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## **Gyaan – Virtual College**

### **Abstract**

The **Virtual College** or **eLearning** or **Virtual Learning Environment** provides the immense support to the individual needs of administrators, teachers, students and staff in betterment of the learning community.

Gyaan is one of its kinds. Gyaan promotes the success and growth of virtual education community. It offers online environment for distance and classroom-based learning. Gyaan helps a huge community with its support features covering from students' enrollment to student's test management. Gyaan gives option of customization to college/university on initial installation. It provides high secure and flexi environment.

Gyaan is provided with high interactive and user friendly interface. Gyaan has user management, administration support system, classroom system, content management, online test support and interaction facilities.

Gyaan's **user management** system provides student/teacher enrollment, student/teacher login facility. There are various level authorization varies based on the user's roll defined in the system. **Administration support system** provides facility for student & faculty admission, class room scheduling, chat room monitoring, notice board, assignments checking, and course/subject allocations.

**Classroom System** provides the students and teachers to sign up for video class room, audio classroom or chat class room based on the defined course type. All conducted class and posted questions will be recorded by default for future references. The students can submit their assignment using our assignment submission tool. **Content management** system handles the storage and access of video, audio, text, file transfer and online assignment. The access of the content available is defined to the user's role and rights.

Based on curriculum, the teachers can conduct **online test** on their confront timings using online test system. The teachers can define the test type and submit their question and answers and define the test conditions. The student will appear for the exam from their home panel and based on the test, the reports will be generated and submitted to concerned persons. The **interaction system** consists of chat room, dashboard and messenger support.

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Gyaan has been created for technical and domain knowledge gain. Gyaan is developed under Microsoft platform, where MSSql server is used as the database server. Stored procedures were used to define most of the business logic and ASP.Net web pages were used for server side scripting. Interactive audio and video sessions are developed in the form of ActiveX controls.