



Under the aegis of Vijayam Educational Trust

CATALYST COLLEGE

(A Unit of CIMAGE Group of Institutions)

Institution approved by Education Department, Government of Bihar, Affiliated to Patliputra University, Patna



Ref:

Date:

NOTICE

The Faculty Development Program (FDP) on "NAAC - New Reforms 2023: An Introduction" will be conducted from 5th May 2023 to 25th May 2023. This FDP aims to provide an in-depth understanding of the latest reforms introduced by the National Assessment and Accreditation Council (NAAC) in 2023. Participants will gain valuable insights into the updated accreditation framework, key assessment criteria, and strategies for improving institutional performance. All faculty members are encouraged to register and attend this important program to stay informed about the evolving educational landscape.

Principal

Principal

CATALYST COLLEGE

Plot No. C-16(P) Patliputra Industrial Area

Patna-13



Plot No.C16(P), Patliputra Industrial Area
Patliputra, Patna- 800013



(+91) 7250767676



megha@cimage.in





Ref:

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NOTICE

The Faculty Development Program (FDP) on "Statistical Analysis with Excel" is scheduled from 8th June 2022 to 28th June 2022. This FDP aims to equip faculty members with essential skills in performing statistical analysis using Microsoft Excel. Participants will learn various statistical tools and techniques to analyze data effectively, which can be applied to academic research and classroom teaching. All faculty are encouraged to attend this FDP to enhance their data analysis capabilities and improve their proficiency in Excel-based statistical applications.

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NOTICE

The Faculty Development Program (FDP) on "Innovative Teaching & Learning Pedagogy" will be held from 5th May 2022 to 25th May 2022. This program is designed to introduce faculty members to modern and innovative teaching methodologies that enhance student engagement and learning outcomes. It will cover various pedagogical approaches, including active learning, digital tools, and collaborative techniques. All faculty are encouraged to participate in this FDP to enrich their teaching practices and stay updated with the latest trends in education.

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NOTICE

The Faculty Development Program (FDP) on "Transformative Pathways: AI and Emerging Trends in Teaching and Research" will take place from 3rd May 2021 to 18th May 2021.

This FDP aims to explore the integration of artificial intelligence (AI) and emerging trends in education and research. Participants will gain insights into how AI can transform teaching methods, enhance student learning experiences, and advance research capabilities.

Faculty members are encouraged to join this program to stay at the forefront of technological advancements in academia and improve their teaching and research practices.

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Plot No.- C-16(P) Patliputra Industrial Area
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Plot No.C16(P), Patliputra Industrial Area
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megha@cimage.in





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NOTICE

The Faculty Development Program (FDP) on "Moodle Learning Management System" is scheduled from 11th June 2020 to 26th June 2020. This FDP will focus on the effective use of Moodle, a widely used open-source learning management system, for enhancing online teaching and learning. Participants will learn how to create, manage, and deliver course content, conduct assessments, and track student progress using Moodle.

Faculty members are encouraged to participate in this program to enhance their digital teaching skills and adapt to the growing trend of online education.

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CATALYST COLLEGE
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NOTICE

The Faculty Development Program (FDP) on "Technology and Digital Literacy" will be conducted from 10th November 2019 to 25th November 2019. This FDP is designed to enhance faculty members' understanding of the latest technological tools and improve digital literacy skills. It will cover topics such as digital content creation, online teaching platforms, and the effective use of technology in education. Faculty members are encouraged to attend this program to stay current with digital advancements and integrate technology into their teaching practices more effectively.

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Plot No. C-16(P) Patliputra Industrial Area
Patliputra, Patna-13



Plot No.C16(P), Patliputra Industrial Area
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(+91) 7250767676

megha@cimage.in





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FACULTY DEVELOPMENT PROGRAM ON NAAC: NEW REFORMS 2023 - AN INTRODUCTION

Principal
CATALYST COLLEGE
Plot No. - C-16(P) Patliputra Industrial Area
Patliputra, Patna-13

Introduction:

The quality of Teaching and Learning in has come to be an important issue in India to all stakeholders including teachers, students, parents, Managements, University, AICTE, NBA, and Industry, especially after the introduction of new Accreditation Process introduced by NBA in 2015. The quality of learning of the graduating students determines the quality of their placements. While there was significant research in the last few decades in our understanding of how people learn, there have not been many intersections of this knowledge with the instructional practices at institutions of higher learning. The dominant instructional method still remains lecturing. Industry, Regulatory Bodies and Accreditation Agencies in India want the graduates to attain a set of Program Outcomes (knowledge, skills, and attitudes) which are discipline agnostic and a set of Program Specific Outcomes identified by the Department offering the program. The curriculum of a program decides the nature of learning experiences, including the courses, projects, internships, and co-curricular and extra-curricular activities.

Objective:

NAAC accreditation is a significant mark of quality in Indian higher education. Accredited institutions benefit from increased credibility, attract superior students and faculty, and have enhanced access to funding opportunities. Beyond these benefits, the accreditation process offers institutions the chance to thoroughly evaluate their strengths and weaknesses and implement targeted improvements that significantly uplift the educational standards. This FDP will aim to focus on bringing clarity to the process of NAAC Assessment and getting ready to align the institutional practices with the objective of accreditation.

Contents:

The FDP will offer a detailed exploration of the NAAC assessment process, covering a wide range of essential topics. Key areas of focus included:

- Introduction to the NAAC Assessment Process: Participants were introduced to the fundamentals of the NAAC accreditation process, including the core principles and objectives of accreditation.
- Criteria and Indicators for Assessment: A comprehensive breakdown of the NAAC crucial criteria and associated indicators was provided, offering participants a clear understanding of what is evaluated during the accreditation process.
- Preparing for the Assessment: The program will provide strategic guidance on how institutions can prepare effectively for the NAAC assessment, including tips on gathering evidence, documentation, and self-assessment practices.

- Best Practices for Quality Assurance in Higher Education: Participants were exposed to exemplary practices in maintaining and enhancing quality within educational institutions, which are crucial for achieving and sustaining NAAC accreditation.

Facilitators:

The workshop will be led by experienced assessors, bringing a wealth of knowledge and hands-on experience to the table. Their expertise will not only provide participants with valuable insights but also allow for interactive learning and networking opportunities. This direct engagement with seasoned professionals enabled attendees to clarify their doubts and understand the nuances of the NAAC accreditation process.

Pedagogy:

Lecture method, Experience Sharing Sessions, Discussion, and Real Time Case Studies

Participants Expected Profiles:

All Teaching and Non-Teaching Staff of Catalyst College

Date: 5 May 2023 to 25 May 2023

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FACULTY DEVELOPMENT PROGRAM ON INNOVATIVE TEACHING AND LEARNING PEDAGOGY

Principal
CATALYST COLLEGE
Plot No.- C-16(P) Patliputra Industrial Area
Patliputra, Patna-13



Introduction:

The pedagogy of the teaching-learning environment has experienced significant changes over time, keeping the ever-changing business scenario. Today, imparting knowledge with the help of creativity and innovative tools, facilitated by behavioural and technological interventions, has become the order of the day. On one hand, these innovative instructional strategies facilitate more enjoyable learning environments and on the other, the trainers and faculty members get the opportunity to create a more hands-on learning environment in the class. This FDP aims to bring insight into certain innovative teaching methods, by using hands-on experiences, which faculty members may incorporate during their sessions, irrespective of the subjects they are handling.

Objectives of FDP:

1. To introduce the design and customization of teaching approaches suiting student needs.
2. To present new and innovative ways of engaging students in the classroom.
3. To identify and apply new technology that will improve the ability of class projects, assignments and to presentation of ideas.
4. To share the use of new teaching strategies to make classes more lively, interactive, and interesting.

Topic Coverage/Outline:

- The program is intended to provide faculty with an idea about the using case method, learning by visualization, inclusion of real world examples, storytelling, collaborative learning, virtual labs, and experiential learning methods of teaching.
- It also equips participants with how to handle the case discussion session and enhances its effectiveness.
- Designing role play and group activities will be introduced so that teachers and students can make the best out of this teaching methodology.
- Hands-on sessions on the use of Artificial Intelligence tools in preparation for class projects, assignments and presentations will be covered as part of the technology adoption.

Pedagogy:

Lecture method, case discussion, activity-based and hands-on session

Participants Expected Profile:

Faculty Members of Catalyst College

Date: 05- May 2022 to 25- May 2022

Facilitator: Prof. Neeraj Agrawal (Principal, Catalyst College, Patna)





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TRAINING PROGRAM (TP) ON STATISTICAL ANALYSIS WITH EXCEL

Principal
CATALYST COLLEGE
Plot No.- C-16(P) Patliputra Industrial Area
Patliputra, Patna-13

Introduction:

The Training Program (TP) on Excel was conducted with the aim of enhancing participants' proficiency in utilizing Excel for data analysis, manipulation, and visualization. The program covered various advanced topics and techniques in Excel, providing participants with practical knowledge and hands-on experience to excel in their professional endeavours.

Overview of Topics Covered:

The Training Program encompassed a diverse range of topics tailored to meet the needs of participants from various academic backgrounds.

Some of the key topics covered during the program included:

1. **Imputation Techniques:** Participants learned about imputation methods used to handle missing data in Excel, with a focus on replacing missing values with the median.
2. **Shortcut Keys:** Participants were introduced to essential shortcut keys in Excel, such as Ctrl + H for replacing values, Ctrl + G for selecting blanks, and Ctrl + E for flash fill, streamlining their workflow and boosting productivity.
3. **Formula Functions:** The program delved into advanced formula functions in Excel, including the use of the Sequence formula and the CONCATENATE function for combining cell contents.
4. **Chart Creation:** Participants learned how to create visually appealing charts in Excel, exploring shortcuts like Alt + F1, Pivot Tables for Multiple Tables, for displaying charts according to the data.
5. **Data Analysis Tools:** The Training Program covered essential data analysis tools in Excel, such as VLOOKUP, COUNT, COUNTIFs, SUMIFs for finding values in one column and returning corresponding values from another column, and the utilization of Macros for automating repetitive tasks.
6. **MACROS:** Basics of Macros was also covered, in which, that how repetitive task can be done using macros. How to read macros and do marginal changes to support our excel.

Interactive Sessions and Hands-On-Practice

The Training Program will have interactive sessions where participants get actively engaged with the instructor and fellow participants, clarifying doubts and sharing insights. Hands-on practice sessions will allow participants to apply the concepts learned during the program, reinforcing their understanding and skill development.

Assessment and Feedback:

Throughout the Training Program, participants were assessed through quizzes and practical exercises to evaluate their comprehension and application of Excel concepts. Feedback sessions were conducted to gather participants' insights and suggestions for further improvement. On the last day, every department was requested to come up with their actual problems in their respective departments, and we tried to solve every department's problem.

The Training Program on Excel equipped participants with valuable knowledge and skills essential for leveraging Excel effectively in their academic and professional pursuits. By mastering advanced techniques, shortcuts, and functions, participants are now better equipped to analyse data, streamline tasks, and make informed decisions using Excel.

Pedagogy:

Hand-On Training and Case to Case Discussions and Problem Solving for Skill Development.

Participant Expected Profile:

All Technical Non-Teaching Staff of Catalyst College

Date:

08/06/2022 to 28/06/2022



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FACULTY DEVELOPMENT PROGRAM ON TRANSFORMATIVE PATHWAYS: AI AND EMERGING TRENDS IN TEACHING AND RESEARCH

Principal
CATALYST COLLEGE
Plot No.- C-16(P)-Patliputra Industrial Area,
Patliputra, Patna-13

Introduction:

In the rapidly evolving landscape of technology, Artificial Intelligence (AI) and Machine Learning (ML) have emerged as transformative forces, reshaping industries and influencing every facet of our lives. For faculty Members in educational institutions, staying abreast of the latest trends in AI and ML research is not merely an option; it is an imperative that directly impacts the quality of education, research, and the overall academic experience. As AI and ML continue to evolve, they are likely to play an increasingly integral role in various research domains. Familiarity with the latest trends puts researchers in a better positioned to shape the future direction of their research fields and anticipate upcoming challenges.

Objectives of FDP:

This faculty development program aims to bridge the gap between industry and academia by bringing together experts from both sectors to explore and discuss the emerging trends in Artificial Intelligence (AI) and Machine Learning (ML). This program seeks to provide a platform for collaboration, knowledge exchange, and networking between professionals from academia, who specialize in research and education, and those from industry, who possess practical experience and insights into real-world applications of AI and ML.

Topic Coverage:

1. Understanding the Evolving Landscape of Education
2. AI in Teaching Pedagogy and Curriculum Design.
3. AI tools for enhancing Students' Productivity
4. Data Analytics in Education: Utilizing data to enhance teaching effectiveness and student outcomes.
5. Harnessing AI Tools for Education
6. Enhancing Research Reporting and Publication through AI
7. A Hands-on Workshop on Use of AI Tools for Systematic Literature Review

Pedagogy:

Lecture method, live demonstrations, discussions, activity-based and hands-on session

Participants Expected Profile:

Faculty Members of Catalyst College

Date: 3 May 2021 to 19 May 2021



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FACULTY DEVELOPMENT PROGRAM ON MOODLE LEARNING MANAGEMENT SYSTEM

Principal
CATALYST COLLEGE
Plot No.- C-16(P) Patliputra Industrial Area
Patliputra, Patna-13

Introduction:

Moodle (Modular Object-Oriented Dynamic Learning Environment) is a popular open-source Learning Management System (LMS) widely used in educational institutions and organizations worldwide. It provides a flexible and powerful platform for creating, delivering, and managing online courses. This FDP will introduce faculty members to Moodle's features and its application for enhancing the teaching-learning experience.

Objective:

The Training Program encompassed a diverse range of topics tailored to meet the needs of participants from various academic backgrounds.

Some of the key topics covered during the program included:

- Definition and purpose of Moodle
- Benefits of using Moodle in academic setting
- Moodle's role in blended and fully online learning
- Moodle User Interface and Navigation
- Logging into Moodle and understanding the dashboard
- Overview of course categories, courses, and site settings
- Navigation through the Moodle platform as an instructor and student.
- Creating and Managing Courses
- Setting up a new course (course formats, settings, and sections.
- Uploading course content (documents, videos, links, etc.
- Managing participants, roles, and permissions
- Resource and Activity Modules in Moodle
- Adding resources: files, folders, URLs, labels, and pages.
- Activity modules: assignments, quizzes, forums, chats, surveys, and feedback.
- Using the gradebook for student assessment.
- Assessment and Evaluation Tools Creating quizzes with multiple question types (MCQs, true/false, short answers, etc.

Interactive Sessions and Hands-On Practice:

The interactive session and hands-on practice during the FDP on Moodle Learning Management System will provide participants with practical experience in navigating the platform, creating and managing courses, and utilizing its tools for teaching. Participants will set up a demo course, upload content, create quizzes, and manage discussions using forums. They will also explore assessment tools like assignments and grading, track student progress through reports, and customize their courses with plugins and multimedia. This session ensures participants gain first-hand experience in building an engaging online learning environment, preparing them to confidently implement Moodle in their teaching.

Assessment and Feedback:

Throughout the Training Program, participants were assessed on enabling participants to create various types of assessments, such as quizzes, assignments, and graded discussions, using Moodle's versatile tools. Participants will learn to design quizzes with multiple question types, set submission deadlines, and use grading rubrics for evaluating student work. They will also explore Moodle's automated grading features and how to provide timely and personalized feedback. The session will emphasize how these tools can streamline the evaluation process and improve student learning outcomes through consistent and constructive feedback.

Pedagogy:

Hand-On Training and Case to Case Discussions and Problem Solving for Skill Development

Participants Expected Profiles:

Faculty Members of Catalyst College

Date: 11/06/2020 to 26/06/2020

Facilitator: Prof. Neeraj Agrawal (Principal, Catalyst College, Patna)

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FACULTY DEVELOPMENT PROGRAM ON TECHNOLOGY AND DIGITAL LITRACY

Principal
CATALYST COLLEGE
Plot No. C-16(P) Patliputra Industrial Area
Patliputra, Patna-13

Introduction:

A Faculty Development Program (FDP) on "Technology and Digital Literacy" is designed to equip educators with the necessary skills to integrate modern technology into their teaching practices. In today's rapidly evolving digital age, the ability to use technology effectively is crucial for enhancing the learning experience and preparing students for a tech-driven future.

The program focuses on building competencies in various digital tools, platforms, and resources, fostering a deeper understanding of online learning environments, and promoting digital literacy as a key element of academic success. It empowers educators to engage with new technologies, develop innovative teaching strategies, and navigate the challenges and opportunities posed by digital transformation in education.

By the end of the FDP, participants will not only improve their own digital proficiency but also gain insights into how to inspire digital literacy among students, ensuring that future generations are well-equipped to thrive in a technology-centric world.

Overview of Topics Covered:

The Faculty Development Program (FDP) on "Technology and Digital Literacy" typically covers a wide range of topics that are essential for educators to integrate technology into teaching effectively and promote digital literacy among students.

An overview of the key topics covered includes:

- Introduction to Digital Literacy
- Emerging Educational Technologies
- Integrating Technology in the Classroom
- Incorporating multimedia (videos, presentations, interactive content) into lectures.
- Digital Pedagogy
- Online and E-Learning Platforms
- Cybersecurity and Data Privacy
- Digital Communication and Collaboration Tools
- Social Media and Digital Citizenship
- Digital Assessment Methods
- Professional Development through Technology

By the end of the FDP, participants will have gained practical skills in digital literacy, learned to leverage technology for innovative teaching methods, and fostered a deeper understanding of how to create a digitally inclusive learning environment.

Interactive Sessions and Hands-On Practice:

The interactive sessions and hands-on practice for the Faculty Development Program (FDP) on "Technology and Digital Literacy" are designed to provide educators with practical, experiential learning opportunities to enhance their digital skills. These sessions involve active participation in exploring Learning Management Systems (LMS), creating digital content, managing virtual classrooms, and conducting online assessments. Educators engage in collaborative activities using digital tools like Google Docs, Microsoft Teams, and video conferencing platforms to simulate real-world teaching scenarios. Workshops on cyber security, digital privacy, and emerging technologies such as Augmented and Virtual Reality (AR/VR) offer insights into safe and innovative practices. Through these interactive and immersive experiences, participants not only gain technical proficiency but also learn how to integrate technology effectively into their classrooms, fostering a digitally enriched and inclusive learning environment for students.

Assessment and Feedback:

"Technology and Digital Literacy" is crucial for evaluating participants progress and reinforcing their learning. Assessments typically include digital quizzes, practical assignments, and interactive projects where participants apply the skills they've acquired, such as creating digital content or managing online courses. Peer reviews, along with expert feedback, provide valuable insights into the strengths and areas for improvement in the participants' work. Additionally, real-time feedback during hands-on activities helps refine their technical proficiency and teaching strategies. By integrating both formative and summative assessments, the program ensures continuous improvement, enabling educators to effectively implement technology and foster digital literacy in their teaching practices.

Pedagogy:

Blended Learning, Flipped Classroom and Collaborative Learning Case Discussions

Participants Expected Profile:

Faculty Members of Catalyst College

Date: 10/11/2019 to 25/11/2019

Facilitator: Prof. Neeraj Agrawal (Principal, Catalyst College, Patna)