

Advanced Modules for Online Learning Platform (Post-Completion)

1. AI-Based Personalized Learning Module

Smart learning experience

Features

- Personalized course recommendations
- Skill-gap analysis based on exams & progress
- Suggested next courses
- Learning path creation (Beginner → Advanced)

Advanced Concepts

- User behavior analysis
 - Recommendation algorithms
-

2. Live Classes & Virtual Classroom Module

Real-time learning

Features

- Live classes (Zoom / WebRTC integration)
- Class scheduling & reminders
- Live chat & Q&A
- Class recordings auto-saved
- Attendance tracking

Advanced Concepts

- Real-time communication
- Calendar & reminders

3. Advanced Assessment & Proctoring Module

Exam integrity

Features

- Timed exams with tab-switch detection
- Webcam-based proctoring (basic)
- Randomized questions
- Negative marking & grading rules
- Detailed exam analytics

Advanced Concepts

- Browser events tracking
 - Anti-cheat logic
-

4. Discussion Forum & Doubt-Solving Module

Community-driven learning

Features

- Course-wise discussion forums
- Ask & answer questions
- Instructor-verified answers
- Upvotes / accepted answers
- Moderation by admin/instructor

Advanced Concepts

- Threaded discussions
 - Moderation workflows
-

5. Gamification & Engagement Module

Student retention

Features

- Badges & achievements
- XP points for lessons & exams
- Leaderboards (course-wise)
- Streaks for daily learning

Advanced Concepts

- Rule-based reward engine
-

6. Subscription & Membership Module

Scalable monetization

Features

- Monthly / yearly subscription plans
- Access to selected or all courses
- Auto-renew & cancellation
- Free trial support

Advanced Concepts

- Recurring payments
 - Subscription lifecycle
-

7. Enterprise / Corporate LMS Module

B2B expansion

Features

- Company accounts
- Employee bulk enrollment
- Custom learning paths
- HR analytics dashboard
- Certificate branding per company

Advanced Concepts

- Multi-tenant architecture
-

8. Advanced Analytics, AI Insights & Prediction

Data-driven platform

Features

- Drop-out prediction
- Course improvement suggestions
- Instructor performance scoring
- Revenue forecasting
- Student engagement heatmaps

Advanced Concepts

- Predictive analytics
 - Aggregation pipelines
-

9. PWA, Mobile App & Offline Learning

Mobile-first experience

Features

- Installable PWA
- Offline video access (limited)
- Push notifications
- Mobile-optimized UX

Advanced Concepts

- Service workers
- Offline storage