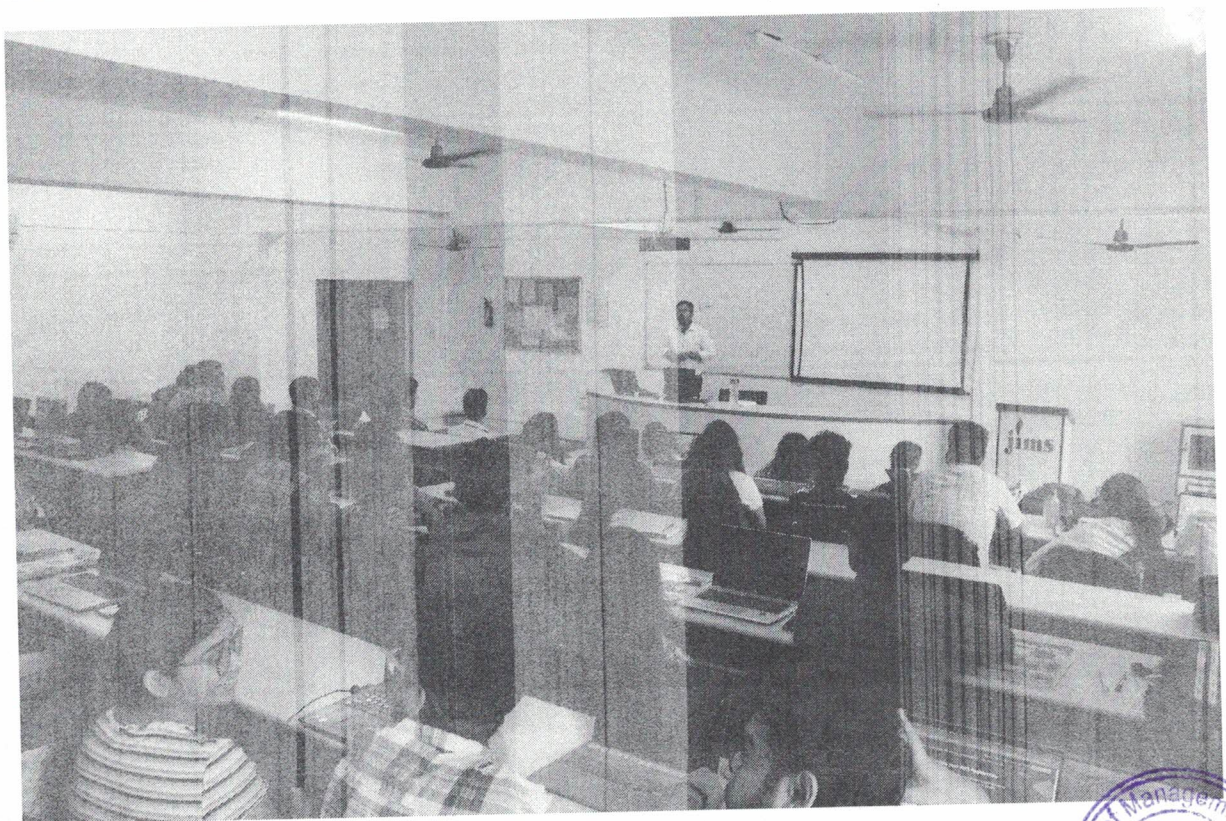
The main focus of the workshop is to let students develop a career in DevOps and had a basic knowledge of AWS along with practical knowledge of it.

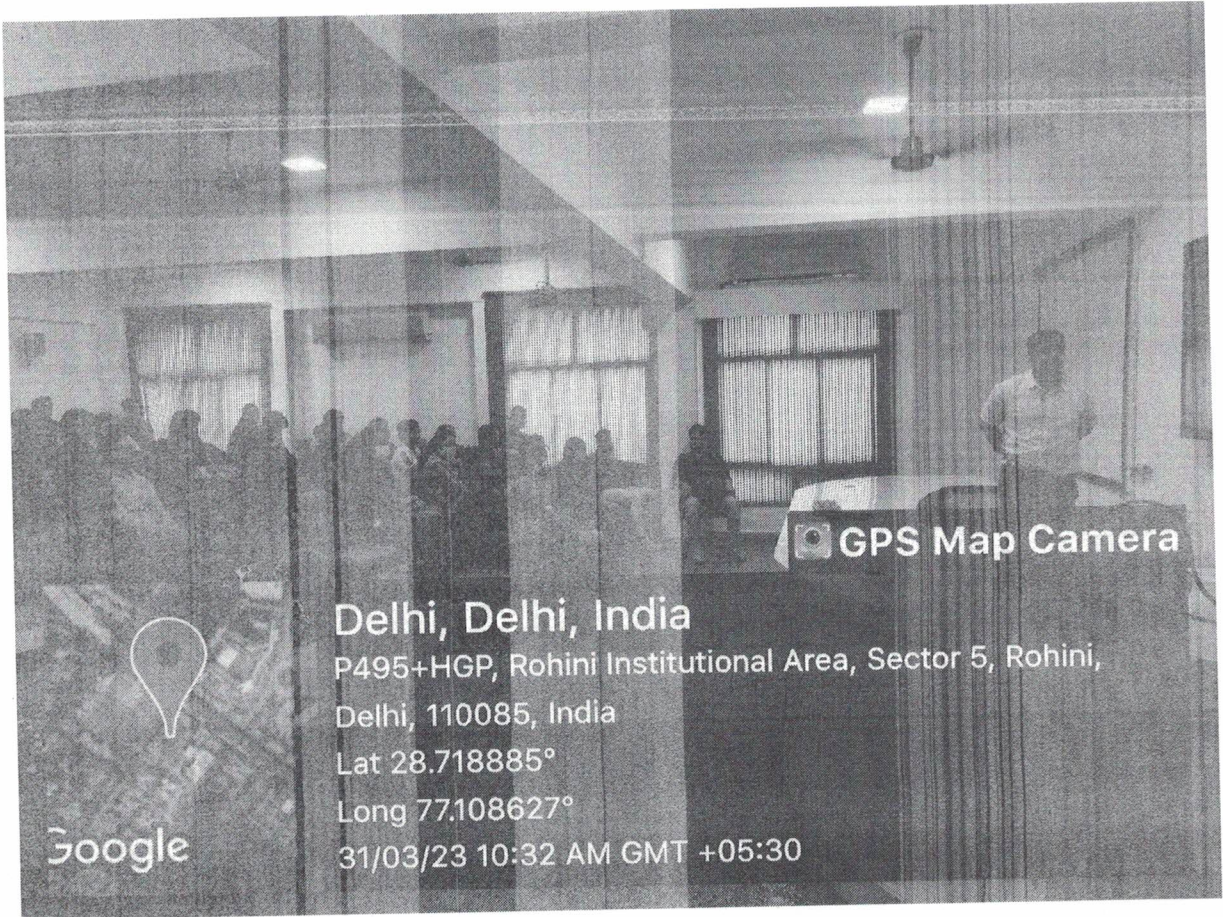












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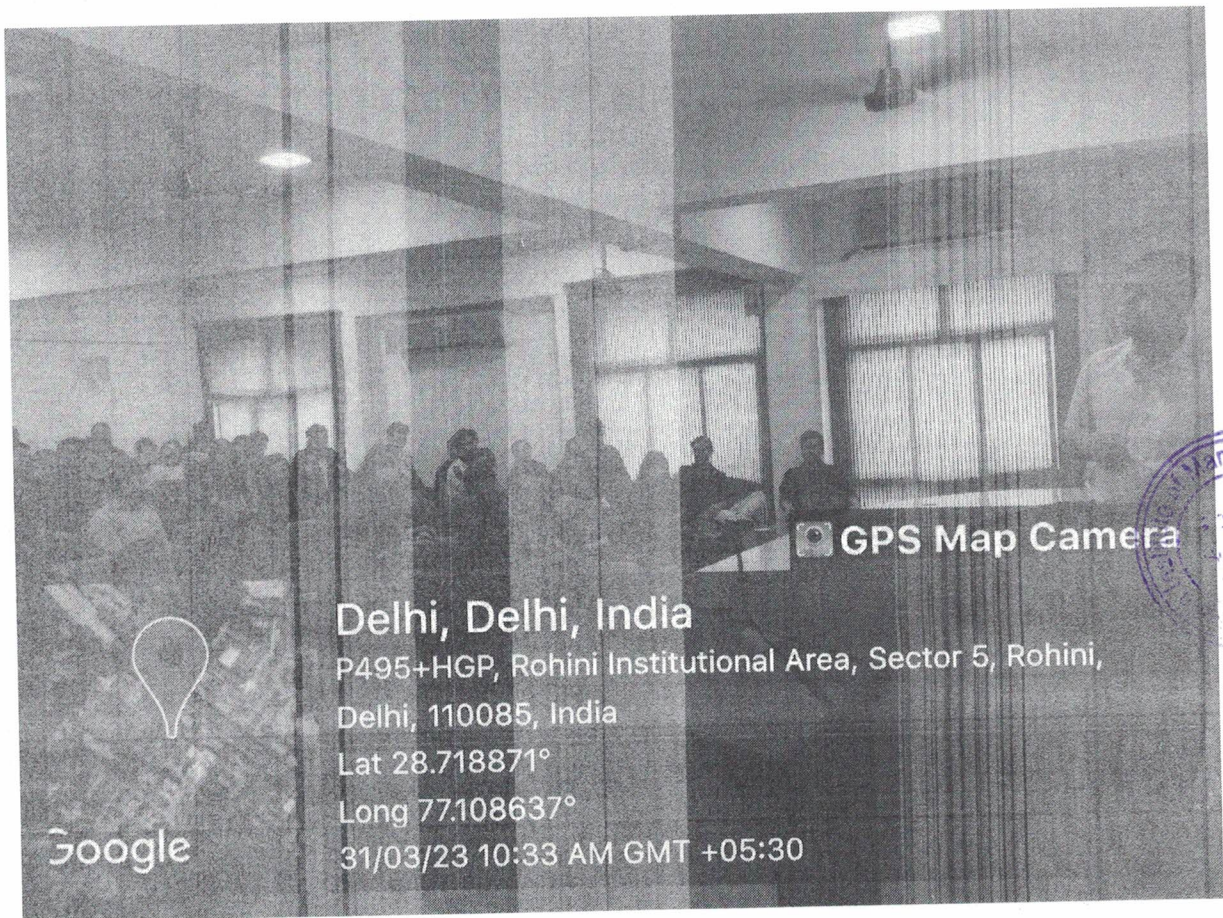
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# Jagan Institute of Management Studies

3, Institutional Area, Sector-5, Rohini, Delhi-110085

## Summer Training – 2022

Department of Information Technology at JIMS every year organizes Summer Training for students to get them acquainted with cutting edge technology and prepare them for upcoming placement process. After consulting industry experts, alumni and taking opinion from students, it was decided to conduct training on MERN Stack and Android App development. These trainings were of 100hrs and 80 hrs respectively and were conducted in offline mode for BCA 2<sup>nd</sup> year students.

Training duration:

**Android app development** : 4 weeks (Monday to Friday)

**MERN Stack** : 5 weeks (Monday to Friday)

Venue : Android LAB- A102, MERN LAB -B201

Schedule:

: 1<sup>st</sup> session: 9 am to 11 am

: Break time: 11 am to 11.30 am

: 2<sup>nd</sup> Session: 11.30 am to 1.30 pm

Batch	No of students	Technology	Mode	Trainer	Training Company
BCA 20-23	58	Android	Offline	Mr SM Tripathi	Ainwick Infotech
BCA 20-23	63	MERN Stack	Offline	Mr N K Jha	Tech Explica

After completion of Training a detailed evaluation of project developed was conducted and only 6 teams were shortlisted out of which 3 were declared the best project teams.

Summer Training 2022 BCA : Finalist					
S.No	Enrollment No	Name	Project Title	Technology	Final round winners
1	1750402020	Disha Chopra	GameIn	MERN	Second Position
	2550402020	Khushi Somani	GameIn	MERN	
	2750402020	Muskan Juneja	GameIn	MERN	
	3750402020	Ronak sharma	GameIn	MERN	
2	3114002020	Parul Mehra	Kapoor Di Hatti	MERN	
	4714002020	Vansh Kapoor	Kapoor Di Hatti	MERN	
	5014002020	Vishesh Bareja	Kapoor Di Hatti	MERN	
	35514002020	Vansh Dahiya	Kapoor Di Hatti	MERN	
	3214002020	Priyal Natani	Kapoor Di Hatti	MERN	
3	35250402020	Archit gupta	TaxYog	MERN	
	114002020	Aditya Khajuria	TaxYog	MERN	



# Jagan Institute of Management Studies

3, Institutional Area, Sector-5, Rohini, Delhi-110085

	2214002020	Manisha	TaxYog	MERN	
	3014002020	Palak Wadwa	TaxYog	MERN	
	4614002020	Vansh Bhatia	TaxYog	MERN	
4	314002020	Aishwary Kumar Rai	Pre-Import & Export Inspection Services	Android	First Position
	1214002020	Divyansh Gemini	Pre-Import & Export Inspection Services	Android	
	2814002020	Nishant Chaturvedi	Pre-Import & Export Inspection Services	Android	
	5314002020	Yash Verma	Pre-Import & Export Inspection Services	Android	Third Position
5	3714002020	Shivani Arora	Nirbhaya Women Safety App	Android	Third Position
	4150402020	Sanskar Pandit	Nirbhaya Women Safety App	Android	
6	414002020	Anjali Sharma	The Social Canteen App	Android	
	1114002020	Dhruv Bhatia	The Social Canteen App	Android	
	2714002020	Nimit Chauhan	The Social Canteen App	Android	
	4514002020	Vaishnavi Gautam	The Social Canteen App	Android	



# Jagan Institute of Management Studies

3, Institutional Area, Sector-5, Rohini, Delhi-110085

## Participant list with Projects

### Summer Training 2022 BCA Android Group

s.no	enrolment number	Name	Project Title
1	00314002020	Aishwary Kumar Rai	Pre-Import & Export Inspection Services
2	01214002020	Divyansh Gemini	Pre-Import & Export Inspection Services
3	02814002020	Nishant Chaturvedi	Pre-Import & Export Inspection Services
4	05314002020	Yash Verma	Pre-Import & Export Inspection Services
5	03714002020	Shivani Arora	Nirbhaya Women Safety App
6	04150402020	Sanskar Pandit	Nirbhaya Women Safety App
7	00414002020	Anjali Sharma	The Social Canteen App
8	01114002020	Dhruv Bhatia	The Social Canteen App
9	02714002020	Nimit Chauhan	The Social Canteen App
10	04514002020	Vaishnavi Gautam	The Social Canteen App
11	00814002020	Chhavi Chaturvedi	Creative Cart App
12	04814002020	Vansh Sharma	Creative Cart App
13	05214002020	Yash Murari Sah	Creative Cart App
14	01350402020	Avnee sharma	Creative Cart App
15	35550402020	Jasleen Kaur	Creative Cart App
16	00350402020	Akshar Bisht	Delhi Garden Food Ordering App
17	01850402020	Gaurav Mittal	Delhi Garden Food Ordering App
18	02350402020	Kartik Bhatt	Delhi Garden Food Ordering App
19	35525502020	Subhadip Jana	Delhi Garden Food Ordering App
20	00214002020	Aditya Prasad Sharma	Food Waste Management System
21	00714002020	Avinash Kumar	Food Waste Management System
22	01514002020	Gopal Khurana -	Food Waste Management System
23	00650402020	Akshay Malik	Samaritans
24	35450402020	Ishika Gupta	Samaritans
25	35650402020	Shreya Pandita	Samaritans
26	35325502020	Jahnvi Sareen	Samaritans



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27	00250402020	Akash Das	Food Wrap App
28	04950402020	Vineet Ajmani	Food Wrap App
29	35425502020	Shudhanshu Jha	Food Wrap App
30	35350402020	Disha Malik	I-Attend App
31	925502020	Jiya Bhola	I-Attend App
32	1125502020	Krishika Wason	I-Attend App
33	01914002020	Hardik Mudgil	Squats N Lifts- The Gym App
34	02314002020	Mansi Sharma	Squats N Lifts- The Gym App
35	35614002020	Rythem Chitkara	Squats N Lifts- The Gym App
36	03150402020	Piyush Sharma	Squats N Lifts- The Gym App
37	01414002020	Gaurav Nailwal	Nailwal Tours and Travels
38	02014002020	Heera Lal	Nailwal Tours and Travels
39	03414002020	Rahul Pal	Nailwal Tours and Travels
40	05414002020	Yatin Kumar	Nailwal Tours and Travels
41	00450402020	Akshat Jain	HacXBear
42	00550402020	Akshat Malhotra	OnePass App
43	01550402020	Cheril Rohiwal	OnePass App
44	03050402020	Nischay Grover	OnePass App
45	05050402020	Vipul bhardwaj	OnePass App
46	05250402020	Yash Rajput	OnePass App
47	01614002020	Govind Kumar	Library Management System
48	01714002020	Gyandeep Tomer	Library Management System
49	03514002020	Rakshit Rajput	Library Management System
50	02050402020	Karan bhardwaj	Jaipur Cloth House
51	02150402020	Karan Mehta	Jaipur Cloth House
52	04850402020	Varun Nagar	Jaipur Cloth House
53	05450402020	Yashita Moorpana	Jaipur Cloth House
54	04050402020	Sampada Verma	Sentiment Analysis

### Students Without Projects

1	04250402020	Satya prakash	
2	04450402020	Srijan singh	
3	03950402020	Sameer	
4	02950402020	Nikhil arora	





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Summer Training 2022 BCA MERN Group			
s.no	enrolment number	Name	Project Title
1	01750402020	Disha Chopra	GameIn
2	02550402020	Khushi Somani	GameIn
3	02750402020	Muskan Juneja	GameIn
4	03750402020	Ronak sharma	GameIn
5	03114002020	Parul Mehra	Kapoor Di Hatti
6	04714002020	Vansh Kapoor	Kapoor Di Hatti
7	05014002020	Vishesh Bareja	Kapoor Di Hatti
8	35514002020	Vansh Dahiya	Kapoor Di Hatti
9	03214002020	Priyal Natani	Kapoor Di Hatti
10	35250402020	Archit gupta	TaxYog
11	00114002020	Aditya Khajuria	TaxYog
12	02214002020	Manisha	TaxYog
13	03014002020	Palak Wadwa	TaxYog
14	04614002020	Vansh Bhatia	TaxYog
15	01314002020	Garima Mehta	Complaint Handler
16	02614002020	Naman	Complaint Handler
17	04114002020	Srishti Jain	Complaint Handler
18	35114002020	Dron Sharma	Complaint Handler
19	35314002020	Ishaan Jain	Complaint Handler
20	01050402020	Ankit Bhardwaj	Hanuman Lubricants
21	01150402020	Ankit Kumar Singh	Hanuman Lubricants
22	01650402020	Chiraksh Jain	Hanuman Lubricants
23	02450402020	Kavita Saraswat	Hanuman Lubricants
24	04650402020	Vansh Ahuja	Hanuman Lubricants
25	02914002020	Om Gusain	Jain Tools
26	03814002020	Shobha Jain	Jain Tools
27	04014002020	Sparsh Gupta	Jain Tools
28	04914002020	Vijay Singh Pilkhwai	Jain Tools
29	1925502020	Vipul Jain	Jain Tools
30		Manav Kharbanda	Code Collab
31	01814002020	Hanshika	Nand & New Bharat Bakery
32	03614002020	Sahil Shukla	Nand & New Bharat Bakery
33	03914002020	Shubham Nijarre	Nand & New Bharat Bakery
34	35414002020	Ishika Patwari	Nand & New Bharat Bakery



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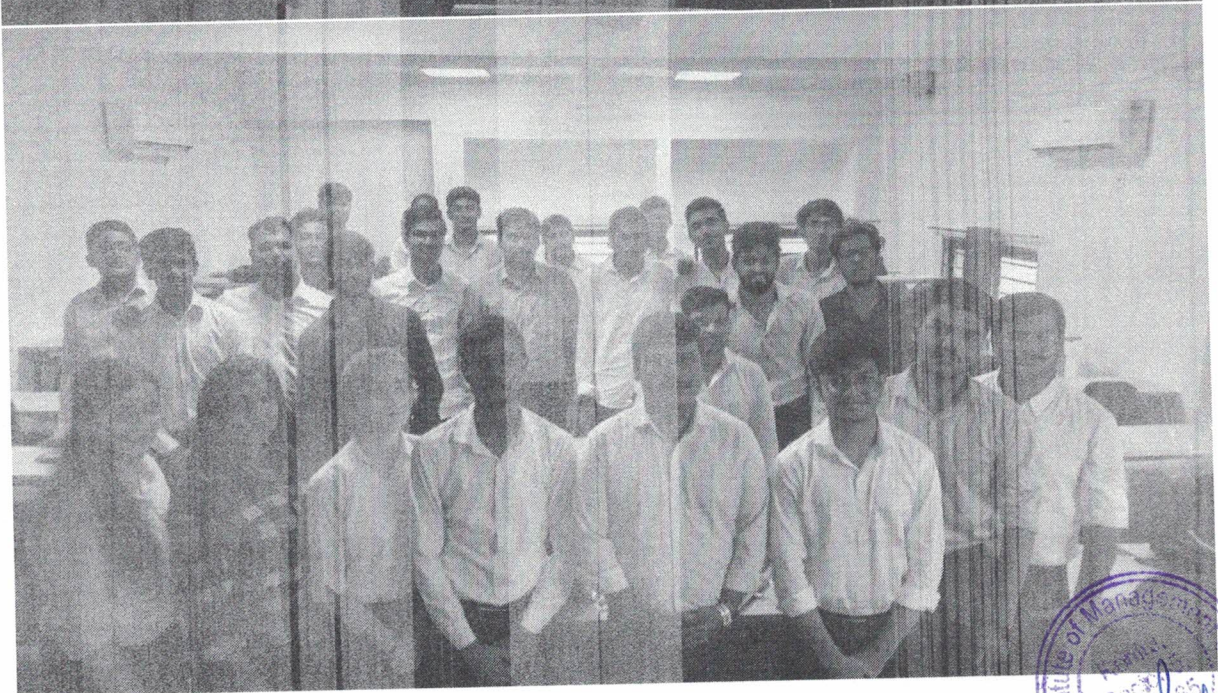
35	03550402020	Priyanka Verma	BR Electricals
36	50225502020	Avneet	BR Electricals
37	02414002020	Mayank Verma	BR Electricals
38	04214002020	Surbhi Behl	BR Electricals
39	35214002020	Isha Verma	BR Electricals
40	01250402020	Anmol Patial	LookXplorer
41	05350402020	Yash Verma	LookXplorer
42	425502020	Bhumik Virmani	LookXplorer
43	01950402020	Gaurav Sharma	Online Jeweler
44	02250402020	Kartik	Online Jeweler
45	02650402020	Mukul	Online Jeweler
46	03250402020	Prabhsimran Kaur	Online Jeweler
47	35150402020	Akansha Bhalla	Online Jeweler
48	00850402020	Anchal Jha	Solar Solutions
49	01450402020	Ayush Harjai	Solar Solutions
50	03350402020	Prachi Sharma	Solar Solutions
51	03650402020	Rohan Ahuja	Solar Solutions
52	03850402020	Saksham Pandey	Solar Solutions
53	00950402020	Aniket Tomar	Inolife Healthcare
54	04550402020	Tushar Khatri	Inolife Healthcare
55	04750402020	Vansh Chauhan	Inolife Healthcare
56	00514002020	Anmol Dutta	SafeGear
57	01014002020	Dhruv Aggarwal	SafeGear
58	04314002020	Tushar Pathak	SafeGear
59	04414002020	Tushar Sharma	SafeGear
60	05150402020	Yash garg	
61	00914002020	Chirag	
62	02114002020	Keshav Aggarwal	
63	03314002020	Raghav Malhotra	



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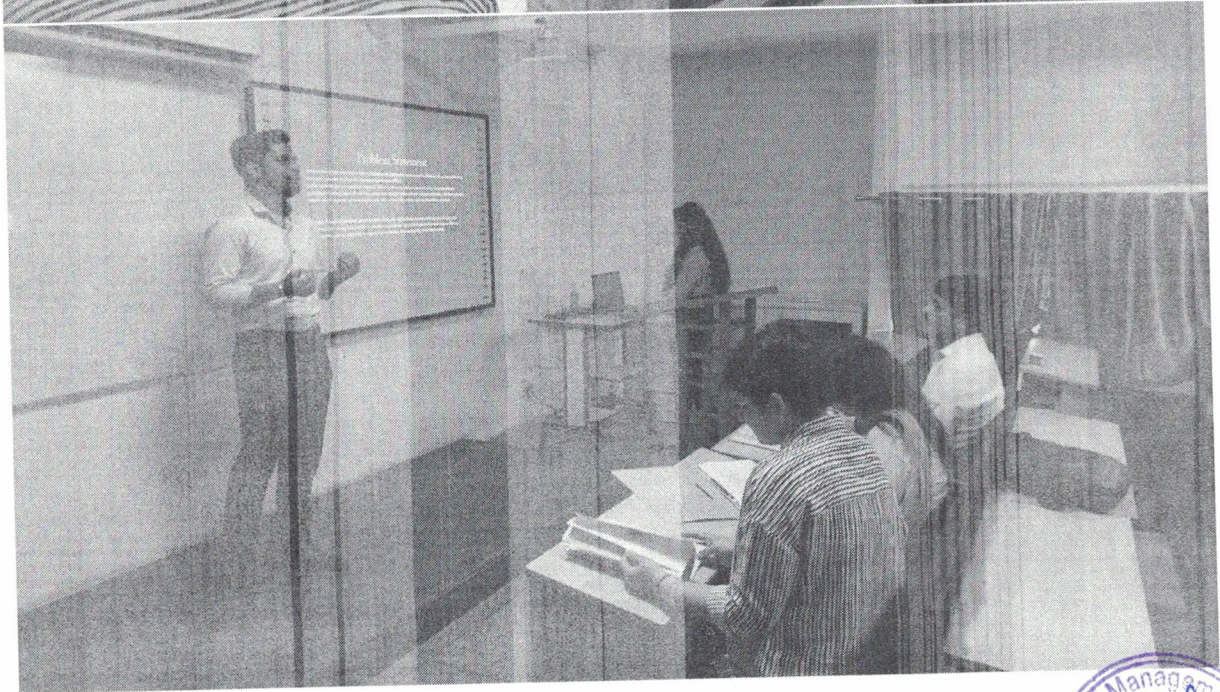
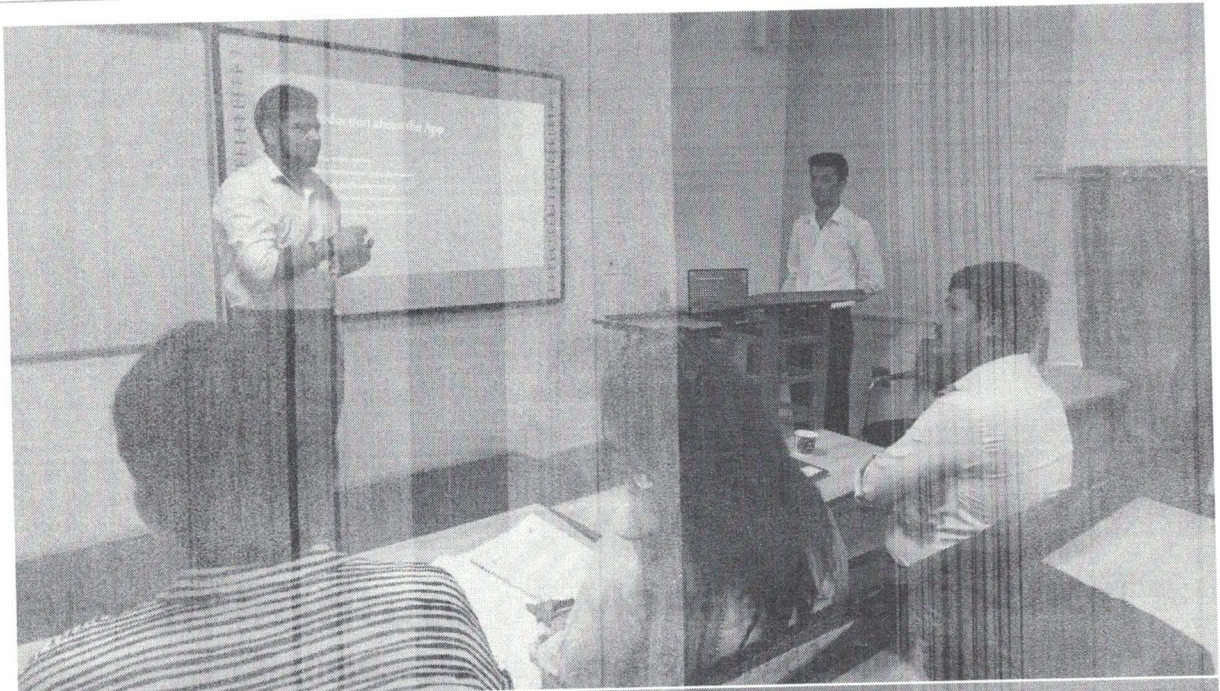
3, Institutional Area, Sector-5, Rohini, Delhi-110085

## Pictures of Summer Training 2023



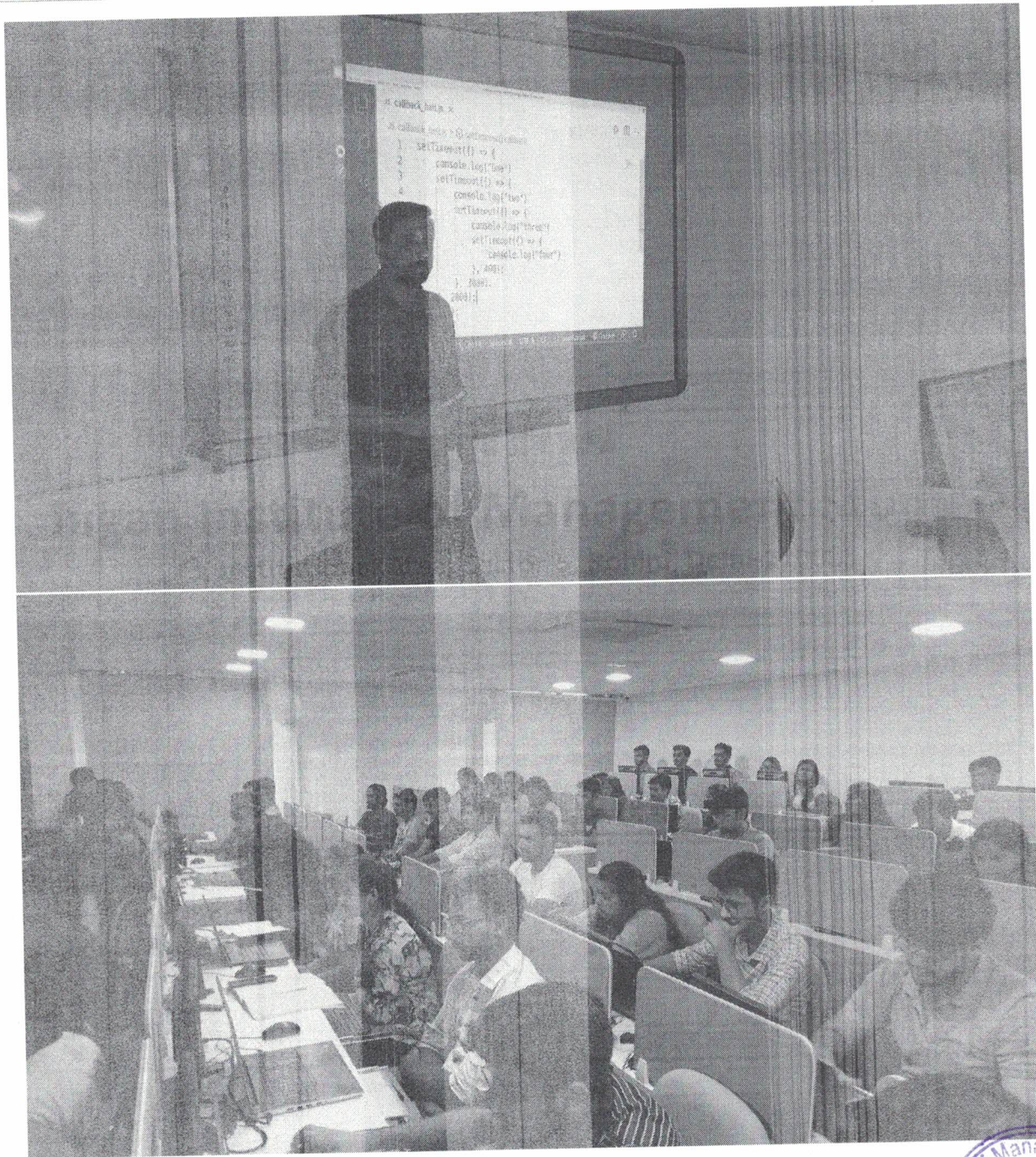
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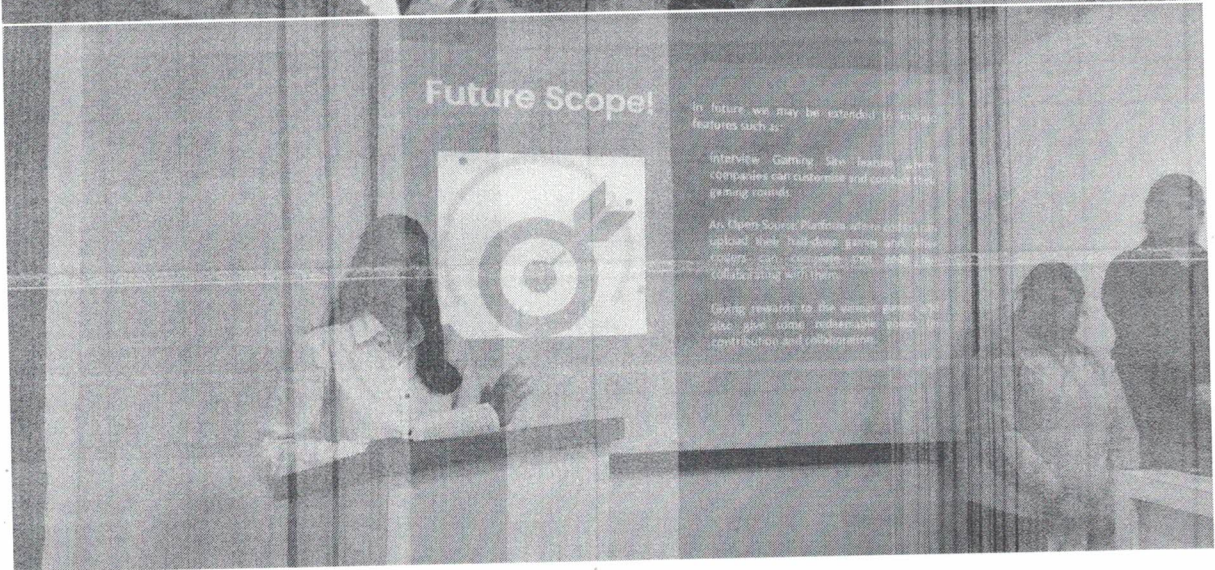
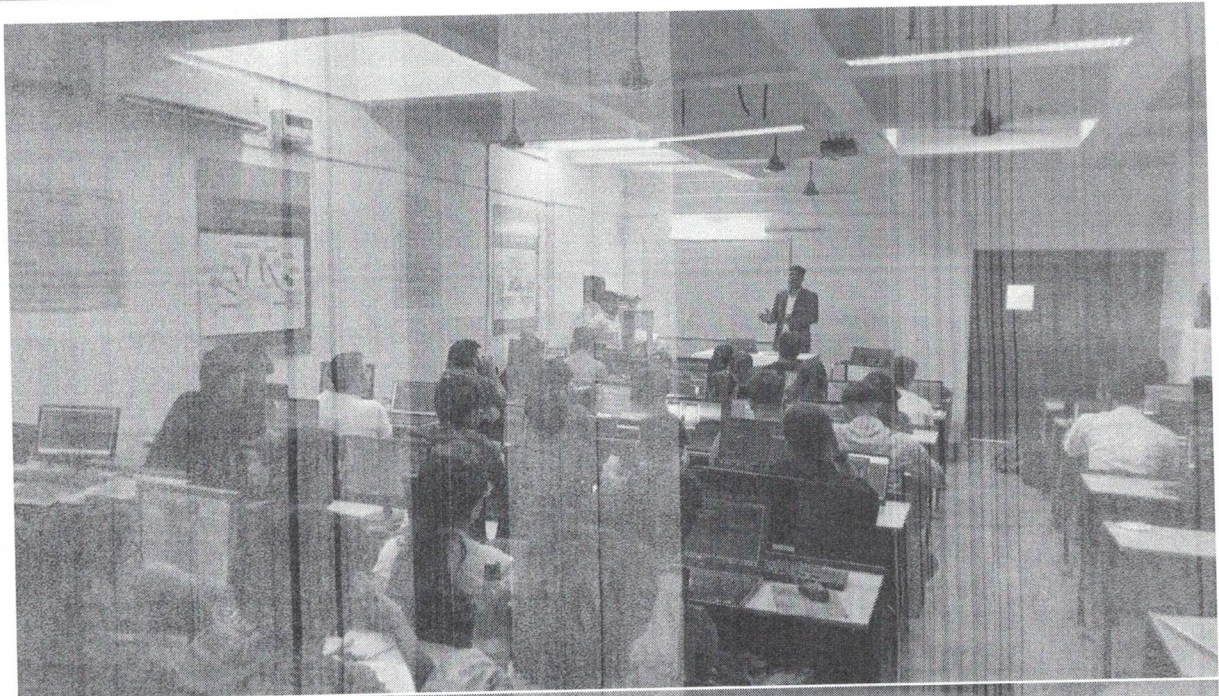
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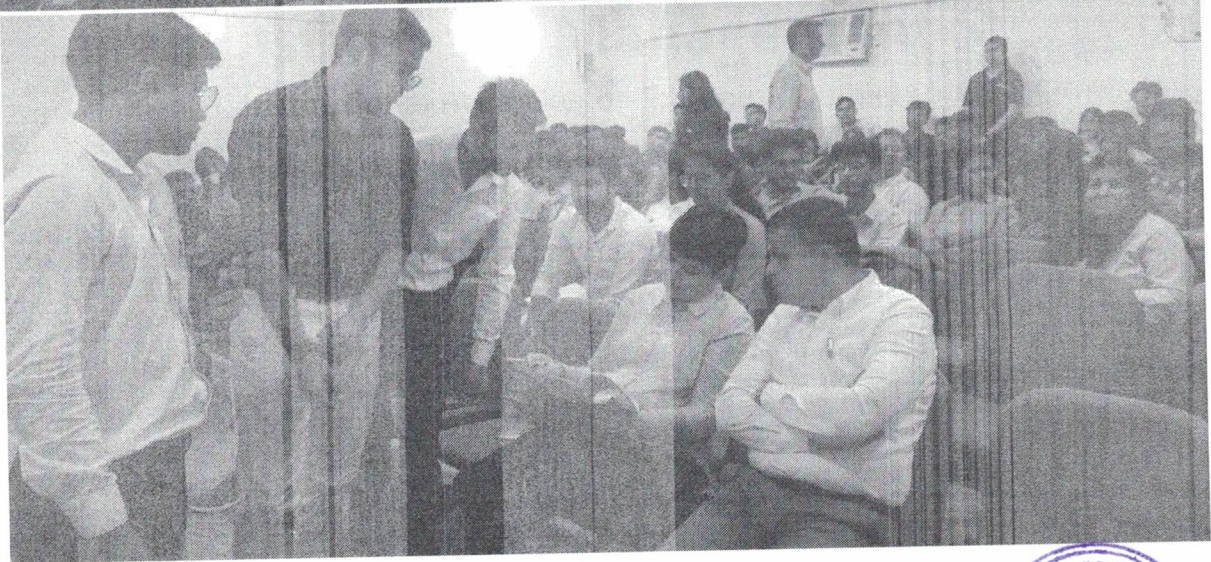
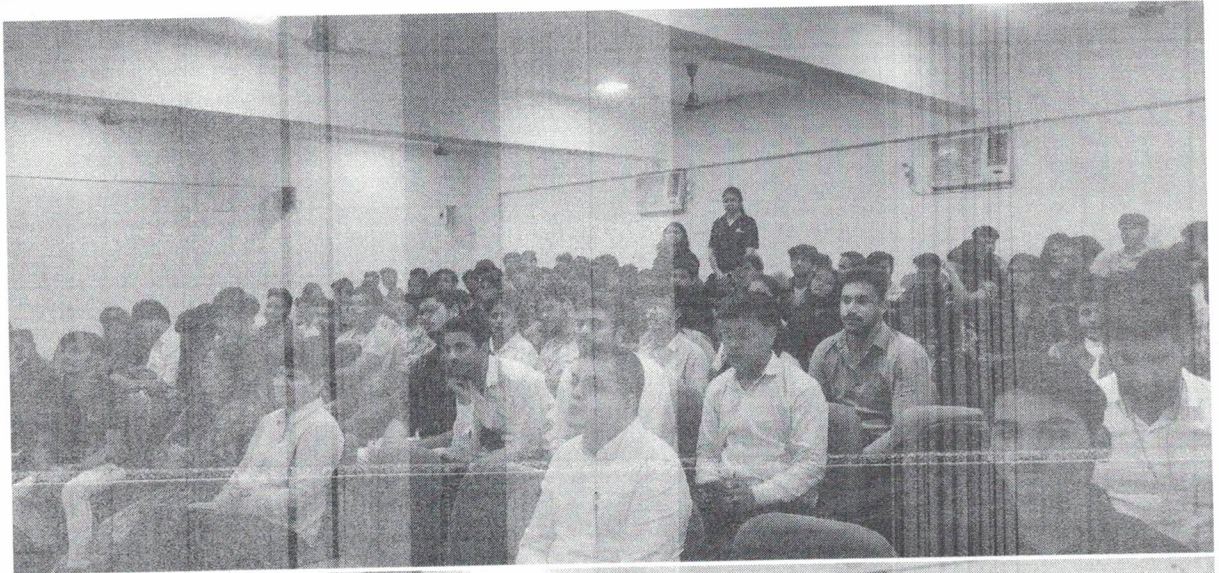
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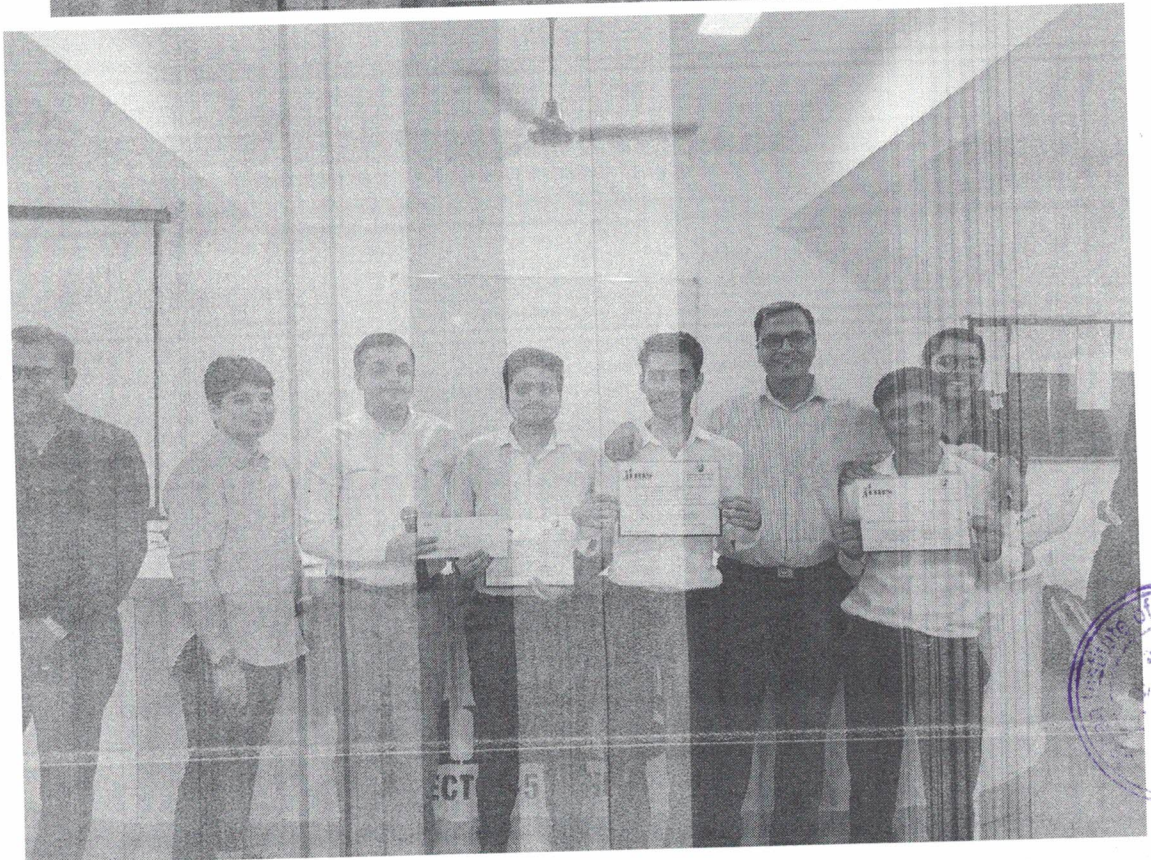
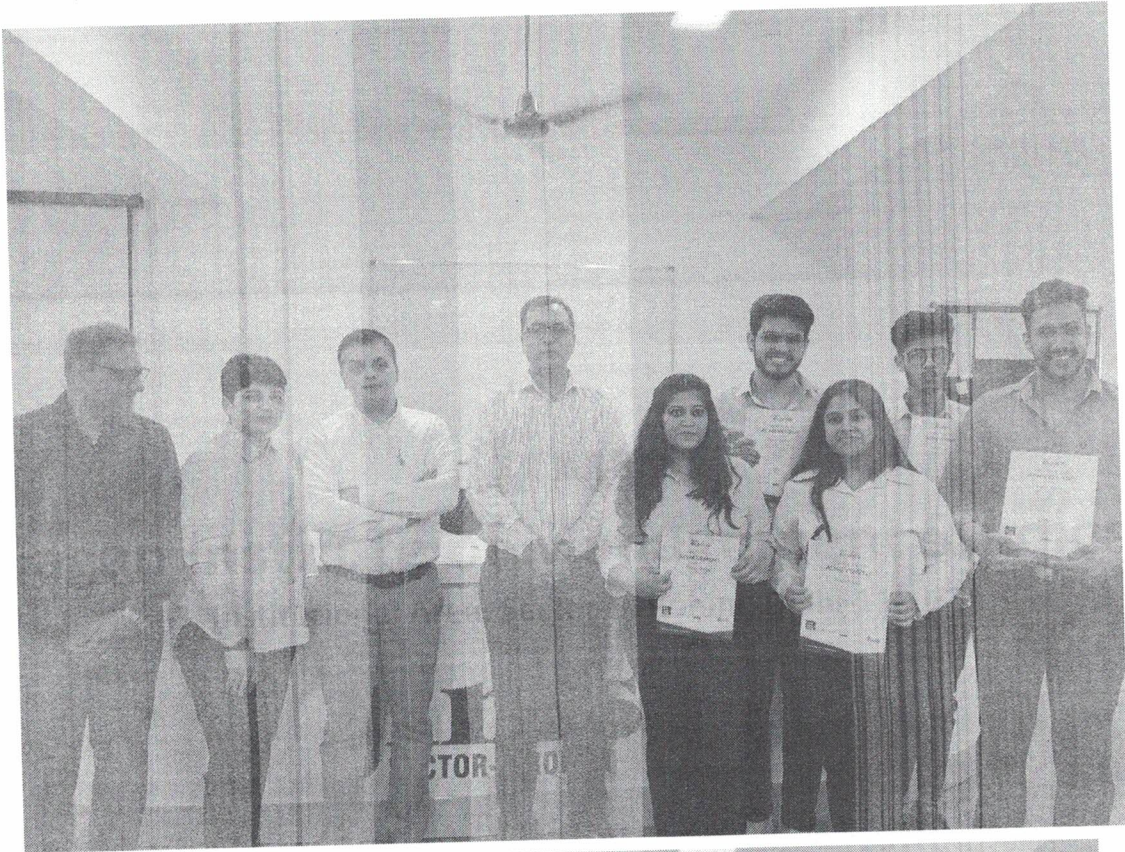
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## Jagan Institute of Management Studies

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### List of workshop conducted by the institute

S.NO	Date	Particulars	Speaker	Organised for
1	28-04-2023	Robotics Workshop	Dr. Suman Madan. Faculty JIMS	BCA 2nd year 2nd Shift
2	01-04-2023	Robotics Workshop	Dr. Suman Madan. Faculty JIMS	BCA 2nd year 1st Shift
3	24-03-2023	e-workshop "Writing and Publishing Cases" in collaboration with Sage Publication	Dr Suddhachit Mitra is a Fellow of the Institute of Rural Management Anand [IRMA Anand].	MCA, BBA,BCA, BA(Hons.)(Eco .)
4	20-02-2023	Workshop on Artificial Intelligence enabled Recruitment	Mr Rupak Agarwal, CEO evuem; An entrepreneur an alumnus of IIM Bangalore	MCA & BCA
5	03-01-2023	Workshop on Hand-on Training workshop on R	Dr.Parminder Bajaj, Professor, JIMS	MCA, BBA,BCA, BA(Hons.)(Eco .)
6	30-11-2022	Workshop on Socio Perception	Dr. Isha Singh, Assistant Professor, JIMSR	MCA, BBA,BCA, BA(Hons.)(Eco .)
7	18-11-2022	Workshop on Basics of SQL	Mr. Sanjeev Saxena, Asst.Professor, JIMS	BA (Hons.) (Econ.)
8	19-10-2022	Workshop on Communication Skills	Ms Shalu Mehra; ELT Consultant, Author & Corporate Coach.	MCA, BBA,BCA, BA(Hons.)(Eco .)



# JAGAN INSTITUTE OF MANAGEMENT STUDIES

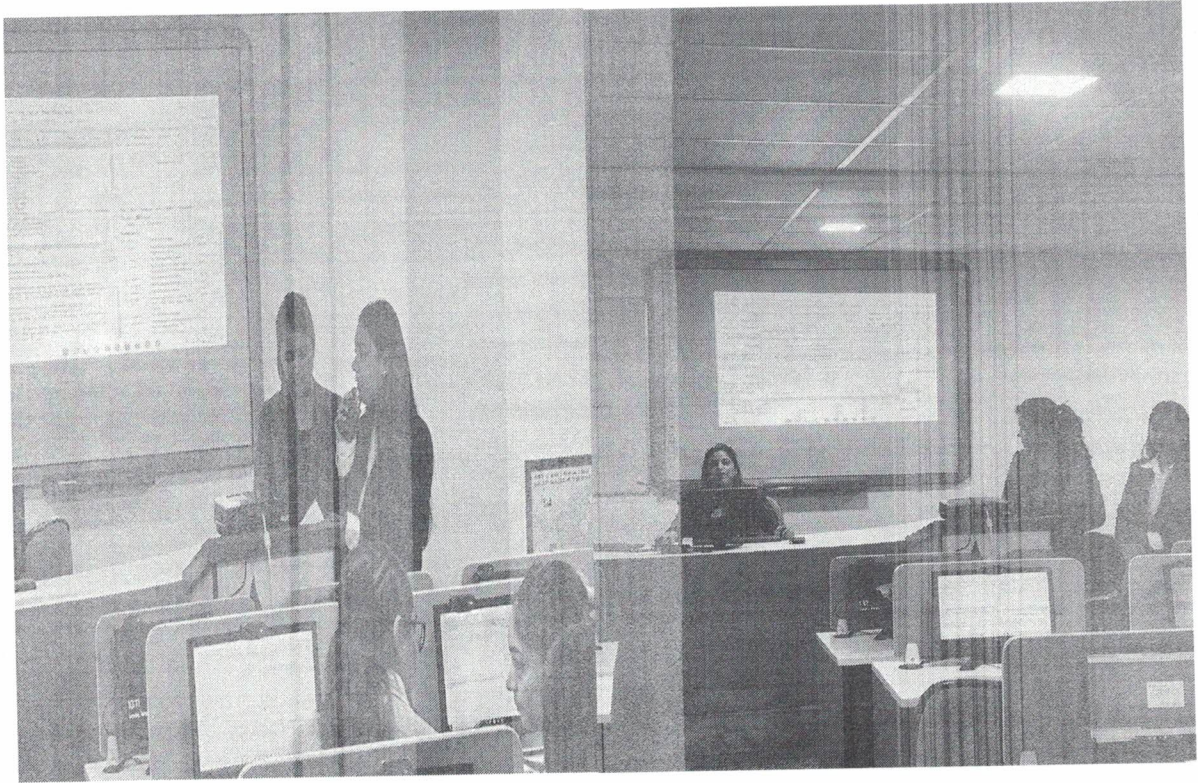


NAAC Accredited 'A' Grade & NBA Accredited MCA Program Institute

Approved by AICTE, Ministry of HRD Govt. of India, Affiliated to GGSIPU

Event Title	WORKSHOP ON R
Topic	R LANGUAGE
Date; Time	3 <sup>rd</sup> January 2023, 10 am TO 01 pm
Coordinator	Ms. Sheetal Gera, Ms. Tanshi Ghai
Venue / Medium	B 201
Program	2 <sup>nd</sup> and 3 <sup>rd</sup> year, BA (HONS.) ECONOMICS
Resource person	Dr Parminder Bajaj
No. of Students	44 participants
Organiser (Club/ Dept.)	Economics Department





## REPORT

### Objective:

1. Getting started with R and R studio
2. To learn basic programming in R
3. Plot charts, line chart, scatter plot, etc.
4. Statistical modelling in R studio using econometrics models
5. To learn how to perform error handling
6. Custom R functions
7. Data Visualisation in R

The Economics Department organised a **Workshop on R** on 3<sup>rd</sup> January 2023 for 2<sup>nd</sup> and 3<sup>rd</sup> year, BA (Hons.) Economics students. The resource person for the day was Prof. Dr. Parminder Bajaj, with an experience of over 20 years under her wings. She specialises in finance, accounting and econometrics.

The session was conducted in two segments. First part of the session helped the students to get acquainted with writing in R language and with the layout and tools of R studio application.

This was followed by a 15 min tea break.

In the second segment of the workshop, the students were enlightened about the application of the tools and packages on economics i.e. practical econometrics. Students were taught how to test the data set for autocorrelation, heteroscedasticity and multicollinearity.

Students were eagerly learning everything step by step and taking their queries alongside. The session indeed turned out to be very productive and recreative given how cheerful the students were about the whole pursuit.

We acknowledge the role of Management of JIMS in supporting us and encouraging us for the skill development of students. We appreciate the efforts of all Faculty and student coordinators for working tirelessly and making it a huge success.

### Learning Outcomes:

- Firstly, it was demonstrated how to install and configure R Studio.
- The students were explained critical R programming concepts.



- Explained the use of data structure and loop functions.
- The students analysed data and generated reports based on the data.
- Applied various concepts to write programs in R.
- Linear Regression model.
- Data visualisation.
- The students also learned how to install various regression packages.



# JAGAN INSTITUTE OF MANAGEMENT STUDIES



NAAC Accredited 'A' Grade & NBA Accredited MCA Program Institute

Approved by AICTE, Ministry of HRD Govt. of India, Affiliated to GGSIPU

Event Title:	BASICS OF SQL
Topic	Training workshop
Date; Time	18 <sup>th</sup> November 2022, 9 am to 1.30 pm
Convenor	Ms. Sheetal Ghera and Ms. Tanshi Ghai
Resource Person	Mr. Sanjive Saxena
Venue / Medium	B 201
Program	For MCA students
No. of Students	32 participants
Organiser (Club/ Dept.)	JIMS

## REPORT

### Objective:

1. To enlighten students about the basic concepts and components of SQL
2. Be able to write SQL statements that edit existing data.
3. Be able to write SQL statements that create database objects.

### Event

JIMS organized a training workshop on The Basics of SQL on 18<sup>th</sup> November 2022. It was a session organised for MCA students to provide them the much-needed technical know-how of this tool used for data analysis. Resource persons for the workshop was Mr. Sanjive Saxena.

Sanjive Saxena, is an Associate Professor. He has 16 years of IT industry experience ranging from Software development, Project Management and Software Quality Assurance Activities. In addition to this he has an academic experience of 14 years. He is actively involved in research and consulting activities and has presented papers in IIM's and IIT's. He has several publications in various reputed International and national journals.

Mr. Rahul Yadav is an alumni student for the academic batch 2018-21 and having deep knowledge on basics of SQL. He provided the latest technology on SQL

The session began with a warm welcome of Mr Sanjive Saxena. Sir started off with some key pointers related to the topic such as-

- SQL is Structured Query Language.



- A database is also known as dataset and is used for sorting of data.
- Economics- Optimum utilisation of scarce resources
- Economic indicators- Micro and Macro
- Economic factors- Inflation, Interest rate, RBI etc.

When we analyse any data set, we need to sort, filter, and organize data. Sir began by comparing Ms Excel with SQL by explaining that former is used for small dataset whereas latter is used for larger dataset. In SQL, he began by teaching about creation of tables on the basis of raw information, entering the data, retrieving it by running commands, updating the data. And at last, dropping the rows/columns or deleting the entire dataset. He also gave us a dataset of a company on which students had to demonstrate their understanding of the topic.

It was a very informative session which prepared the students for upcoming placement season. The session indeed turned out to be very productive and it was a very informative session which prepared the students for upcoming placement season. We acknowledge the role of Management of JIMS in supporting us and encouraging us for the skill development of students. We appreciate the efforts of all Faculty and student coordinators for working tirelessly and making it a huge success.

#### **Learning Outcomes:**

1. Understand the structure and design of relational databases.
2. Understand the importance and major issues of database security and the maintenance of data integrity

