

Incremental improvements made for the preceding five years with regard to quality (in case of first cycle) Post accreditation quality initiatives (second and subsequent cycles)

2020-21

1. Upgradation of Tattva-LMS for Webinar Classes, recorded Video and Interactive Video.

Introduction

In 2014, IQAC Cell at ITM University Gwalior launched its proprietary Learning Management System (LMS) with the aim of enhancing student academic performance by providing an online platform for accessing syllabi and academic resources. As educational demands evolved, particularly during the Covid-19 pandemic, the LMS underwent significant upgrades and was rebranded as Tattva-LMS. This report details the substantial development and impact of Tattva-LMS on our educational practices, focusing on its role in remote learning, interactive sessions, and overall student engagement.

1. Evolution of Tattva-LMS

- Initial Implementation (2014):
 - **Purpose**: Initially designed to serve as an online repository for syllabi, academic resources, and course materials.
 - **Features**: Basic functionalities included document access and course information dissemination.
- Renaming and Upgrades (During Covid-19 Pandemic):
 - **Rebranding**: The system was renamed Tattva-LMS to better reflect its expanded capabilities and the evolving educational landscape.
 - **Enhanced Features**: Major updates included the integration of advanced features to support remote learning and interactive education.
- Ongoing Development:
 - **Continuous Improvement**: Regular updates and enhancements to address emerging needs and incorporate user feedback.

2. Key Features and Functionalities of Tattva-LMS

- Learning Materials:
 - **Diverse Resources**: Provides access to lecture notes, PowerPoint presentations, recorded video lectures, and interactive content.
 - **Comprehensive Access**: Centralized platform for all academic materials, ensuring that students have a single point of access for their learning needs.
- Online Webinar Classes:
 - **Real-Time Interaction**: Facilitates live classes and webinars, allowing for real-time interaction between instructors and students.
 - **Engagement**: Enhances student engagement through interactive sessions, discussions, and Q&A opportunities.



- Online Assignment Submissions:
 - **Streamlined Process**: Enables students to submit assignments electronically, reducing paperwork and administrative overhead.
 - Efficient Feedback: Instructors can provide timely and detailed feedback through the LMS.
- Activity-Based Continuous Assessment (ABCA):
 - Anytime-Anywhere-Any Device-Any Content (ABCA): Supports flexible and accessible assessment methods, allowing students to engage in continuous learning and evaluation from any location and on any device.
 - **Dynamic Learning**: Encourages practical application of knowledge and regular assessment to gauge and enhance student understanding.
- Virtual Laboratory Experiences:
 - **Simulation Tools**: Provides virtual laboratory experiences, enabling students to conduct experiments and simulations online.
 - **Enhanced Learning**: Bridges the gap between theoretical knowledge and practical application, especially crucial when physical labs are inaccessible.

3. Impact on Remote Learning and Educational Outcomes

- Uninterrupted Education:
 - **Continuity**: Ensured continuity of education during periods of physical distancing, particularly during the Covid-19 pandemic.
 - **Accessibility**: Allowed students to continue their studies without disruption, regardless of their physical location.
- Enhanced Learning Experience:
 - **Interactive Learning**: Fostered a more engaging and interactive learning environment through real-time webinars and interactive content.
 - **Flexibility**: Provided students with the flexibility to access learning materials and participate in assessments at their convenience.
- Student Engagement and Performance:
 - **Increased Engagement**: Interactive features and diverse learning materials have contributed to higher levels of student engagement and participation.
 - **Improved Performance**: The ability to access a wide range of resources and receive timely feedback has supported improved academic performance.

4. Future Directions and Recommendations

- Continued Development:
 - **Technological Advancements**: Stay updated with emerging technologies and integrate new features that enhance the learning experience.
 - **User Feedback**: Regularly collect and incorporate feedback from students and faculty to ensure the platform remains relevant and user-friendly.
- Enhanced Training and Support:



- **Faculty Training**: Provide ongoing professional development to help instructors maximize the use of Tattva-LMS and its features.
- **Student Orientation**: Offer orientation sessions for students to familiarize them with the LMS and its functionalities.
- Expansion of Features:
 - Advanced Tools: Explore the integration of advanced tools such as artificial intelligence for personalized learning experiences and analytics for performance tracking.
 - **Collaborative Features**: Develop additional features that support collaborative projects and peer interactions.

Conclusion

The evolution of Tattva-LMS from a basic tool to a comprehensive, feature-rich platform reflects ITM University Gwalior's commitment to leveraging technology for academic excellence. The system has played a pivotal role in supporting remote learning, enhancing student engagement, and ensuring uninterrupted education during challenging times. By continuing to develop and refine Tattva-LMS, the university can further enhance its educational practices and maintain its position at the forefront of digital learning innovation.



Picture-3: Tattva-LMS Home Page



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Picture-4: Common Resources and activities on Tattva-LMS Home Page

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Picture-5: Webinar Classes on Tattva-LMS



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Picture-6: Course Page on Tattva-LMS



2. Introduction of Proctored Online Examination Portal Amidst the Covid-19 Pandemic.

Introduction

In response to the urgent need to maintain academic rigor amidst the global Covid-19 pandemic, ITM University Gwalior swiftly adopted a proctored online examination system. This strategic shift was facilitated by internally developed software from the ERP Cell, ensuring a secure and reliable testing environment for students across various academic levels. This report provides an in-depth overview of the implementation of proctored online exams, their impact on the examination process, and the overall benefits realized by the university community.

1. Background and Necessity

- Context:
 - The Covid-19 pandemic necessitated a rapid transition to online education and assessment due to physical distancing requirements and the closure of traditional examination venues.
 - Maintaining academic integrity and ensuring the timely completion of academic programs became critical challenges.
- Objective:
 - To adapt the examination process to an online format while ensuring the same level of academic rigor and integrity as traditional in-person exams.

2. Implementation of Proctored Online Examinations

- Development and Integration:
 - Internal Software: The ERP Cell developed and deployed proprietary software designed to facilitate proctored online exams. This system was tailored to meet the specific needs of ITM University Gwalior, incorporating advanced features for monitoring and authentication.
 - **Testing Environment**: The system was implemented to provide a secure and controlled testing environment, ensuring that the examination process was conducted with the highest level of integrity.
- Features and Functionality:
 - **Monitoring**: Utilized real-time monitoring features to track student activity during exams, preventing and detecting any unauthorized behavior.



- **Authentication**: Implemented robust authentication protocols to verify the identity of students, reducing the risk of impersonation or fraudulent activities.
- **Security**: Incorporated measures such as browser lockdown and webcam surveillance to enhance the security of the examination process.

3. Impact on Examination Integrity and Accuracy

- Integrity:
 - Safeguarding Assessments: The use of advanced monitoring and authentication features effectively mitigated the risk of cheating and ensured that the examination process was fair and reliable.
 - **Credibility**: By upholding stringent security measures, the university maintained the credibility of its academic evaluations.
- Accuracy:
 - **Consistent Standards**: Ensured that the online exams adhered to the same standards and rigor as traditional exams, preserving the quality and accuracy of assessments.
 - **Fairness**: Provided a level playing field for all students, regardless of their location, by enforcing uniform examination conditions.

4. Streamlining Online Evaluation Procedures

- Efficiency:
 - **Grading**: Streamlined the process of grading online assessments, leveraging automated tools to expedite the evaluation of exams.
 - **Timeliness**: Ensured prompt grading and result declaration, which was crucial for maintaining academic schedules and facilitating timely graduations.
- Final-Year Students:
 - **Graduation**: Enabled final-year students to complete their exams and graduate on schedule, thus protecting their career trajectories from the disruptions caused by the pandemic.
 - **Career Impact**: Avoided delays in academic outcomes, which could have adversely affected students' entry into the job market or further educational opportunities.

5. Commitment to Academic Standards

• Innovation:



- **Technology**: Demonstrated the university's commitment to leveraging innovative technology to address unprecedented challenges and maintain academic excellence.
- **Adaptability**: Showcased the institution's ability to adapt to changing circumstances and implement effective solutions swiftly.
- Responsibility:
 - **Educational Continuity**: Ensured the continuity of education by providing a reliable and secure platform for online examinations.
 - **Student Support**: Upheld the university's responsibility to provide fair and equitable assessment opportunities, essential for students' academic and professional advancement.

6. Future Directions and Recommendations

- Continuous Improvement:
 - **Feedback**: Collect and analyze feedback from students and faculty to refine the proctored online examination system and address any emerging issues.
 - **Updates**: Regularly update the software to incorporate new security features and technological advancements.
- Training and Support:
 - **Faculty Training**: Provide ongoing training for faculty members to ensure they are proficient in using the online examination system and can effectively manage the examination process.
 - **Student Orientation**: Offer comprehensive orientation sessions for students to familiarize them with the online examination system and its procedures.
- Technology Integration:
 - Advanced Tools: Explore the integration of advanced technologies, such as artificial intelligence and machine learning, to further enhance the examination process and support personalized learning experiences.

Conclusion

The implementation of proctored online examinations at ITM University Gwalior represents a significant achievement in maintaining academic rigor and integrity during challenging times. By leveraging internally developed software and advanced monitoring technologies, the university has ensured a secure and reliable examination process. This strategic move not only supported the timely graduation of students but also reinforced the institution's commitment to academic excellence and innovation.



The success of this initiative highlights the importance of adaptability and technological integration in modern education, positioning ITM University Gwalior as a leader in addressing the evolving needs of the academic community.

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Picture-7: Home Page on Online Examination Portal

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Picture-8: Student login page on Online Examination Portal



Picture-9: End-Term Examination on Online Examination Portal



3. Enhancements to Prabandh Portal for Monitoring Course Delivery During the Covid-19 Pandemic.

Introduction

In 2011, IQAC Cell at ITM University Gwalior introduced **Prabandh**, an internally developed web-based Management Information System (MIS) aimed at optimizing and integrating essential university functions. This initiative marked a significant leap towards enhancing operational efficiency, transparency, and effectiveness across academic, examination, student support, and human resources processes. The subsequent upgrades made to Prabandh during the Covid-19 pandemic further underscored the university's commitment to leveraging technology for educational excellence and administrative management. This report provides a comprehensive overview of the development, implementation, and evolution of Prabandh-MIS and its integration with the Tattva-LMS platform.

1. Initial Launch of Prabandh (2011)

- Overview:
 - Prabandh was launched in 2011 as a web-based ERP system designed to streamline various university functions. The system aimed to enhance operational efficiency and improve administrative transparency.
- Key Features:
 - **Academic Management**: Facilitated the management of course registrations, timetables, grading, and student records.
 - **Examination Management**: Automated examination scheduling, question paper generation, and result processing.
 - Student Support Services: Managed hostel allocations, transport services, and student support functions.
 - **Human Resources**: Handled staff recruitment, payroll, and employee records.
- Impact:
 - **Operational Efficiency**: Improved the speed and accuracy of administrative tasks, reducing manual workloads and errors.
 - **Transparency**: Enhanced visibility into various processes, promoting accountability and streamlined communication.

2. Upgrades During the Covid-19 Pandemic

• Context:



- The Covid-19 pandemic necessitated a rapid transition to remote learning and virtual operations, highlighting the need for robust digital solutions to manage academic and administrative functions effectively.
- Enhanced Features:
 - Integration with Tattva-LMS: The upgraded Prabandh-MIS was integrated with the Tattva-LMS platform to oversee and manage the delivery of course contents. This integration was pivotal in ensuring the continuity of education during physical distancing measures.
 - **Resource Management**: Enabled efficient management of educational resources, including lecture notes, recorded lectures, and interactive sessions, through seamless coordination with Tattva-LMS.
 - Monitoring and Reporting: Introduced advanced monitoring features to track student engagement, course progress, and overall effectiveness of the online learning environment.
- Impact:
 - **Continuity of Education**: Ensured that educational content was effectively delivered to students despite the disruptions caused by the pandemic.
 - Enhanced Learning Experience: Improved the management of online resources and provided a more integrated learning experience through the combined capabilities of Prabandh-MIS and Tattva-LMS.

3. Integration with Tattva-LMS

- Role of Prabandh-MIS:
 - Course Delivery Management: Monitored and facilitated the dissemination of course materials via Tattva-LMS, ensuring that students had timely access to necessary resources.
 - Data Synchronization: Ensured seamless synchronization of data between Prabandh-MIS and Tattva-LMS, including student records, course progress, and assessment results.
- Benefits:
 - **Efficiency**: Streamlined the management of online learning resources and administrative processes, reducing duplication of efforts and improving overall efficiency.
 - **Student Support**: Enhanced support for students by providing a unified platform for accessing course materials, submitting assignments, and tracking academic progress.



4. Commitment to Technological Advancement

- Technological Integration:
 - Advanced Solutions: The evolution of Prabandh-MIS and its integration with Tattva-LMS demonstrated ITM University Gwalior's commitment to leveraging technology for comprehensive management of academic and administrative functions.
 - **Adaptability**: Highlighted the university's ability to adapt to changing circumstances and implement technological solutions that address emerging challenges.
- Educational Continuity:
 - Resilience: Ensured the continuity of education and support services during unprecedented global disruptions, thereby safeguarding the academic progress of students.
 - **Innovation**: Showcased the university's innovative approach to managing educational resources and administrative functions through technology.

5. Future Directions and Recommendations

- Continuous Improvement:
 - Feedback Collection: Regularly gather feedback from students and faculty to identify areas for improvement and enhance the functionality of Prabandh-MIS and Tattva-LMS.
 - System Upgrades: Implement periodic updates to the MIS and LMS platforms to incorporate new features, address technological advancements, and meet evolving educational needs.
- Training and Support:
 - **Faculty and Staff Training**: Provide ongoing training and support for faculty and administrative staff to ensure effective use of the integrated systems.
 - **Student Orientation**: Offer orientation sessions to help students navigate the features of Prabandh-MIS and Tattva-LMS, maximizing their use of the platforms.
- Technology Integration:
 - Advanced Features: Explore the integration of advanced technologies, such as artificial intelligence and data analytics, to further enhance the functionality and effectiveness of the management systems.

Conclusion



The evolution of Prabandh-MIS from its initial launch to its upgraded integration with Tattva-LMS represents a significant advancement in the management of academic and administrative functions at ITM University Gwalior. By leveraging technology to streamline processes, enhance transparency, and support remote learning, the university has demonstrated its commitment to maintaining high standards of educational excellence and operational efficiency. The continued emphasis on technological integration and system improvement will further strengthen the university's ability to address future challenges and uphold its mission of providing exceptional education and support.



Picture-10: Prabandh-MIS Login Page

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Picture-11: Moodle/LMS activities on Prabandh-MIS



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Picture-12: Daily Activities on Prabandh-MIS



4. Improving the Mentoring Policy for Mentors and Mentees.

Introduction

ITM University Gwalior has undertaken a significant enhancement of its Mentor-Mentee policy to foster a more supportive and nurturing academic environment. Initially designed to provide guidance and support to students, the updated policy aims to improve the mentoring experience for both mentors and mentees. This report details the enhancements made to the policy, focusing on the support provided to mentors, the benefits for mentees, and the mechanisms for assessing and improving the mentoring process.

1. Overview of the Enhanced Mentor-Mentee Policy

- Background:
 - The Mentor-Mentee policy at ITM University Gwalior was established to facilitate student support and guidance. The enhancement of this policy reflects a commitment to improving the mentoring experience and ensuring that both mentors and mentees derive maximum benefit from their interactions.
- Objectives:
 - **Enhance Mentor Effectiveness**: Provide mentors with the tools and training necessary to offer effective guidance.
 - **Improve Mentee Experience**: Ensure mentees receive personalized support that addresses their academic and personal development needs.
 - Continuous Improvement: Implement feedback mechanisms to assess and refine the mentoring process.

2. Training and Resources for Mentors

- Structured Training Programs:
 - Workshops: Regular workshops are organized to train mentors in effective mentoring techniques. These sessions cover topics such as active listening, providing constructive feedback, and setting achievable goals.
 - Understanding Student Needs: Training includes strategies for understanding and addressing the diverse needs of students, including academic challenges and personal issues.
 - Utilizing University Resources: Mentors are educated on how to leverage university resources to support their mentees, including academic support services, counseling, and career guidance.



- Resource Materials:
 - **Guidelines and Best Practices**: Comprehensive guidelines and best practice documents are provided to mentors to ensure consistency and quality in mentoring.
 - **Mentor Handbook**: A handbook detailing roles, responsibilities, and resources available to mentors is made available to all participants.
- Impact:
 - **Preparedness**: Mentors are better equipped to provide meaningful guidance and support, leading to improved outcomes for mentees.
 - **Confidence**: Enhanced training boosts mentors' confidence in their ability to assist students effectively.

3. Personalized Support for Mentees

- Engagement and Interaction:
 - Active Participation: Mentees are encouraged to actively engage with their mentors, seeking advice on academic performance, career aspirations, and personal development.
 - **Goal Setting**: The policy promotes setting personalized goals and working towards them with the help of mentors, ensuring that support is tailored to individual needs.
- Regular Meetings:
 - Scheduled Interactions: Regular meetings between mentors and mentees are mandated to ensure continuous dialogue and support. These meetings are used to discuss progress, address concerns, and set new goals.
- Support Areas:
 - **Academic Guidance**: Assistance with course selection, study strategies, and overcoming academic challenges.
 - **Career Development**: Guidance on career planning, internships, and professional growth.
 - Personal Development: Support for personal growth, stress management, and worklife balance.
- Impact:
 - **Personalized Support**: Mentees receive guidance that is specifically tailored to their individual needs, enhancing their overall academic and personal development.
 - **Increased Engagement**: Encouragement of active participation leads to a more engaging and productive mentoring experience.



4. Feedback Mechanisms and Continuous Improvement

- Feedback Collection:
 - **Surveys and Evaluations**: Regular surveys and evaluations are conducted to gather feedback from both mentors and mentees. This feedback helps assess the effectiveness of the mentoring relationships and identify areas for improvement.
 - **One-on-One Reviews**: Periodic one-on-one reviews between mentors and mentees are used to discuss experiences and provide feedback on the mentoring process.
- Assessment and Refinement:
 - **Data Analysis**: Feedback data is analyzed to identify trends and areas needing attention. This analysis informs decisions on policy adjustments and enhancements.
 - **Policy Adjustments**: Based on feedback, the policy is updated to address emerging needs and improve the overall mentoring experience.
- Impact:
 - **Responsiveness**: The feedback mechanism ensures that the mentoring program remains responsive to the evolving needs of students.
 - **Continuous Improvement**: Ongoing refinement of the policy leads to a more effective and supportive mentoring environment.

View

5. Conclusion

The enhancement of the Mentor-Mentee policy at ITM University Gwalior represents a significant step towards creating a more supportive and nurturing academic environment. By investing in mentor training, providing personalized support to mentees, and implementing robust feedback mechanisms, the university is committed to improving the mentoring experience and fostering academic and personal growth. The continuous focus on refining the mentoring process ensures that both mentors and mentees benefit from a structured and effective support system, ultimately contributing to the overall success and well-being of students.

Mentoring Policy for Mentors and Mentees



5. Improving the Teaching and Learning policy.

Introduction

ITM University Gwalior has undertaken a comprehensive enhancement of its teaching and learning policy to align with the National Education Policy (NEP) 2020 and Outcome-Based Education (OBE) frameworks. This strategic update is aimed at modernizing and optimizing educational practices in accordance with contemporary educational reforms. This report details the key aspects of the revised policy, its alignment with NEP 2020 and OBE, and the steps taken to implement these changes effectively.

1. Alignment with NEP 2020

- Learner-Centric Approach:
 - Critical Thinking and Creativity: The updated policy places a strong emphasis on fostering critical thinking and creativity among students. This involves designing curriculum and learning experiences that encourage students to question, analyze, and innovate.
 - Holistic Education: Reflecting NEP 2020 principles, the policy promotes a multidisciplinary approach to learning. It integrates various fields of study to provide students with a well-rounded education that prepares them for complex real-world challenges.
- Curriculum Design:
 - Skill Development: Faculty members are encouraged to design curricula that focus on the development of essential skills, including digital literacy, communication, and problem-solving. This approach ensures that students are equipped with practical skills relevant to their future careers.
 - Lifelong Learning: The policy supports the integration of lifelong learning principles, enabling students to continuously acquire new knowledge and skills throughout their lives.

2. Integration of Outcome-Based Education (OBE) Principles

- Clear Learning Outcomes:
 - **Definition and Alignment**: Each course now has clearly defined learning outcomes that align with program objectives. These outcomes specify what students are expected to know, do, and value upon completing the course.



- Assessment Criteria: Assessment criteria are explicitly linked to the defined learning outcomes, ensuring that evaluations accurately measure student achievement and understanding.
- Innovative Teaching Methods:
 - Project-Based Learning: Faculty are encouraged to incorporate project-based learning approaches that allow students to work on real-world problems and projects, thereby enhancing their practical skills and knowledge application.
 - **Flipped Classrooms**: The use of flipped classrooms is promoted, where traditional lecture content is delivered outside of class time, and classroom time is used for interactive discussions and problem-solving activities.
 - Experiential Learning: The policy advocates for experiential learning opportunities that provide students with hands-on experiences and practical application of theoretical concepts.
- Regular Feedback and Assessments:
 - **Continuous Monitoring**: Regular feedback mechanisms are incorporated to track student progress and provide timely interventions. This includes formative assessments that help gauge student understanding throughout the course.
 - Achievement Measurement: Student achievement is measured against predefined learning outcomes, allowing for an objective assessment of educational effectiveness and student performance.

3. Professional Development for Faculty

- Training Programs:
 - Workshops and Seminars: A range of workshops and seminars are organized to equip faculty with the necessary skills and knowledge for implementing new teaching methodologies and assessment practices.
 - Pedagogical Strategies: Training programs focus on innovative pedagogical strategies, including the use of technology in teaching, effective classroom management, and designing engaging learning experiences.
- Support and Resources:
 - **Teaching Resources**: Faculty members have access to a variety of teaching resources and tools that support the implementation of modern educational practices.
 - Ongoing Support: Continuous support is provided through mentoring and professional development initiatives to help faculty adapt to evolving educational needs and practices.



4. Implementation and Monitoring

- Policy Rollout:
 - **Phased Implementation**: The enhanced policy is being rolled out in phases to ensure a smooth transition and effective integration into existing educational practices.
 - **Communication**: Clear communication strategies are employed to inform faculty and students about the changes and the benefits of the new policy.
- Monitoring and Evaluation:
 - **Effectiveness Assessment**: Regular assessments are conducted to evaluate the effectiveness of the new teaching and learning practices. This includes analyzing feedback from students and faculty, as well as reviewing student performance data.
 - **Continuous Improvement**: Based on monitoring results, iterative improvements are made to the policy and its implementation to ensure that it meets educational goals and enhances learning outcomes.

5. Conclusion

The enhancement of the teaching and learning policy at ITM University Gwalior represents a proactive and strategic effort to align with NEP 2020 and OBE frameworks. By focusing on learner-centric approaches, clear learning outcomes, innovative teaching methods, and professional development, the university is committed to modernizing its educational practices and fostering academic excellence. These changes not only address current educational challenges but also prepare students to thrive in a dynamic global environment. The continuous monitoring and iterative improvements ensure that the policy remains effective and responsive to the needs of students and faculty.

Teaching and Learning policy View