



ignite your mind. learn without limits.

A SaaS based Online Learning Management System



Ignitolearn is a SaaS-based Online Learning Management System with AI-powered personalization, analytics, and automated assessments.

Aligned with SWAYAM's Four-Quadrant approach, it offers video lectures, study materials, discussions, and Virtual Labs for seamless, interactive, and accessible learning.

Innovated by



hackberry
S O F T E C H

Igniting Ideas, Transforming Solutions

Online Learning : Overview



Marketing Activities /
Outreach Programs /
CRM



Website Landing Page –
Catalogue of Courses /
Offerings – Public Access



Learner Registration /
Re-registration



Payment Gateway –
SIS



IgnitoLearn – Hackberry –
Authorized Learner Access –
Learner Experience



AI-based Online
Examination System

Four Quadrant Approach as per SWAYAM Guidelines



Quadrant-I is e-Tutorial;

which shall contain: Video and Audio Content in an organized form, Animation, Simulations, video demonstrations, Virtual Labs, etc, along with the transcription of the video.



Quadrant-II is e-Content;

which shall contain; self-instructional material (digital Self Learning Material), e-Books, illustrations, case studies, presentations etc, and also contain Web Resources such as further references, Related Links, Open source Content on Internet, Video, Case Studies, books including e-books, research papers and journals, Anecdotal information, Historical development of the subject, Articles, etc.



Quadrant-III is the Discussion forum

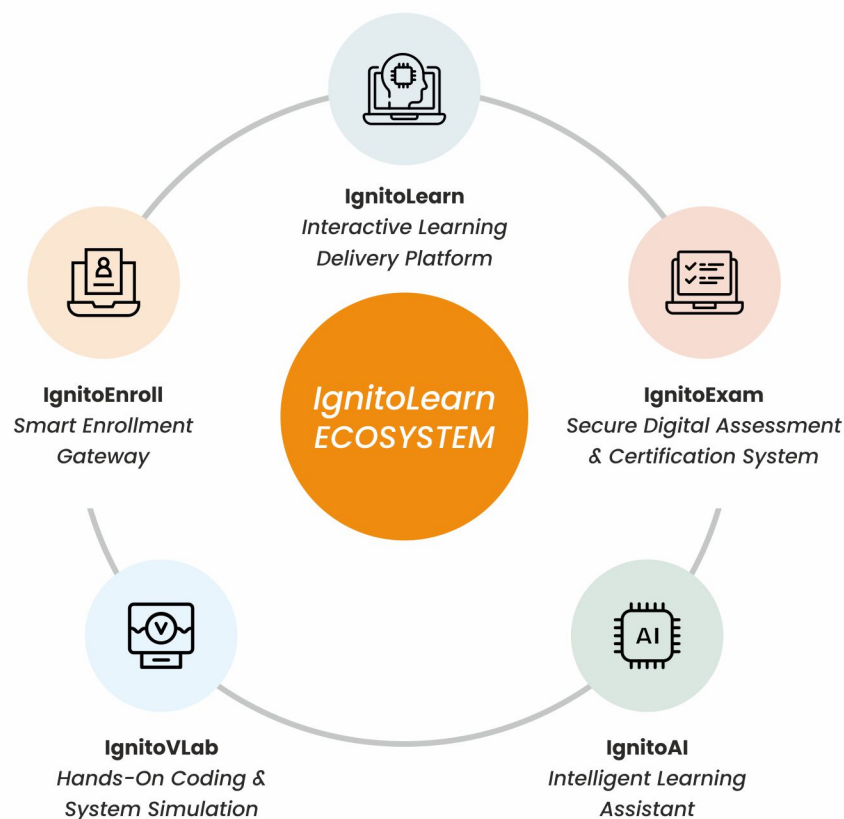
for raising of doubts and clarifying the same on real time basis by the Course Coordinator or his team.



Quadrant-IV is Assessment,

which shall contain; Problems and Solutions, which could be in the form of Multiple Choice Questions, Fill in the blanks, Matching Questions, Short Answer Questions, Long Answer Questions, Quizzes, Assignments and solutions, Discussion forum topics and setting up the FAQs, Clarifications on general misconceptions.

IgnitoLearn: Ecosystem



At the heart of IgnitoLearn are four core verticals, each addressing a critical pillar of the learning journey – from enrolment to learning, assessment, and intelligent support:

1. IgnitoEnroll : Smart Enrollment Gateway

A dynamic admission and course registration system that automates student onboarding with real-time dashboards, eligibility tracking, fee integration, and secure document handling.

2. IgnitoLearn : Interactive Learning Delivery Platform

IgnitoLearn is the heart of the LMS, built on a robust content delivery engine that adheres to the Four-Quadrant model, offering structured multimedia content, reading materials, self-assessments, and discussion forums with real-time engagement tracking.

3. IgnitoExam : Secure Digital Assessment & Certification System

IgnitoExam provides a secure and scalable platform for online assessments, assignments, quizzes, and proctored examinations. A flexible and scalable examination platform supporting objective/subjective tests, AI-proctoring, instant evaluation, certification, and analytics, ensuring academic integrity.

4. IgnitoAI : Intelligent Learning Assistant

IgnitoAI brings the power of artificial intelligence to personalize and optimize the learning journey. Powered by AI and data analytics, it delivers adaptive learning paths, personalized content suggestions, predictive insights, and chatbot support for both learners and educators.

5. IgnitoVLab: Hands-On Coding & System Simulation

The Virtual Lab (VLab) in IgnitoLearn provides a simulated, SaaS-based development environment for practical learning in computer science. It supports programming, system configuration, networking, and other CS disciplines without requiring local software setup.

UGC: Compliance

IgnitoLearn fully complies with the provisions and parameters recommended by the UGC committee for Non-SWAYAM platforms for Online Learning

Provisions



Security & Privacy



Assignment & Quiz Management



User & Course Management



Accessibility Across Devices



Collaboration & Communication

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Parameters



Ensuring the Quality of Courses



Organizational Setup...



Engaging & Assessing Students



Scalability



Security Features



Training Open Online Courses



Provision of Online Award...



Four Quadrant Approach



Flexibility



Methodology for Online Payment



Plagiarism Check Provisions



Keeping Students Informed



Online Assignments



Examination Support



Proctored Examination...



Dashboard Options...



Grouping Learners...



Adaptive Learning



Learning Communities



Peer Group Interaction



Learner Engagement



Asynchronous Engagement



Synchronous Engagement



Content Storage & Management

User Friendliness

IgnitoLearn: Technical Highlights

Cloud-Hosted or On-Premise deployment

Mobile-First Design Progressive Web App + iOS/Android compatibility

API Integrations: Zoom, Google Workspace, Microsoft Teams, payment gateways, etc.

LTI Support: Integrate with other educational tools and platforms.

Artificial Intelligence Intelligent Learning Assistant

Custom Branding for Programmes, Micro Credentials and Courses

Role-based dashboards for learners, faculty, administrators and authorities

Multilingual Support

Data privacy, encryption, and compliance with national digital education standards

IgnitoLearn: Security & Privacy Features

Data Encryption

At Rest & In Transit: All user data, content, and communication are encrypted using AES-256 and SSL/TLS protocols.

Secure File Storage: Course materials and personal files are protected with encrypted access controls.

Role-Based Access Control (RBAC)

Granular permission settings for Admins, Faculty, Students, and Guests.

Restricts unauthorized access to sensitive data and functions

Authentication & Access

Two-Factor Authentication (2FA) for Admins and Users (optional).

Single Sign-On (SSO) integration with institutional logins (Google, Microsoft, LDAP).

Login activity logs & session management.

Compliance

Aligned with GDPR, FERPA, and Indian IT Act best practices.

Clear data privacy policy and consent mechanisms for users.

Regular Backups & Disaster Recovery

Automated daily backups with version control.

Disaster recovery plan with uptime SLA of 99.9% on cloud deployments.

Security Testing & Monitoring

Periodic Vulnerability Assessments & Penetration Testing (VAPT).

Real-time server and app monitoring for unusual activity or threats.

Anti-Plagiarism & Academic Integrity

Integration with third-party plagiarism detection tools.

Secure exam environments with browser-locking and AI proctoring options.

IgnitoLearn and AWS : The most Secure Team

We have our own compliance and security certifications:

✓ ISO 27001

✓ ISO 27018

✓ ISO 27701

✓ ISO 27017

✓ SOC 1 Type2 + SOC 2 Type2



To go on top of the benefits of AWS Compliance and Security:



Full details available at <https://www.ignitolearn.com/security> and <https://aws.amazon.com/security>



For Students: ***Enhanced Learning Experience***

AI Tutor/Study Assistant An always-available chatbot trained on course materials.
Helps students with doubts, explains complex topics in simple terms.
Tracks learning gaps and gives personalized tips.

Interactive AI Video Lectures

Students can pause video lectures at any point and ask questions related to the topic being discussed.

AI analyzes the context of that exact video timestamp and provides real-time, topic-specific explanations or clarifications, just like a personal tutor.

Embedded AI-Powered Quizzes

Periodic quizzes are embedded within video lectures to boost engagement and reinforce learning.

These quizzes are context-aware and adapt based on student responses, helping to ensure better retention and deeper understanding.

Smart Summarizer & Note Generator

Summarizes video lectures, readings, or PDFs into key bullet points.
Auto-generates revision notes and mind maps.

Adaptive Learning Paths

AI tracks student progress and performance.

Dynamically adjusts the content difficulty and recommends next lessons or quizzes.

For Content Authors / Faculty : ***Ease of Content Creation***

AI-Powered Content Generator

Faculty can enter learning outcomes or topics.

AI suggests slides, lesson plans, video scripts, or reading content.

Auto Question Paper Generator

Faculty selects topic & difficulty.

AI generates a full question paper with answer keys.

Includes plagiarism check and shuffling feature.

AI-Powered Rubric-Based Answer Evaluation

Automates subjective answer checking based on rubric or model answers.

Gives fast feedback and scores, freeing up faculty time.

AI-Based Content Gap Analyzer

Compares syllabus with actual content.

Detects missing topics or weak coverage based on learning outcomes.



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Hackberry Softech Private Limited is a pioneering technology company committed to delivering cutting-edge software solutions, meticulously tailored to address the evolving needs of businesses across diverse sectors.

Our core expertise lies in custom application development, strategic IT consulting, and seamless system integration, leveraging next-generation technologies including Artificial Intelligence, Machine Learning, Blockchain, and Cloud Computing to create robust, scalable, and future-ready digital ecosystems.

With a proven track record spanning over five years, we have successfully partnered with more than 100 clients across India and internationally, proudly advancing the vision of the Make in India initiative.



***Catering to 100+
Customers in India and Abroad***

ignitolearn



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