LOYOLA COLLEGE (AUTONOMOUS)

college of excellence

DEPARTMENT OF B.COM COMPUTER APPLICATIONS

Cordially invites you to

FACULTY DEVELOPEMENT PROGRAM

(Modern Analytics & Business Intelligence)



Ms. Nivis

B.E

DATE
23 RD JUNE

VENUE
CEL 9

TIME
2:00 PM - 3:00 PM

"Together, let's grow, inspire, and transform teaching."

LOYOLA COLLEGE (AUTONOMOUS)

DEPARTMENT OF B.COM COMPUTER APPLICATIONS

FACULTY DEVELOPMENT PROGRAM

Date: 23/6/2026 Host: Ms Nivis

Time: 2:00 PM to 3:00 PM External faculty from ISDC

Place: CEL 9

OBJECTIVES OF THE SESSION

The Faculty Development Program (FDP) was organized with the objective of empowering the faculty members of the Department of B.Com (Computer Applications) with advanced knowledge and practical expertise in the rapidly evolving field of Data Analytics. The program was designed to ensure that educators remain abreast of the latest technological developments and industry practices, enabling them to deliver high-quality, future-oriented education to students.

Another important objective was to bridge the gap between traditional classroom teaching and the current expectations of industry by introducing faculty members to modern analytical platforms and intelligent data-driven technologies. The training sought to strengthen their ability to incorporate practical learning, visualization techniques, predictive analytics, and business intelligence tools into regular classroom instruction.

The program also emphasized the importance of continuous professional development. Faculty members were encouraged to cultivate a mindset of lifelong learning, technological adaptability, and academic innovation, thereby reinforcing the department's commitment to maintaining the highest standards of teaching, research, and student development.


Data Intelligence for
Educators



ABOUT THE SESSION

The Faculty Development Program was successfully hosted and conducted by the external resource person, **Ms. Nivis**, from ISDC whose expertise in Data Analytics and Business Intelligence created an engaging, intellectually stimulating, and highly interactive learning environment. The session combined conceptual understanding with extensive hands-on practical exercises, ensuring that participants developed both theoretical knowledge and practical competence.

The program was attended by **Dr. Sheneela G. C.**, Coordinator of the Department of B.Com (Computer Applications), along with **Dr. S. Maria Selvi**, **Ms. A. Immaculate Cynthia**, and **Ms. A. Delphine Valarina**. Throughout the training, every faculty member displayed remarkable enthusiasm, professionalism, and a sincere commitment to strengthening their academic competencies for the benefit of their students.

The technical sessions commenced with a comprehensive introduction to **Data Analytics**, where participants explored the complete analytical lifecycle, including data collection, data cleaning, transformation, visualization, interpretation, and strategic decision-making. The resource person explained how organizations across industries increasingly rely on data-driven insights to solve business problems, forecast trends, improve operational efficiency, and support evidence-based decision-making. The participants also discussed the growing importance of analytics in commerce, finance, marketing, human resources, and entrepreneurship, enabling faculty members to relate these concepts directly to their academic curriculum.

The session progressed into advanced applications of **Microsoft Excel**, demonstrating that the software has evolved into a powerful analytical platform beyond conventional spreadsheet operations. Faculty members practiced advanced formulas, nested logical functions, lookup techniques, Pivot Tables, Pivot Charts, Power Query, conditional formatting, interactive dashboards, scenario analysis, forecasting tools, and automated reporting techniques. These practical exercises highlighted how Excel can be effectively utilized for research projects, case studies, classroom demonstrations, and student assessments.

Extensive practical exposure was then provided in **Microsoft Power BI**, where participants learned to transform raw datasets into meaningful interactive dashboards. The training included data modelling, relationship creation, data transformation using Power Query, DAX (Data Analysis Expressions), KPI development, dashboard design principles, visualization techniques, report publishing, and dynamic filtering. The session illustrated how business intelligence tools can simplify complex datasets and facilitate better interpretation through intuitive visual representations.

The resource person further introduced participants to **Tableau**, emphasizing its capabilities in interactive data visualization and storytelling through dashboards. Faculty members explored techniques for creating charts, geographical maps, trend analyses, calculated fields, filters, parameters, and dashboard actions. The training demonstrated how Tableau enables users to convert large volumes of data into meaningful visual narratives that support strategic business decisions and improve classroom engagement.

One of the most enriching segments of the program focused on **Machine Learning**. Faculty members were introduced to the fundamental concepts of Artificial Intelligence and Machine Learning, including supervised learning, unsupervised learning, classification, regression, clustering, and predictive modelling. Practical demonstrations using modern Python libraries illustrated how machine learning algorithms can identify hidden patterns, make predictions, and support intelligent decision-making. Participants gained valuable exposure to the relevance of these technologies in finance, banking, marketing analytics, customer segmentation, fraud detection, healthcare, and business forecasting.

The resource person consistently connected every practical exercise to its real-world industrial application, enabling participants to appreciate the significance of integrating these technologies into commerce education. The session reinforced that modern educators must equip students not only with theoretical knowledge but also with industry-relevant digital competencies that enhance employability and professional readiness.

The active participation of **Dr. Sheneela G. C.** reflected her strong commitment to academic excellence and continuous quality enhancement. As the Coordinator of the department, she has consistently encouraged the adoption of innovative teaching methodologies, curriculum enrichment, and professional development initiatives that strengthen both faculty capabilities and student outcomes. Her leadership promotes a culture where continuous learning is embraced as an essential part of academic excellence. Her encouragement for faculty participation in advanced training programs demonstrates a forward-looking vision that aligns the department with contemporary developments in higher education.

Her dedication to maintaining high academic standards is reflected in the department's emphasis on innovation, technology-enabled teaching, quality assurance, and collaborative learning. Through her guidance, faculty members are motivated to continuously upgrade their knowledge, explore emerging technologies, and deliver learning experiences that prepare students for evolving professional environments. Her approachable leadership, commitment to excellence, and consistent encouragement of academic growth contribute significantly to the department's positive and progressive academic culture.

The presence of **Dr. S. Maria Selvi**, the senior-most faculty member, former Coordinator, and one of the founding members of the department, added exceptional value to the program. Her extensive teaching experience, academic wisdom, and long-standing service have played an instrumental role in shaping the department's identity and academic reputation. Despite her vast experience, her enthusiasm for learning contemporary technologies reflects a remarkable commitment to lifelong learning and continuous professional growth.

Her willingness to actively participate in advanced technical sessions serves as an inspiring example for younger faculty members. She continues to demonstrate that true academic excellence is built upon constant learning, adaptability, and an unwavering commitment to students' success. Her mentorship, institutional knowledge, and dedication continue to strengthen the department and contribute meaningfully to its sustained progress.

Ms. A. Immaculate Cynthia participated actively throughout the Faculty Development Program with keen interest and professional dedication. Her enthusiastic involvement in both theoretical discussions and practical sessions reflected her commitment to enhancing her

technical expertise. Her readiness to embrace innovative teaching tools and emerging technologies contributes positively to the department's pursuit of academic quality.

Ms. A. Delphine Valarina also demonstrated sincere enthusiasm and active participation during every stage of the training. Her willingness to continuously develop new skills and adopt technology-driven teaching methodologies reflects her commitment to professional excellence and effective student engagement. Her positive attitude towards continuous learning further strengthens the collaborative academic environment within the department.

The Faculty Development Program concluded with meaningful interactions among the participants, during which faculty members exchanged ideas regarding innovative classroom practices, interdisciplinary learning, project-based education, and technology-enabled pedagogy. The collaborative discussions reinforced the department's collective commitment to maintaining academic excellence through continuous learning, innovation, and quality enhancement.



OUTCOMES OF THE SESSION

The Faculty Development Program substantially enhanced the technical knowledge and professional competencies of all participating faculty members. The comprehensive exposure to advanced Data Analytics, Microsoft Excel, Power BI, Tableau, and Machine Learning has equipped them with practical skills that can be effectively integrated into classroom teaching, research supervision, project guidance, and curriculum enrichment.

Faculty members developed greater confidence in using business intelligence tools for data analysis, dashboard creation, visualization, predictive analytics, and decision support. The practical knowledge gained through the training is expected to foster more engaging, application-oriented, and industry-relevant learning experiences for students.

The program also strengthened collaboration among the faculty members by encouraging the sharing of ideas, best practices, and innovative teaching approaches. Their collective enthusiasm for continuous professional development reflects the department's unwavering commitment to quality education and academic excellence.

The visionary leadership of **Dr. Sheneela G. C.**, together with the invaluable experience of **Dr. S. Maria Selvi** and the dedicated contributions of **Ms. A. Immaculate Cynthia** and **Ms. A. Delphine Valarina**, continues to foster an academic environment that values innovation, integrity, collaboration, and lifelong learning. Their commitment to professional development serves as a strong foundation for the department's continued pursuit of excellence in teaching, research, and student success.

Co-Ordinator Of B.Com (CA)

Dr Sheneela G C