

# **Innovative Educational Initiatives and Implementation Policy (NEP 2020 Aligned)**



Lakireddy Bali Reddy College of Engineering  
(Autonomous)  
Mylavaram – 521230

## **1. Preamble**

In alignment with the transformative vision of National Education Policy 2020 and quality benchmarks of National Assessment and Accreditation Council and National Board of Accreditation, the institution adopts innovative, inclusive, and student-centric educational practices. The focus is on flexibility, multidisciplinary learning, inclusivity, and holistic development.

## **2. Vision**

To create a future-ready, innovation-driven, and inclusive learning ecosystem that nurtures technical competence, ethical values, and lifelong learning.

## **3. Objectives**

- Promote innovative pedagogies (flipped learning, PBL, experiential learning)
- Enable student mobility and flexible learning pathways
- Implement Academic Bank of Credits (ABC) framework
- Foster multidisciplinary and interdisciplinary education
- Integrate Indian Knowledge Systems (IKS) and human values
- Encourage teaching in Indian languages
- Ensure equity, inclusivity, and accessibility
- Support slow and advanced learners through structured interventions
- Enhance digital learning and industry integration

## **4. Scope**

Applicable to:

- All UG/PG engineering programs
- Faculty, students, and academic administrators
- Institutional bodies (IQAC, Academic Council, BoS, Departments)

## **5. Key Initiatives and Implementation**

### **5.1 Student Mobility & Academic Bank of Credits (ABC)**

#### **Initiatives**

- Registration of students in Academic Bank of Credits
- Credit transfer through SWAYAM/NPTEL/MOOCs
- Semester exchange / interdisciplinary electives
- Multiple entry and exit options

#### **Implementation**

- Integration with DigiLocker and ABC portal
- Credit mapping by Academic Council
- MoUs with institutions for student exchange

#### **Outcomes**

- Increased flexibility in learning
- Enhanced academic mobility
- Lifelong learning opportunities

#### **Evidence**

- ABC IDs of students
- Credit transfer records
- MoU documents

### **5.2 Multidisciplinary / Interdisciplinary Education**

#### **Initiatives**

- Open electives across departments
- Minor/Honors programs
- Interdisciplinary projects (e.g., AI in Mechanical, IoT in Civil)

#### **Implementation**

- Curriculum restructuring as per NEP 2020
- BoS approval for interdisciplinary courses
- Collaborative teaching

#### **Outcomes**

- Broader knowledge base
- Innovation and cross-domain skills

#### **Evidence**

- Curriculum structure
- Course registration data
- Project reports

### **5.3 Innovative Teaching-Learning Practices**

#### **Initiatives:**

- Flipped Classroom
- Project-Based Learning (PBL)
- Experiential Learning
- Case Study-Based Teaching

#### **Implementation:**

- LMS-enabled content delivery
- Active learning classrooms
- Continuous assessment

#### **Outcomes:**

- Improved engagement and CO attainment

#### **Evidence:**

- Lesson plans, LMS logs, student feedback

### **5.4 Digital & Technology-Enabled Learning**

#### **Implementation:**

- Learning Management Systems (LMS)
- Virtual Labs and simulations
- Smart classrooms

#### **Outcomes:**

- Flexible and self-paced learning

#### **Evidence:**

- ICT usage reports
- Digital content records

### **5.5 Holistic Education & Human Values**

#### **Initiatives**

- Courses on **Ethics, Universal Human Values, Environmental Studies**
- NSS, NCC, and community engagement programs
- Yoga, wellness, and life skills training

### **Implementation**

- Mandatory audit/value-added courses
- Integration into curriculum and co-curricular activities

### **Outcomes**

- Ethical awareness and social responsibility
- Emotional and physical well-being

### **Evidence**

- Course syllabi
- Activity reports
- Participation records

## **5.6 Indian Knowledge System (IKS)**

### **Initiatives**

- Courses on Indian heritage, traditional knowledge, and sustainability
- Guest lectures on IKS topics
- Integration of traditional practices in engineering (e.g., water management, architecture)

### **Implementation**

- Inclusion in curriculum as electives
- Collaboration with experts

### **Outcomes**

- Awareness of indigenous knowledge
- Cultural appreciation and sustainability mindset

### **Evidence**

- Course materials
- Event reports
- Photographs

## **5.7 Teaching in Indian Languages**

### **Initiatives**

- Bilingual teaching (English + regional language)
- Technical terminology support in Indian languages
- Use of translated content and subtitles

### **Implementation**

- Faculty training programs
- Development of bilingual learning resources

### **Outcomes**

- Improved comprehension for students
- Increased inclusivity

### **Evidence**

- Teaching materials
- Student feedback
- Training records

## **5.8 Industry Integration & Skill Development**

### **Implementation:**

- Internships and industrial visits
- Guest lectures and certifications
- Live projects and consultancy

### **Outcomes:**

- Enhanced employability

### **Evidence:**

- MoUs, internship records

## **5.9 Inclusivity and Equity**

### **Initiatives**

- Equal Opportunity Cell
- Gender sensitization programs
- Anti-discrimination policies

### **Implementation**

- Scholarships and financial aid
- Awareness programs
- Grievance redressal mechanisms

### **Outcomes**

- Inclusive campus environment
- Reduced dropout rates

**Evidence**

- Policy documents
- Scholarship records
- Committee reports

**5.10 Support for Economically, Socially & Physically Challenged Students****Initiatives**

- Fee concessions and scholarships
- Assistive technologies (ramps, lifts, scribes)
- Special mentoring

**Implementation**

- Barrier-free infrastructure
- Dedicated support cells
- Collaboration with NGOs

**Outcomes**

- Equal access to education
- Improved academic performance

**Evidence**

- Beneficiary lists
- Infrastructure photos
- Support service records

**5.11 Action Plan for Slow Learners****Identification**

- Based on internal assessment, attendance, and faculty feedback

**Initiatives**

- Remedial classes
- Bridge courses
- One-to-one mentoring
- Simplified study materials

## **Implementation**

- Department-wise schedules
- Continuous monitoring by mentors

## **Outcomes**

- Improved pass percentage
- Reduced failure rates

## **Evidence**

- Remedial class attendance
- Performance comparison reports

## **5.12 Support for Advanced Learners**

### **Initiatives**

- Honors/Minor programs
- Research projects and publications
- Competitive exam coaching (GATE, GRE, etc.)

### **Outcomes**

- Higher academic excellence
- Increased placements and higher studies

## **6. Implementation Framework**

<b>Level</b>	<b>Responsibility</b>
<b>IQAC</b>	Policy formulation, monitoring
<b>Academic Council</b>	Approval and curriculum design
<b>BoS</b>	Course Design
<b>Departments</b>	Execution and documentation
<b>Faculty</b>	Delivery and mentoring

## **7. Monitoring & Review**

- Periodic IQAC review meetings
- Academic and administrative audits
- Feedback analysis from stakeholders
- Continuous improvement mechanism

## 8. Key Performance Indicators (KPIs)

- % of students with ABC ID
- Number of innovative practices adopted
- Student participation in MOOCs
- CO/PO attainment levels
- Placement and higher education rates

## 9. Documentation & Evidence

- Curriculum and BoS minutes
- ABC and MOOC records
- Innovative teaching documentation
- Inclusivity and support records
- Feedback and analysis reports

The Institute shall continuously review and update the approved policy and is committed to its implementation

### Policy History:

<b>Version</b>	<b>Approved by</b>	<b>Implementation and Monitoring by</b>
V1.0(Original)	20 <sup>th</sup> Meeting of GB held on 31-01-2026	Dean (Academics)