

Annexure 9 Responses

1. User Management:

- (i) LMS provides feature of personalized dashboard from where user can track the performance. Dashboard also allows them to manage their profile and courses in which they have enrolled. Students can track the scores in quizzes/assignments. Admin dashboard provides access to the complete class wherein quiz scores and assignments submitted can be graded by the instructor.

The links for accessing the 11 programmes proposed by ManavRachna International Institute of Research and Studies is as follows:

<https://manavrachnaonline.com/mca/>

<https://manavrachnaonline.com/bca/>

<https://manavrachnaonline.com/bachelors-of-arts-honours-in-economics/>

<https://manavrachnaonline.com/b-sc-interior-design/>

<https://manavrachnaonline.com/b-sc-it/>

<https://manavrachnaonline.com/ba-h-applied-psychology/>

<https://manavrachnaonline.com/b-com/>

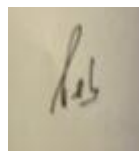
<https://manavrachnaonline.com/m-com/>

<https://manavrachnaonline.com/mba/>

<https://manavrachnaonline.com/ma-applied-psychology/>

<https://manavrachnaonline.com/bba/>

- Dashboard facility is available at the top of home from where Student/Faculty can check their courses. Faculty can create courses through dashboard using course builder feature.
- Students can learn at their own pace and can repeat the content as many times as they want. LMS has feature of content drip which ensures that students complete the desired prerequisites before moving on to the next topic.
- The platform is user friendly and quite simple to use by users who have basic knowledge of working with internet.
- The information has been presented in easy and clear language so that users can easily navigate through different sections of the platform for learning. Appropriate use of graphics has been done to ensure that users find the information interesting and useful



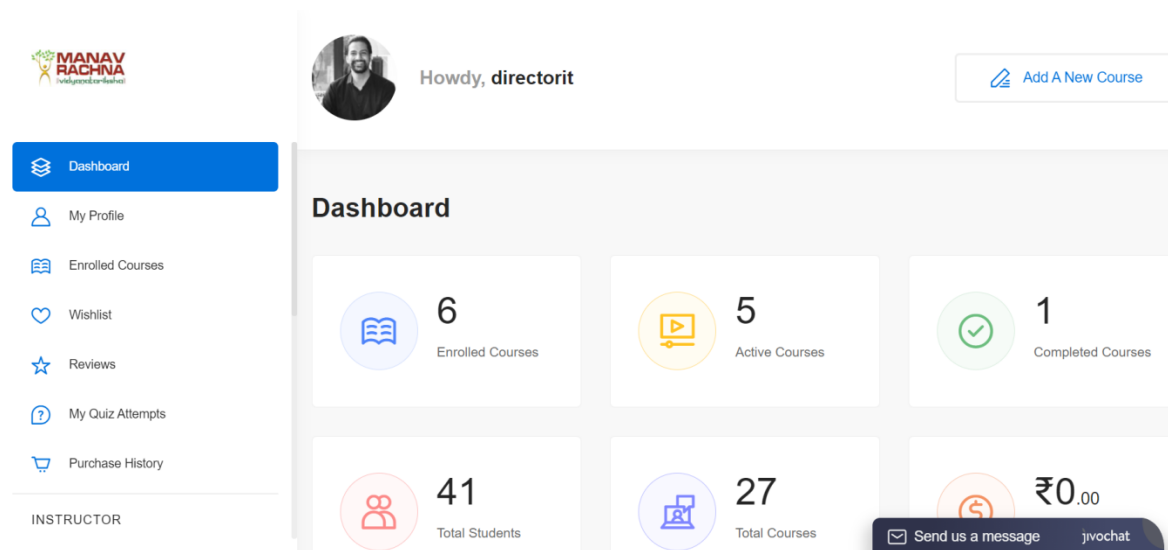


Figure 1.1: Dashboard of LMS showing different features

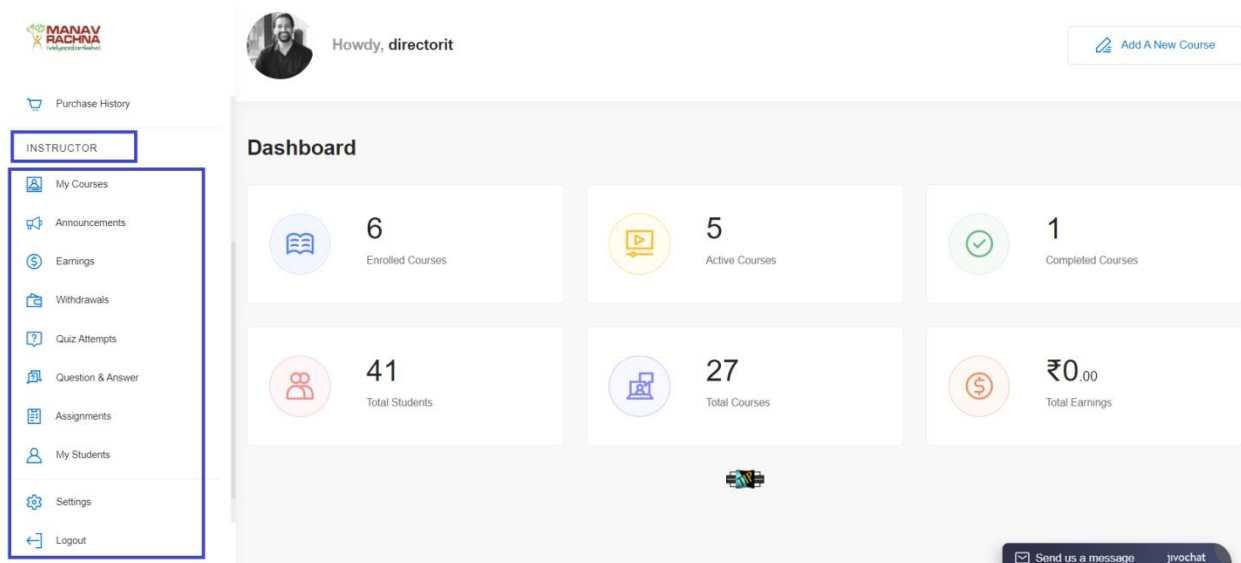


Figure 1.2: Instructor dashboard features for course management

(ii) Course Content Management:

LMS supports sharing of the teaching content in the form of PDFs, PPTs, DOCx, MP3, MP4 etc.

Link for one course is given below:

<https://manavrachnaonline.com/courses/introduction-to-it-programming-in-c/>

Dedicated media team works for production of the content. They are provided with latest tools and technologies for producing quality digital learning content. The multimedia data is stored on Vimeo Platform. We have 5 TB space on Vimeo for hosting the teaching content in audio/video format. 250 GB of storage space is also available on Hostinger cloud for hosting the website (LMS portal) and teaching resources in the form of text (PDFs, PPTs, DOCx etc.).

<https://vimeo.com/manage/folders/> (can be accessed only by admin & production team), videos are available for all 11 programmes.

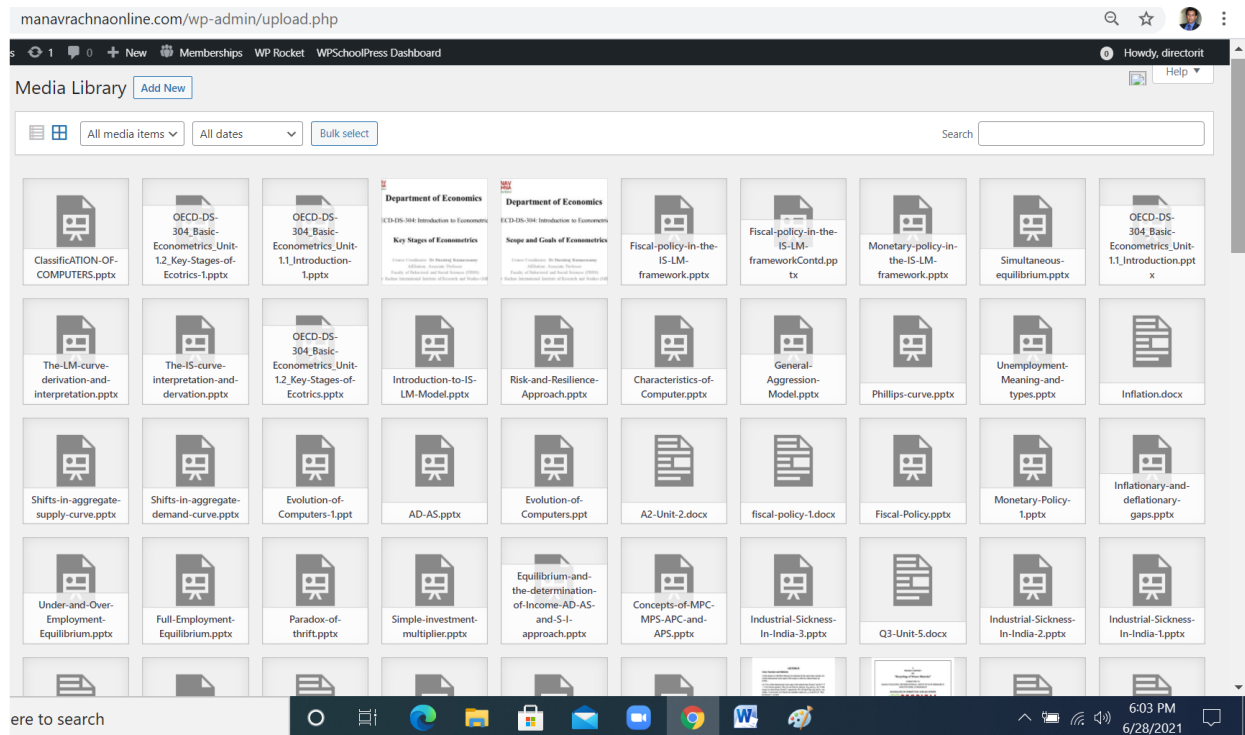


Figure 1.3: Snapshot showing Digital Media Library on the LMS portal containing different documents that are uploaded by the faculty members

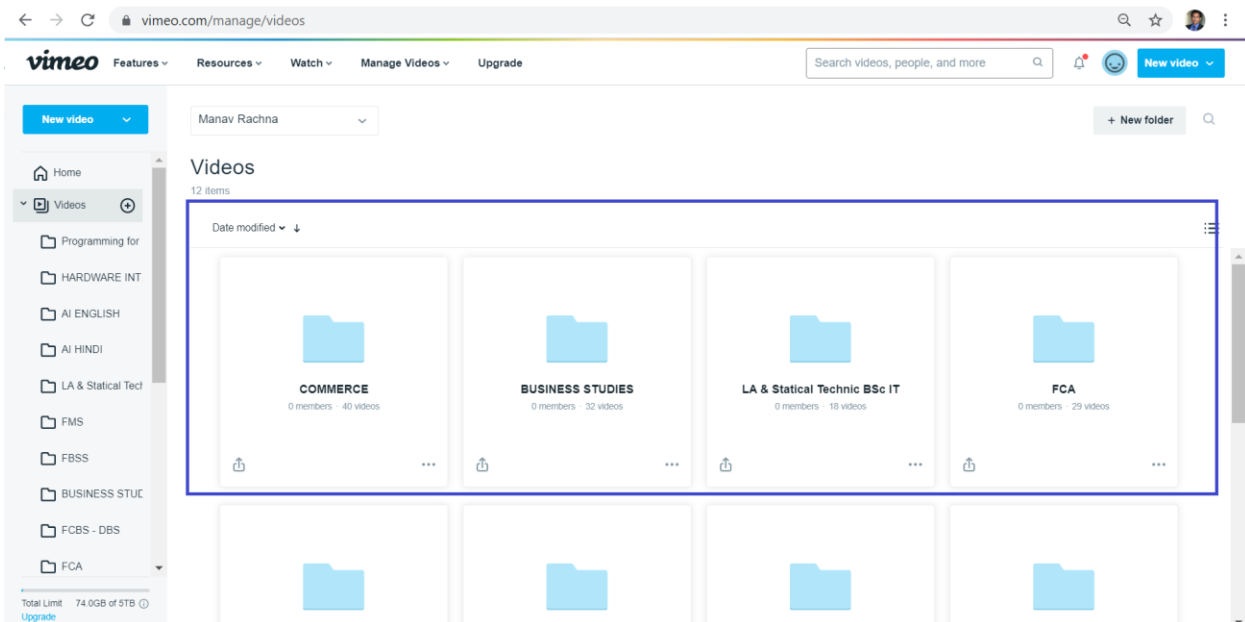


Figure 1.4: Videos hosted on Vimeo platform

(iii) Capability of Personalized Learning Experience:

Platform has content drip feature which can be used by the faculty to decide the flow of the delivery of course content. Figure 1.5 shows different features that are available with the faculty.

Figure 1.5: Content Drip feature that allows faculty to ensure that course content gets unlocked after finishing the prerequisites

2. Collaboration and Communication:

LMS allows the learners to interact with each other via online chats that can be done within the groups that are created under the LMS. For example one such group that is created can be seen on the following link:

manavrachnaonline.com/groups/fca/

Figure 1.6 shows the messages that have been exchanged in this group. In a similar way learners who will be inducted on the LMS will be given the access to these groups so that they can interact with each other.

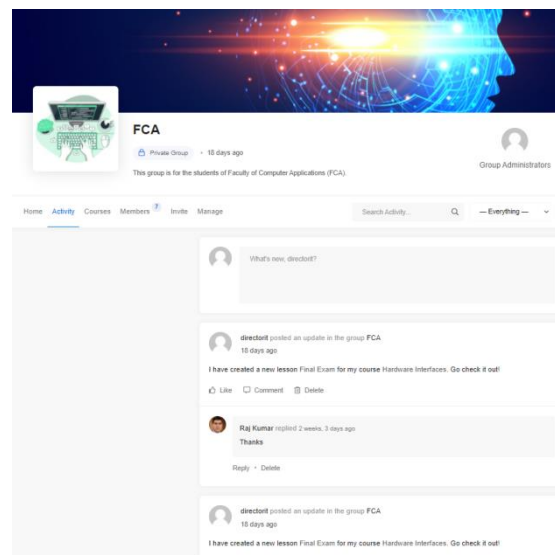


Figure 1.6: Interaction of Learners within the LMS community

3. Assignment and Quiz Management:

Faculty has the provision for creating quizzes and assignments which can be accessed by the students through the course page. Different options are available for setting up the quiz questions. Figure 1.7 shows the snapshot of the quiz questions that can be incorporated in the LMS.

Quiz [Close]

← Back

Write your question here

What is the significance of A register?

Question Type

True/False

- True/False
- Single Choice
- Multiple Choice
- Open Ended/Essay
- Fill In The Blanks
- Short Answer
- Matching
- Image Matching
- Image Answering
- Ordering

Input options for the question and select the correct answer.

Figure 1.7: Quiz question types that can be used by the instructor

Similarly for assignments learners can attach the PDF file which can be graded by the faculty. Figure 1.8 shows the snapshot of the assignment creation process.

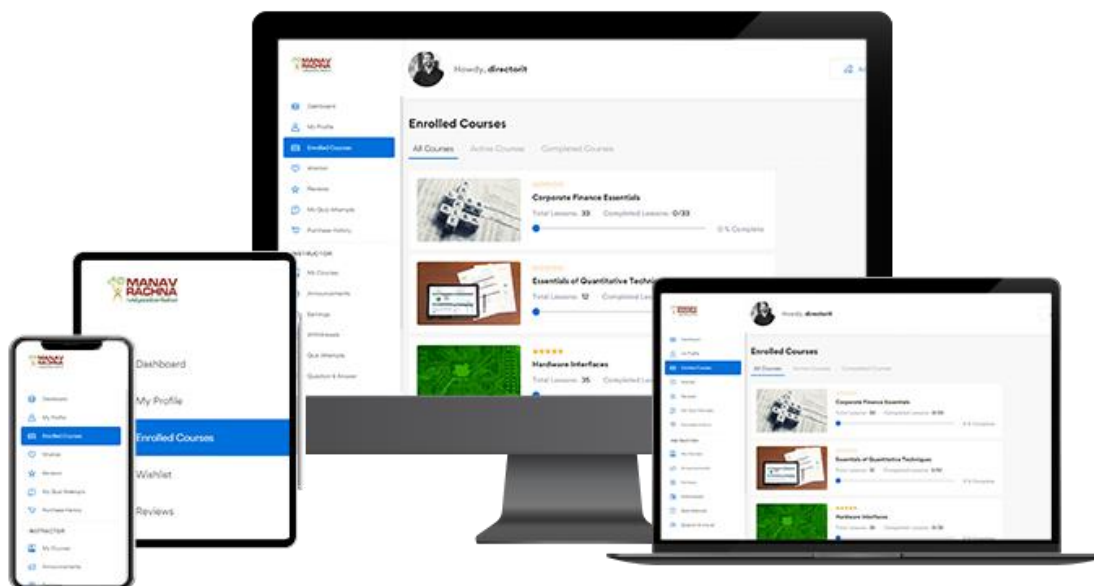


Figure 1.9: LMS layout for different screen sizes

5. Security and Privacy:

Privacy policies can be found on the following URL: <https://manavrachnaonline.com/privacy-policy/>

When visitors leave comments on the site we collect the data shown in the comments form, and also the visitor's IP address and browser user agent string to help spam detection.

II. Parameters for Assessment of Online Platform:

1. User friendliness:

The platform is user friendly and quite simple to use by users who have basic knowledge of working with internet. The information has been presented in easy and clear language so that users can easily navigate through different sections of the platform for learning. Appropriate use of graphics has been done to ensure that users find the information interesting and useful.

2. Content storage and Management provisions:

Dedicated media team works with Professors for production of the content. They are provided with latest tools and technologies for producing quality digital learning content. The multimedia data is stored on Vimeo Platform. We have 5 TB space on Vimeo for hosting the teaching content and management access is provided to selected members of the media team for ensuring privacy of data and also to effectively manage the uploading process of the digital content. We also have 250 GB of storage space on Hostinger cloud for hosting the website (LMS portal) and teaching resources in the form of text (PDFs, PPTs, DOCx etc.).

3. Synchronous Interaction Provisions:

Users have the facility for video/audio conferencing via Live Classroom & Live chat through Jivo chat plugin so that their queries can be resolved as early as possible. Figure 1.10 shows the live chat process screen shot.

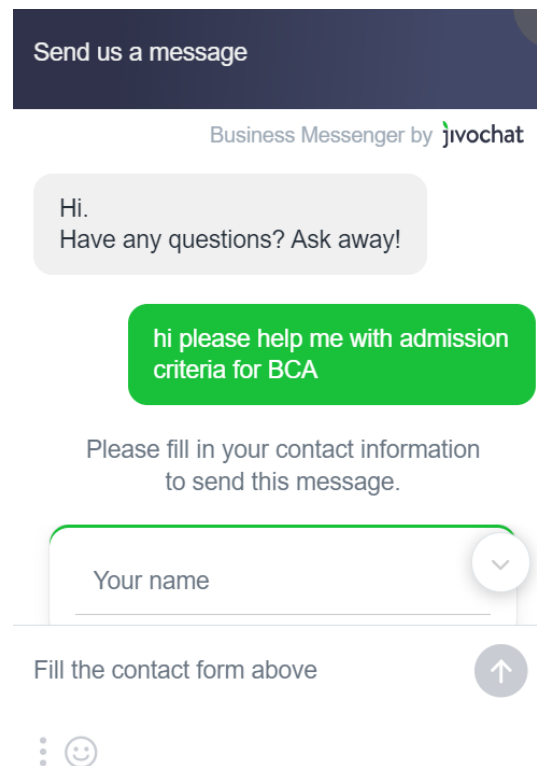


Figure 1.10: Live chat screen shot

4. Asynchronous Interaction Provisions:

Users have access to discussion forums so that they can learn better. Q&A section is used to manage all the student's questions in one place. This allows students to converse with instructors and one another.

Link for recorded Live Class is as follows:

<https://manavrachnaonline.com/wp-content/uploads/2021/06/samle-lecture.mp4>

5. Learner engagement provisions:

The content has been designed so that students find it useful with lot of case studies and practical applications related to the content being covered in the video lectures. The quizzes and assignments are also designed keeping in view the application areas of the concepts learnt.

Users can access the content easily using their ID and password through which they can login to the LMS portal and from there they get access to the courses for which they have enrolled. Link with student username & password is given below:

<https://manavrachnaonline.com/courses/hardware-interfaces/>

(Student username & Password: username: shaveta26@gmail.com, password: Shaveta1@)

6. Peer group interaction provisions:

LMS has integration with Buddy Press to make student communities within the LMS so that they can share their thoughts with each other and learn from each other via discussions. Link to check is as follows:

<https://manavrachnaonline.com/groups/fca/>

7. Learning Communities/Research forums:

For collaboration, communities have been made by making use of Buddy Press feature of the LMS. Even integration with GitHub has been done so that researchers will have the access to the official GitHub repository of the University and also to the discussion forums. For cross check use the link:

<https://github.com/mriirsfd/bca>

username:arunk.fet

password:god786661

8. Adaptive learning provisions:

Course Coordinators recognizes the slow and advanced learners on the basis of their performance in internal and external exams. The co-ordinator arranges for the remedial classes for the slow learners. In addition to that, peer group tutor-tutee groups are also formed and the practice of collaborative learning amongst the students for advanced learners is also planned.

9. Provision for grouping the learners with different mentors:

Learning community is available on LMS where each mentor can connect to 250 learners. Link to check is as follows: <https://manavrachnaonline.com/groups/fca/>

10. Dashboard option for all stakeholders:

Available for instructors, students and admin person as highlighted earlier in point 1.

11. Proctored examination methodology:

The proctored examinations are conducted through Mettl platform. The features of the platform are as follows: Audio Proctoring, Video Proctoring supported by Artificial Intelligence, Image Proctoring, Facial recognition, email and ID card validation. For faculty the facility is available for question bank creation and setting up the question paper according to various difficulty levels and assessment tools.

12. Examination support:

Instructor has rights to create different assessments on the Learning Platform. Different types of assessments for online degree courses are:

- a. Online Quizzes
- b. Open Ended /MCQs/Essay questions
- c. Drag & Drop Activities
- d. Online Interviews
- e. Dialogue Simulations
- f. Online Polls
- g. Game Type Activities
- h. Peer Evaluation & Review
- i. Forum Posts
- j. Project/Group Activities

And others vary from course to course. Instructor can also control the number of attempts that a student can take while attempting the course. Passing criteria for assessments can also be easily set in the LMS. One example of quiz is shown through link & login credentials as given below:

https://manavrachnaonline.com/courses/introduction-to-it-programming-in-c/tutor_quiz/quiz-on-basics-of-computers/

(username: kavita.fca@mriu.edu.in, password: hello7980)

13. Provision for online assignment creation, submission and grading:

Facility is available with instructors to create assignments.

- (i) The evaluation will include two types of assessments; (i) Continuous or formative assessments (in the form of end semester examination or term examination. Weightage of assessments are as follows:

For continuous or formative assessment (in semester): Maximum 30 percent. The categorization for the same is:

MCQs	30%
Subjective (Short/Long)	40%
Discussion/Presentation	15%
Projects/Group Activities etc	15%

- (ii) For summative assessment (end semester examination or term end examination):

Minimum: 70 percent. Categorization for the same is:

Objective Type Questions: 30%

Short/Long Questions: 70%

Passing Criteria in Internal Assessment/ Continuous Evaluation and External/ End Semester Evaluation:

Student will be declared pass in the subject if he/she scores jointly 40% marks in Internal Assessment / Continuous Evaluation and External/ End Semester Evaluation.

Marks or grades obtained in continuous assessment and end semester examinations or term end examinations shall be shown separately in the grade card.

- (ii) Grading System

Grade	Grade Point (GP)	Description of performance	Recommended range of marks in percent	Expected number of students in a Grade
O	10	Outstanding	95 – 100	0
A+	9	Excellent	85 – 94.9	Not > 10%
A	8	Very Good	75 – 84.9	Not > 15%
B+	7	Good	65 – 74.9	Not > 15%
B	6	Above Average	55 - 64.9	Not > 40%
C	5	Average	45 – 54.9	Not > 10%
P	4	Pass	40 - 44.9	Not > 10%
F	0	Fail	0-39.9	Not > 10%
AB	0	Absent		0
AP		Audit Pass		0

14. Availability of tools to keep students informed about activities, performance etc.

Announcement feature of the LMS can be used by the instructors to achieve this task. Snapshot of Announcement feature is as follows:

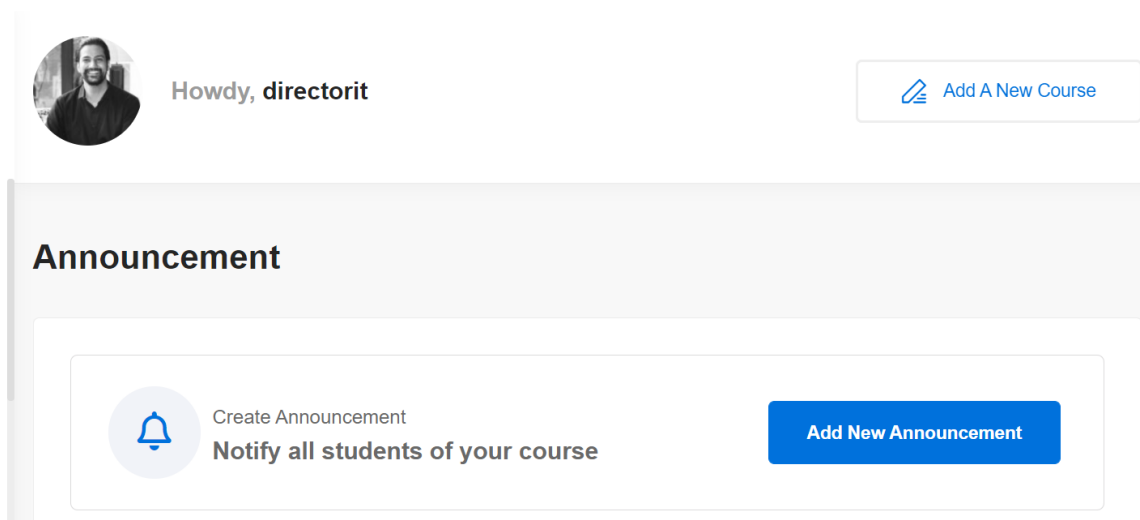


Figure 1.11: Snapshot showing Announcement feature of LMS

15. Plagiarism check provision

A student/researcher/faculty/staff is required to have ethical and moral values in his academic pursuit. The student/researcher/faculty/staff is expected to produce and submit the original and genuine work. In the present era, huge amount of information is available on the internet and online as source material. In this context, plagiarism has become a serious problem. Recently, University Grants Commission's (Promotion of Academic Integrity and Prevention of Plagiarism in Higher Educational Institutions) Regulations, 2018 published in Gazette of India, has come into the force. Thus, in compliance of the UGC's Regulations, MRIIRS, Faridabad is also exercising the following regulations pertaining to plagiarism.

Access of Urkund&Turnitin software is given to the instructors for checking content plagiarism. User can check plag using his/her credentials through:

<https://manavrachnaonline.com/anti-plagiarism/>

University Plagiarism policy document can be checked through:

<https://manavrachnaonline.com/wp-content/uploads/2021/07/plagiarism-policy.pdf>

16. Methodology for online payment gateway

Available through RazorPay payment gateway.

17. Flexibility:

The design of LMS is responsive and it works well on devices with different screen sizes. It works well on Mobile phone, Tablet and PC/Laptop. Responsive design, suitable for different screen sizes and support for major browsers like chrome, Firefox, internet explorer, edge etc. has been tested.

18. Support for standard for quadrant approach, which is followed by SWAYAM

Programme Coordinators and Course Coordinators have attended various counselling sessions/workshops/seminars to understand the design and development of E-content in four quadrant approach. Quadrant I shall be e-tutorial, audio/video content/animations/virtual Labs etc. Quadrant II shall contain self-learning material, e-books, illustrations, case studies, presentations etc. Quadrant III including discussion forum & real time doubt sessions. Quadrant IV includes various assessments such as multiple choice questions, fill in the blanks, short & long questions etc. E-Content for all three semesters of UG

programmes & for two semesters of PG programmes is available on the LMS portal in four quadrant approach. Link and login credentials of one user are given below:

Username: rajkumar.fca@mriu.edu.in

Password: hardware@123

Link: <https://manavrachnaonline.com/courses/hardware-interfaces/>

19. Provision for online award of certificates/degree

Examination function in the education system of a Higher Education Institute holds a pivotal position. It's the much avowed objective of any HEI to ensure that the students during the tenure of their education acquire the Graduate Attributes (GAs), Programme Objectives (POs), Programme Educational Objectives (PEOs), Programme Specific Objectives (PSOs) and Course Objectives (Cos) of different courses. These objectives have to be suitably aligned and measured in an Outcome Based Education. Evaluation through examinations- both formative and summative provides the necessary prime mover to accomplish this all- important task. Therefore a sound, robust, transparent and technology-enabled examination system with high reliability and fidelity has to be a *sine quo non* practice in an HEI for it to prosper and inspire confidence in its stakeholders.

Adhering to the above, MRIIRS have in place a time-tested examination system in place which has incorporated the aforesaid basic tenets. We continuously continue to hold consultative meetings for ushering in reforms to bring about accretion to efficacy and integrity of our examination system. Technology and various psychometric techniques are leveraged to enhance the quality level of the system.

SOPs of conduct of online examination, question paper management, moderation of question paper, evaluation, online showing evaluated answer sheets, unfair means cases, moderation, result preparation declaration and grievance handling are well defined and available on MRIIRS portal.

20. Proposed methodology to train the faculty to effectively design develop and deliver MOOCs

Frequent webinars/workshops are conducted to train faculty to design, develop and deliver online courses. Guidelines are framed to design e-content more effective, ensuring quality sound, video, use of graphics, animation, plagiarism check, use of different assessment tools etc. are explained to faculty. SOPs on above areas are available on:

<https://manavrachnaonline.com/wp-content/uploads/2021/07/SOPs-for-online-content-converted-MOOC.pdf>

21. Security features from transparency and credibility perspective

LMS provides password protected access to the users to ensure privacy of their personal information/credentials. Password recovery procedure is also in place in case any user forgets the password for accessing the LMS. The LMS is hosted on the server of Hostinger which has **advanced security modules** (such as Apache mod_security, Suhosin PHP hardening, PHP open_basedir protection and others) that allow high security levels. The privacy policies are also clearly mentioned on the website and can be accessed on the following:

<https://manavrachnaonline.com/privacy-policy/>

IP tracking is in progress. Snapshot is shown below:







FILTER: All Online Changed IPs Returning Search Engine External Referrer Organizations Campaigns							
Results 1 to 3 (returned 3) from 27 total visitor log records				Go To: 1	Results: 10	PREV	NEXT
Geo Location Stats	IP ISP Activity				Last Active TAG		
 online > Zoom-In Visits: 1 Recent page views: 3 Lucknow, Uttar Pradesh India	IP: 49.36.181.77  From: > NO REFERRER DATA Landed: unit2 Ecosystem - Online Programmes https://manavrachnaonline.com/ecosystem/				Record ID 561 2 min, 48 sec ago June 28, 2021 01:53:52 PM ALERTS TAG IP		
 online > Zoom-In Visits: 1 Recent page views: 25 Faridabad, Haryana India	IP: 59.160.103.98  ISP: vsnl.net.in Host: vsnl.net.in From: > NO REFERRER DATA Landed: Online Programmes - Quality Education For All https://manavrachnaonline.com/				Record ID 539 2 min, 59 sec ago June 28, 2021 01:53:41 PM ALERTS TAG IP		
 online > Zoom-In Visits: 1 Recent page views: 2 New Delhi, National Capital Territory of Delhi India	IP: 122.161.245.183  ISP: 122.airtelbroadband.in Host: 122.airtelbroadband.in From: > NO REFERRER DATA Landed: Linear Algebra & Statistical Techniques - Online Programmes https://manavrachnaonline.com/courses/linear-algebra-statistical-techniques/				Record ID 538 17 min, 27 sec ago June 28, 2021 01:39:13 PM ALERTS TAG IP		
Results 1 to 3 (returned 3) from 27 total visitor log records				Go To: 1	Results: 10	PREV	NEXT

Figure 1.12: IP tracking facility on the LMS

22. Scalability

Maximum Users: No Limit

Simultaneous Login Users: Current IT infrastructure which is in place can accommodate 30K concurrent users without any performance issue.

23. Proposed methodology to ensure that faculty engages with the student, motivates them and assesses them

Learning Community has been established on GitHub for faculty Student interaction & engagement. Moreover faculty involves students in projects; case studies so as to ensure that they remain focussed in their studies and also appreciate the learnings they are getting from online programmes are handy from their career prospective.

24. Provision for an appropriate organizational setup in HEI for maintaining and running the platform

Organisation setup for maintaining and running LMS platform is as follows:

Organisation Setup for maintaining & running LMS Platform

Director	Prof.(Dr.) Pardeep Kumar
Deputy Director	Prof.(Dr.) Shaveta Bhatia
Assistant Director	Dr.MridulaBatra
Academic Counsellor	Mr.Arun Kumar

For Delivery of Online Programmes	
Chief Technical Manager(LMS and Data Management)	Dr.UmeshDutta
Technical Assistant (LMS and Data Management) minimum two	Mr.Vikas Sharma Mr.Devdutt
For Admission and Examination for Online Mode	
Technical Manager(Admission) Technical Assistant(Admission)	Ms.Asha Rani Mr.Amit Kumar Singh
Technical Manager(Examination) Technical Assistant(Examination)	Dr.N.K.Sharma Mr. Rahul
Technical Team for Development of e-Content as Self Learning e-Modules	
Technical Manager(Production)	Ms.Khushboo
Technical Associate (Audio- Video recording and editing)	Mr.Ravinder Kumar
Technical Assistant (Audio-Video recording)	Mr.Dushyant
Technical Assistant (Audio-Video Editing)	Mr. Deepak

25. Proposed methodology to ensure the quality of courses

ManavRachna International Institute of Research & Studies has a Quality Assurance System which is closely aligned to norms and standard of the UGC, NAAC and other regulatory bodies having jurisdiction over the University system. The system take cares of the objectives of the state policy for higher education and to meet the aspirations of its various stakeholders. The system keeps itself constantly updated to the changing quality assurance standards of the various regularity bodies as implemented from time to time.

IQAC will address the following broad areas namely:

1. Governance, Leadership & Management, Organisational structure & Governance, Management ,Strategic Planning, Operational Plan, Goals & Policies.
2. Programme Development and Approval Processes-Curriculum Planning, Design and Development, Curriculum Implementation, Academic Flexibility, Learning Resource & Feedback System.
3. Programme Monitoring and Review
4. Infrastructure Resources
5. Learning Environment & Learning Support
6. Assessment and Evaluation
7. Teaching Quality & Staff Development

The details of constitution of IQAC, its functions are available in the link given below:

<https://manavrachnaonline.com/iqac/>

<https://manavrachnaonline.com/wp-content/uploads/2021/07/IQAC-Policy.pdf>

Useful Resources

1. LMS Landing Page

<https://vimeo.com/569902791>

2. Creating a student account and enrollment in a course

<https://vimeo.com/569903479>

3. Proctored Examination

<https://vimeo.com/569946453>

4. Creating a Course on LMS

<https://vimeo.com/569963759>

5. Scheduling a Live Class

<https://vimeo.com/569970355>

6. Proctored Examination Link:

Test Link: <http://tests.mettl.com/manavrachnaonline>

Key: 38qjapq5mo

7. Learners Group: <https://manavrachnaonline.com/groups/fca/>

8. Video Gallery: <https://manavrachnaonline.com/video-gallery/>

