



## **Dr. D. Y. Patil Vidyapeeth, Pune (Deemed to be University)**

Accredited (3<sup>rd</sup> Cycle) by NAAC with a CGPA of 3.64 on a four point scale at A++ Grade)  
(An ISO 9001: 2015 Certified University)

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### **DPU-LMS – Learning Management System (LMS) as a tool for teaching learning and assessment**

DPU has made substantial investment to upgrade and integrate technology to suit advancements needed in teaching learning content and pedagogies. DPU is making use of Learning Management Systems (LMS) to support online classes, and also focusing on creating digital and interoperable infrastructure that can be utilized by multiple platforms.

#### **DPU-LMS: An In-house tailor made facility**

Dr. D.Y. Patil Vidyapeeth's Learning Management System (LMS) is completely in-house made and has required a significant amount of effort is a testament to the institution's commitment to providing a high-quality learning experience to its students.

By developing its own LMS, the institution has been able to tailor the platform to meet the specific needs of its faculty and students, ensuring that it provides a seamless and user-friendly experience. Additionally, the in-house development of the LMS has allowed for greater flexibility and customization, which can be difficult to achieve with off-the-shelf software solutions.

The fact that this state-of-the-art facility is not available anywhere else further underscores the distinctiveness of Dr. D.Y. Patil Vidyapeeth. The institution's commitment to innovation and technology-driven education sets it apart from other institutions and positions it as a leader in the field of higher education. Having an in-house developed LMS can also provide the institution with greater control over the platform's features and functionality, allowing it to adapt and evolve to meet the changing needs of its faculty and students.

Considering the University's commitment to inspire and mentor faculty in their role as teachers, researchers and as mentors Dr. D. Y. Patil Vidyapeeth, Pimpri, Pune, has a dynamic Learning Management system developed in-house by the software development cell for ensuring transparency in the teaching learning and assessment of students. The regular faculty development programmes

conducted by University Centre for Professional Education and Faculty Development (UCPE&FD) create a cohesive and value-based culture for the faculty, while encouraging sharing of teaching experiences and collaborative research. The teaching effectiveness of faculty is sharpened through intense faculty development programmes on Andragogy and Research Methodology. The University's interventions through regular workshops have ensured that the faculty are familiar with learner centric Massive Open Online Courses (MOOCs) and also conventional teaching methods on a blended platform.

Diverse student centric methods of teaching (experiential, participatory and problem solving) are regularly adopted. Field Trips Industry visits Participation in competitions/exhibitions, Guest lectures, Seminars/workshops MOOCs/Swayam/NPTEL courses blended into the teaching-learning process.

- Every teaching faculty uploads the lesson plan well in advance which is visible to the students. Therefore the student comes prepared for the lecture.
- The teaching faculty also make the lecture entry after the lecture is completed as to which topic was taken, whether it is completed/half complete, the lesson plan for that topic, e-content for that particular topic and also marks the attendance of students.
- This helps the students to refer to the topic specific e content if they are absent for a particular topic. Therefore they do not miss on the learning.
- The teaching faculty also uploads their e-content in the form of ppt, pdf, videos images for the benefit of the students wherein the students can refer the e- content at any given point of time and date.
- The syllabus, advanced teaching plan, time table is also uploaded for the benefit of the students.
- Students are been made aware of the graduate attributes, program outcomes as well as course outcomes which are also uploaded on the LMS.
- Assessment of the students is conducted in the form of assignments, MCQ Tests as well as subjective theory examinations to assess their learning ability.
- This has helped identify slow learners and advanced performers and take necessary steps.
- Case discussions, problem based learning is conducted through the discussion forum which has helped enhance the problem solving skills of the students



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### **SALIENT FEATURES**

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Teacher Specific

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Student Centric

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All Graduate Attributes, Programme Outcomes, Course Outcomes are visible to teachers and students

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Syllabus, Advanced Teaching Plan is uploaded

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Lesson plan, lecture Entry, Attendance can be marked

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Uploading of E-Content

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Assignments, Case based Learning , Problem Solving, Formative exams can be conducted

A clear articulation of Program Outcome's and Course Outcome's ensures that teaching is directed towards their attainment. A robust LMS and ICT enabled processes help monitor all academic activities. Learning resources are accessible to students 24x7. Pedagogical interventions include field trips, tinkering labs, live industry projects, online courses, simulations, mock trials, case studies, and workshops/seminars/conferences. All these make learning immersive and engaging. Apart from classroom engagement by qualified and experienced teachers, use of e-resources including databases, MOOCs, Bloomberg terminals, simulation and statistical software enrich the learning.

These bring vibrancy to the classroom, provide students with an opportunity to work with a range of material, ideas and content, and improve their ability to apply theory and methods learned in the course. Adequate weightage given to objective based tests ensure conceptual clarity. To make students' career ready, grooming workshops, skill set mapping, Mock GDs and PIs are conducted with inputs from alumni. Students undertake mandatory Summer Internship Programs and Live Projects enhancing their application of skills. Faculty create and upload videos on specific topics and engage in discussions based on them. Faculty have adopted the Flipped Classroom methodology where students attend asynchronous online sessions and then attend synchronous/face-to-face, teacher-guided discussions.

### **Conclusion**

In conclusion, the LMS implemented by Dr. D.Y. Patil Vidyapeeth is a distinctiveness for the institution, as it provides its students with a modern and interactive learning experience. The LMS is accessible from any device with an internet connection, provides access to a range of resources, and enables collaboration and interaction between students and faculty members. The LMS also provides faculty members with tools for managing and delivering their courses, which helps them to deliver high-quality education.

### **Future plans**

In addition to the current implementation of the Learning Management System, Dr. D.Y. Patil Vidyapeeth has plans to further enhance its digital infrastructure and expand the use of technology in education.

One of the future plans is to incorporate artificial intelligence (AI) and machine learning (ML) technologies into the Learning Management System. This will enable the LMS to personalize the learning experience for each student based on their individual learning styles and preferences. The LMS will also be able to provide real-time feedback to students on their performance and suggest areas for improvement.

Dr. D.Y. Patil Vidyapeeth also plans to establish virtual laboratories and simulations that will provide students with hands-on learning experiences in a digital environment. These virtual laboratories and simulations will enable students to gain practical knowledge and skills without the need for physical lab equipment, which can be expensive and time-consuming.

This is to certify that the above document has been verified.

Dr. A.N. Suryakar  
Registrar