

BUSINESS IMPACT. Accelerated. 

NIIT[®]

Online Performance Assessment Solutions



PRESENTER

Venkat Srinivasan
VP Higher Education,
NIIT USA Inc.



Agenda 1



Agenda 2



Agenda 3



Agenda 4



Agenda 5



Agenda 6



NIIT has 3,000 centers with 6,000 teachers and 400,000 students.





Lisa Morrison

Director of Course Revision and Maintenance,
EDMC



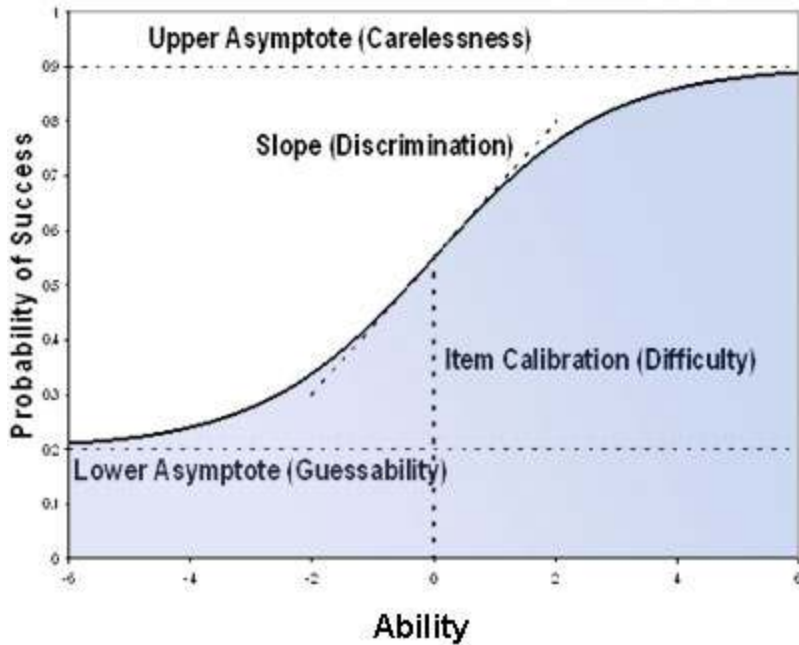
Ameet Bhattacharya

Manager of vLabs,
Element K

- Most institutions work on the classroom mode of testing.
- However, online assessment is not only more cost effective and effort saving, it also ensures:
 - Validity
 - Reliability, and
 - Fairness.

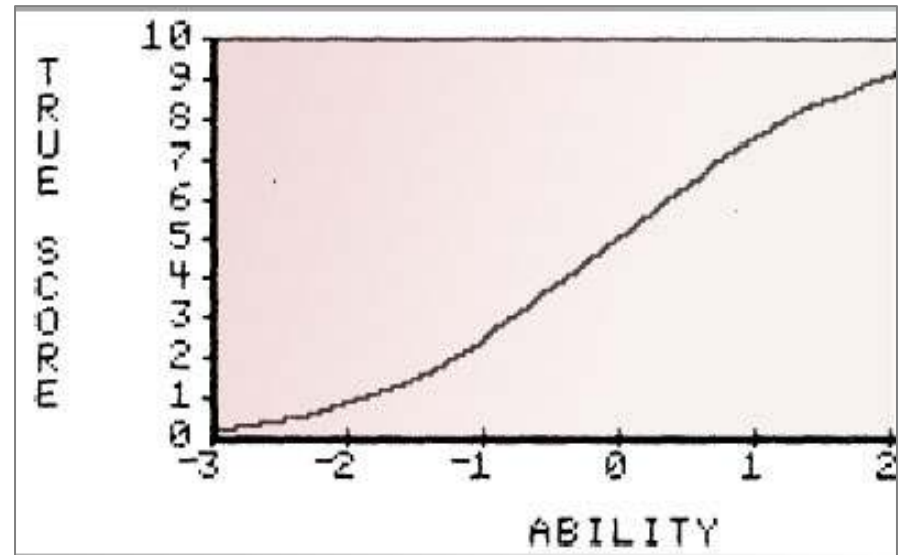


Item Characteristic Curve



- Item Analysis
- Distracter Analysis
- Test Analysis

Test Characteristic Curve



Validity, Reliability, Difficulty, Discrimination, Fairness (Culture, gender or other biases)

- In an era when institutions are under scrutiny, assessment provides evidence of accomplishing one's pedagogical goals.
- Reports from an assessment system may become a critical part of the institution's accountability report.





- While most educational institutions spend enormous time and effort on going through the above cycle for the first three stages, they fail to systematically capture and use their assessment data.
- This also prevents the institution from closing the loop on this continuous improvement cycle.

STUDENTS



- Assessments help evaluate student learning.
- Provide a valid and accountable performance report to be used for future educational and career growth.

TEACHERS



- Assessments help understand if the pedagogical goals are being accomplished.
- Provide appropriate feedback to students.

INSTITUTIONS



- Data from an assessment system may become a critical part of an institution's accountability report.
- An academic center should carry out its assessment responsibilities efficaciously.

FACT: Till date, most institutions use in-class assessments to meet their goals.

GOVERNING BODIES



- Government body bullet 1.
- Government body bullet 2.

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Is my assessment report valid? The examiner might have had his or her own perspective!

Test questions were not covered in the course. In the other campus, they had better and easier questions.

I had to wait a long time before I got my assessment report. I missed a few interview calls.



In a typical, in-class assessment, students are often faced with several challenges.

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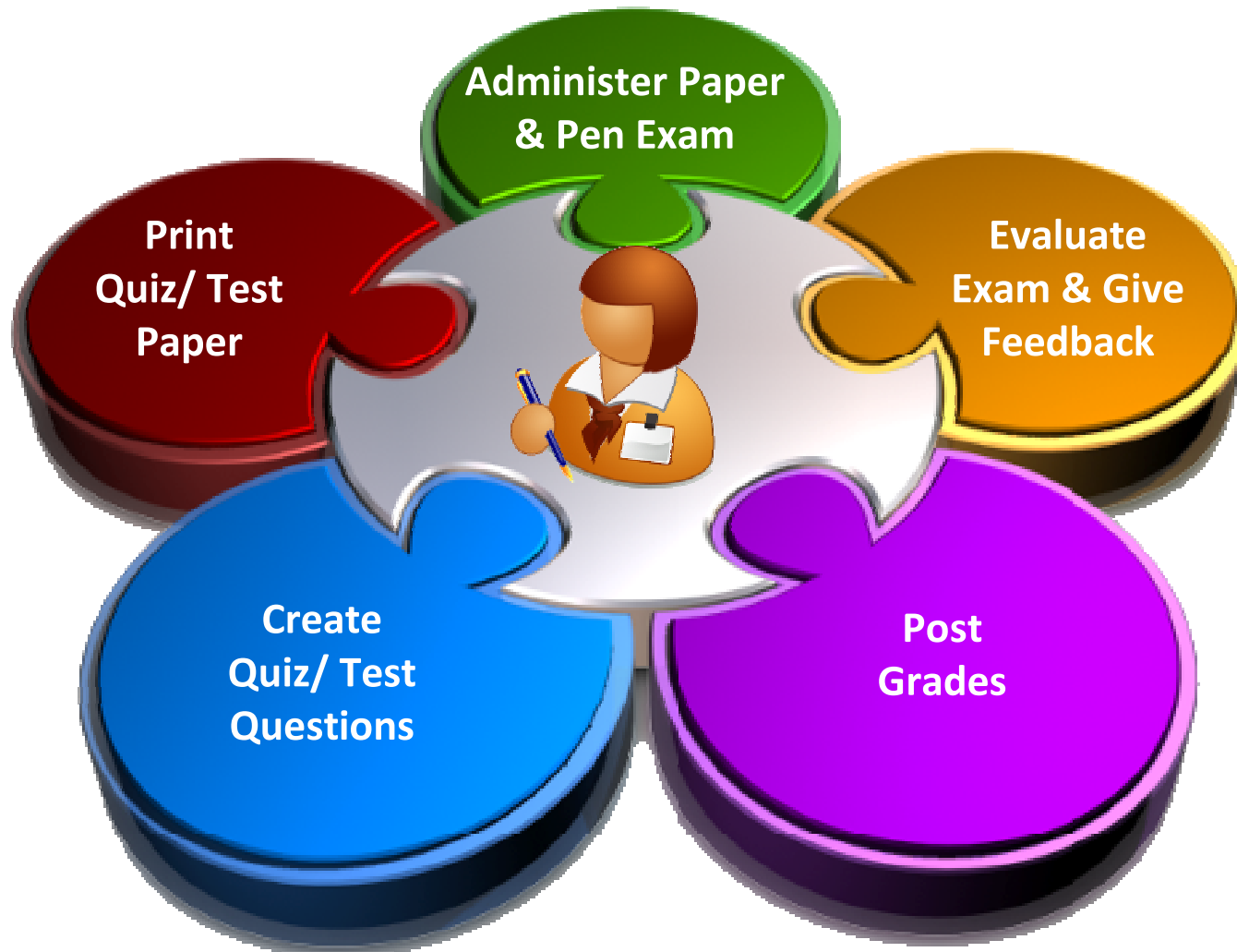
- Conduct / facilitate large number of test and exams
- Spend much time & effort in mechanical tasks of grading and updating the grade book.
- Entertain request for approximately 5 percent re-evaluation
- Maintain the validity and effectiveness of evaluation and tests items
- Maintain a question bank for millions of test items

Teachers have the daunting task of creating, evaluating, maintaining, and analyzing test items and assessments. These are time-consuming and effort-intensive tasks.



- 1 Who are you and why do you exist (Mission)?
- 2 What do you want to accomplish (Goals and Objectives)?
- 3 What procedures will you use to determine if the goals/objectives have been met (Assessment)?
- 4 What are the results of your assessment processes (Analysis)?
- 5 What changes will you make to your goals/objectives/outcomes/processes based on these results (Application of Results)?
- 6 What evidence do you have that this is a continuous cycle (Continuous improvement)?

Let's look at the current scenario of creating and imparting in-class assessments:



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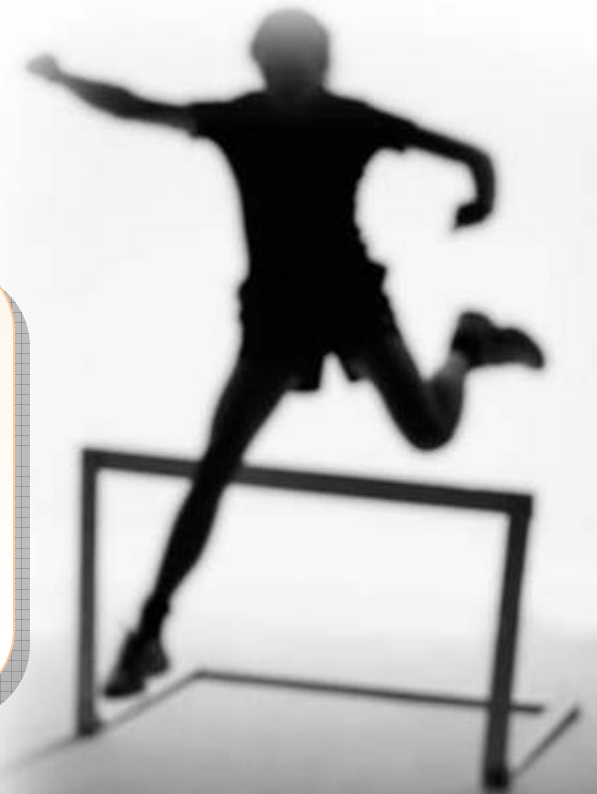


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FACT: Till date, most institutions use in-class assessments to meet their goals.

- NIIT was faced with various challenges with respect to assessment methodologies.
- Cost and time effectiveness
 - Maintaining infrastructure for test centers
 - Maintaining staff to conduct the test
 - Maintaining faculty members to manage the question bank data, scores
- Validity
- Reliability
- Fairness
- Scalability

Reduction in the cost being incurred in test evaluation and in invigilating hundreds of tests and thousands of students became the biggest challenge for us



We answered most challenges by developing a unique assessment solution.



NIIT's Online Assessment Solution, as it stands today has evolved over several years drawing much from the lessons that we learnt while implementing our initial thoughts.

Metric 1	Metric 2	Metric 3
Data	Data	Data
Data	Data	Data
Data	Data	Data
Data	Data	Data
Data	Data	Data
Data	Data	Data

NIIT's Online Education System has three pillars -

Content Management

- Content Management
- Curriculum Design

Student Experience

- Effective and apt presentation of the content
- Student Engagement

Practice & Assessment

- Creation, Delivery and Maintenance of Assessment Items



There are three parts to this solution:

Item Banking

- Exam and quizzes authoring, updation, and quality assurance

Technology

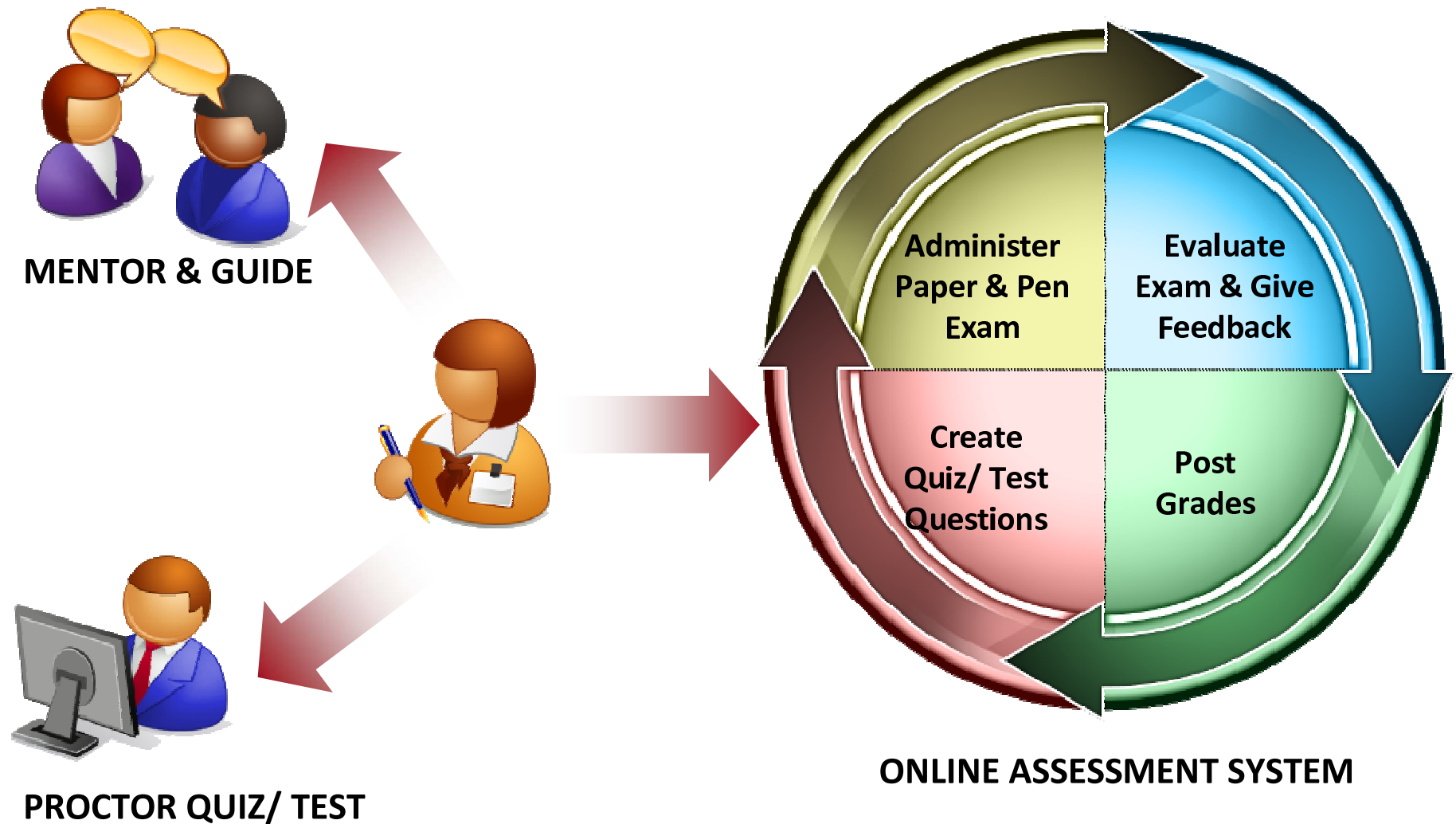
- Setting up online assessment engine and site hosting for test delivery

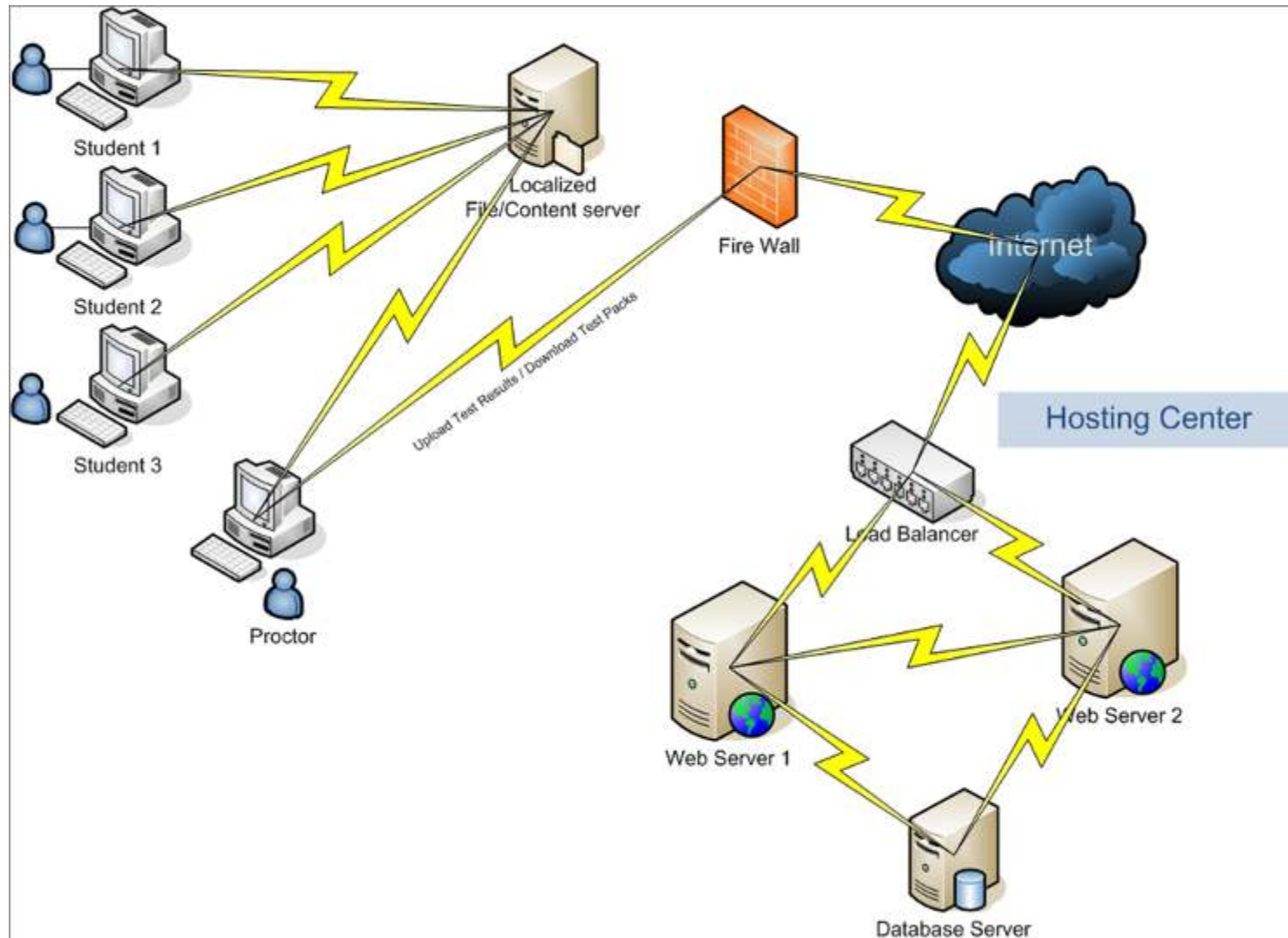
Implementation

- Solution rollout, field buy-in, and ongoing maintenance



Let's look at the current scenario of creating and imparting in-class assessments:







STUDENTS

- Ability to go beyond a static demonstration or simulation & gain practical experience by working with a technology first-hand in a live environment.
- Safe & secure environment with full control to experiment.
- Anytime, anyplace individual access. Only need access to an internet connection and a browser.
- Ability to invite any third party into the virtual environment for assistance via asynchronous shadowing.

INSTRUCTORS

- Ability to develop & maintain custom labs via authoring environments.
- Shadowing capability for classroom sessions.
- Performance assessment engine for effective assessment of student performance.
- Support for localized languages to a geographically diverse population

INSTITUTIONS

- Cost Savings associated with travel, administration and capital purchases.
- Opportunity to focus on core aspects / objectives of organization.
- Ability to ensure that enterprise workforce has achieved mastery on custom application(s) or on IT skills they have learned.

Task Description	Paper-based delivery	System-based delivery	Comments
Create/ Modify test questions	15%	5%	All faculties contribute
Print test papers	5%	0%	
Administer/ proctor the test papers in class	5%	5%	
Evaluate the test papers manually	35%	5%	For essay type evaluation still required
Provide feedback to students	15%	5%	Specific for the weak learning concepts
Post the grades in grade book	10%	0%	
Notify the students about the grades	5%	0%	
Handle disputes (if any) via paper-work	5%	5%	
Re-post grades	5%	5%	History of updates will be available online
Net	100%	30%	

In addition to all the benefits, one key outcome is the saving of the faculty time to the tune of 70% of the time spend in traditional assessment delivery!

- Standardized delivery and assessment
- Effective utilization of instructors time.
- Focused & quick feedback to students
- Management Reporting became simplified and fast
- Improved accountability in student learning outcomes
- Automation
- Standardized Item Banks
- Cost Effectiveness



Thank You

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Thank You

www.niit.com