LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING

(AUTONOMOUS)

Accredited by NAAC & NBA (CSE, IT, ECE, EEE & ME)

Approved by AICTE, New Delhi and Affiliated to JNTUK, Kakinada

L.B.Reddy Nagar, Mylavaram-521230, Krishna Dist, Andhra Pradesh, India

Internal Quality Assurance Cell (IQAC)

Best Practices during the A.Y:2018-19

Best Practice-I

Title: Academic and administrative procedures for quality teaching in OBE implementation

Goal:

Good teaching practice has a key influence on student learning - a desired outcome and a primary goal of higher educational institutions. Teachers strive to meet the principles of good practices in an effort to provide the best learning experience for their students. Accordingly, our institute has taken the task of Teaching-Learning right from the inception and specific practises are implemented in our institute.

Objectives:

LBRCE focused on the following Academic and administrative procedures to ensure quality teaching.

➢ Guide the faculty towards better teaching, planning, and research.
➢ Enhance effective knowledge transfer in the classroom.
➢ Enhance administrative efficiency and transparency.
➢ Address the problems of students and make teaching more student centric.

Context:

LBRCE has focused on academic audit every month as a standard procudere in which verification is done on preparation of course handouts, teaching material, PPTs, classroom exercises, practicals, Computation of attainment levels of COs, POs and PSOs, evaluation of students in mid-semester and Semester-end examinations. Audit form proforma is available in IQAC section of institute website.

Practice:

➢ Every month academic audit is performed for each department with two auditors from other departments.
➢ After the audit the corrective actions taken by the department are also recorded.
➢ This academic audit resulted in the following advantages.
   ✓ SMS facility has been introduced for intimating the shortage of attendance to the Parents.
   ✓ The facility has also helped in giving a quick update to the students.
   ✓ Remedial and bridge classes are conducted for academically weak students.

- ✓ Guidance for competitive examinations is scheduled for advanced learners.
- ✓ Faculty development programs are conducted to incorporate latest technology and innovative methods in teaching techniques and learning processes.
- ✓ Faculty is also motivated to use ICT tools extensively.
- ✓ Implementation of Learning Management System (LMS) (lms.lbrce.ac.in)
- ✓ Workshops and certification programs on learning skills, communication and latest technologies for students are made part of the department calendar of events.
- ✓ To organize the certification programs and workshops, CM's Skill Excellence Centre by Andhra Pradesh State Skill Development Corporation (APSSDC), ANSYS Skill Development Centre, Remote Centre - IIT Bombay - NME-ICT, Swayamprabha – NME-ICT and NPTEL Local chapter are established.
- ✓ To promote the research culture among the students, Centre for Innovation, Incubation and Entrepreneurship (CIIE) is established.
- ✓ In addition to these, industrial visits are planned regularly and Internship is introduced during semester break between pre-final year and final year to improve the industry-institute interaction.
- ✓ To improve the problem solving and self learning skills of the students, Problem Assisted Learning (PAL) and Problem Based Learning (PBL), Mini Project and Technical Seminar are included in the curriculum.
- ✓ Personality development programs and soft skill development classes are organized from time to time to improve soft skills of the students.
- ✓ With all these practices the OBE implementation has been strengthened very effectively.
- ✓ Foriegn language certification programs are also introduced.

Evidence of Success:
- ➢ Four departments (CSE,ECE,EEE & IT) are accredited by NBA for three years.
- ➢ Overall student satisfaction has been improved. The **Student Satisfaction Survey** on the Teaching-Learning is at a level of **3.44 on 4-point scale**.
- ➢ Faculty are better prepared for the classes and more focused on the delivery. More intellectual activities are being planned and faculty time and energy are saved because of better organization and planning.
- ➢ The number of workshops, certification programs and FDPs conducted are given below.

Activity Description	Quantity	No. of Students/ Faculty benefitted
Workshops	24	2244
Certification programs	30	2383
Industrial Visits	21	1791

Guest Lectures	27	3722
FDPs	26	261
Summer Internships		873
Industrial Training		840
Filed Projects		171
Online Certification Programs (NPTEL)-Faculty		241
Online Certification Programs (NPTEL)-Students		1191
students have undergone training in German language		20

LBRCE NPTEL Local chapter has been recognized with a rating of 'AA'
(Top 50 among all Local Chapters in INDIA)
- ✓ 37th position during the period Jan – April 2019
- ✓ 33rd position during the period July – October 2018

Some of the achievements of our students are listed below:

Innovations	06 innovative prototypes were developed in CIIE such as water bike, women safety protection device, smart socket, wireless video surveillance robot, autonomous bomb detection robot.
Prathibha Awards (A.P. State Govt.)	05 (CIVIL:02, ECE:02, MBA:01)
Research Fellowships	04 Summer Research Fellowships: IITM (02), Central University Hyderabad (02)
Sports & Games	02 students secured Second place in Power Lifting, (South India Power Lifiting Competetions) 02 students secured Second place in yoga competitions, (Siddhartha Yoga Olympaid-II) 02 students secured Second place in yoga competitions, (AP CM's Cup)
Extension Activities	P.Anusha(CSE),represented Republic Day Parade, New Delhi
	G.Mounika(EEE),B.Prameela (ASE) participated Army attachment Camp at Secundarabad

Problems Encountered and Resources Required
Acceptance for procedural changes is more than 95% by the faculty. However, adopting to the changes is observed to be slow. Changes have been welcomed by most of the faculty members. Resources required to overcome this problem are internet and computer facility for all faculty members and availability of smart classrooms.

Best Practice-II

Title of the Practice: Employability Enhancement

Goal:
Every Institution's track record with respect to placements is always a parameter strongly considered by Parents before seeking the admission. Accordingly, our institute has taken the task of employability enhancement right from the inception and specific practises are implemented in our institute. The objective is to make our students employable immediately after graduation.

The Context:
It is necessary that the student attains requisite knowledge in his/her branch of engineering as well as attains adequate soft skills and programming ability to become employable. We focused on all these three aspects to achieve this goal.

The Practice:
To impart the requisite technical knowledge, the following practices are adopted:
- ➢ The important technical aspects are emphasized by every teacher in the class room.
- ➢ Guest lectures and training programs are arranged for a good number of core subjects in every branch of engineering.
- ➢ Certification programs and trainings are arranged for specific subjects.

For providing adequate soft skills, the following methods are adopted:
- ➢ A separate department for Communication and Soft Skills (Centre for Career Guidance and Training, CCGT) has been established with suitable and experienced experts.
- ➢ The centre has designed specific practices spread through the last four semesters as part of the curriculum. Chosen training programs by external experts are arranged.
- ➢ For providing adequate programming ability a number of programming exercises are conducted by the internal faculty trained by E-BOX in problem solving skills.
- ➢ Certification programs by external agencies are also arranged through Skill Development Centres established in the institute.
- ➢ Special training on programming skills on Code-Vita by TCS is also arranged.

Evidence of Success:
Number of students placed in the A.Y 2017-18 is 555 where as it is improved in the A.Y 2018-19 to 618.

Problems Encountered and Resources Required:
The expected level of focus by the students on the arranged training programs is not attained due to intellectual capabilities of students and economic reasons as well as the availability of time. The CCGT needs to be strengthened along with effective teaching-learning process. More number of guest lectures by industrial experts is to be conducted.

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