



INTERNATIONAL JOURNAL OF CREATIVE RESEARCH THOUGHTS (IJCRT)

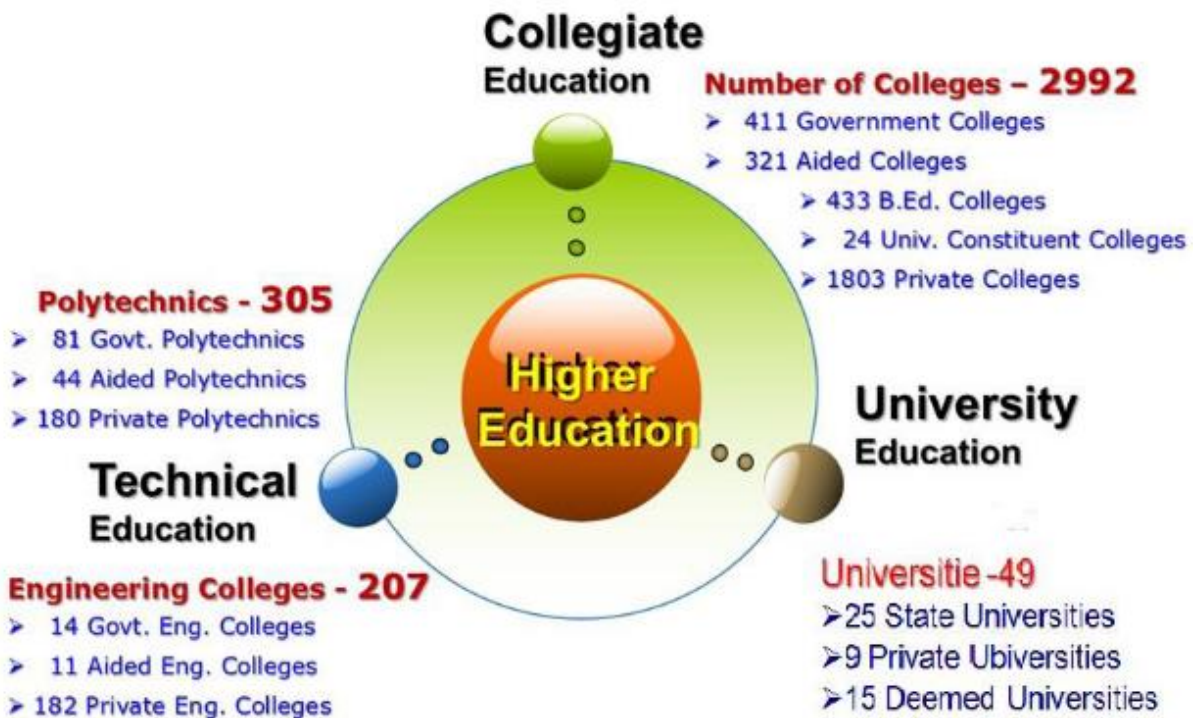
An International Open Access, Peer-reviewed, Refereed Journal

ICT INITIATIVES IN HIGHER EDUCATION DEPARTMENT, GOVERNMENT OF KARNATAKA.

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Higher Education Institutions in Karnataka



egovernance Activities in Higher Education

Higher Education Department is envisaging to leverage the potential of ICT in Teaching-Learning and Administrative processes for the benefit of the stakeholder in Higher Education.

eGovernance activities are expected to bring-in

- Better Learning Ecosystem in Colleges and Universities
- Transparency and Efficiency in Administration
- Effective use of Existing Recourses
- Increase in Higher Education Gross Enrolment Ratio (GER)
- Quality in Higher Education in Karnataka.

ICT Schemes in the Offing

Academic and Student Related

85 ICT based Activities

Administration Related-15

Exclusively Universities 16

Colleges and Polytechnics 7

Universities, Colleges and Polytechnics-47

Major ICT Schemes could share...

- Administration system- Office suite
- E-Content sharing
- Interconnectivity of Universities and Colleges.
- E- Attendance system for students and teachers.
- Feedback system from student about Teachers.
- E-Affiliation system
- Examination management (EMS) / Electronic answer script evaluation system (EASE)
- Link to portal of National Educational Agencies and NAAC
- UMIS
- HRMS
- Online question bank.
- E Library.
- Karnataka Moocs
- Class matrix and Monitoring
- Adoption of Rural colleges by Universities.

Office Suit

- **Features**
 - Timeliness
 - Accuracy
 - Consistency
 - Completeness
 - Relevance

Components of Office Suit:

- Letter Monitoring System
- File Monitoring System
- Court Case Monitoring System
- Disciplinary Enquiry Cases Monitoring System
- Paperless office
- Grievance Monitoring System
- Audit para Monitoring System
- Online Proceedings Management System
- Project Monitoring System
- Assets Management System

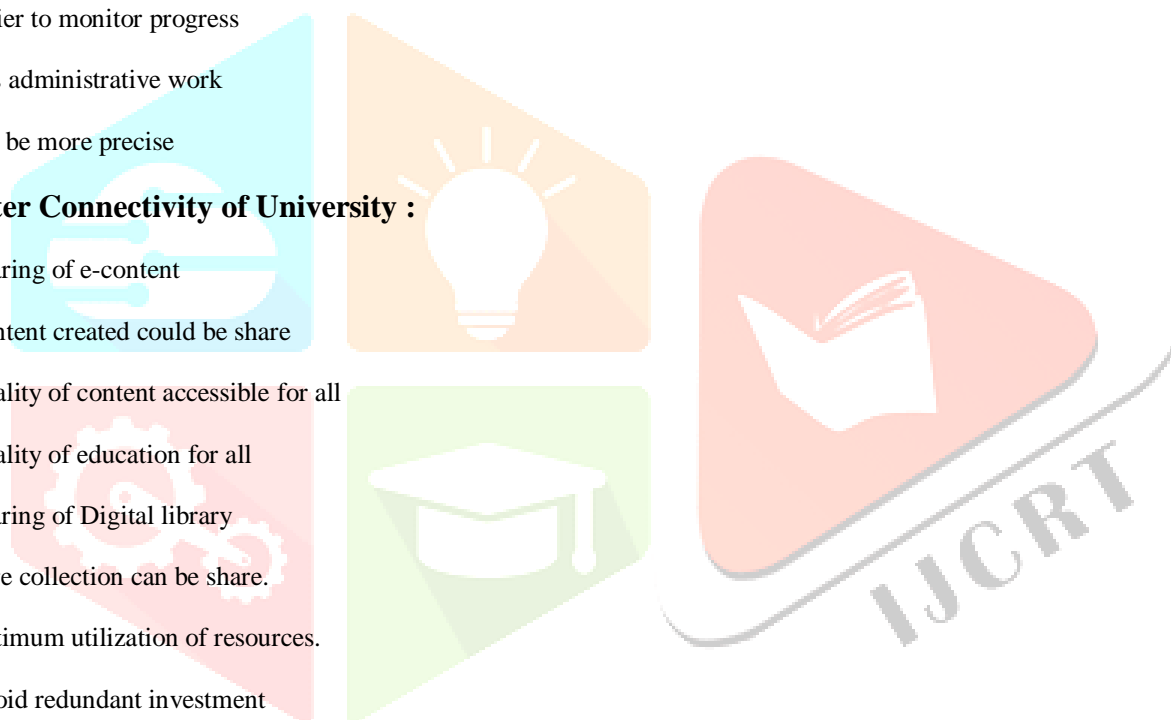
E-Content sharing :

- In an on-line multimedia learning environment:
 - teaching & learning is 'one-to-one' (individual)
 - more interactivity (in normal classroom, it varies with the class size)
 - Learner-centered
 - Learner monitoring & grading system

Benefits :

- **Convenient**
 - Self-service (mix and match)
 - On-demand (anytime, anywhere)
 - Private learning
 - Self-paced
 - Flexibility: (modular package)
- **Cost-effective**
 - Virtual learning environment
 - Share lessons among Colleges
 - Reduce material cost

- Reduce travel/accommodation
- **Consistent** :
- Central control of content
- Same quality of content for all
- Same quality of education for all
- media-rich
- Easier to understand & more engaging
- **repeatable**
- As many times as you like
- easier to monitor progress
- less administrative work
- can be more precise
- **Inter Connectivity of University :**
- Sharing of e-content
- Content created could be share
- Quality of content accessible for all
- Quality of education for all
- Sharing of Digital library
- Rare collection can be share.
- Optimum utilization of resources.
- Avoid redundant investment
- Exchange of faculty
- University can exchange eminent faculty.



E-Attendance Monitoring system (Teachers and Students)

- Features
- E-Attendance Monitoring System is attendance monitoring system using IT technologies.
- Biometric attendance is already introduced in 370 Govt. Colleges.
- Enrollment of student and faculty.
- Linked with Time table and teacher.
- Capturing attendance through system.
- Send absentee information to Parents immediately.

- Generate various reports like daily attendance and monthly attendance reports.
- System transfers data automatically to web server,
- Staff related statistical reports can be viewed.

E-Feedback system by student about Teacher

➤ Features

- E-Feedback System is student give feedback using mobile and IT technologies.
- Student can access the Apps through their mobile.
- In every class hour they could give feedback of the class and teacher.
- They can grade the class and teacher.
- Report will be consolidating in system and system generate grade of the class and teacher.
- Head of the institution can monitor day/monthly wise.
- It is linked with Attendance and Timetable.

Online affiliation system :

•Features

- Applicable to Universities and Department of Technical Education.
- Colleges need to apply online for affiliation to concerned University
- Application will process and members for LIC visit will be assign.
- Data for the member accessible online.
- Evaluation after spot visit can be done.
- Report need to upload online same day only.

Examination Management system (EMS) / Electronic Answer Script Evaluation(EASE)

•Features

- It is end to end solution.
- It covers from admission to Degree certificate printing.
- Data capture in admission will be processed throughout his study.
- Highly secured, robust, efficient system
- Scanned answer script of the student will be send to authenticated evaluator,
- Teacher evaluate script electronically, which will supported by QP and scheme of valuation.
- Marks allotted process automatically and generate mark sheet.
- Process the result.

Electronic Answer Script Evaluation

- Digital Evaluation System is being used in Vishwesvaraya Technological University (VTU), and Rajeev Gandhi University for Health Sciences (RHUHS).
- Application Software design, development, deployment and maintenance will be carried out by National Informatics Center (NIC), Bangalore.
- The software developed by NIC is being tested by Universities.

Electronic Answer Script Evaluation :**➤ Implemented in other Universities**

- Chhattisgarh Swami Vivekananda Technical University, Bhilai, India.
- Gujarat Technological University, Ahmadabad
- Central Board of Secondary Education, New Delhi
- Mumbai University, Mumbai
- Rajiv Gandhi University of Health Sciences, Bangalore .
- Saurashtra University, Rajkot
- Anna University of Technology, Coimbatore

EMIS

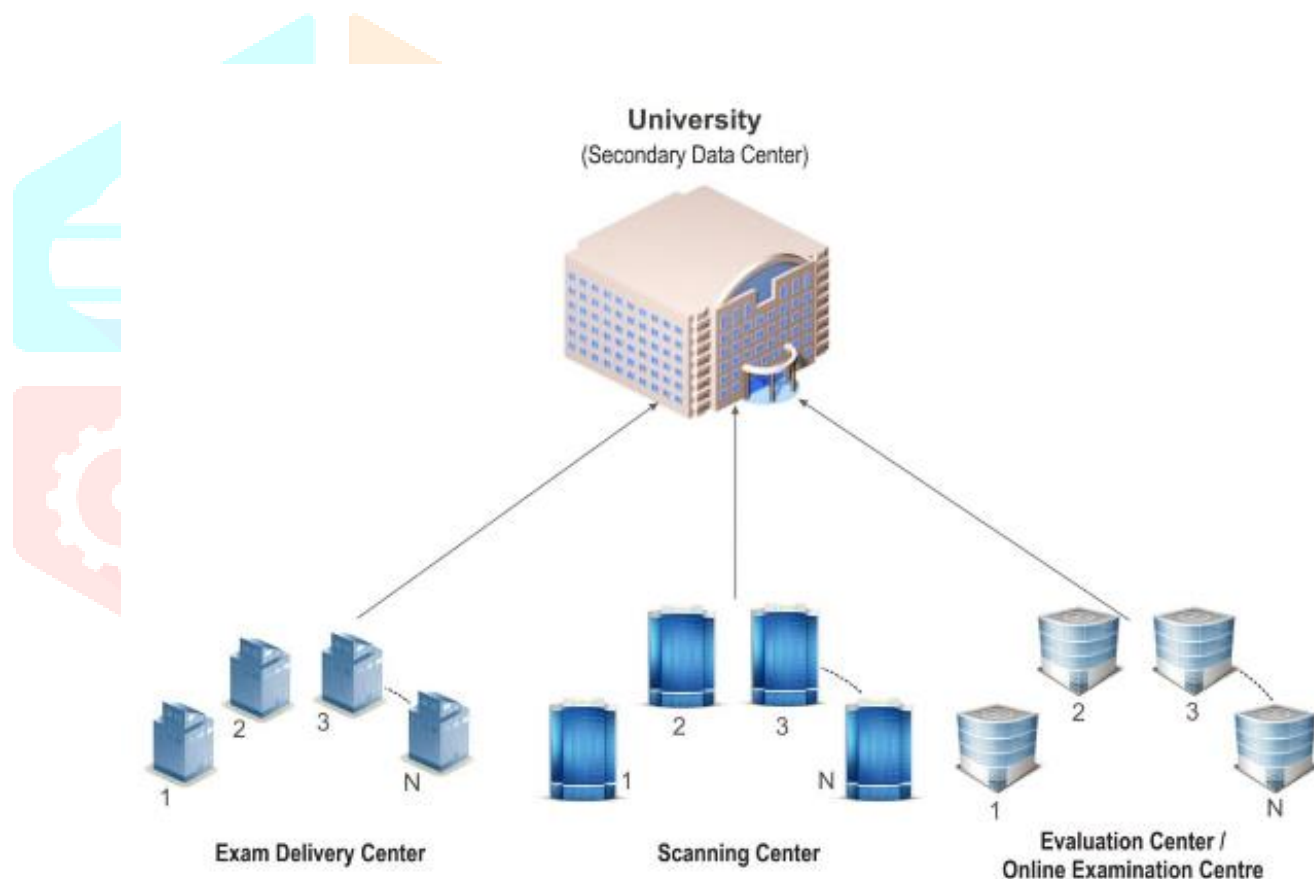
EMIS modules already implemented Director of Technical Education/Collegiate Education.

- Student record management system.
- Academic record management system.
- Attendance management system.
- Time table management system.
- Student response system.
- Project Management system.
- Video Conference through internet.
- Fees and cash book management system.
- Store management system.
- Leave management system.
- Payroll management system.
- Digital library system.
- SMS/Email broadcast.
- Academic record.
- Meeting Scheduler.
- 16) Website Integration.

Question Paper Delivery System (QPDS)**Features**

- Secured question paper delivery so as to avoid any leakage of question papers
- Fool proof delivery of the question papers at the Exam Centers
- Secret key authentication system for QP printing
- Generating different types of question papers
- Randomization and Selection of the Question Papers will be easy

- QPDS ensures the complete QP delivery process to exam halls securely Within the specified time.
- Secured evaluation process to ensure there is no chances of malpractices
- Simultaneous evaluation of one answer script by multiple evaluators
- Accuracies in evaluation and totaling of marks
- Valuation anywhere anytime using specially customized laptops or mobile devices
- e-allocation of answer script to the evaluators by Registrar
- No loss of answer scripts due to accidents like fire, floods etc
- Easier multiple valuation process
- Faster turnaround in publishing the results
- Enables for quick view answer scripts option for students after publication of results



- UMIS Modules Student Office Information System;
- Course Information System Faculty Information System;
- Student Information System Library Information System;
- Infra structure Information System
- Quality Management and Assessment System
- Finance Information System Smart Card Project
- Human Resources Information System e-Document Management (e-Signature);
- Inventory Information System

- **Program URL developed by NIC (33/86)**

- Assets Management System. http://164.100.133.129:81/asset_new
- File Monitoring system <http://164.100.133.129:81/lpohe/>
- Letter Monitoring System <http://164.100.133.129:81/lpohe/>
- DE Monitoring S/W. <http://164.100.133.129:81/lpohe/>
- Online Digital Government Communication <http://164.100.133.129:81/lpohe/>
- Grievance Monitoring System <http://164.100.133.129:81/lpohe/>
- Project Monitoring System. <http://164.100.133.129:81/pms>
- Audit Para Monitoring System. <http://164.100.133.129:81/audit/>
- Court Cases Monitoring system. <http://164.100.133.129:81/lpohe/>
- Dash Board at Management level. <http://164.100.133.129:81/dashboard/>
- Online proceedings follow up Action. <http://164.100.133.129:81/e-pra/>
- Placement cell <http://164.100.133.129:81/placementcell>
- Paperless Office. <http://164.100.123.121:81/plo> Online Digital Government Communication (ODGC)
<http://164.100.133.129:81/lpohe/>
- Web-based Biometric Time-Attendance System for Staff http://www.dce.kar.nic.in/BiometricSystems_2014.html

