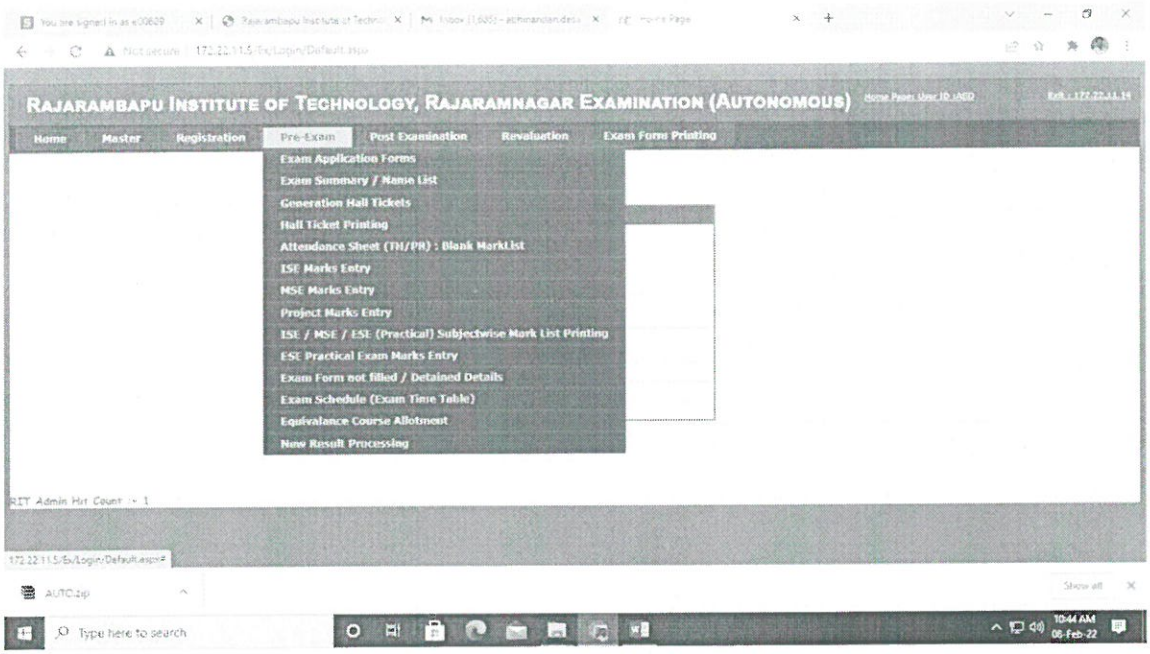
2.5.3 IT integration and reforms in the examination procedures and processes including Continuous Internal Assessment (CIA) have brought in considerable improvement in Examination Management System (EMS) of the Institution

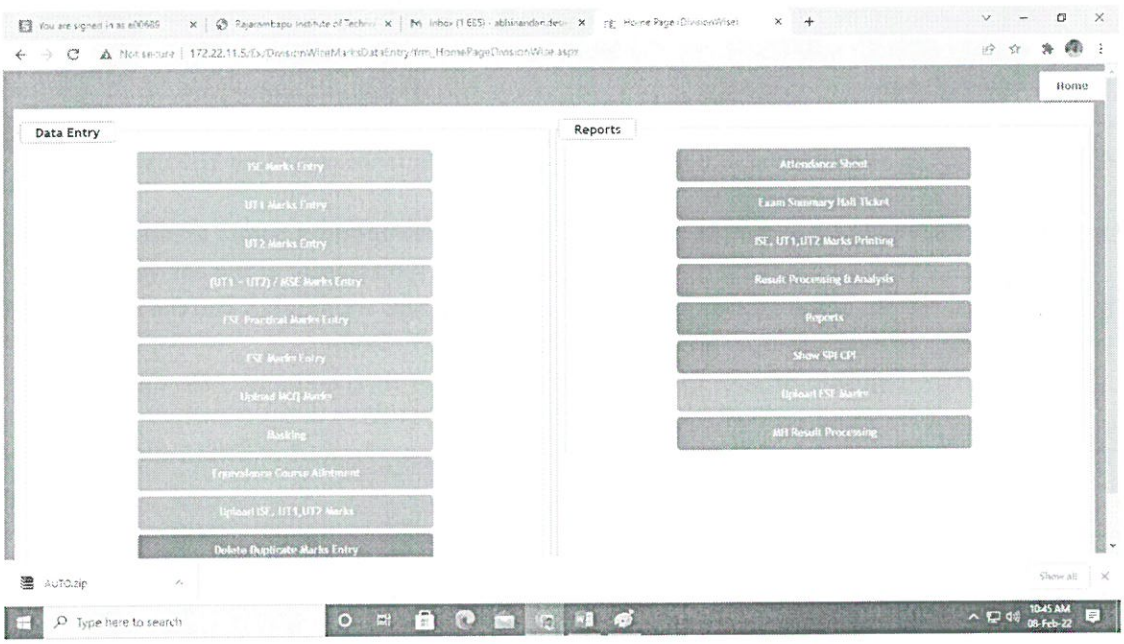
IT integration and reforms made in the examination procedures and processes are:

1) Examation Management Systems(EMS)

Examination Management System (EMS) has been developed in-house. This EMS is password protected and server based system. It is not connected to internet and cloud hence there no possibility of this system being hacked. Following functionalities are vailable in the EMS:

1. Add the courses structure in the application
2. Collect Students Data from Student section for allotment of the Courses.
3. Feeding or import the Marks of In Semester Evaluations (ISE) / Unit Tests (UT) and End Semester Examinations (ESE) and generate the mark sheets which are then verified by the concerned course teachers.
4. Collect "XX" (students is assigned an "XX" grade when student fails to complete the academic requirements due to poor attendance or poor performance in the academic assessments) student list from the Academic Development Committee and feed the same into the Software.
5. Generate Exam Form and Hall Tickets (Entry Tickets) for the End Semester Examinations.
6. Create Seating arrangement and generate Students Attendance report for Theory and/or Practical and oral examinations.
7. Masking Code generation for the masking of students answer books before assessment. This ensures that student's identity is not disclosed during to the assessor of the answer books.
8. When assessment of the answer books is over bitwise marks are entered into the system.
9. When marks of all the courses are entered results are processed.
10. Similar to the regular exams Re-Exam, Re-registered students exams and Make up exams can be added to the system and all the above steps can be applied to these exams.
11. Provision has been made in the system for students to apply for Re-Exam via both Online and Offline mode
12. Correlating the courses from the pre-revised curriculum with Equivalent courses in the revised curriculum.
13. When all results are processed following reports can be generated from the system:
    a. Result ledgers.
    b. Semester Grade Point Average (SGPA) of each student.
    c. Semester Grade Point Average (SGPA) of each student.
    d. Print pass/fail summary.
    e. Print the grade cards
    f. Print the official transcripts.
    g. Generate the reports on course wise distribution of grades.





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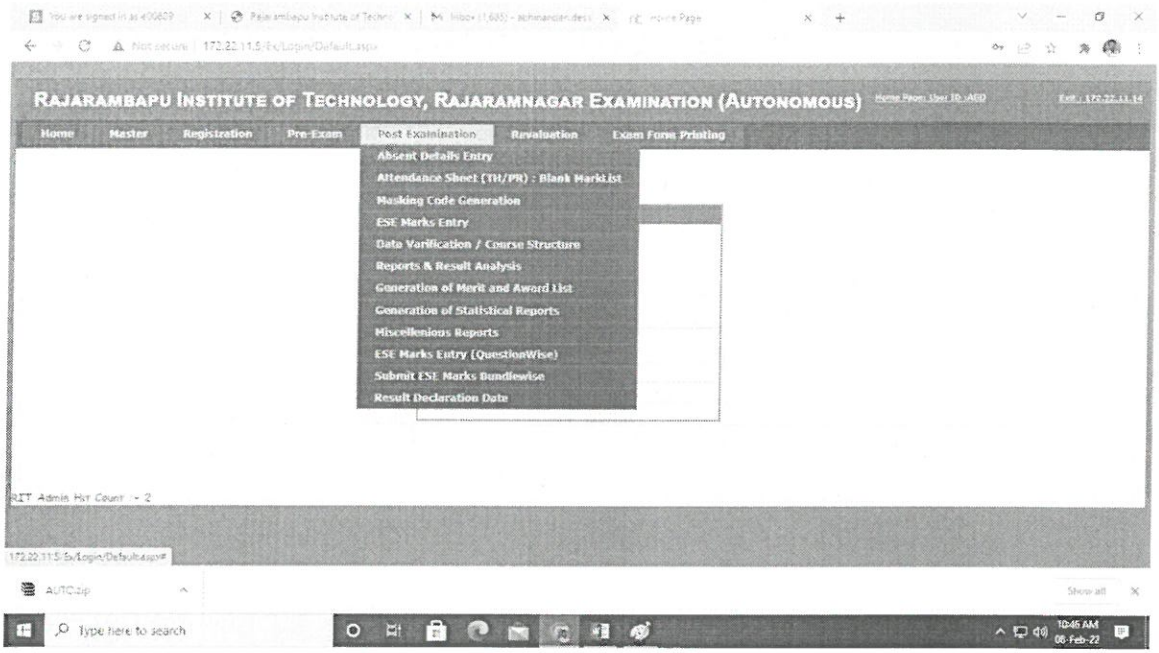

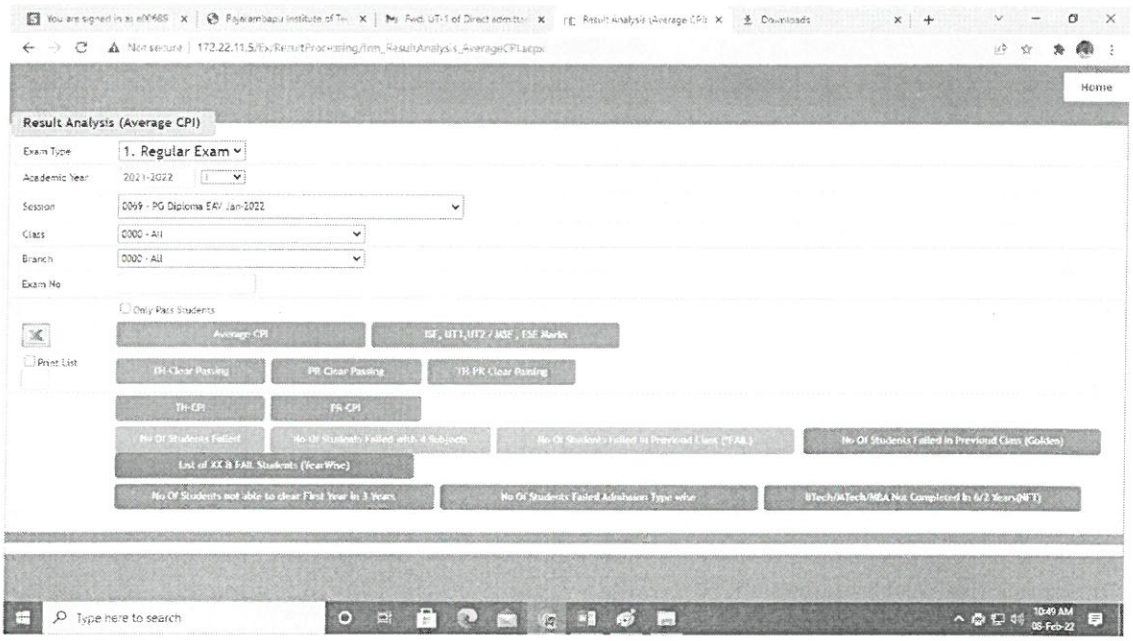

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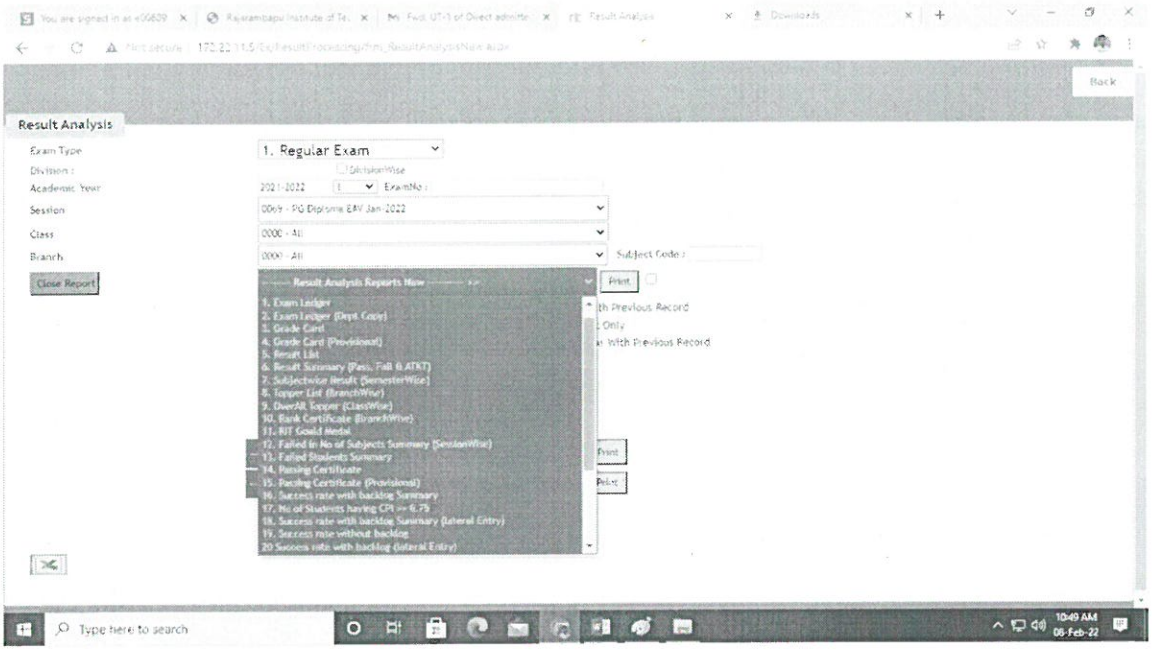
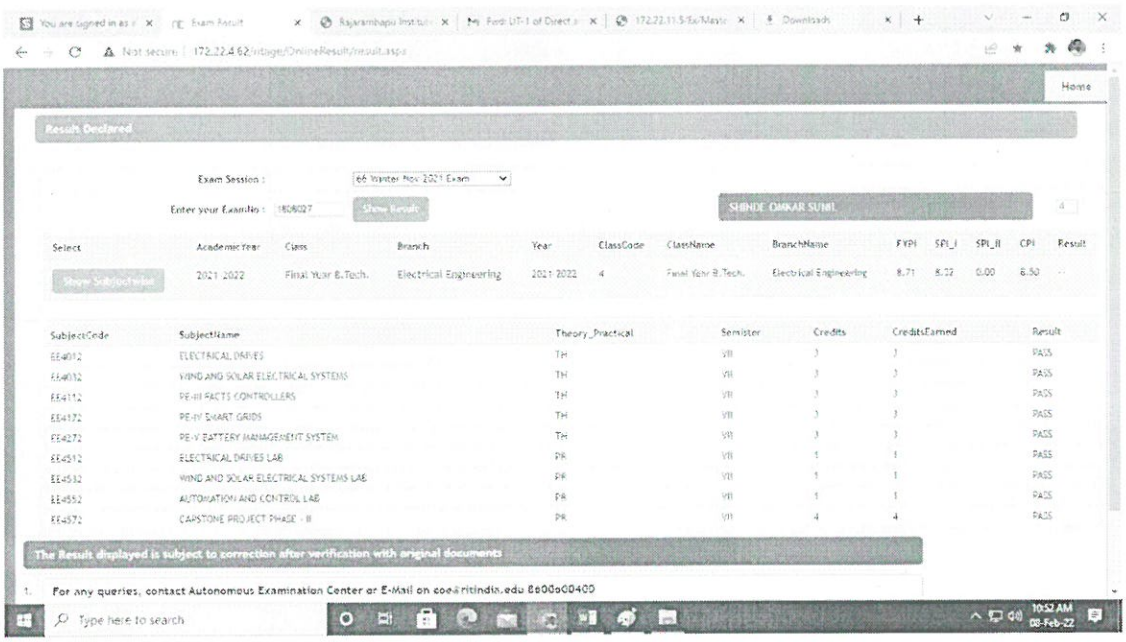


Exam Result Link:--

http://172.22.4.62/ritage/OnlineResult/result.aspx



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Institute has subscribed to the Online Examination Platform of SHL. This platform is used to conduct the online examinations of any type like a) Multiple Choice Questions (MCQs).

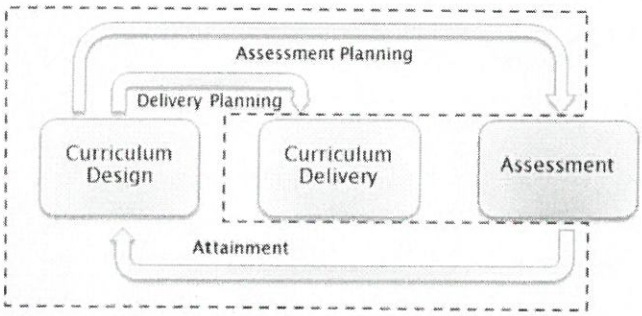
All the exams of courses on Computer Programming Languages, courses using the CAD softwares like Engineering Graphics, Machine drawing etc. are conducted in an online mode only.

Institute has subscribed to the IonCudos software of IonIdea, Bangalore. This software is used for implementation of Outcomes Based education (OBE) implementation. Some of the functionalities available in this software are:

- Calculation of attainment of Course Outcomes (COs).
- Calculation of attainment of Program Outcomes (POs).
- Calculation of weightages of the questions in the question paper as per Bloom's Taxonomy etc.

Curriculum Management System in IonCudos:

Curriculum management system has three sub-systems. Curriculum Management System focuses on the first sub-system, Curriculum design. It provides seamless integration inputs to the other two sub-systems i.e delivery planning for Curriculum Delivery and assessment planning for Assessment. Scope of IonCUDOS© is outlined with the dotted line in the above figure. It needs the Assessment result as input for generating the attainment reports that helps to fine tune the present Curricula and also improve the future Curricula of Institution.



Functions of the course owner in IonCudos:

The challenges faced at the Course Owner level:

- To set topic level outcome and bloom's level.
- To map topic outcomes to Course Outcomes for delivering Program Outcomes.
- To adopt delivery methods and to employ assessment methods for assessing the effectiveness of the delivery.
- To overcome the preoccupancy in the volume of data and rigor of mapping.

Curriculum Design Workflow in IonCudos:

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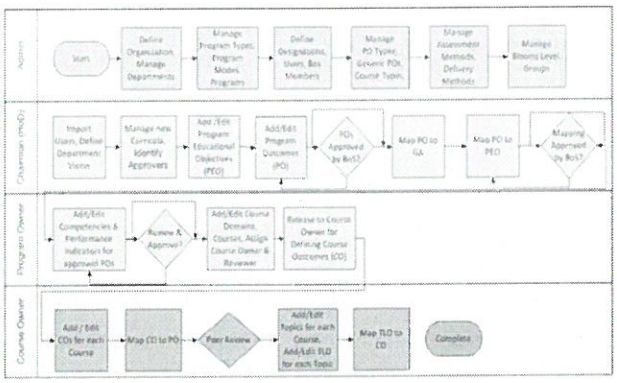
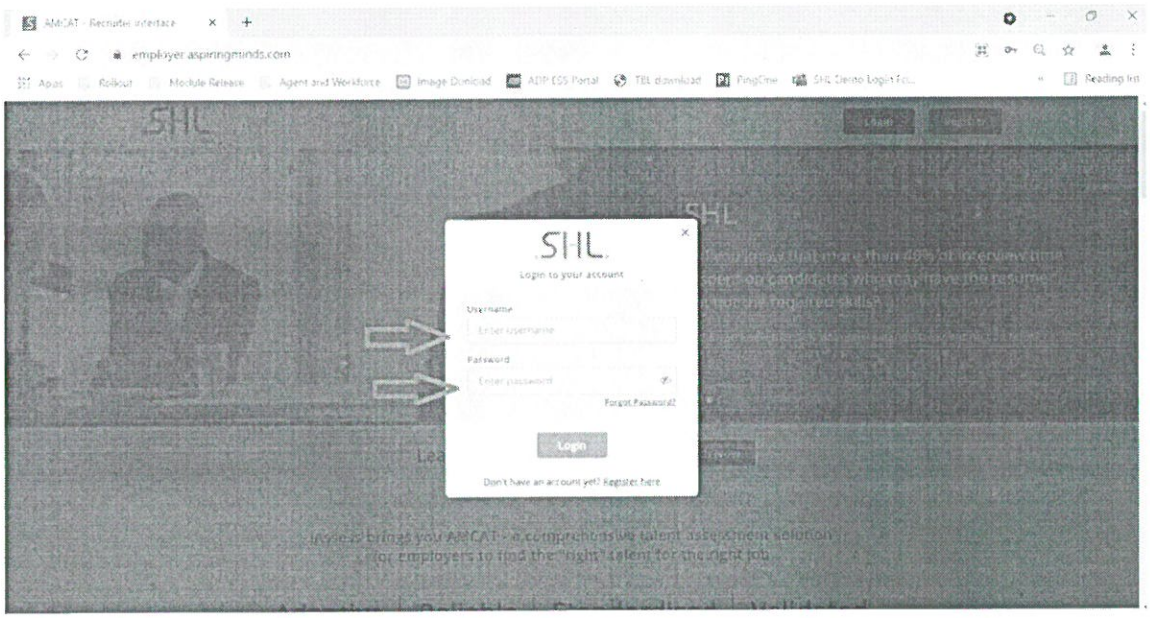


2) Online Examination Systems (SHL Platform)

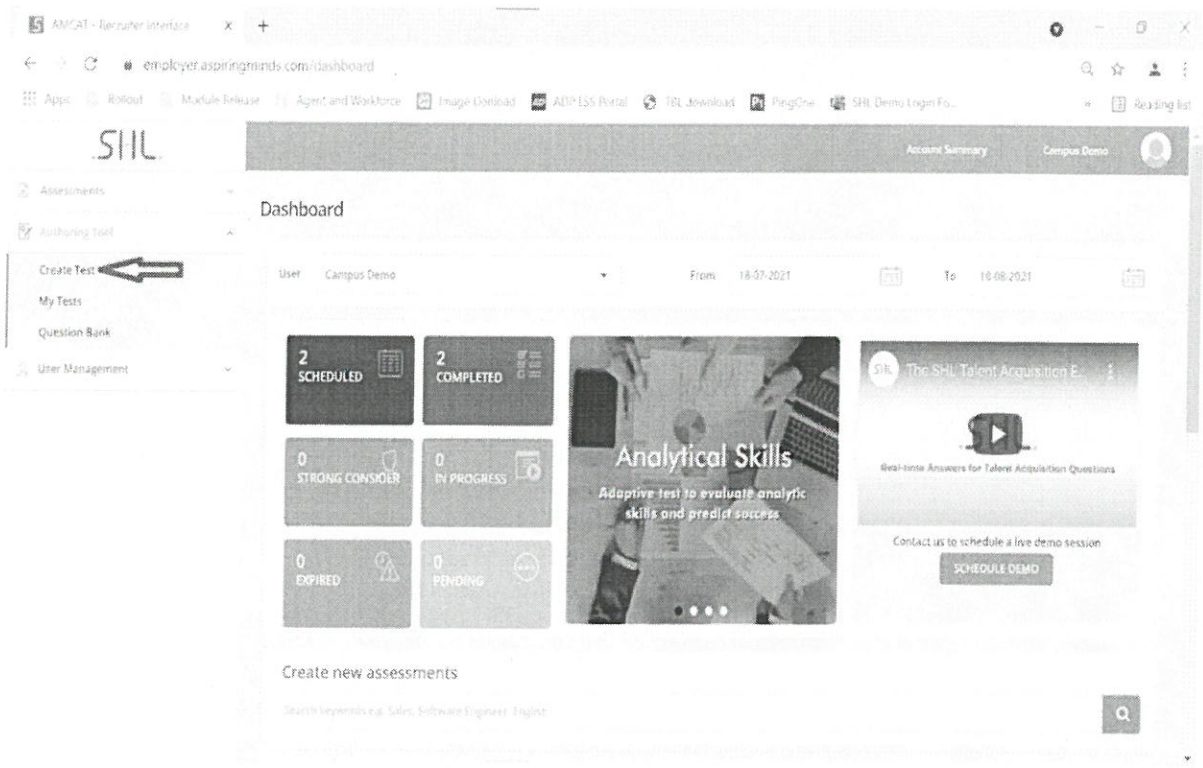
Proof of SHL Platform

1. Open the given link.

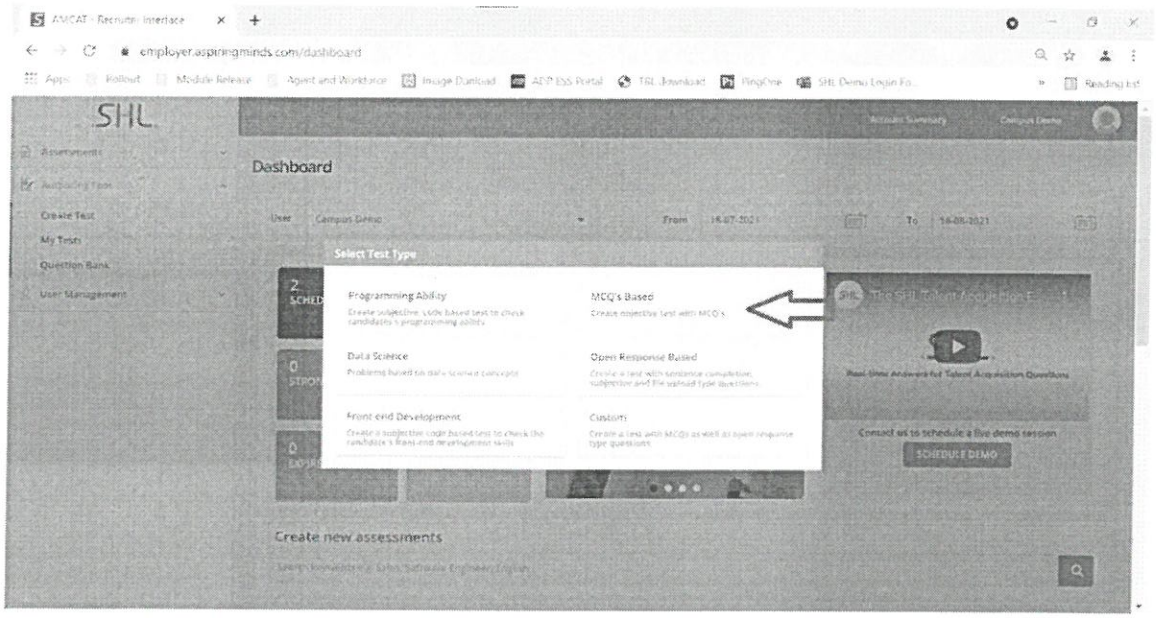
Link - https://employer.aspiringminds.com/



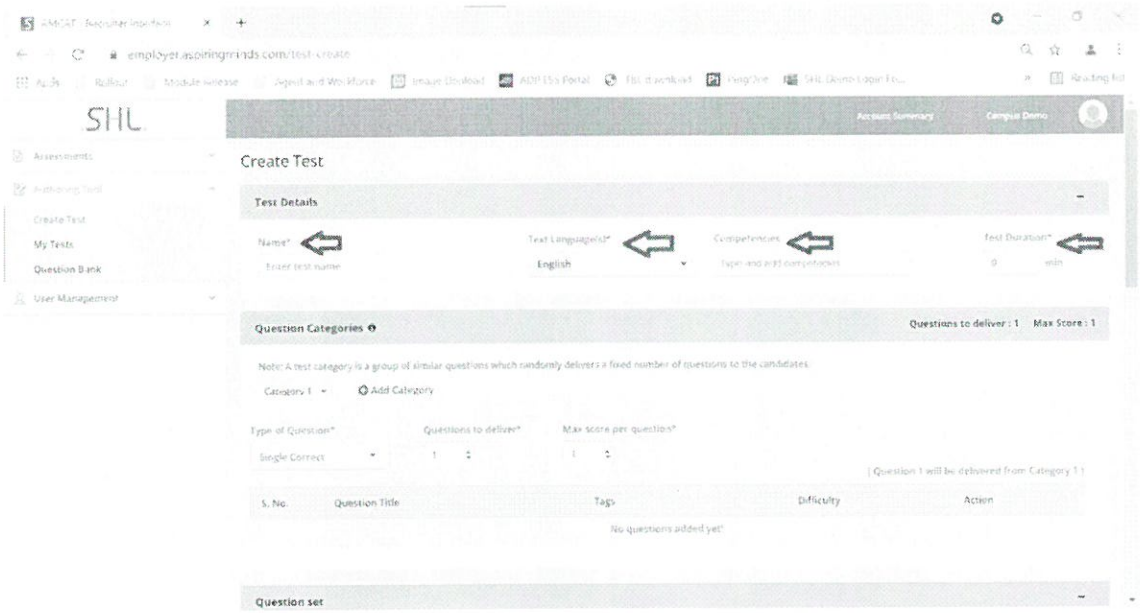
2. Three options will appear on choosing the authoring tool, please select "create test" to create a new paper.



3. Six options will appear, choose "MCQ's based".



4. Question categories after preparing the questions.



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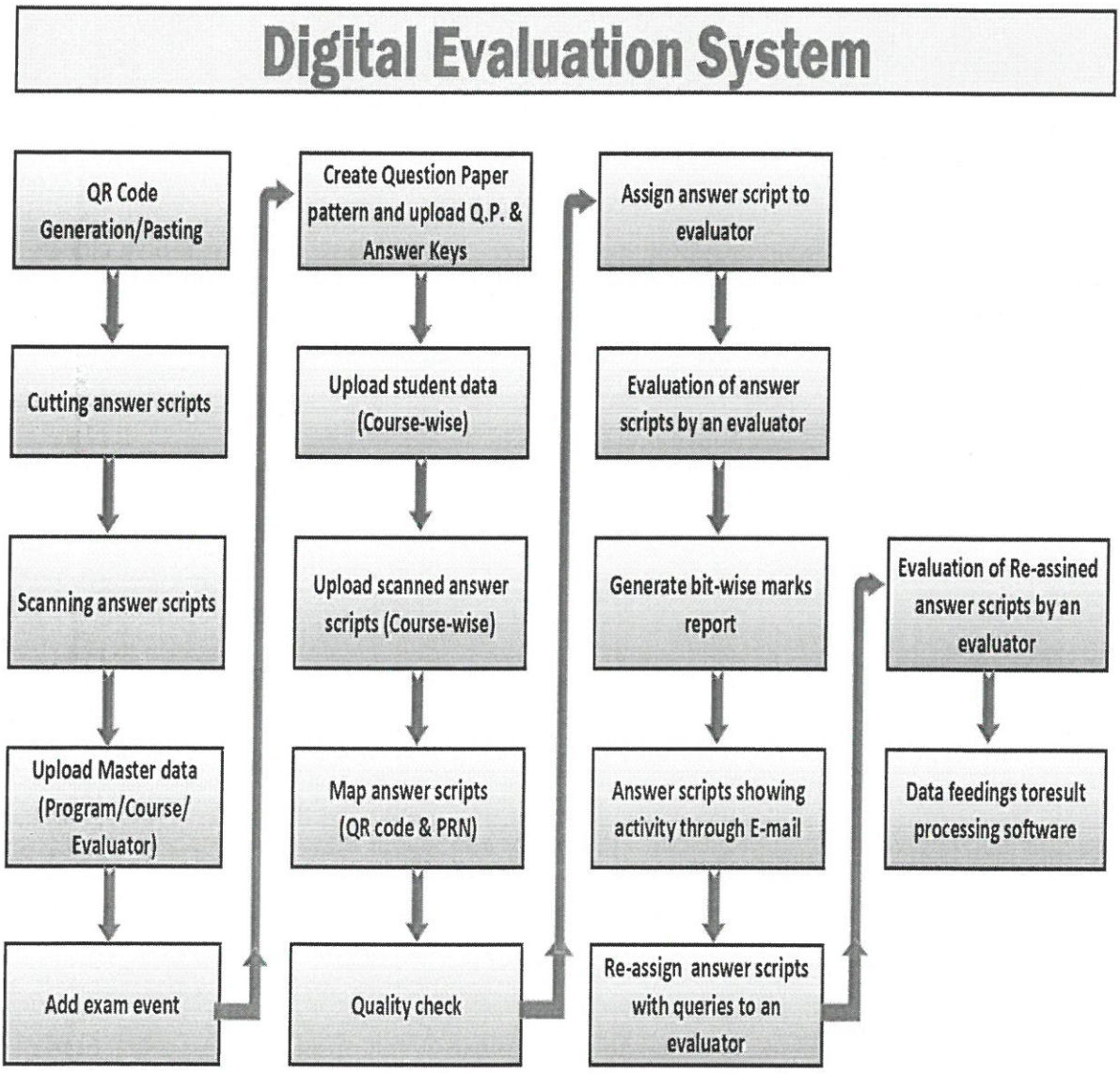
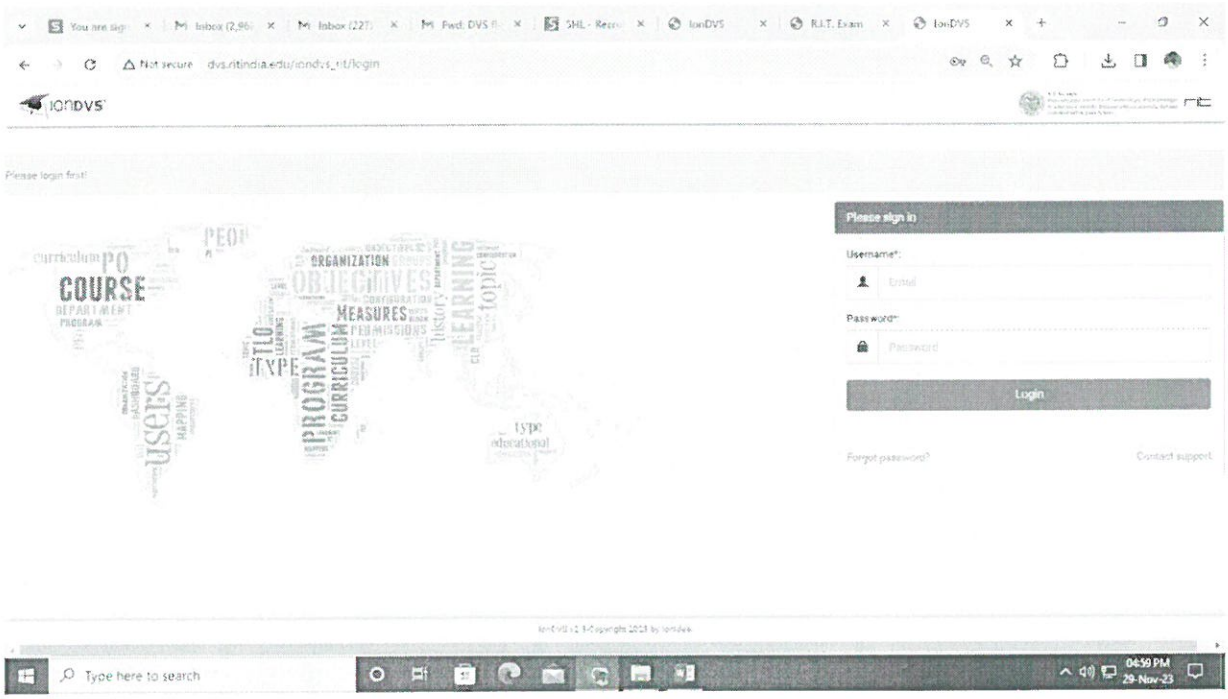
3) Digital Evaluation System (DVS)



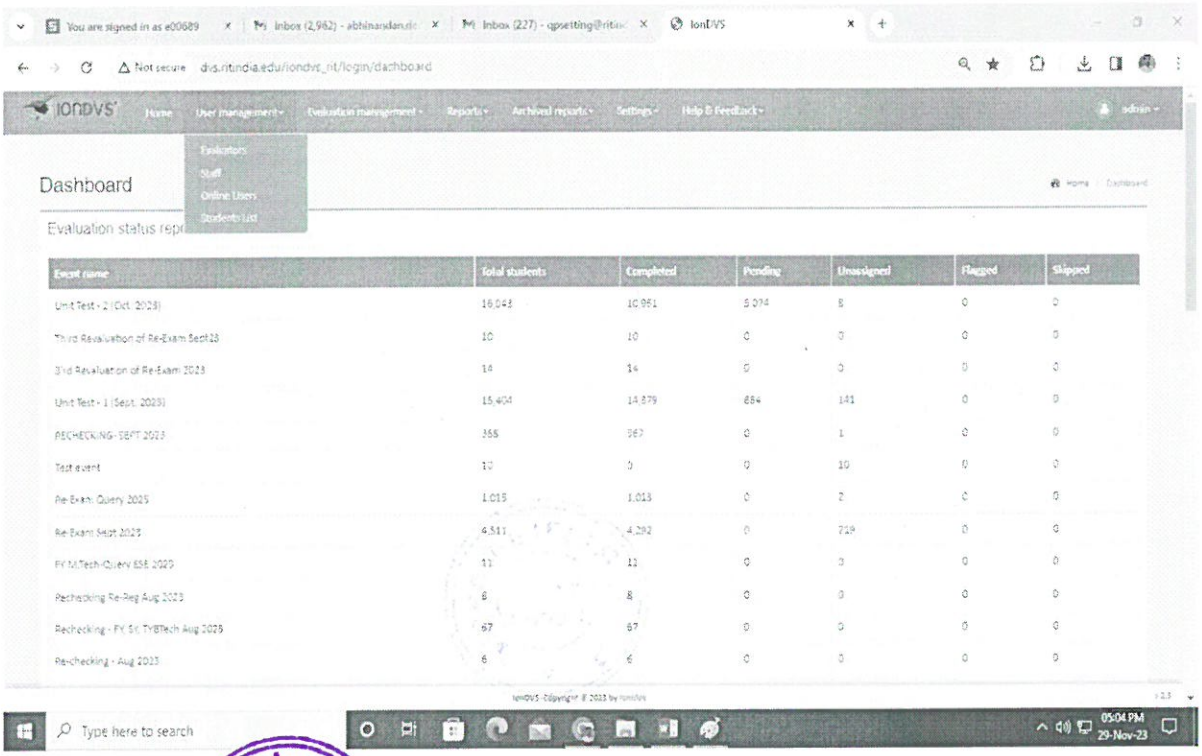
Proof of DVS Platform

1. Open the given link.

Link - http://dvs.ritindia.edu/iondvs_rit/login



2. User Management



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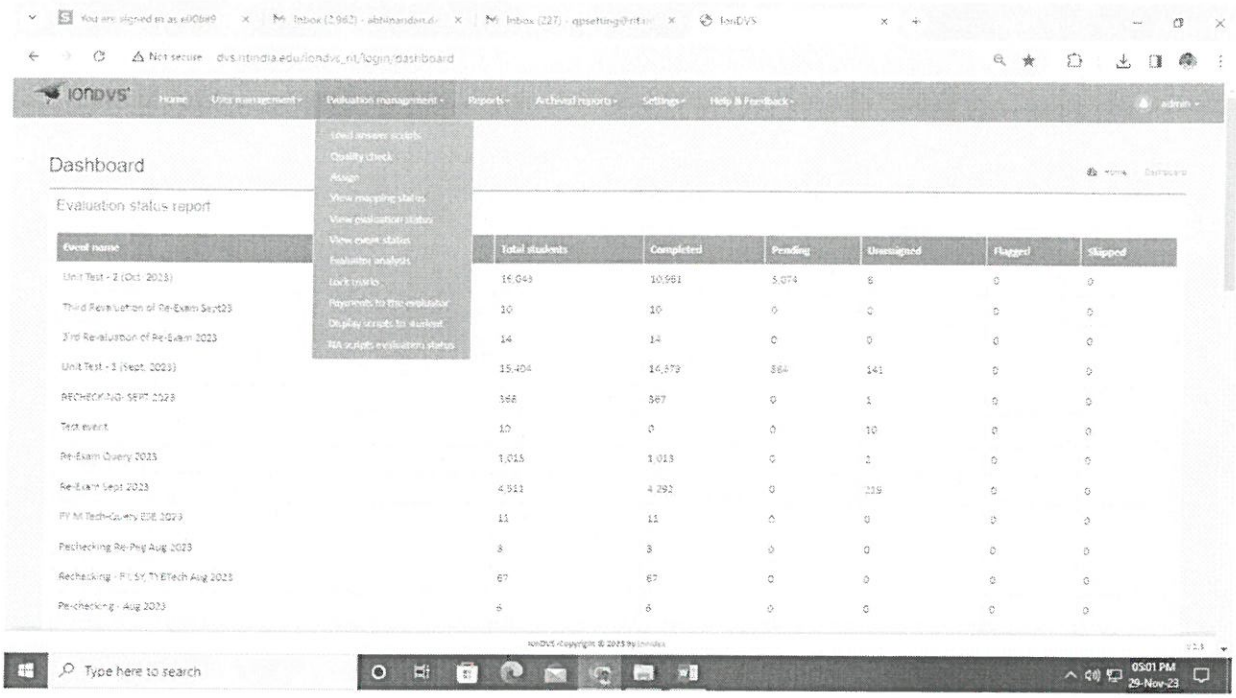
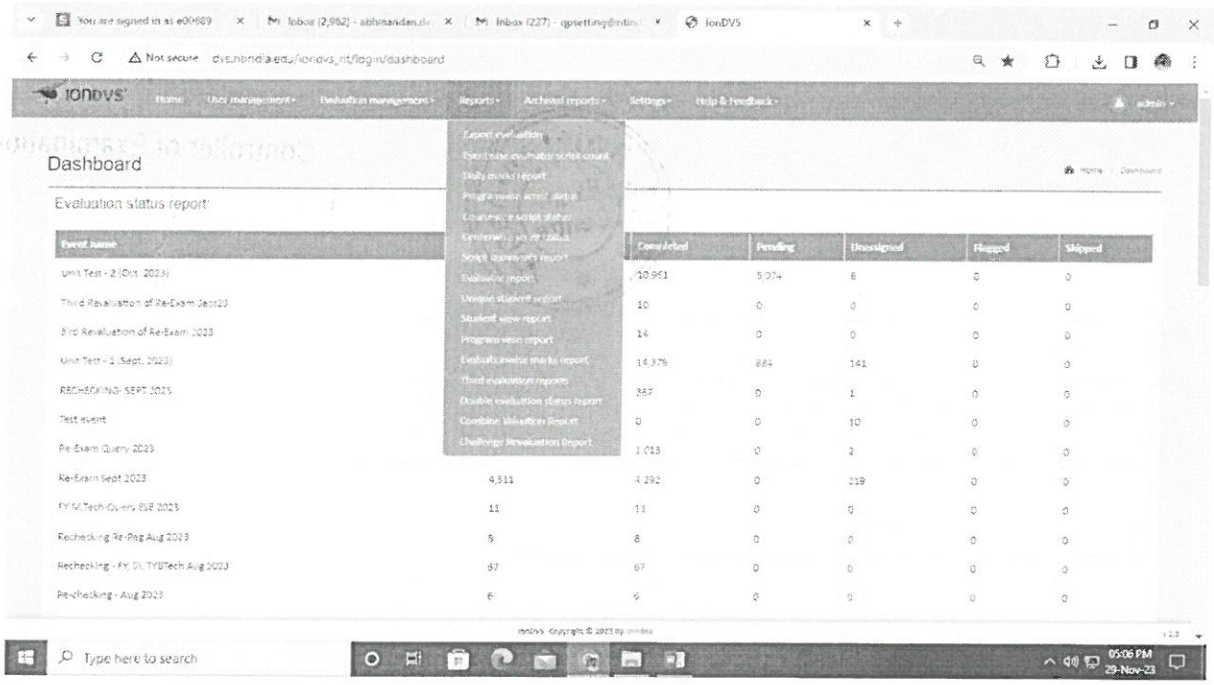
3. Evaluation Management



4. Reports



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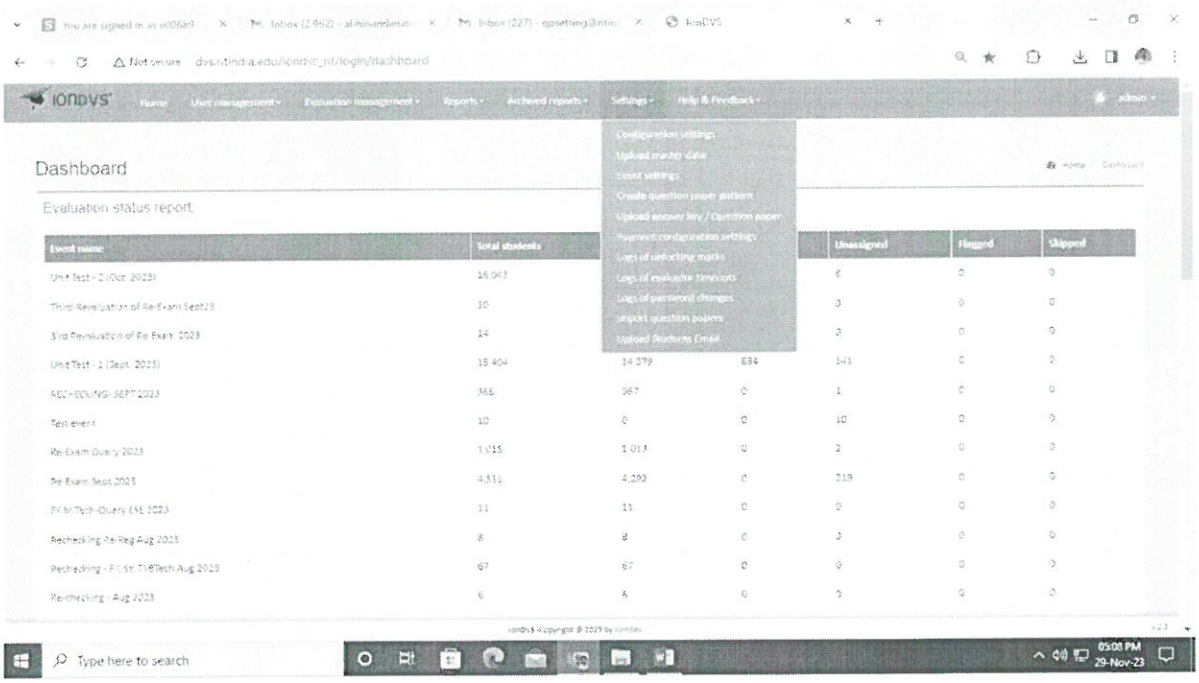
5. Settings



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Controller of Examinations