

B.M.S. College of Engineering

Department of Computer Science and Business Systems

Final Report

5-Day Online Industry-Oriented Faculty Development Program (FDP)
“Empowering Educators through Emerging Technologies in the IT Industry”

In Collaboration with **Tata Consultancy Services (TCS)**

Dates: 28th July – 1st August 2025



The Department of Computer Science and Business Systems (CSBS), B.M.S. College of Engineering, in collaboration with Tata Consultancy Services (TCS), successfully conducted a **five-day online Faculty Development Program (FDP)** from **28th July to 1st August 2025** on *“Empowering Educators through Emerging Technologies in the IT Industry.”*

The FDP featured **five expert-led sessions** on Cybersecurity, AR/VR, DevOps, AI, and Next-Gen Virtualization, with **460 registrations and 406 active participants**. The program aimed to bridge the **industry-academia gap**, enhance faculty knowledge, and integrate real-world technological advancements into curriculum design.

Participants provided **highly positive feedback**, praising the relevance and quality of sessions. This FDP has strengthened the collaboration between BMSCE and TCS, paving the way for future joint initiatives that will benefit students and faculty alike.

Introduction

The Department of **Computer Science and Business Systems (CSBS)**, BMS College of Engineering (BMSCE), in collaboration with **Tata Consultancy Services (TCS)**, organized a five-day online Faculty Development Program (FDP) on “**Empowering Educators through Emerging Technologies in the IT Industry**” from 28th July to 1st August 2025. This FDP aimed to equip educators with contemporary skills and insights into fast-evolving technological domains such as **Cybersecurity, AR/VR, DevOps, Artificial Intelligence, and Virtualization**.

Objectives

- Knowledge Upgradation: Provide faculty with exposure to the latest trends and best practices in IT.
- Industry-Academia Bridging: Foster closer collaboration between academia and industry for curriculum enrichment.
- Practical Orientation: Present real-world use cases to help educators relate theory to practical applications.
- Capacity Building: Equip faculty members to guide students toward research, projects, and entrepreneurial ideas in cutting-edge domains.
- Skill Development: Strengthen participants’ ability to teach future-ready courses and encourage problem-solving with an industry-oriented perspective.

Participation and Reach

- The FDP witnessed tremendous interest and participation:
- Total Registrations: 460
- Active Participants: 406
- Attendance: Minimum 60% attendance recorded for eligible participants.
- Audience Profile: Faculty members, researchers, and industry professionals from across India.

Program Schedule and Expert Sessions

Day	Date	Theme	Expert Speaker	Key Insights
1	28 th July, 2025	Cybersecurity: Risk Management & Digital Protection	Mr. Avishek Jana Cyber Risk Consultant, TCS	Risk management frameworks, compliance, governance, incident response.

2	29 th July, 2025	AR/VR/MR in Industrial Metaverse	Mr. Chandrakant Aknurwar AR/VR/MR Business Leader, TCS	Applications in immersive education, digital twins, process optimization.
3	30 th July, 2025	DevOps & Platform Engineering	Mr. N. Harikrishnan DevOps Consultant, TCS	CI/CD pipelines, Kubernetes, cloud-native development, automation.
4	31 st July, 2025	AI, Generative AI & Agentic AI	Mr. Karthikeyan Sabesan IT Business Consultant, TCS	AI/ML use cases, generative AI strategies, future of IT operations.
5	1 st August 2025	Next-Gen Virtualization & Cloud	Mr. Som Nath Mishra Consultant & Lead, Agile Infra CoE, TCS	Hyperconverged infrastructure, containerization, cloud/datacenter trends.

Highlights

- Industry-grade content aligned with global best practices
- Interactive Q&A sessions with domain experts
- Hands-on demonstrations of AR/VR and DevOps pipelines
- Excellent networking opportunities with TCS professionals

Key Learning Outcomes

- Improved awareness of security risks and mitigation strategies.
- Understanding of immersive technologies for industry and classroom use.
- Practical exposure to DevOps tools and cloud-native infrastructure.
- Insights into AI and Generative AI integration for education and research.
- Familiarity with future trends in virtualization and hybrid cloud ecosystems.

Feedback and Impact

95% of participants rated the sessions as 'Excellent'. The FDP encouraged collaboration opportunities, and faculty members reported increased confidence in teaching emerging technology topics.

Acknowledgements

The Department of CSBS expresses its heartfelt gratitude to:

- **BMSCE Management and Principal Dr. Bheemsha Arya** for their continuous encouragement and vital support in organizing initiatives that bridge the gap between industry and academia.
- **Mr. Praveen Chandran V, Regional Head, TCS,** and **Mr. Nilip Dutta, TCS,** for their guidance and collaboration, which played a key role in the successful execution of this FDP.
- **Tata Consultancy Services (TCS)** for providing expert speakers across multiple domains such as AR/VR, AI, DevOps, and Virtualization, significantly enriching the sessions.
- **Dr. Ashok Kumar, Head of the Department, CSBS,** for his vision, guidance, and constant motivation in making this FDP a reality.
- **Organizing committee members** namely Dr. Gururaja H S, Prof Tejaswini K and Dr. Rudramurthy V C, and **technical support teams** for their meticulous planning and smooth execution of the program.
- **All participants** for their enthusiastic participation and commitment to professional growth, making this FDP meaningful and impactful.

Conclusion

The FDP successfully bridged the industry-academia gap and empowered educators with relevant knowledge. The department looks forward to conducting similar impactful programs in the future.

Prepared By

Dr. Rudramurthy V C

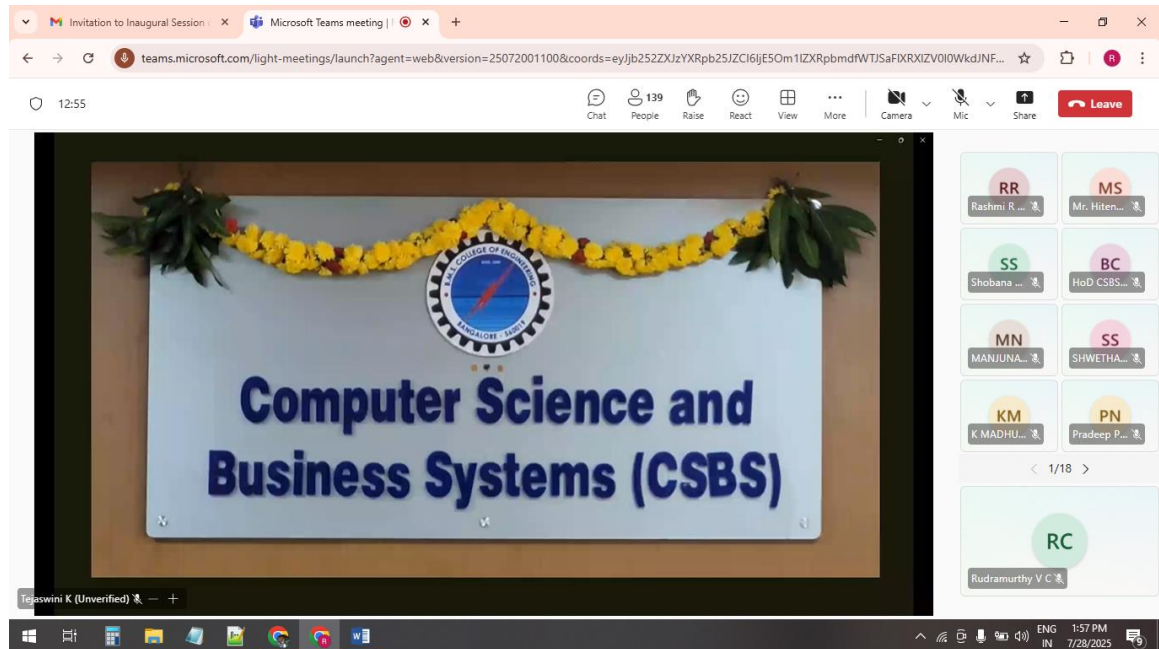
Assistant Professor,

Department of Computer Science and Business Systems,

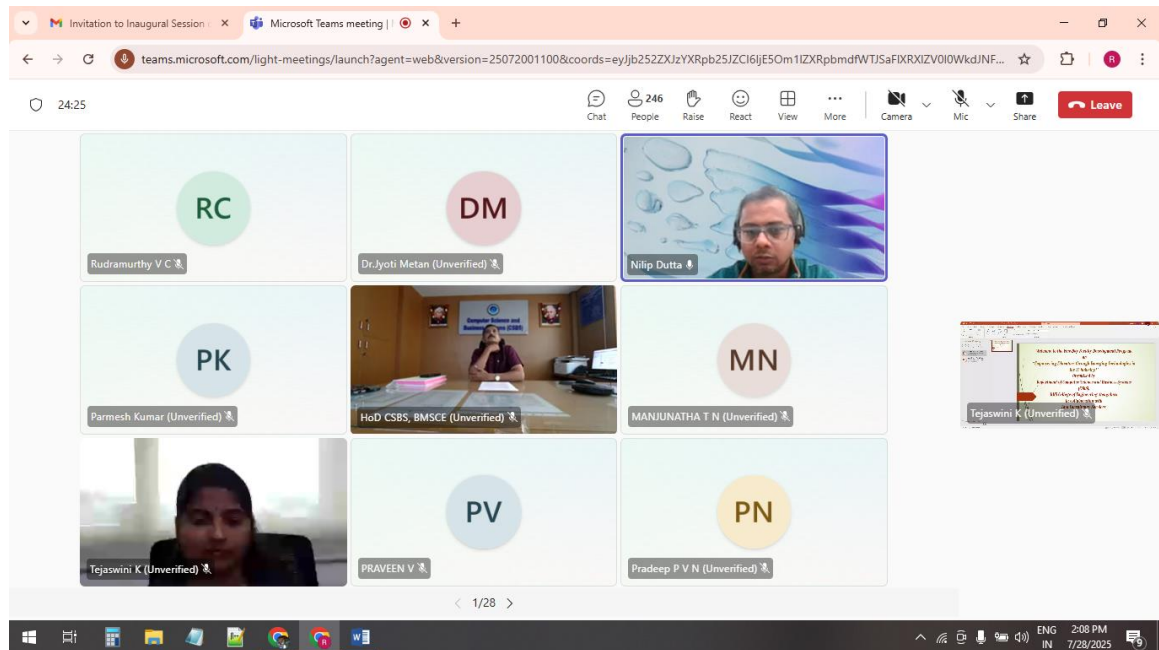
B.M.S. College of Engineering, Bengaluru - 560019

Glimpses of FDP

Microsoft Teams meeting interface showing a presentation slide titled "Computer Science and Business Systems (CSBS)". The slide features the logo of Anna College of Engineering, Bangalore, and a yellow floral garland. The meeting controls at the top show 139 participants and a "Leave" button. The right sidebar displays a list of participants: RR (Rashmi R...), MS (Mr. Hiten...), SS (Shobana...), BC (HoD CSBS...), MN (MANJUNA...), SS (SHWETHA...), KM (K MADHU...), PN (Pradeep P...), and RC (Rudramurthy V C...).



Microsoft Teams meeting interface showing a grid of participants. The participants are: RC (Rudramurthy V C...), DM (Dr. Jyoti Metan (Unverified)), Nilip Dutta, PK (Parmesh Kumar (Unverified)), HoD CSBS, BMSCE (Unverified), MN (MANJUNATHA T N (Unverified)), Tejaswini K (Unverified), PV (PRAVEEN V), and PN (Pradeep P V N (Unverified)). The meeting controls at the top show 246 participants and a "Leave" button. The right sidebar displays a list of participants: RC (Rudramurthy V C...), DM (Dr. Jyoti Metan (Unverified)), Nilip Dutta, PK (Parmesh Kumar (Unverified)), HoD CSBS, BMSCE (Unverified), MN (MANJUNATHA T N (Unverified)), Tejaswini K (Unverified), PV (PRAVEEN V), and PN (Pradeep P V N (Unverified)).



Microsoft Teams meeting interface showing a presentation slide titled "Information Security Vs Cyber Security". The slide content includes:

Information Security Vs Cyber Security

Key Takeaways

- ❖ Information security and cybersecurity share a common goal of preventing unauthorized access to information and information systems.
- ❖ Information security is an umbrella term that applies to information in all formats, both digital and physical.
- ❖ Cybersecurity is a subset of information security that focuses on electronic data, devices and systems

Cybersecurity vs. Information Security

Meeting chat sidebar on the right shows participants: Avishek Jana, Parmesh Kumar (PK), ND, Nilip Dutta (ND), TK, Tejaswini K (Unrec...), PV, PRAVEEN V, and RC, Rudramurthy V C. Chat messages include "Thank you", "Good afternoon, all", "Good afternoon sir", "Thank you sir and madam!", and "visible sir".

Microsoft Edge browser displaying a slide titled "Welcome you all for Day-4 of Five day online FDP on Empowering Educators through Emerging Technologies in the IT Industry". The slide content includes:

Welcome you all for
Day-4 of Five day online FDP
on
Empowering Educators through Emerging Technologies
in the IT Industry"
Organized by
Department of Computer Science and
Business Systems, B.M.S.C.E.
in Collaboration with
Tata Consultancy Services

Session Topic:
Artificial Intelligence (AI), Generative AI,
Agentic AI
Date: 31, July 2025

Below the text is a photo of **Karthikeyan Sabesan**, IT Business Consultant.

At the bottom, there is an "Ask AI Assistant" bar with the prompt "Draft a summary with key points".

20:58

Teams.microsoft.com/light-meetings/launch?agent=web&version=25072001100&coor... Research Methodology... 000896.pdf

Data Virtualization

Data Consumers

- Enterprise Applications, ESB
- Reporting, BI, Portals
- Mobile, Web, Users

Data Virtualization

Data Sources

- Database and Warehouses
- Cloud/SaaS Applications
- Enterprise Applications
- XML, Excel Flat Files
- Big Data, NoSQL
- Collaboration Web 2.0
- PDF, Docs, Index, Emails

Purpose: Allows access to data from multiple sources as if it were a single database.
Example: Accessing data from SQL, NoSQL, and cloud databases in a unified view.
Benefits:

- Faster data access
- Reduces data duplication
- Simplifies integration

Tools: Denodo, TIBCO Data Virtualization, IBM Cloud Pak

20°C Mostly cloudy

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TK SM SD

DM CH RC

BP KS

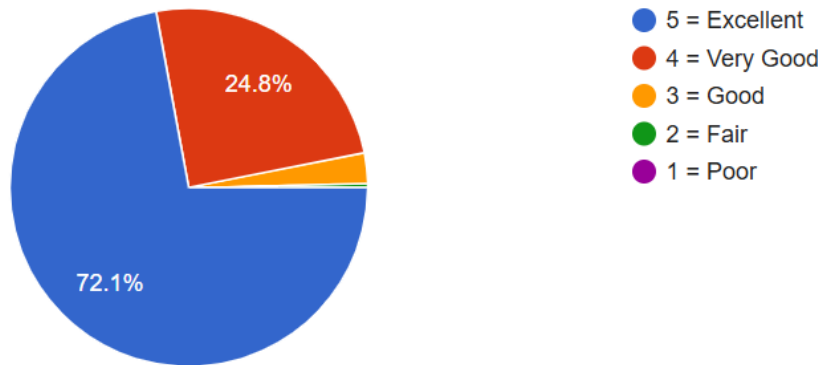
1/23

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Feedback on FDP

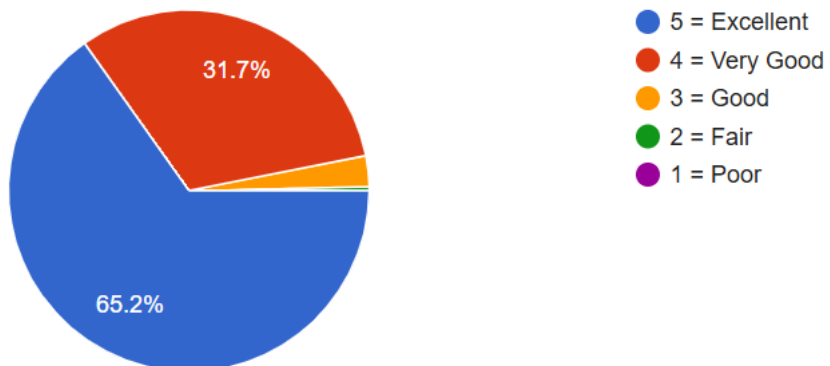
How would you rate the **coordination and organization of the FDP?**

290 responses



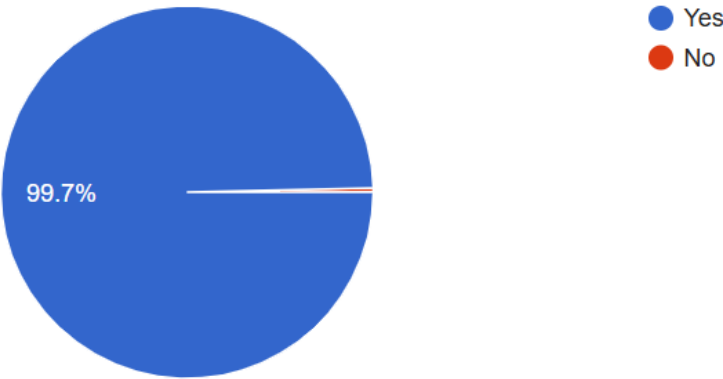
How was the **quality of content** of the resource persons?

290 responses



Were the topics aligned with the theme “**Emerging Technologies in the IT Industry**”?

290 responses



Rate the **overall FDP**

290 responses

