

# Integrated Campus Solution

**Omkar Chavhan, Aditya Dhas, Sarthak Panbude, Mayank Shinde, Prof. Yogesh Chitte**

Department of Computer Engineering

Matoshri Aasarabai Polytechnic, Eklahare, Nashik, Maharashtra, India

**Abstract:** *Integrated Campus Solutions (ICS) is a comprehensive Website designed to streamline and enhance the operational efficiency of educational institutions. By integrating various campus functions such as student enrollment, academic management, financial services, and administrative processes into a unified system, ICS aims to improve the user experience for students, faculty, and administrative staff. The construction of intelligent campus in colleges and universities can provide more humanized services to teachers and students through rational distribution of data resources, which can better promote the progress of education. Therefore, this paper studies the design and practice of the integrated platform of smart campus in colleges and universities under the background of big data. In this paper, hadoop distributed storage and spark computing components are used, and java web technology is used to develop this platform. In terms of system performance, the average data response time is 53 m s, the bit error rate can reach below 0.3%, the average database size is 122.7 T B, and the number of queries can reach more than 10 000 times. This paper makes an in-depth study on the process of data sharing and exchange, and on this basis, puts forward a concrete construction scheme for the integration of intelligent campus in colleges and universities, and sums up the intelligent application and service mode of campus data. The experiment shows that this research is conducive to improving the accuracy of campus data governance, at the same time, improving the collaboration of campus management services, and meeting the long-term development needs of intelligent campus.*

**Keywords:** ICS, Staff, Students, College