

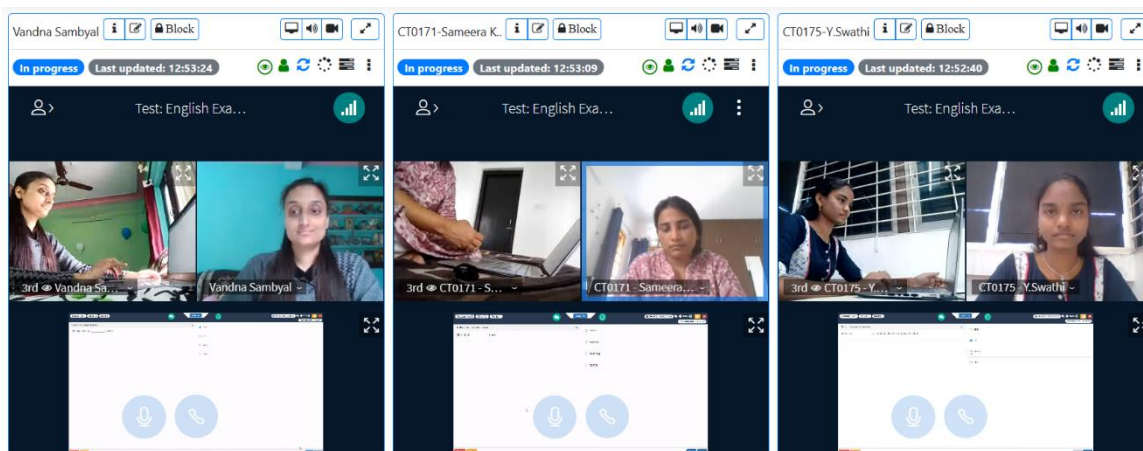
Remote Proctored Online Exams.

The 2021-22 session exams. were conducted online and were administered through My-class platform of Code Tantra integrated with LPU e-Connect(Learning Management System for Online Learners). With online exams, students have the freedom to give examinations from any location, as long as they have internet access. The decorum of examination was also maintained using the following measures:

- 1) Exams were fully proctored.
- 2) Environment check was made to ensure that the student is alone in the room and has no access to any study material / person.

The Security Features of the Platform are as follows:

- 1) The system has a provision to force the student to capture his/her face and ID card before starting the test. Once the student starts the exam, the proctor can see and compare the captured face, captured/uploaded ID card, and student registered photo in the system and decide to authenticate or not authenticate the student based on the comparison result. Moreover, the system records the video of the student through the webcam, if configured, so that verification can be done even after the test.
- 2) The system has a number of robust proctoring features such as live monitoring of the student through his/her device camera. If configured, the same student can also be seen by the proctor from another angle provided the student joins the test parallelly through another device such as a mobile phone which can be independently placed somewhere to capture the entire view of the space where the student is writing the test which is otherwise impossible through the laptop/desktop webcam. The system has also a provision to share the student screen with the proctor. In summary, the proctor can monitor the student from (a) the student laptop's webcam through which he/she is writing the test, (b) the 3rd Eye (an additional device) which captures room view, and (c) the device screen.



- 3) Secure Exam. Application (SEA) has been developed to work on Windows, Linux, Mac OS, and Android. Once the student starts SEA, it locks the device environment completely which means that the student cannot minimize SEA, cannot copy-paste, and cannot access another application. The system has the functionality to blacklist any applications. In addition, SEA has the ability to detect virtual machine, Bluetooth device, multiple displays, USBs, HDMI ports or connected to VPN, and in all such cases, the system can block the exam. automatically.

- 4) Details of the software's data encryption and storage methods to ensure the confidentiality and security of the examination data are as follows:
 - a. Access restriction through authentication.
 - b. Optional Secure 2-factor authentication using Authenticator.
 - c. One-way encryption of all user passwords.
 - d. All documents that are uploaded are encrypted.
 - e. Advanced access control for restricting recordings.
 - f. Encryption on wire (for all types, Audio, Video, and all Data) and at rest (storage).
 - g. Network security using 4096-bit RSA with SHA-256 secure signed certificates rotated very frequently.
 - h. Usage of domain-based approach to security - where only people of a particular organization are allowed to collaborate in a secure and well-controlled environment, with the additional provision of inviting guests with restricted access privileges.
 - i. Access and feature control by centralized and clearly defined configurable policies.

5) ISO 27001-certificaion:



Certificate of Registration
*This is to certify that the
Information Security Management System of*
CodeTantra Tech Solutions Pvt. Ltd.
Shop No. 02, Ground Floor, V. C. Plaza, H. No. 12-6-2/273/2,
Hyderabad-500 072, Telangana, India.

has been assessed and conforms to
the requirements of Documentation of:
ISO 27001:2013
for the following activities
**Provide On Line Proctored Examination
and Virtual Classes Platform Services**
Certificate Number : 10093-AISMS-0193

Original Certification Date : 30/12/2020 1st Surveillance Due on : 24/12/2021 Done on: N. A.
Revised Certification Date : N. A. 2nd Surveillance Due on: 25/12/2022 Done on: N. A.
Certificate Expiration Date : 29/12/2023 As per the rules of ISO it is mandatory to get both 1st & 2nd surveillance audits
done at least 10 days before the due date. If surveillance audit is not done till due date
of both "1 & 2 SURVEILLANCE DUE DATES" then this certificate shall
become invalid on the due date. The client should send a proposed date for each
surveillance audit at least 15 days before the due date at the email given below.



Certification Manager

The validity of this certificate is contingent upon the condition that the client has understood & agreed and shall abide by contract agreement, certification agreement, Master agreement for certification services and logo rules as given on our website www.maxacerna.org. It applies only to the documentation maintained by the client and it does not substitute the design or product testing or examination procedures, what so ever. The certificate remains valid until the manufacturing conditions and the quality systems are not changed. This certificate validity is subject to positive results of surveillance audit. The client is requested to check the above certificate details at our above mentioned website and also on www.globalaccreditationboard.org under the heading of Register & sub heading of certified organization by entering their certificate number and inform us in case of any discrepancy at our above email id.

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