



**INSTITUTIONAL ASSESSMENT AND ACCREDITATION  
(Effective from July 2017)**

**Accreditation - (Cycle - 2)**

**PEER TEAM REPORT ON  
INSTITUTIONAL ACCREDITATION OF  
LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING**

**MYLAVARAM  
Andhra Pradesh  
521230**

**NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL  
An Autonomous Institution of the University Grants Commission  
P.O. Box No. 1075, Nagarbhavi, Bengaluru - 560 072, INDIA**

**Section I:GENERAL INFORMATION**

1.Name & Address of the institution:	LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING MYLAVARAM Andhra Pradesh 521230	
2.Year of Establishment	1998	
3.Current Academic Activities at the Institution(Numbers):		
Faculties/Schools:		
Departments/Centres:	10	
Programmes/Course offered:	14	
Permanent Faculty Members:	265	
Permanent Support Staff:	178	
Students:	3848	
4.Three major features in the institutional Context (Asperceived by the Peer Team):	1. State of art Infrastructure 2. All Energy needs met through Solar Plant 3. Well equipped Spacious Library	
5.Dates of visit of the Peer Team (A detailed visit schedule may be included as Annexure):	From : 05-10-2018 To : 06-10-2018	
6.Composition of Peer Team which undertook the on site visit:		
	<b>Name</b>	<b>Designation &amp; Organisation Name</b>
Chairperson	DR. DEVANAND PADHA	Vice Chancellor(in-charge),CENTRAL UNIVERSITY OF JAMMU
Member Co-ordinator:	MR. CHANDANA GOSWAMI	
Member:	DR. SHIVAPRASAD DANDAGI	
NAAC Co - ordinator:	Dr. Vishnukanth S Chatpalli	

## Section II: CRITERION WISE ANALYSIS

Observations (Strengths and/or Weaknesses) on each qualitative metrics of the key Indicator under the respective criterion (This will be a qualitative analysis of descriptive nature aimed at critical analysis presenting strength and weakness of HEI under each criteria)

Criterion1 - Curricular Aspects (Key Indicator and Qualitative Metrics(QIM) in Criterion1)	
1.1	Curriculum Design and Development
1.1.1 QIM	Curricula developed /adopted have relevance to the local/ national / regional/global developmental needs with learning objectives including program outcomes, program specific outcomes and course outcomes of all the program offered by the Institution
1.2	Academic Flexibility
1.3	Curriculum Enrichment
1.3.1 QIM	Institution integrates cross cutting issues relevant to Gender, Environment and Sustainability, Human Values and Professional Ethics into the Curriculum
1.4	Feedback System

### Qualitative analysis of Criterion 1

The college is an ISO 9001:2015 Certified institution, approved by AICTE and is affiliated to Jawaharlal Nehru Technical University Kakinada (JNTUK). The college was accredited with 'A' Grade by NAAC in 2013. At present only Mechanical Engineering Department has NBA (Tier 1 ) accreditation; four more programs are in the process of accreditation. The college has been awarded 2 (f) and 12(B) status and CPE by the UGC. The college has adopted the new model curriculum of AICTE. Outcome Based Education is followed. Programme Outcomes, Program Specific Outcomes, and Course Outcomes are clearly spelt out for most of the departments. Academic calendar is followed and lesson plans are uploaded at the beginning of the semester.

There is a well planned process for curriculum formation and delivery. Issues on Gender, Environment and Sustainability, Human Values and Professional Ethics are built into the Curriculum.

Criterion2 - Teaching-learning and Evaluation (Key Indicator and Qualitative Metrics(QIM) in Criterion2)	
2.1	Student Enrollment and Profile
2.2	Catering to Student Diversity
2.2.1 QIM	The institution assesses the learning levels of the students, after admission and organises special programs for advanced learners and slow learners
2.3	Teaching- Learning Process
2.3.1 QIM	Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences
2.3.4 QIM	Preparation and adherence to Academic Calendar and Teaching plans by the institution
2.4	Teacher Profile and Quality
2.5	Evaluation Process and Reforms
2.5.4 QIM	Positive impact of reforms on the examination procedures and processes including IT integration and continuous internal assessment on the examination management system
2.6	Student Performance and Learning Outcomes
2.6.1 QIM	Program outcomes, program specific outcomes and course outcomes for all programs offered by the Institution are stated and displayed on website and communicated to teachers and students
2.6.2 QIM	Attainment of program outcomes, program specific outcomes and course outcomes are evaluated by the institution
2.7	Student Satisfaction Survey

#### Qualitative analysis of Criterion 2

In every course, after the conduct of first mid examination the students are classified according to their learning capabilities. Accordingly, the slow learners are given additional learning assignments and corresponding arrangements are made in terms of extra classes, remedial classes. Bridge courses are conducted for lateral entry students and first year late admitted students. For effective mentoring and for the welfare of the students, 15 to 20 students are attached to a faculty mentor. Special coaching classes are offered for GATE and other Competitive exams for advanced learners. Advanced learners are encouraged to participate in value-added certification courses.

ICT enabled teaching methods have been made available in the institute. The Teaching-Learning Process is supported with Regular Practical Sessions, access of Digital

Library, Online Courses (MOOCS, NPTEL etc.).

An internal examination executive committee (EEC) headed by Principal is constituted to monitor the activities of examination section continuously for effective and smooth functioning. Confidentiality and security is maintained by having a dedicated server and RFID locking with standby, protected server with firewall authorised access to the Controller of Examination through security key only, CCTV surveillance and backup data storage. Internal assessment is transparent and robust. Grievance redressal mechanism exists and is transparent. Academic calendar is adhered to.

Program outcomes, program specific outcomes and course outcomes for all programs offered by the institution are stated and displayed on website and communicated to teachers and students. Students are made aware of it during the orientation program and also through workshops. The process of course outcome assessment is

based on mid examination, semester end examination, assignment and quiz. Feedback from alumni is also incorporated. CO PO mapping is done. Attainment of program outcomes, program specific outcomes and course outcomes are evaluated by the institution.

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Criterion3 - Research, Innovations and Extension (Key Indicator and Qualitative Metrics(QIM) in Criterion3)	
3.1	Promotion of Research and Facilities
3.2	Resource Mobilization for Research
3.3	Innovation Ecosystem
3.3.1 QIM	Institution has created an eco system for innovations including Incubation centre and other initiatives for creation and transfer of knowledge
3.4	Research Publications and Awards
3.5	Consultancy
3.6	Extension Activities
3.6.1 QIM	Extension activities in the neighbourhood community in terms of impact and sensitising students to social issues and holistic development during the last five years
3.7	Collaboration

#### Qualitative analysis of Criterion 3

Incubation centre needs improvement. However 6 patents have been published. Research publications can be seen in most of the departments. NSS plays an active role in extension activities in the neighbourhood. Regular social service activities include cleanliness drives, environmental protection, health care support and educational support among others. It has adopted a few villages also. The NSS unit makes efforts to involve the village community in extension activities and constantly strives to sensitise students into developing a social concern and orientation.

Criterion4 - Infrastructure and Learning Resources (Key Indicator and Qualitative Metrics(QIM) in Criterion4)	
4.1	Physical Facilities
4.1.1 QIM	The institution has adequate facilities for teaching - learning. viz., classrooms, laboratories, computing equipment, etc
4.1.2 QIM	The institution has adequate facilities for sports, games (indoor, outdoor),gymnasium, yoga centre etc., and cultural activities
4.2	Library as a Learning Resource
4.2.1 QIM	Library is automated using Integrated Library Management System (ILMS)
4.2.2 QIM	Collection of rare books, manuscripts, special reports or any other knowledge resource for library enrichment
4.3	IT Infrastructure
4.3.1 QIM	Institution frequently updates its IT facilities including Wi-Fi
4.4	Maintenance of Campus Infrastructure
4.4.2 QIM	There are established systems and procedures for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc.

#### Qualitative analysis of Criterion 4

The college has adequate number of class rooms and laboratories / workshops as per norms of AICTE. Classrooms are ICT enabled. Most of the departments are equipped with their own computing resources as well as departmental library. Departments have their own specialized software in their laboratories.

Indoor as well as outdoor playgrounds allow for some sports activities. A qualified Physical Director is there to guide the students in sports. Gymnasium and Yoga facilities are also available. The college has spacious Library which is fully automated. The Digital Library is provided with various e-resources. It offers access to the e-resources /NPTEL /SONET video lectures. There are 8 centralized servers and all computers are linked through LAN. The campus is wi-fi enabled with adequate firewall security.

A separate computer maintenance team is available which handles the departmental requirements. For every computer centre, a Programmer / Technician are recruited and a faculty member is made in-charge of the centre. An exclusive department with 04 hardware engineers is functioning in the college to cater to the needs of day-to-day computer maintenance. All the departments take care of timely maintenance of the laboratory equipment. Most of the maintenance work is completed during summer break.

Criterion5 - Student Support and Progression (Key Indicator and Qualitative Metrics(QIM) in Criterion5)	
5.1	Student Support
5.2	Student Progression
5.3	Student Participation and Activities
5.3.2 QIM	Presence of an active Student Council & representation of students on academic & administrative bodies/committees of the institution
5.4	Alumni Engagement
5.4.1 QIM	The Alumni Association/Chapters (registered and functional) contributes significantly to the development of the institution through financial and non financial means during the last five years

#### Qualitative analysis of Criterion 5

Although there is no student council, students are members of many academic and administrative committees. Alumni association was registered in 2006. They meet at least once in a year in the college. The alumni help in mentoring and offering career guidance to students. They also facilitate placement. Feedback is sought from the alumni to update the curriculum and make it suitable for present needs of industry and technology.



Criterion6 - Governance, Leadership and Management (Key Indicator and Qualitative Metrics(QIM) in Criterion6)	
6.1	Institutional Vision and Leadership
6.1.1 QIM	The governance of the institution is reflective of an effective leadership in tune with the vision and mission of the institution
6.1.2 QIM	The institution practices decentralization and participative management
6.2	Strategy Development and Deployment
6.2.1 QIM	Perspective/Strategic plan and Deployment documents are available in the institution
6.2.2 QIM	Organizational structure of the institution including governing body, administrative setup, and functions of various bodies, service rules, procedures, recruitment, promotional policies as well as grievance redressal mechanism
6.2.4 QIM	Effectiveness of various bodies/cells/committees is evident through minutes of meetings and implementation of their resolutions
6.3	Faculty Empowerment Strategies
6.3.1 QIM	The institution has effective welfare measures for teaching and non-teaching staff
6.3.5 QIM	Institution has Performance Appraisal System for teaching and non-teaching staff
6.4	Financial Management and Resource Mobilization
6.4.1 QIM	Institution conducts internal and external financial audits regularly
6.4.3 QIM	Institutional strategies for mobilisation of funds and the optimal utilisation of resources
6.5	Internal Quality Assurance System
6.5.1 QIM	Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing the quality assurance strategies and processes
6.5.2 QIM	The institution reviews its teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals through IQAC set up as per norms
6.5.5 QIM	Incremental improvements made during the preceding five years ( <i>in case of first cycle</i> )  Post accreditation quality initiatives ( <i>second and subsequent cycles</i> )

#### Qualitative analysis of Criterion 6

The governance of the institution is reflective of an effective leadership in tune with the vision and mission of the Institution. Infrastructure is there to provide an environment most conducive to learning and to create a stimulating intellectual atmosphere in the campus. Other extra curricular facilities ensure holistic development of the student. Faculty members participate in department level meetings and the resolutions are passed onto the Principal for final decision. In addition, faculty members are members of various committees formed at department level and institute level. The Principal regularly conducts College Advisory Board (CAB) meeting to discuss various issues. There are various committees to assist the principal viz. IQAC, Finance Committee, Grievance and Redressal Committee, Internal Complaint Committee, Examination Committee, Training and Placement Committee, Library Committee, etc.

Governing Body, Academic Council, Board of Studies, Finance Committee is in place and functioning properly. The college offers EPF, Insurance, Transportation facility as well as 50% tuition fee concession for

children of supporting staff studying at LBRCE. The college encourages faculty to attend conferences and seminars. This Faculty Performance Index is measured every semester with 60% weightage from student feedback analysis, 25% weightage from pass percentage in the subjects taught, and 15% weightage for all departmental, institute level and R&D contributions (Funded Projects, Publications, Conferences, FDPS, etc.) The performance of the non-teaching staff is currently appraised every year by the immediate supervisor followed by the necessary training and counselling.

Institution conducts internal audit and external financial audits. The external statutory auditors visit the college office twice in a year for vouching audit and submitting the final audit report.

Sources of fund for the college are fees and project funds. Annual budget is prepared and fund allocated for academics, purchase of assets and maintenance. Deficit is met out of trust support.

The IQAC was set up in 2012 and is involved in drawing the quality policies for Teaching-Learning, Research, Curriculum planning and implementation, Student activities, innovation and all the extracurricular and co-curricular activities. The institution reviews its teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals through IQAC. The infrastructure is regularly augmented, sufficient books and journals are added every year.

Criterion7 - Institutional Values and Best Practices (Key Indicator and Qualitative Metrics(QIM) in Criterion7)	
7.1	Institutional Values and Social Responsibilities
7.1.2 QIM	Institution shows gender sensitivity in providing facilities such as a) Safety and Security b) Counselling c) Common Room
7.1.5 QIM	Waste Management steps including: • Solid waste management • Liquid waste management • E-waste management
7.1.6 QIM	Rain water harvesting structures and utilization in the campus
7.1.7 QIM	Green Practices • Students, staff using a) Bicycles b) Public Transport c) Pedestrian friendly roads • Plastic-free campus • Paperless office • Green landscaping with trees and plants
7.1.18 QIM	Institution organizes national festivals and birth / death anniversaries of the great Indian personalities
7.1.19 QIM	The institution maintains complete transparency in its financial, academic, administrative and auxiliary functions
7.2	Best Practices
7.2.1 QIM	Describe at least two institutional best practices (as per NAAC Format)
7.3	Institutional Distinctiveness
7.3.1 QIM	Describe/Explain the performance of the institution in one area distinctive to its vision, priority and thrust

Qualitative analysis of Criterion 7
<p>The college has a safe and secure campus, with sufficient lighting arrangements and medical facility. For effective mentoring and welfare of the students, 15-20 students are attached to a faculty mentor. Ladies waiting halls are available in the departments. There exists a grievance redressal cell as well as Internal Complaint Committee (ICC).</p> <p>The low configured computers are donated to nearest schools. Efforts are made to reduce vehicle movement in the campus, and the institute has pedestrian friendly roads.</p> <p>The college organizes national festivals and birth / death anniversaries of the great Indian personalities. Some of the celebrations include Teachers Day, Women's day, Yoga Day, Independence Day, Republic Day, Engineers Day, Rashtriya Ekta Diwas etc.</p> <p>Financial audit is done regularly by external agencies. Formulation of financial committee as per UGC</p>

guidelines. Audited financial reports are published on the website. Documented service rules made available in the website. The institution maintains complete transparency in its financial, academic, administrative and auxiliary functions

Two best practices are :

1. Fee concession to the economically backward students, wards of the non-teaching staff and meritorious students.
2. The College is engaged in outreach activities.

Good number of students are opting for entrepreneurship.

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**Section III:OVERALL ANALYSIS**based on Institutional strengths.Weaknesses,Opportunities & Challenges(SWOC)(up to 500 words)

**Strength**

**Institutional Strength**

- Pro-active and visionary management
- A highly decentralized administration, governed by a well defined and transparent quality policy
- One programs NBA is currently accredited
- Good financial discipline through appropriate budgeting and allocation
- Good ambience

**Institutional Weakness**

- Geographically located in rural region
- Limited Industry-Institution Interaction and limited association with premier academic and R&D organizations
- Not having full residential facilities for students and staff
- Student lack good communication skills and placement is mediocre

**Institutional Opportunity**

- Opportunity to enhance research activity
- Collaboration with industry, R&D organizations and educational institutes of eminence
- Obtaining quality certification for testing equipment to enhance testing and consultancy
- Library enhancement to access international knowledge resources
- Growing Industrialization and IT hub in and around Vijayawada (40 km. from the college) for enhanced industry-institute interaction
- Inculcating the culture of entrepreneurship to rural youth through technology transfer
- Widening alumni network

**Institutional Challenge**

- Recruiting Ph.D qualified and experienced faculty
- Coping with change of technology
- Tendency towards software R&D rather than integrated software and hardware research
- Measures to be taken to attract meritorious students

#### **Section IV: Recommendations for Quality Enhancement of the Institution**

(Please limit to **ten major ones** and use telegraphic language) (It is not necessary to indicate all the ten bullets)

- The teaching should be more practical oriented
- Welfare measures for staff members (both teaching and non teaching) should be at par with the government colleges
- The communication skills of the students needs further improvement
- Placement needs further improvement
- Student toilets should be made more hygienic
- The internship period of the under graduate students should be increased
- Health care facility should be enhanced
- Seventh pay commission should be implemented
- More smart class rooms should be created
- Ambience of class rooms needs improvement
- Practical exposure, industrial visits and case studies should be improved

**I have gone through the observations of the Peer Team as mentioned in this report**

**Signature of the Head of the Institution**

**Seal of the Institution**

Sl.No	Name		Signature with date
1	DR. DEVANAND PADHA	Chairperson	
2	MR. CHANDANA GOSWAMI	Member Co-ordinator	
3	DR. SHIVAPRASAD DANDAGI	Member	
4	Dr. Vishnukanth S Chatpalli	NAAC Co - ordinator	

Place

Date

NAAC