

Annexure XX

Section 4(C)(v) The Application is accompanied with the evidence of ability of conduct proctored examination with all the security arrangements ensuring transparency and credibility of the examinations

DECLARATION

It is declared that Jagan Nath University has all required infrastructure to conduct proctored examination with security arrangements and the following is submitted in this regard:

1. It is certified that the University conducts all its examinations either offline / online in a very ethical and stringent manner.
2. The University is using Digi-Proctor Online Exam Platform to conduct Proctored examination. It ensures Artificial intelligence based proctoring and double authentication the examine through student ID Card and Aadhar Card.
3. It ensures 100% security and transparency through 360 view of the examinee and 100% view throughout the examination.
4. Further in order to maintain utmost security, one teacher in given the responsibility of maximum 30 students for virtual invigilation which restricts any kind of unfair means during the examination.
5. This Platform enable us to generate various reports e.g. Attendance Report, Unfair Means Case and Award List etc. The screenshots of various modules of this platform are enclosed for ready reference.
6. Further, it is certified that the University shall follow the same system in it's ODL / OL program for conducting online examination in order to maintain utmost security, transparency & integrity in the examinations.


Registrar

Registrar
Jagan Nath University
Jaipur



School of Distance Learning and Online Education (SDLOE)

Details of Proctored Examination in case of ODL and On-Line Programmes for Term End Examination

Provisions for Open and Distance Learning mode: All end semester examinations or term end examinations for programmes offered through Open and Distance Learning mode shall be conducted through proctored examination (pen-paper or online or computer based testing) within Territorial Jurisdiction preferably at the headquarter of the university. The Exams shall be under the direct control of School of Distance Learning and Online Education, Jagan Nath University, Jaipur

The attendance of examinees shall be authenticated through biometric system as per Aadhaar details or other Government identifiers of Indian learners.

The examination shall be conducted as per the minimum standards as laid down in Annexure-II-II-A of UGC ODL and On-Line Regulations, 2020

Provisions for Online Learning mode: The Term End Examination for programmes offered through Online mode shall conduct examinations either using technology enabled online test with all the security arrangements ensuring transparency and credibility of the examinations, or through the Proctored Examination and in conformity with any other norms for such examination as may be laid down by UGC from time to time.

The examination shall be conducted strictly as per the minimum standards as laid down in Annexure-II-II-B of UGC ODL and On-Line Regulations, 2020

Proctored Examinations

The University adopted a 3rd party AI-Powered Digitally Proctored Examination Management System ‘**Digi Proctor**’ which is a highly secured and reliable platform. Since assessments are key for Effective Teaching and Improved Learning Outcomes, the University has taken this platform with the following important features:

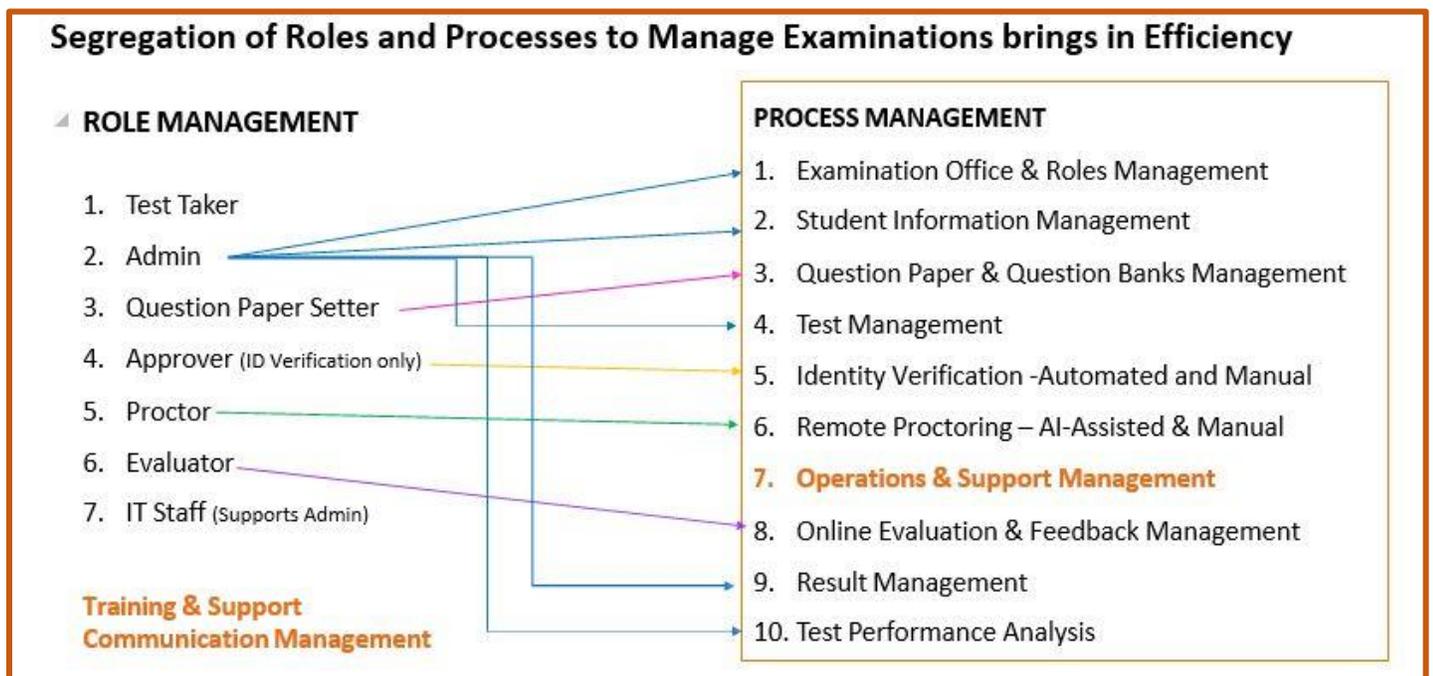
- End-to-end Digitalization of Exam Operations
- Student Information Management
- Question Creation & Question Banks
- Test Design & Delivery
- ID Verification
- Remote Proctoring
- Online Evaluation
- Result Processing with Deep Analytics
- Communication & Support
- Result Processing etc.

Proctored Examinations: Role Management

The entire Platform is base on 3 Tier System. All processes are based on 3 Tier Management System as follows:

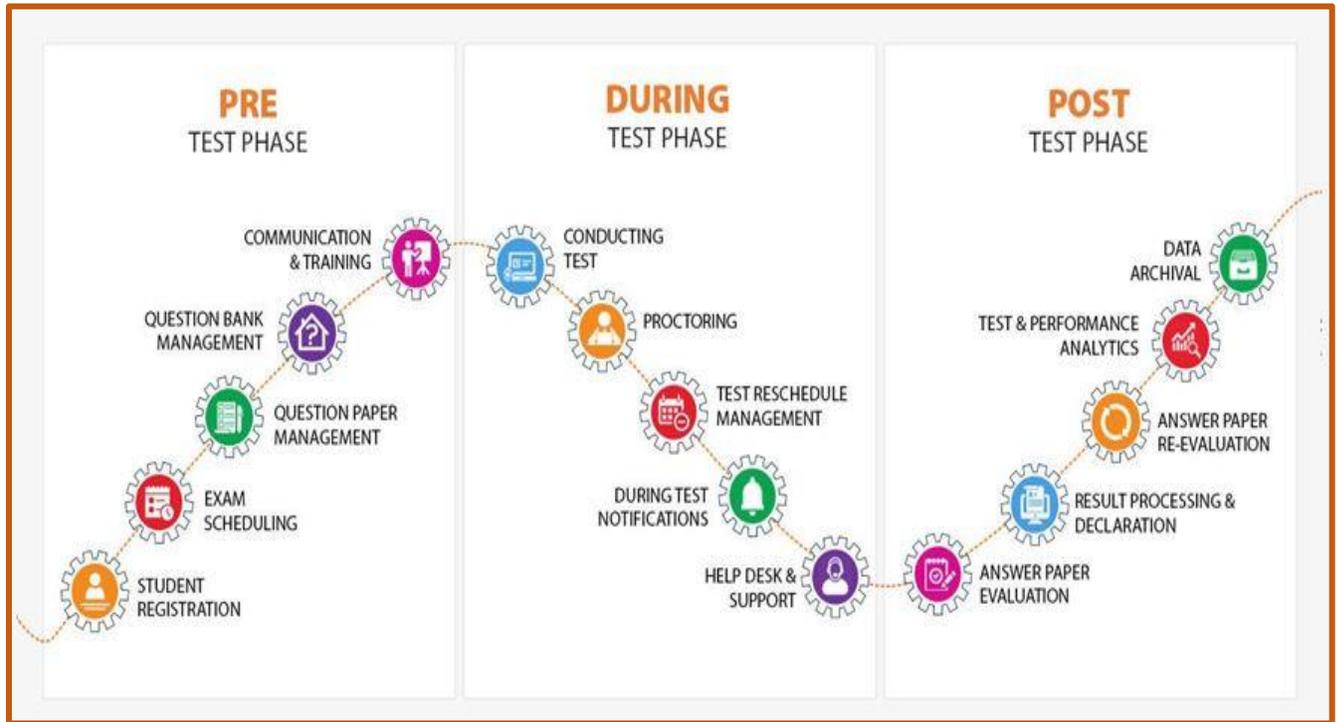
- Admin Account
- Student Support
- Proctor

Digi-Proctor I Role- Based Digitalization of Processes



AI -Powered Digitally Proctored Examination Management System

Digitalization of your Examination enables the examination body to Manage all Processes Online



DIGIPROCTOR SECURITY & TEST INTEGRITY FEATURES				
PRE-TEST	DURING-TEST			POST-TEST
	Technology Controls	Test Delivery controls	Content controls	
Question Paper leakage controls	<ul style="list-style-type: none"> • Device-level controls • Behavioral controls • Access control • Anti-DOS • Anti-Malware • Resilience & Scalability 	<ul style="list-style-type: none"> • Time controls • Navigation controls • Randomization controls • Subjective Question Uploading App (QR-Paired) 	<ul style="list-style-type: none"> • Question-level design controls • Question Delivery & Display control 	<ul style="list-style-type: none"> • Database access controls • Robust cloud security • Disaster Recovery
	 AES-256 Encryption	 ISO-27001 certified	 CERT.IN certified	 CMMI-3 certified

1. Remote ID Verification & Continuous Face Mapping

AI -Assisted Identity Verification

Modes of ID Verification

- Only-AI Verification
- AI-assisted Manual Verification Identity Verification Queueing
- Continuous Identity Validation



FACE MAP = REGISTERED PHOTO

VERIFY ID CARD

AI -AUGMENTED IDENTITY VERIFICATION & REMOTE PROCTORING

ID Verification:

- Ensures the person entering the examination is not an impersonator
- Stops someone else (a proxy) to appear for the exam on behalf of the legitimate student.

Remote Proctoring:

- Ensures exam integrity by stopping students from receiving any unauthorized assistance
- Stops students from using disallowed resources (Internet, books, cheat sheets etc.) to answer the questions

Ai -Augmented Remote Proctoring

Remote Proctoring:

- Ensures exam integrity by stopping students from receiving any unauthorized assistance
- Stops students from using disallowed resources (Internet, books, cheat sheets etc.) to answer the questions

Modes of Remote Proctoring:

- AI-assisted Human proctoring mode is most controlled form of remote proctoring. Students' camera, microphone feeds, screen captures are available to proctors. AI-assists proctors to detect misconduct.
- Only-AI proctoring mode is used If Student Count is Large, and the examination stake is low or the number of proctors available to monitor them is limited. There is No Human intervention to monitor students.
- Only-Human proctoring mode is used If Student Count is small and sufficient number of proctors available to monitor them. It's similar to on-site proctoring where proctors visually monitor students with no aid from AI.

The screenshot displays the digiproctor interface for an AI-assisted human proctoring session. The top navigation bar shows the test name 'AIEESE Primary 2021-PCM- June 28', room number '1', total test takers '250', and start/end times. A central panel shows a large video feed of a student (AMISH SINGH) and three smaller thumbnail feeds of other students. On the left, a list of students is sorted by trust score, with AMISH SINGH highlighted. On the right, a 'Trust Discriminator' table shows a total score of 93 and a list of events. Below the table is a 'Reduce Trust Score' form with a dropdown for reasons and a 'Reduce' button. A chat box at the bottom right shows a message from the student and a response from the proctor.

Time	Event	Score	View
9:35 AM	Out of env...	1	👁
9:31 AM	Out of env...	1	👁
9:24 AM	Out of env...	1	👁

Reduce Trust Score

Select Reasons:

Type the reason of reducing trust score

Reduce By: 1 Reduce

Chat Box

amish you cannot move out of your test to refer outside.

if this continues your test will be terminated

sir I wanted to read instructions as I was not clear would there be negative marking but now that I have read I won't do it

Chat with AMISH Send

AI - Assisted Human Proctoring Mode Test Takers' Grid View

Remote Proctoring:

- AI – enables proctors to detect and deter the use of unauthorized cheating aids during examinations
- Test takers who are pinned by proctor(s) for misconduct appear on top of the list for close monitoring

Test Activity Views

Test Score and Test Credibility

Academic Performance & Student's Test Results Credibility

Every instance of Aberrant Behavior generates Alerts which Reduces Student's **"Trust Score"**

Audio Alerts

- Noise Detected
- Virtual Machine Detected

Killing Virtual Machine Environment, Instant Messaging Apps, Web Browsers, Mailing Apps, Screen Sharing etc.

- You moved out of Test Window
- Multiple faces detected in Test Window
- Face map failed
- Cheating aids detected
- No Face in Test Window
- Looking away from Test Window

Zero down Students whose Test Credibility is Low and Pin them so they come up in the Grid View

HUMAN + AI LIVE PROCTORING

Screen Capture & Grab

360-degree Room Scan

Pause Test

Terminate Test

Live Video On-Demand

- Trust Score
- Action by Proctor
- Event Details
- Chat & Notes

Aberrant Activity recorded by Automated Remote Proctoring & Action by Human Proctor

Scalability & Concurrent Sessions

Test: Kenya Registered Community Health Nurse Paper II

Room: 1 Total Test takers: 2600 Start Date: 12-08-2021 Start Time: 04:30 PM End Time: 06:30 PM

Filter By: Trust Score Range < 100 View: 2600 Random Sequence

Active candidate(s) in room: 2411

Sort By: Trust Score

Candidate Name	Trust Score
ALICE GICHUHI	100
FAITH KANARIO	100
VICTOR SANG	100
NDUKU	99
JERUBET MOURINE	99
ABDIZAZIZ ABDI	99
BRAVINE JERONO	96
PURITY CHEPKOECH	98
ANTONET OSORE	97
SHUKRA KASSIM	97
MISKI MOHAMED	100

Trust Discriminator: Total: 97

Time	Event	Score	View
	Multiple I...	1	
	Face Does ...	1	

Reduce Trust Score

Select Reasons:

Type the reason of reducing trust score

Reduce By: 1 Reduce

Notes

Type your notes and press enter to save

Active students - 2411

12-08-2021 14:39:36

PAUSE TEST TERMINATE TEST VIEW LIVE REQUEST 360° Chat Box

Two- Way Communication

The screenshot displays a web-based test interface for 'AIEESE Primary 2021-PCM- June 28'. The interface includes a top navigation bar with 'Change Test' and 'Broadcast Message' buttons, and a header showing 'Room: 1', 'Total Test takers: 250', 'Start Date: 28-06-2021', 'Start Time: 09:00 AM', and 'End Time: 12:00 PM'. A filter bar shows 'Filter By: Trust Score Range' set to 100. A table on the left lists students with their names, scores, and a 'Raised Hand' icon. The main area shows a video feed of a student, with a 'Proctor Chatting with Student' window overlaid. A 'Raised hand icon is shown to proctor when student wants to chat' callout points to the icon in the student list. A 'Chat Box' on the right shows a conversation between the proctor and the student, with a 'Send' button at the bottom.

Time	Event	Score	View
9:35 AM	Out of env...	1	
9:31 AM	Out of env...	1	
9:24 AM	Out of env...	1	
9:19 AM	Out of env...	1	

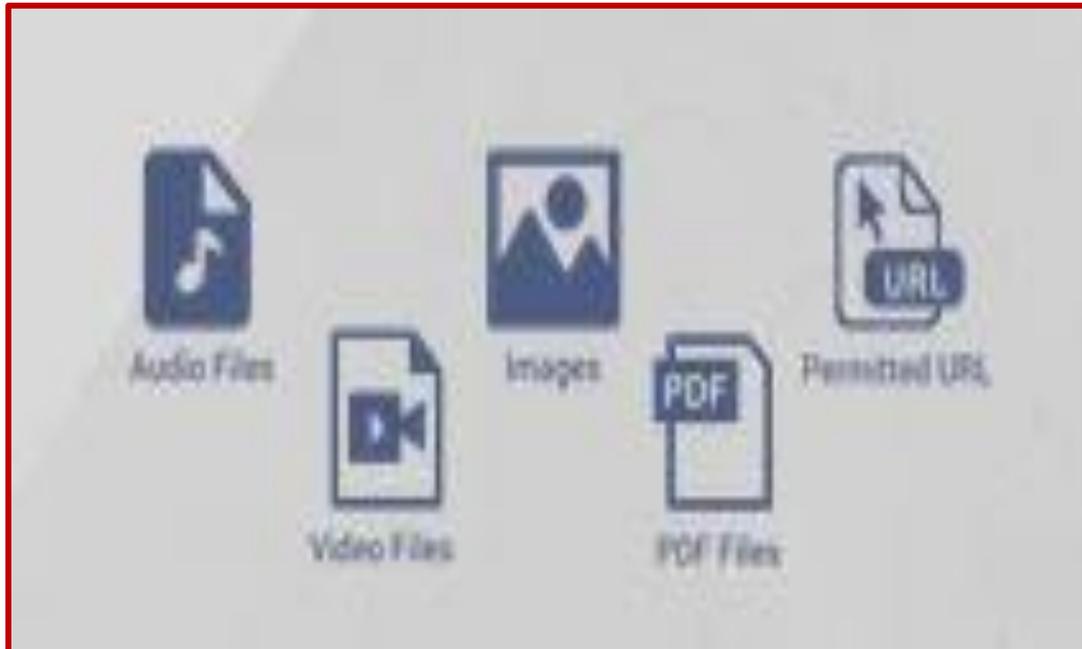
Student Name	Score	Trust Score
Raashika Sharma	NA	97
Aditya Danai	NA	95
Aditi Agarwal	NA	100
JOEL ANANTH	NA	100
Ujjwal Mk	NA	98
Kushagra Singhal	NA	99
Vibhuti Jain	NA	100
ANYUSKA PRIYADARSHINI	NA	100
Arpit Gupta	NA	100
AMISH SINGH	NA	93
Saurav Tonde	NA	100

QUESTION DESIGN, DELIVERY & DISPLAY

Question Paper Design Includes Versatile Question Types

- MCQ/MRQ
- True/ False
- Subjective
- Excel/ Document
- SPSS based Questions
- Grouped Questions (Case Study)

Enhance Questions with Rich Media- Audio Video Files, Images, PDFs, Permitted OERs



Online Examination & Result Evaluation

- Measure Effectiveness of Teaching
- Granular Performance Analysis
- Improved Learning Outcomes
- Auto-Correction (objective questions)
- Online Evaluation by Faculty
- Automated Result Processing

Online Evaluation of Subjective Questions

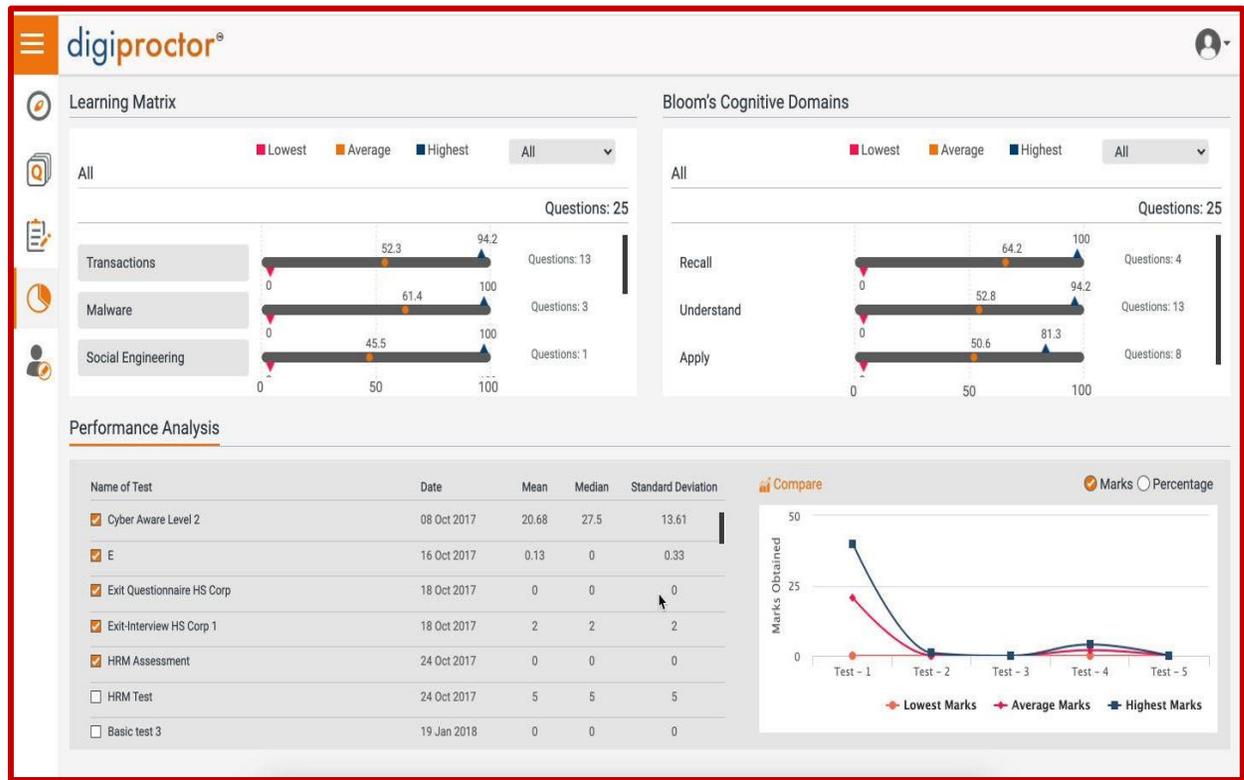
The screenshot displays the digiproctor interface for an online evaluation. The main area shows a handwritten answer on a white background with a blue border. The text reads: "Line $l \perp AB$ and passes through C , which is the mid point of AB ". Below this, the student has written: $PA = PB$, $AC = BC$ (C is mid-point of AB), $\angle PCA = \angle PCB = 90^\circ$ (given), and $PC = PC$ (common). A green checkmark is visible next to the first line, and a red 'X' is next to the angle statement. The interface includes a search bar, a test taker list (Shubam (202210010) 5/5, Backup 04 0/4, Backup 02 (1233) 0/4), and a question panel on the right with a total mark of 0/3 and a 'No remarks available' message. The bottom of the interface has a 'Reset Mark' button and navigation arrows.

Online Evaluation

- Grade answers with comments
- Easy Navigation
- Test Credibility (Trust Score)
- View Students Profile Picture (Optional)
- View Objective Question marks (Optional)
- Question-level analysis of marked answers
- View Uploaded Answer Sheets
- Test Takers Hand-written answer sheet Watermarked & Time –stamped
- Add Marks & Input comments Pin sections for giving feedback

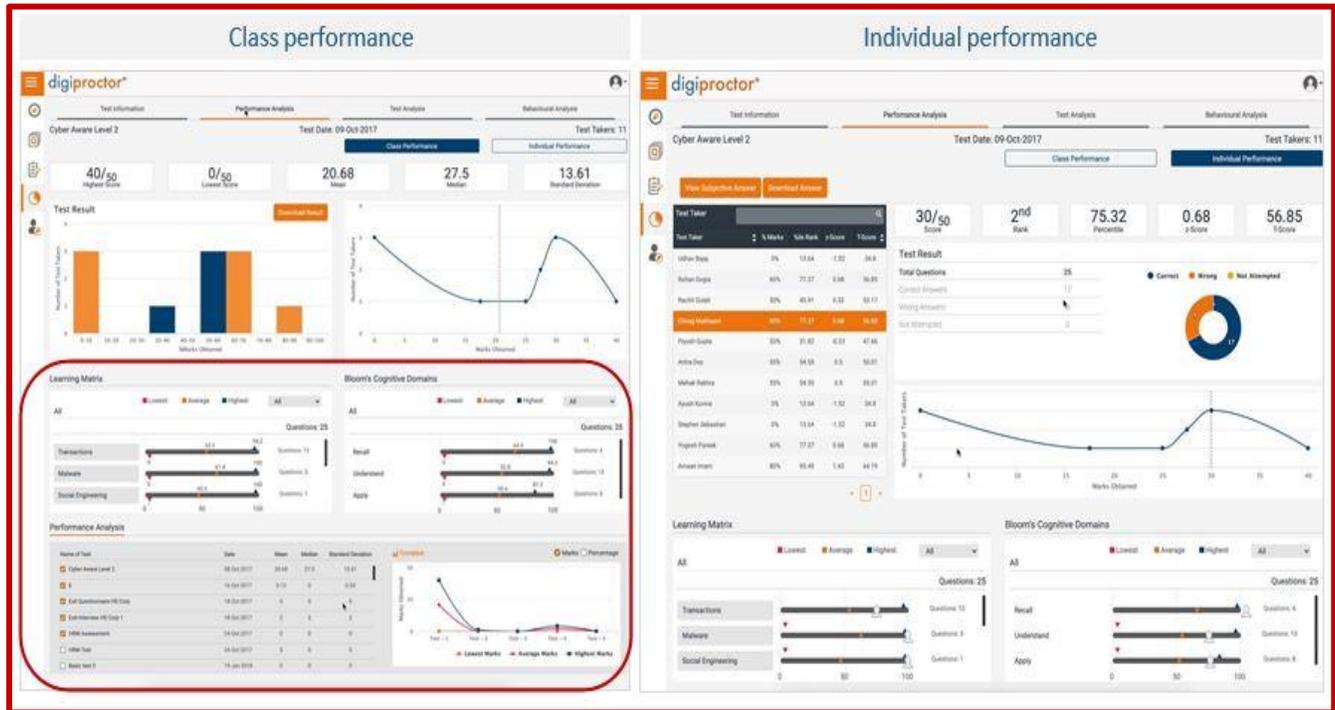
Performance Analysis

Data –Driven Result Analysis & Personalized Learning Outcomes

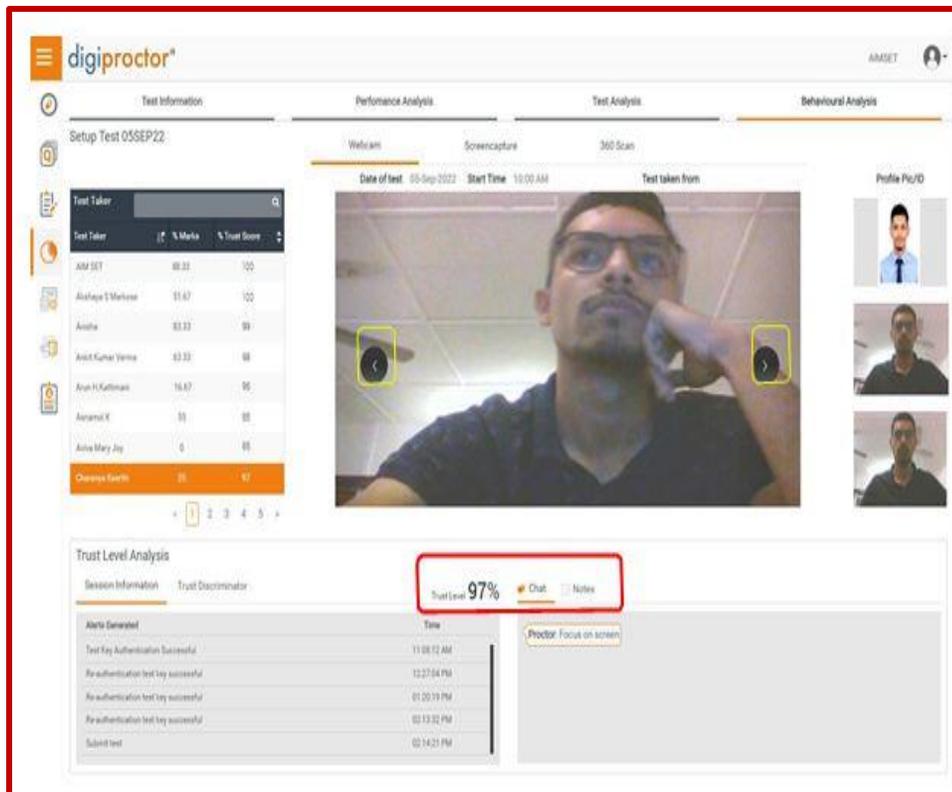


- AI- creates a Personalized Learning Path
- Students and Faculty Identifies Learning Gaps
- Individual –level Result Analysis
- Class- level Result Analysis
- Concept & Cognitive Ability Comparative Analysis of Performance

Performance Analysis



Test Behavior Analysis



Behaviour Analytics Report

- Session Recordings
- Camera View & Screen Capture
- Test Environment Scan report
- Test activity history
- Test Device details
- Trust Discriminator details
- Trust Score
- Audio Alerts
- AI-detected misconduct
- Proctor Reported misconduct
- Live video recordings
- Chat history
- Notes by Proctor
- Disconnections logged
- Test Devices activity
- Test Taker's Logs