E-Proceedings

International Conference on
Innovation in Education:
Opportunities and Challenges in Southeast Asia

Co-presented by the United Board for Christian Higher Education in Asia and Soegijapranata Catholic University

Editors:
Cecilia Titiek Murniati M.A., Ph.D
Dr. Heny Hartono, SS., M.Pd

UNITED BOARD
FOR CHRISTIAN HIGHER EDUCATION IN ASIA
Since 1922

Unika
SOEGIJAPRANATA
Talenta pro patria et humanitate

Soegijapranata Catholic University
October 29 - 30, 2019

Venue: Thomas Aquinas Building 3rd Floor

E-Proceedings International Conference on Innovation in Education: Opportunities and Challenges in Southeast Asia

Co-presented by the United Board for Christian Higher Education in Asia and Soegijapranata Catholic University

Editors:
Cecilia Titiek Murniati, M.A., Ph.D
Dr. Heny Hartono, S.S, M.Pd.

Steering Committee:
Kevin Henderson, Director, Digital Content and Programming, United Board, New York
Dr. Nancy Chapman, President, United Board, New York
Dr. Ridwan Sanjaya, Rector, Soegijapranata Catholic University

Cover : Manggar
Layout : Ernanto

Enhanced Campus Automation System and the emerging need for IoT integration: an automation perspective. [eCAS-IoT]

[1]**Rajeshwar Rao J and** [2]**Siby Samuel**

[1]raosir@live.in, [2]sibysam@gmail.com

[1, 2] Department of Computer Science and Application, Assistant Professor, St.Aloysius' College (Autonomous), Jabalpur, India

Abstract: Technology has the power to break the limitations of traditional passive learning and innovate almost all aspects of everyday life with the power of connecting things of the world to the Internet, "Internet of Things (IoT)." IoT is no longer a phenomenon, but it has become a prevalent system in which people, processes, data, and things connect to the Internet and each other. This paper 'Enhanced Campus Automation System and the emerging need of IoT integration: an automation perspective' [eCAS-IoT] is an outcome of case study undertaken at St. Aloysius' College, Jabalpur, India, wherein the automation challenges are taken into consideration that has been integrated in the existing ERP and related tools such as RFID based attendance and monitoring system in real-time, digital library, API integration and implementation of Optical Network. In this paper we have tried to bring out ideas to achieve the campus automation challenges and awareness of greater need of technical expertise, promotion and training on the effective use of ICT and related devices to make teaching, learning and administration more impacting.

Key words: Campus automation, Internet of Things (IoT), Radio-Frequency identification (RFID), Optical Network.

INTRODUCTION

A Campus Automation system is an ERP solution to manage an Academic campus be it a College, institute or university. It brings an bring an effective system to manage all the aspects of an institution and seamlessly

Certificate

This is to certify that

Rajeshwar Rao Janumala

has participated in International Conference on

Innovation in Education: Opportunities and Challenges in Southeast Asia , 29-30 October 2019
Soegijapranata Catholic University, Semarang, Indonesia
as a Presenter

President of United Board

Nancy E. Chapman

Nancy E. Chapman, Ph.D

Semarang, 30 October 2019
Rector of Soegijapranata Catholic University

Prof. Dr. F. Ridwan Sanjaya, MS.IEC