

Best Practices

Best Practice-I

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

Objectives:

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

- Guide the faculty towards better planning, teaching, 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 procedure 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 institute website in IQAC section.

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.
 - ✓ Workshops and certification programs on learning skills, communication and latest technologies for students are made part of 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 pre-final year and final year semester break 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.

Evidence of Success:

Overall student satisfaction has been improved. The **Student Satisfaction Survey** on the Teaching-Learning is at a level of **3.45 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	Number	No. of Students/ Faculty benefitted
Workshops	21	1720
Certification programs	33	1108
Industrial Visits	21	1661
Guest Lectures	20	2358
FDPs	13	268
Online Certification Programs (NPTEL)-Faculty		231
Online Certification Programs (NPTEL)-Students		745

LBRCE NPTEL Local chapter has been recognized with a rating of

- ✓ **'AAA'** (Top 10 among all Local Chapters in INDIA) Grade during the period Jan 2018 –April 2018
- ✓ **'AA'** (Top 50 among all Local Chapters in INDIA) Grade during the period June 2017 –December 2017

Some of the achievements of our students are listed below:

Innovations	02 Students got Incubation offers - Green Bike & Plastic Waste Management under Startup India Andhra Pradesh Yatra programme.
Prathibha Awards (A.P. State Govt.)	13 (ASE:01, CIVIL:03, CSE:01, EEE:02, MECH:03, IT:02, MBA:01)
Research Fellowships	03 – Indian Academy of Sciences (IASc), Summer Research Fellowships IITB (02), NGRI (01)
Sports & Games	Secured FIRST place in Kabbadi, Student Olympic Games 2018, MALAYSIA during 22 nd to 26 th January, 2018.
Extension Activities	M.Kiranmai, represented Republic Day Parade, New Delhi
	J.Swapna, represented Republic Day Parade, Amaravati, A.P.

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 possesses 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 Centers established in the institute.

Evidence of Success:

Number of students placed in the A.Y 2016-17 is 382 where as it is improved in the A.Y 2017- 18 to 555.

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.