

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY  
BELGAUM**



**PROJECT REPORT**

**On**

**“Enhanced Security For Online Exams Using Group  
Cryptography”**

**Submitted for the award of Bachelor’s Degree in Computer Science and  
Engineering by Visveswaraya Technological University, Belgaum.**

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# ABSTRACT

Online exam is field that is very popular and made many security assurances. Then also it fails to control cheating. Online exams have not been widely adopted well, but online education is adopted and using all over the world without any security issues.

An online exam is defined in this project as one that takes place over the insecure Internet, and where no proctor is in the same location as the examinees. This project proposes an enhanced secure filled online exam management environment mediated by group cryptography techniques using remote monitoring and control of ports and input.

The target domain of this project is that of online exams for any subject's contests in any level of study, as well as exams in online university courses with students in various remote locations. This project proposes a easy solution to the issue of security and cheating for online exams.

This solution uses an enhanced *Security Control* system in the Online Exam (SeCOnE) which is based on group cryptography with an e-monitoring scheme.