I am very much delighted and pleased to learn that the department of Higher education is bringing out an information booklet to be releases and distributed at the historic 103rd Indian Science Congress at Mysuru. Karnataka is the front runner in many fields and is known in the entire world for its many strengths. The qualified manpower availability in the state is the major backbone of its strengths. In the Department of Higher Education, large number of information Communication Technology initiatives aimed at bringing large scale reforms in administering of quality education and good content delivery under Jnana Sangama initiative. These initiatives are continued. It is hoped that the Karnataka State will become the model for many others to follow and all the stakeholders will benefit from this. Let Science grow & glow, everywhere.

Sri Siddaramaiah
Chief Minister
There are many challenges before the people who manage and run the Higher Education Institutions. These institutions have to provide quality education to students to make them competitive. Also the skills of the students have to be sharpened and upgrade so that they can be gainfully employed anywhere in the state, country and the World. ICT enables the administration to leverage its potential for giving good quality education, quality content delivery and upgrading other skills of the students.

I am happy that in Karnataka in the Higher Education sector wide ranging reforms are being introduced through ICT, which will have far reaching implications.

I hope and believe that these reforms once carried out in right earnest and with zeal, would benefit all stakeholders.

Sri Basavaraj Rayareddi

Karnataka is a blessed State with much strength. The backbone of its strength is in its qualified, skilled manpower, ably supported by a chain of Higher Education Institutions, with more reforms and ICT initiatives and much more can be done in the State has been proven now. More accountability and transparency is possible through institutional changes. All stakeholders in Higher Education have to be empowered to bring out the best in them for overall common good.

In a global village all have to be competitive. We in the Department have a duty cast upon us to make our students the better citizens of tomorrow. This is possible with the best teaching methods coupled with an extensive use of ICT.

Gradually, I am hopeful that Karnataka will become a hub of supply of qualified and skilled manpower for not only our country, but also the world.

I want to show that Karnataka is still a model state in Higher Education. It is my mission.

Bharat Lal Meena

Date 01.01.2016
Digitizing Education for a ceaseless tomorrow

The Government of Karnataka, relentless in its pursuit for excellence, has put forward a revolutionary new initiative of restructuring the incumbent functionalities of the education system by integrating its various branches and sub branches using new age technologies such as ICT to tap the immeasurable intellectual potential of the state that can be empowered to compete on a global scale.

Universities, First Grade Colleges, Engineering and Polytechnics are all administered under the vast umbrella of The Department of Higher Education, and it plans to proliferate the quality of the learning experience, enhance employability of the students and empower them to create splendid futures for themselves.

To create professionals who can rival their international counterparts there must be a creation of a talent pool with broad knowledge base, and these individuals must be imparted with appropriate skills and most importantly a winsome attitude. This can be achieved by the foresighted steps and programs taken in digitizing the entire domain of education using the ground breaking technology of ICT which employs an integration of high tech technologies to create a synergistic platform that is dedicated to progress, with the State of Karnataka leading the way to a Digital India.
Higher Education Institutions
Network in Karnataka

University
Education
Universities - 50
17 State Universities
10 Private Universities
23 Deemed to be Universities

Technical
Education
Polytechnics - 305
81 Govt. Polytechnics
44 Aided Polytechnics
180 Private Polytechnics

Collegiate
Education
Colleges - 2992
411 Government Colleges
321 Aided Colleges
433 B.Ed., Colleges
24 Univ. Constituent Colleges
1803 Private Colleges

Engineering colleges - 207
14 Govt. Eng. Colleges
11 Eng. Colleges
182 Private Eng. Colleges

MIS Challenges
Low priority to collating, updating & sharing data
Poor adoption of ICT in universities/institutions
ICT useful tool for learning, governance and academic activities
Uploading data must be linked with critical areas like approval, renewal, grants etc.
Difficult to update dynamically unless system integrated
Cyber security concerns
Information overload

JNANA SANGAMA
Smart-KEY
(Karnataka Education Yardstick)

A one-of-a-kind portal to cater high quality education content across all departments for students of the State to access from anywhere on any device.

This platform is aimed at facilitating free access to the best e-Content and Massive Online Open Courseware (MOOC) that will offer students higher quality education and by extension benefit the State with well-trained human resource. The initiative aims to provide an end-to-end technology solutions to most dimensions of Higher Education.

Aims at
Comprehensive reforms through ICT
Making administration transparent and efficient
Expanding access to learning
Improving quality & reducing cost
Ensuring inclusive education
Optimal use of resources
Creating quality learning ecosystem
Providing end-to-end solution for all needs of learning, academics, skilling

Synergy of Information Communication Technology (ICT) of all institutions of higher learning
Transparent Administration

Key Advancements

- Grievances, Redress and Action Tracking
- Online Affiliation System
- Electronic Answer Script Evaluation System (EASE)
- Examination Management System
- e-Content Sharing and Standardization
- e-Library Networking and Synergy
- Education Management Information System (EMIS) with Dashboard
- e-Administration System - Office Suite
- Accreditation Monitoring

These initiatives, and many of the same ilk, integrated with the help of ICT, aim to create a system that is easily updatable, accessible and also uses cutting-edge modern technology for co-ordination and integration, giving students and teachers a platform to raise their concerns and employees the ease of face-to-face communication which makes the process of evaluation unified and extensively accurate.
Accountability

Key Advancements

- Class Matrix through faculty time-table
- Student feedback system
- Anti-plagiarism software
- Teacher's Biometric Attendance
- Academic output monitoring system
- Online Internal Marks Monitoring
- e-Attendance, Online Class Monitoring and Matrix
- Human Resource Management System (HRMS)
- Rating of Universities started in State

Be it a government, a company or an education system, the key factor to its successful longevity is accountability. The aforementioned initiatives guarantee Grade A performance from the teacher as well as the students by facilitating them with the technology and opportunity to monitor each other’s performance while safeguarding the interests and in turn the future of the students by ensuring a fair evaluation system and eliminating intellectual fraud.
Equality in Edification

Key Advancements
- Online monitoring of centre for competitive exams
- Online Scholarship Management System/Student Database
- Online Question Paper Delivery System
- "JNANA SANGAMA" monitoring
- Common research centre and use of requirements monitoring systems
- "SAHABHAGITVA" monitoring system

Genius and potential are not bound by the many schisms of our society and this must be recognized for our country to reach the apex of development and the Government of Karnataka is striving to do just that. Initiatives that involve the State granting and monitoring grants for colleges that have crossed 25 or 50 or 75 year mark and have proven their commitment of educating the youth of the country and also another initiative that consists of reputed public institutions coming forward to help in terms of sharing best practices and quality education for the rural colleges are sure to make acumen centric incongruity of Higher Education history.
Accessibility

Key Advancements
- e-Feedback system by student about teacher
- Online Admission for PG and UG Students
- Conversion of Existing Classrooms into Smart Class, Tele Education, Campus Wi-Fi
- e-content development and standardization
- Repository of higher education certificate and verification online
- Question Bank-10 years old
- Overseas Centre for Foreign Students (OCFS)
- Inter-connectivity of Universities/Institutions
- e-Library Networking and Synergy
- Video Conferencing for Monitoring and Supervision
- Website Integration
- e-Magazine

Much like how the ease of doing business is easily achievable by the advents of modern technology, ICT with its highly adaptive innovations has made Department of Higher Education of Karnataka a force to be reckoned with by creating user-friendly online platforms to do everything from accessing digitized documents to admitting oneself online.
Foresightedness

Key Initiatives

Donor and endowment monitoring

Setting up of well-equipped Studios in each University

Tracking the Teacher Exchange Program

Research Tracking

Motivational Talks

Academia Industry Interface

The best of actions and plans fall through as they lack what drives excellence, vision. The Government of Karnataka has envisioned a future where infrastructure meets acumen, where stories of success incite brilliance and life-changing ideas are harnessed to create tools of the future and all this is achievable by initiatives embedded through technology employing the novelties of ICT.
Enhancing Employability

Key Initiatives

- MOOCs
- Monitoring of vocational courses
- Remedial Classes
- Placements Monitoring System interfaced with industry
- Adoption level of best practices
- System for tracking seminars, workshops, group discussions
- Cyber Security Learning System
- Collaboration with foreign universities

The State of Karnataka has been a trailblazer for quality education and plans to cement this status by enhancing from being an able educator to the facilitator of boundlessly prosperous careers by opening up massive portals for international online courses, countless collaborations with foreign institutions and programs that will mould the abilities of the leaders of tomorrow.
Moving Forward...

Education is the cornerstone of a prosperous society and the Government of Karnataka has not only been successful in recognizing that fact, but has also taken several comprehensively planned steps in making sure that the graduates of the State can comfortably compete, with the vicissitudes of the international market. With quality education, Karnataka is poised to become a hub of qualified, skill manpower for India and the world.