

## **Annual IETE Convention 2018**

### **50<sup>th</sup> Homi Bhabha Lecture on**

## **Smart Virtual Campus for Sustainable Development**

Dr. M. S. Ali

Principal,

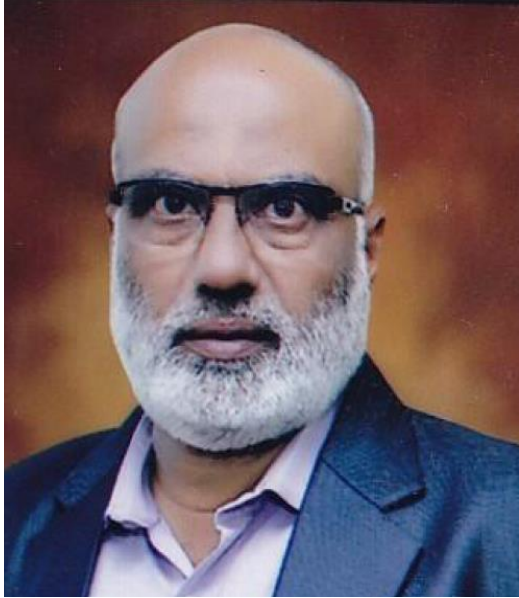
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The idea of smart campus has been derived from the idea of smart cities. The concept of smart cities is essentially aimed at deployment of internet based applications and content management platforms in every sphere of public systems such as healthcare, media, energy, environment, safety, and public services. Academic campuses engaged in intellectual progress, knowledge creation and dissemination have also embodied these principles to become smart campuses.

The idea of virtual campus is mainly derived from the idea of online intelligent tutoring systems with the objective of providing education to anyone, anytime and anywhere. Focusing predominantly on virtual education, it is possible to contextualize the smart campus with the impact of information and communication technology (ICT) on various aspects of the higher education, and in particular the technical education.

The rapid technological advancement has been affecting every walk of life and the change seems to be inevitable. The field of higher education also is influenced by the technological advancement and the use of ICT, virtual classrooms, virtual laboratories, e-learning systems and online intelligent tutorials has paved ways into the educational arena.

The amalgamation of the idea of smart campus with the idea of virtual campus can lead to smart virtual campus which shall contribute to the sustainable development of technical education. Smart campus constructs may be applied to the process, product and service components of the virtual campus to explore how they could be manifested to achieve sustainable development in the domain of higher education and in particular to the realm of technical education.



This lecture envisages a smart virtual campus as a model of future technical education system for the sustainable development of education and training. It proposes the innovations in the process, product and service components of the conventional campus to transform it into a smart virtual campus.

Dr. M. S. Ali is presently working as the Principal at Prof Ram College of Engineering & Management, Badnera-Amravati. He has been instrumental in establishing the college in the year 2009 to its accreditation by NAAC with grade 'A' in the

year 2017. He is the Fellow of IETE, Fellow of IE (India) and Life member of ISTE.

Dr. M. S. Ali holds Ph.D. in Electronics Engineering from Sant Gadge Baba Amravati University, Amravati, M. Tech. in Electrical Machines & Drives from I.I.T. Bombay and B.E in Electrical (Electronics & Power) Engineering from Nagpur University, Nagpur.

Dr. M. S. Ali has total experience of 34 years with two years industrial experience at RCF Bombay and 32 years experience in teaching at the College of Engineering, Badnera, at the Prof Ram Meghe Institute of Technology & Research, Badnera and at Prof Ram College of Engineering & Management, Badnera-Amravati.

Dr. Ali has been on the Sant Gadge Baba Amravati University's various bodies like Board of Studies, Faculty of Engineering & Technology and Academic Council since last twenty years. He is a recognized Ph.D. supervisor in the disciplines of Computer Science & Engineering, Electrical Engineering and Electronics Engineering in the Faculty of Engineering & Technology at SGBA University, Amravati.

Twenty One (21) candidates have completed and have been awarded Ph.D. degrees under his guidance and eight (8) candidates are currently working under him for their Ph.D. degrees.

Dr. Ali has published 43 research papers in International Journals.

Dr. Ali has to his credit Twenty One (21) patents in the domains of Electrical, Electronics & Computing Technologies. His main areas of interest are

Microprocessors, Digital Signal Processing, Operating Systems, Intelligent Tutoring Systems, Embedded Systems and Java Technology.

Dr. M. S. Ali is the recipient of IETE's Brig. M. L. Anand award for innovative contribution to the field of e-learning. Dr. Ali has been recently awarded with "Outstanding Principal of the Year 2017-18" by Sant Gadge Baba Amravati University, Amravati.