

## The Annual Quality Assurance Report (AQAR) of the IQAC

All NAAC accredited institutions will submit an annual self-reviewed progress report to NAAC, through its IQAC. The report is to detail the tangible results achieved in key areas, specifically identified by the institutional IQAC at the beginning of the academic year. The AQAR will detail the results of the perspective plan worked out by the IQAC. (Note: The AQAR period would be the Academic Year. For example, July 1, 2012 to June 30, 2013)

### Part – A

#### 1. Details of the Institution

1.1 Name of the Institution

LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING

1.2 Address Line 1

L.B.Reddy Nagar

Address Line 2

Mylavaram

City/Town

Mylavaram

State

Andhra Pradesh

Pin Code

521230

Institution e-mail address

lbcemym@lbrce.ac.in

Contact Nos.

08659-222933, 934

Name of the Head of the Institution:

Dr.E.V.Prasad

Tel. No. with STD Code:

08659-223494

Mobile:

8333905791

Name of the IQAC Co-ordinator:

Mobile:

IQAC e-mail address:

1.3 NAAC Track ID (For ex. MHC0GN 18879)

**OR**

1.4 NAAC Executive Committee No. & Date:

(For Example EC/32/A&A/143 dated 3-5-2004.  
This EC no. is available in the right corner- bottom  
of your institution's Accreditation Certificate)

1.5 Website address:

Web-link of the AQAR:

1.6 Accreditation Details

Sl. No.	Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1	1 <sup>st</sup> Cycle	A	3.09	2013	2018
2	2 <sup>nd</sup> Cycle				
3	3 <sup>rd</sup> Cycle				
4	4 <sup>th</sup> Cycle				

1.7 Date of Establishment of IQAC :DD/MM/YYYY

1.8 AQAR for the year (for example 2010-11)

1.9 Details of the previous year's AQAR submitted to NAAC after the latest Assessment and Accreditation by NAAC ((for example AQAR 2010-11 submitted to NAAC on 12-10-2011)

- i. AQAR 2013-14 submitted to NAAC on 25/10/2017
- ii. AQAR 2014-15 submitted to NAAC on 25/10/2017
- iii. AQAR 2015-16 submitted to NAAC on 25/10/2017

1.10 Institutional Status

University State  Central  Deemed  Private

Affiliated College Yes  No

Constituent College Yes  No

Autonomous college of UGC Yes  No

Regulatory Agency approved Institution Yes  No

(eg. AICTE, BCI, MCI, PCI, NCI)

Type of Institution Co-education  Men  Women

Urban  Rural  Tribal

Financial Status Grant-in-aid  UGC 2(f)  UGC 12B

Grant-in-aid + Self Financing  Totally Self-financing

1.11 Type of Faculty/Programme

Arts  Science  Commerce  Law  PEI (Phys Edu)

TEI (Edu)  Engineering  Health Science  Management

Others (Specify)

Master of Computer Applications (MCA)

1.12 Name of the Affiliating University (*for the Colleges*)

Jawaharlal Nehru Technological  
University Kakinada, Kakinada

1.13 Special status conferred by Central/ State Government-- UGC/~~CSIR/DST/DBT/ICMR~~ etc

Autonomy by State/Central Govt. / University

Central Govt.

University with Potential for Excellence	<input type="text" value="--"/>	UGC-CPE	<input type="text" value="Yes"/>
DST Star Scheme	<input type="text" value="--"/>	UGC-CE	<input type="text" value="--"/>
UGC-Special Assistance Programme	<input type="text" value="--"/>	DST-FIST	<input type="text" value="--"/>
UGC-Innovative PG programmes	<input type="text" value="--"/>	Any other ( <i>Specify</i> )	<input type="text" value="--"/>
UGC-COP Programmes	<input type="text" value="--"/>		

## **2. IQAC Composition and Activities**

2.1 No. of Teachers	<input type="text" value="08"/>		
2.2 No. of Administrative/Technical staff	<input type="text" value="01"/>		
2.3 No. of students	<input type="text" value="02"/>		
2.4 No. of Management representatives	<input type="text" value="01"/>		
2.5 No. of Alumni	<input type="text" value="01"/>		
2.6 No. of any other stakeholder and community representatives	<input type="text" value="01"/>		
2.7 No. of Employers/ Industrialists	<input type="text" value="01"/>		
2.8 No. of other External Experts	<input type="text" value="00"/>		
2.9 Total No. of members	<input type="text" value="15"/>		
2.10 No. of IQAC meetings held	<input type="text" value="02"/>		
2.11 No. of meetings with various stakeholders:	No. <input type="text" value="03"/>	Faculty	<input type="text" value="01"/>
	Non-Teaching Staff <input type="text" value="01"/>	Students <input type="text" value="01"/>	Others <input type="text" value=""/>
2.12 Has IQAC received any funding from UGC during the year?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
If yes, mention the amount	<input type="text" value=""/>		

## 2.13 Seminars and Conferences (only quality related)

(i) No. of Seminars/Conferences/ Workshops/Symposia organized by the IQAC

Total Nos.  International  National  State  Institution Level

(ii) Themes

- Outcomes Based Education
- NBA-SAR Preparation & Documentation
- Creative thinking and effects on Genes
- Career Opportunities for Young Engineers
- CRT Classes on Personality Development Training
- CRT Classes on Psychometric Analysis

## 2.14 Significant Activities and contributions made by IQAC

Quality parameters developed for various academic / administrative activities of the institute.

1. Assessing the quality parameters and providing required suggestions for the improvement.
2. Arranging training on pedagogy (Training Teachers for Excellence) every semester for all newly admitted faculty.
3. Conducting seminars / workshops, FDPs, Guest Lectures, training / certification programmes on quality related issues.
4. Arranging training on latest technologies for students.
5. Encouraging R&D and Consultancy, empowerment, Establishing advanced / research labs / centres.
6. Evaluation of existing teaching learning systems and related documents
7. Revision of assessment tools incorporating pedagogy approach and outcome evaluation  
Renew and revision of feedback forms to elicit opinion from different stake holders.
8. Action plan for improving the FPI (Faculty Performance Index)

## 2.15 Plan of Action by IQAC/Outcome

The plan of action chalked out by the IQAC in the beginning of the year towards Quality Enhancement and the outcome achieved by the end of the year \*

<b>Plan of Action</b>	<b>Achievements</b>
To apply for NBA Accreditation	MECH Department got 01 year extension
To offer Value added courses	02 certification programs were conducted on latest technologies for the benefit of the students.
To Improve Co-Curricular Activities	Workshops, seminars, industrial visits, soft skill development programmes, communication skill development programmes organised regularly.
Submission of research proposal to external funding agencies.	<ul style="list-style-type: none"> <li>• 01 Major and 03 Minor projects are sanctioned worth of 77.05 Lakhs</li> <li>• 01 Minor project is completed</li> <li>• 03 Major and 02 Minor projects are ongoing</li> <li>• 11 Major projects are submitted</li> </ul>
To Monitor Teaching Learning process	Academic Audit is done at the middle and end of the every semester.
To Encourage R&D and Consultancy, Establishing advanced / research labs / centres, setting up new experiments on latest technologies.	Well established 06 advanced research labs are available to encourage R&D activities in the departments. CSE, ECE and MECH departments are recognised as research centres by JNTUK, Kakinada
Conducting Faculty Development Programs on Emerging technologies.	<ul style="list-style-type: none"> <li>• 07 Faculty development Programs are organised.</li> <li>• Five-Day Skill Development Training Program were organised.</li> </ul>
Communication with Parents	<ul style="list-style-type: none"> <li>• Letters with particulars of Percentage of attendance, Mid-exam marks, SGPA and Backlogs have been sent.</li> <li>• Percentage of student attendance is improved</li> </ul>
Arranging training on latest technologies for students.	16 workshops are conducted on latest technologies
To develop and nurture entrepreneur skills in the students	An Entrepreneurship program on "Creative thinking and effects on Genes" was conducted.
International Conference	International Conference on Computational Intelligence & Data Engineering ICCIDE-2017 is initiated by the Dept. of IT and CSE.
Online Certification courses	<ul style="list-style-type: none"> <li>• LBRCE is recognised as NPTEL Local Chapter.</li> <li>• Total of 86 Faculty members and 70 Students have got NPTEL course completion certificates for various courses.</li> </ul>
Developing Framework for NAAC related bench marks.	NAAC bench marks have been shortlisted and a framework for the same has been designed.
Developing documentation Standards.	Documentation standard for monthly report has been developed.
Coordinating for ISO Surveillance audit certification.	Coordinated and obtained ISO 9001:2015 Surveillance certification.
To improve cultural activities	A national level Technical and Cultural fest "Lakshya2K16" was organised by the institute.

CBCS Curriculum(R17)	CBCS curriculum has been designed
Faculty Performance Index(FPI)	Faculty performance has been improved

2.15 Whether the AQAR was placed in statutory body      Yes       No   
Management       Syndicate (CAB)       Any other body

Provide the details of the action taken

The AQAR was placed in College Advisory Board (CAB) and approved. The following suggestions are made:

1. Conducting National level conference on quality related theme.
2. Taking up of funded major research projects.
3. Strengthening the research facilities in the laboratories to promote research activities.
4. Enhance Students English Communication skills and Programming skills.
5. Develop a quality factor that assesses the quality of placement activity.
6. Improve the security & discipline in the campus
7. Campus and Exam section automation

## Part – B

### Criterion – I

#### 1. Curricular Aspects

##### 1.1 Details about Academic Programmes

Level of the Programme	Number of existing Programmes	Number of programmes added during the year	Number of self-financing programmes	Number of value added / Career Oriented programmes
PhD	--	--	--	--
PG	03(M.Tech, MCA,MBA)	--	--	--
UG	01(B.Tech)	--	--	--
PG Diploma	--	--	--	--
Advanced Diploma	--	--	--	--
Diploma	--	--	--	--
Certificate	--	--	--	--
Others	--	--	--	--
<b>Total</b>	04	--	--	--
Interdisciplinary	--	--	--	--
Innovative	--	--	--	--

1.2 (i) Flexibility of the Curriculum: ~~CBCS~~ /Core/Elective option / ~~Open options~~

(ii) Pattern of programmes:

Pattern	Number of programmes
Semester	04
Trimester	--
Annual	--

1.3 Feedback from stakeholders\* Alumni  Parents  Employers  Students   
(On all aspects)

Mode of feedback : Online  Manual  Co-operating schools (for PEI)



1.4 Whether there is any revision/update of regulation or syllabi, if yes, mention their salient aspects.

YES,

New regulation R14 is introduced in the A.Y 2014-15. The following are the few salient points of R14 regulation:

- 1.The candidate shall register for 182 credits and secure all the 182 credits.
- 2.Professional Ethics and Human Values and Environmental Studies courses are introduced as Mandatory Courses
- 3.Programme Elective Courses
- 4.Open Electives Courses
- 5.A few courses as notified in the respective departments as offered to the students on electives under Massive Open Online Courses(NPTEL)
- 6.Internship
- 7.Mini Project
- 8.Communication and Presentation Skills Lab.

1.5 Any new Department/Centre introduced during the year. If yes, give details.

NO

## Criterion – II

### 2. Teaching, Learning and Evaluation

2.1 Total No. of permanent faculty

Total	Asst. Professors	Associate Professors	Professors	Others
265	186	37	39	03(01-Librarian, 01-PD & 01-Yoga Master)

2.2 No. of permanent faculty with Ph.D.

49

2.3 No. of Faculty Positions Recruited (R) and Vacant (V) during the year

Asst. Professors		Associate Professors		Professors		Others		Total	
R	V	R	V	R	V	R	V	R	V
26	20	5	14	6	3	0	0	34	33

2.4 No. of Guest and Visiting faculty and Temporary faculty

2

4

0

2.5 Faculty participation in conferences and symposia:

No. of Faculty	International level	National level	State level
Attended Seminars/ Workshops	10	38	15
Presented papers	29	07	00
Resource Persons	02	02	00

2.6 Innovative processes adopted by the institution in Teaching and Learning:

1. Use of ICT and modern pedagogical techniques.
  2. Besides regular classroom learning and innovative teaching methods like
    - Field trips
    - Industrial visits
    - Internships
  3. Guest lectures on advanced topics by the Eminent Academicians and industry experts.
  4. Conducting seminars by students
  5. Practice of emerging technologies through Mini projects and Term Papers
  6. Faculty development through subject based workshops, orientation programs, seminars and conference programs, technology based workshops etc.
- In addition, the following new processes have been adopted by LBRCE in 2013-14.
- The programs are designed by outcomes based approach.
  - Project based labs.

2.7 Total No. of actual teaching days during this academic year 185

2.8 Examination/ Evaluation Reforms initiated by the Institution (for example: Open Book Examination, Bar Coding, Double Valuation, Photocopy, Online Multiple Choice Questions)

Observations made for Examination / Evaluation Reforms are the following:

- All practical examinations are conducted before the end semester examinations
- Transparency is practiced after the evaluation of mid semester examinations answer scripts.
- The continuous assessment of performance of the students has been made.
- Results are published within 30 days after the examinations
- Supplementary examinations are conducted along with the regular examinations.
- After the final semester examinations, advanced supplementary exams are conducted for the students who fail in VIII semester to facilitate them to complete the degree at the earliest.
- Results are also published in the Institute's website.
- Course specific assignments to promote self learning are introduced.
- Single Valuation procedure in the presence of Chief examiner is followed for evaluation of end semester scripts.
- Provision is given to the students for recounting, revaluation and challenge. valuation

2.9 No. of faculty members involved in curriculum Restructuring/revision/syllabus development as member of Board of Study/Faculty/Curriculum Development workshop

43	66	00
----	----	----

2.10 Average percentage of attendance of students 84.6

2.11 Course/Programme wise distribution of pass percentage:

Title of the Programme	Total no. of students appeared	Division				
		Distinction %	I %	II %	III %	Pass %
UG	842	58.55	23.51	9.14	--	91.2
PG	125	48	47.2	--	1.6	96.8

2.12 How does IQAC Contribute/Monitor/Evaluate the Teaching & Learning processes:

- Feedback from the stakeholders (students, alumni, industry experts, research organizations and parents).
- Monitoring of course file, lecture Schedule, course plan by random sampling
- Verification of cycle test analysis, question papers
- Arrangement of special classes for weak students during evening hours.
- Identifying the new processes and recommending the same for improving the quality.
- Analysing the deviations from the benchmarks and reporting.

### 2.13 Initiatives undertaken towards faculty development

<i>Faculty / Staff Development Programmes</i>	<i>Number of faculty benefitted</i>
Refresher courses	0
UGC – Faculty Improvement Programme	0
HRD programmes	0
Orientation programmes	202
Faculty exchange programme	0
Staff training conducted by the Institute	235
Staff training conducted by other institutions	28
Summer / Winter schools, Workshops, etc.	66
Others	238

### 2.14 Details of Administrative and Technical staff

Category	Number of Permanent Employees	Number of Vacant Positions	Number of permanent positions filled during the Year	Number of positions filled temporarily
Administrative Staff	53	15	09	--
Technical Staff	76	51	46	--

## Criterion – III

### 3. Research, Consultancy and Extension

#### 3.1. Initiatives of the IQAC in Sensitizing/Promoting Research Climate in the institution

##### ➤ **Autonomy to the principal investigator**

The Principal investigators who were sanctioned projects from various funding agencies like DST, UGC, AICTE, MHRD etc., are given full autonomy in executing the project as per the guidelines of the funding organizations and also provides matching grants, if required.

##### ➤ **Timely availability or release of resources**

The head of the institution maintains separate account for every sanctioned project by the external agencies and the institute provides all the necessary facilities and maintains timely release of project funds for effective execution of the project.

##### ➤ **Additional Aid**

The institution introduced supplementary financial aid to meet shortfalls in the execution of funded projects and sponsored workshops/seminars. A partial financial support has been introduced to meet registration/travel/accommodation expenses within India and Abroad.

##### ➤ **Adequate infrastructure**

The departments have established research labs with necessary software and computing facilities to carryout research projects. The e-journals of national and International (Springer, Elsevier, ASME, IEEE) reputed subscriptions have been extended.

##### ➤ **Facilitation and Incentives**

The faculty members have been deputed to attend/participate in various workshops/seminars/conferences and short-term courses with sanctioned academic leave. The faculty who publish research articles in the reputed journal with high Impact factor have been rewarded with increased cashincentives. The faculty who obtained funded projects were given special honorarium.

##### ➤ **Faculty Colloquia and formation of R&D groups**

Faculty Colloquia have been introduced in all the departments to discuss and share research findings. To improve the quality of research, various specialized R & D groups were formed.

##### ➤ **Student Involvement in R&D activities**

Students with research inclination have been encouraged to take part in the ongoing funded projects

##### ➤ **Budget allocation for Research & Development**

Department wise budget allocation has been made for the research and development activities.

##### ➤ **Support in terms of technology and information needs**

The institute/department encourages the students and faculty to utilize the advanced research laboratories like NI, MEMS, GET-C, MS Innovation Centre and other facilities viz., library, computer centre and software tools for carrying out their academic/research projects.

### 3.2. Details regarding major projects

	Completed	Ongoing	Sanctioned	Submitted
Number	01	04	--	11
Outlay in Rs. Lakhs	7,70,000	6,87,000	--	2,69,95,000

### 3.3. Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number	--	--	03	--
Outlay in Rs. Lakhs	--	--	7,65,000	--

### 3.4. Details on research publications

	International	National	Others
Peer Review Journals	55	00	00
Non-Peer Review Journals	00	00	00
e-Journals	00	00	00
Conference proceedings	01	00	00

### 3.5 Details on Impact factor of publications:

Range  Average  h-index  Nos. in SCOPUS

### 3.6. Research funds sanctioned and received from various funding agencies, industry and other organisations

Nature of the Project	Duration Year	Name of the funding Agency	Total grant sanctioned	Received
Major projects	Completed (01)			
	3	DST		7,70,000
	Ongoing (04)			
	3	SERB		2,00,000
	3	DST		4,85,000
Minor Projects	3	DST		--
	3	DST		--
	Sanctioned (03)			
	2	UGC	4,80,000	Not Yet
	2	UGC	1,75,000	Not Yet
	2	UGC	1,69,000	Not Yet
Interdisciplinary Projects				
Industry sponsored				
Projects sponsored by the				
Students research projects				
Any other(Specify)				
Total				14,55,000

3.7 No. of books published i) With ISBN No.  Chapters in Edited Books

ii) Without ISBN No.

3.8. No. of University Departments receiving funds from

UGC-SAP  CAS  DST-FIST   
 DPE  DBT Scheme/funds

3.9 For colleges Autonomy  CPE  DBT Star Scheme   
 INSPIRE  C  Any other (specify)

3.10 Revenue generated through consultancy

3.11 No. of conferences organized by the Institution

Level	International	National	State	University	College
Number					
Sponsoring agencies					

3.12 No. of faculty served as experts, chairpersons or resource persons

3.13 No. of collaborations International  National  any other

3.14 No. of linkages created during this year

3.15 Total budget for research for current year in lakhs :

From funding agency  From Management of University/College

Total

3.16 No. of patents received this year

Type of Patent		Number
National	Applied	01
	Granted	01
International	Applied	
	Granted	
Commercialised	Applied	
	Granted	

3.17 No. of research awards/ recognitions received by faculty and research fellows  
Of the institute in the year

Total	International	National	State	University	Dist	College
		02		01		4

3.18 No. of faculty from the Institution   
Who are Ph. D. GUIDES?  
And students registered under them

3.19 No. of Ph.D. awarded by faculty from the Institution

3.20 No. of Research scholars receiving the Fellowships (Newly enrolled + existing ones)

JRF  SRF  Project Fellows  Any other

3.21 No. of students Participated in NSS events:

University level  State level   
National level  International level

3.22 No. of students participated in NCC events:

University level  State level   
National level  International level

3.23 No. of Awards won in NSS:

University level  State level   
National level  International level

3.24 No. of Awards won in NCC:

University level  State level   
National level  International level

3.25 No. of Extension activities organized

University forum  College forum   
NCC  NSS  Any other



### 3.26 Major Activities during the year in the sphere of extension activities and Institutional Social Responsibility

#### **Regular Activities**

1. LBRCE NSS Unit Conducted Babu Jagjivan Ram Jayanthi on 05-04-2016 inclusion of Essay Writing and Elocution events.
2. On the account of World Health Day LBRCE NSS Unit conducted Cardiac camp and Golden Hour Project Programs on 07-04-2016 at LBRCE in association with Ramesh Hospitals, Vijayawada. By the morning conducted Cardiac Camp for faculty and staff. Senior Cardiac Doctors team from Ramesh Hospitals examined the faculty and staff with Tests like ECG, 2D ECHO, RBS and guided the faculty about cardiac problems. Around 120 members utilized the camp.
3. By the afternoon a Prestigious program, “Golden Hour “program was conducted. Dr. P. Ramesh Babu, Founder of Ramesh Hospitals was the chief guest and inaugurated the program. He advised the gathering about first one hour cautions during heart stroke.
4. On the account of Birth Anniversary of Dr. B. R. Ambedkar on 13-04-2016 LBRCE NSS Unit marked with great tributes. LBRCE NSS Unit conducted Essay Writing and Elocution events. Guests appreciated the winners and distributed the prizes.
5. LBRCE NSS Unit conducted a massive rally on the eve of World Earth Day on 22-04-2016. Students displayed the play cards and shouted the slogans. World Earth Day observance was started to celebrate as an annual event to get national support in order to better take care of the environmental safety by solving its issues. Our Earth is the only planet in the Universe where life is possible till date. It is very necessary to maintain the natural assets of the earth in order to continue the life on the earth.
6. LBRCE NSS Unit “Nava Nirmana Dheeksha “program from 03-06 June 2016 at campus premises.
7. Activity 1(03-06-2016): Seminar
8. Topic: The impact of the unilateral and unscientific division of the State in general and the education sector, in particular.
9. Activity 2(05-06-2016): Essay Writing and Elocution
10. Topic: “Development of the Education sector: Challenges and possibilities”.
11. Activity 3(06-06-2016): Seminar
12. Topic: “Agriculture and allied sectors, industries, services, Regulatory Sector achievement plans, Programme for growth”.
13. LBRCE NSS Unit conducted an Awareness Program on “Yoga and Meditation” on 15-06-2016, in association with the Ramachandra Mission, Vijayawada for the faculty. Distinguished representatives of the Rama Chandra Mission, Sister V.K. Indumathi and Kumari Yamini highlighted the uses of yoga and meditation.
14. On the Birth Anniversary of Dr. K. L. Rao, a doyen of modern India, the college NSS Unit conducted Essay Writing and Elocution competitions. A good number of participants put up a spirited show of their talents in the above mentioned competitions.
15. On account of the death anniversary of the Missile man and ex-President of India, Dr. A. P. J. Abdul Kalam, the college NSS unit conducted contests such as Essay Writing, Elocution apart from the condolence program on 27-07-2016.
16. On account of Independence 70, the college NSS unit conducted an elocution competition on 09-08-2016. A number of students participated in the event and expressed their views about Quit India Movement.
17. On Teachers Day (05-09-2016), LBRCE NSS Unit distributed mementos and certificates for the best faculty who contributed well in academics.
18. NSS Unit organized the Blood Group Check-up Programme for all PG and I-B. Tech(2016-17 Batch) conducted in the college. Red Cross society, Vijayawada provided the technical and logistic support wholeheartedly 09-09-2016.

19. During Swatch Pakwada Week, i.e. 09-09-2016 to 16-09-2016, LBRCE NSS Unit conducted various activities within the campus and involved the staff, faculty and students in campus cleaning. The details of the activities are 1) Administering pledge to staff and students 2) Placing dustbins, stickers on Swatch Bharat 3) Campus cleaning program 4) Collection of waste items, damaged items from each department 5) Organized essay writing and elocution on Swatch Pakwada.
20. The NSS Foundation Day was celebrated with traditional gaiety in LBRCE on 24-09-2016. To mark the occasion, the NSS Unit organized a host of competitions such as, Essay Writing, Debate and Test of General Knowledge (Written) for students of various Branches of Engineering, MCA & MBA. More than 100 students actively participated in the above activities.
21. Jana Vignana Vedika conducted Elocution competitions on public talk. In this context, Jana Vignana Vedika launched a poster at LBRCE and announced the details of events. This event was conducted at the college level and moved upwards that included Mandal, District and the State Level. In this event, our students performed well at the college level, mandal level and district level and finally, Ms.P.Hema Sathvika, student of III ECE secured second place at the district level competitions.
22. On the occasion of World Student's Day on 15-10-2016, LBRCE NSS Unit conducted events like essay writing and elocution among students.
23. LBRCE NSS Unit conducted a two-day seminar on "Role of Life Skills for Engineering Graduates" on 02-11-2016 & 03-11-2016, in association with Help Hospitals, Vijayawada. Dr.Ch.Vamsi Krishna, MD (Consultant Neuro Psychiatrist) was the chief guest of the program.
24. LBRCE NSS Unit conducted the Vigilance Awareness Week and National Unity Day Week from 31-10-2016 to 05-11-2016 on the Birth Anniversary of Sardar Vallabhbhai Patel, India's Leading Freedom Fighter and First Home Minister that is celebrated on 31st Oct.
25. On the occasion of Children's Day on 14th Nov 2016, LBRCE NSS Unit conducted several events such as: 1.Essay Writing 2. Debate 3.Painting for students of Lakireddy Hanimi Reddy High School, Mylavaram, AP State Welfare High School, Kuntamukkala and Girls High School, Mylavaram. More than 200 students of standard VIII-X participated in the event.
26. On the Constitution of India Formation Day on 26-11-2016, LBRCE NSS Unit organized a program for refreshing the memorable struggles and sacrifices of iconic Nation-builder, B.R.Ambedkar during framing of the Constitution of India.
27. LBRCE NSS Unit conducted a Cardiac Camp for the benefit of the faculty & staff, in association with Ramesh Hospitals, Vijawada on 10-12-2016.
28. The LBRCE NSS Unit organized a Seminar on "Basic Engineering Skills" for all B.Tech, M.C.A and M.B.A students on 16-12-2016. Dr.K.V.G.S.K.Murali Krishna, Principal, JNTUK, Narasaraopet was the chief guest of this seminar. He impressed students with his witty remarks and insightful presentation on personality development. The students were highly motivated.
29. LBRCE NSS Unit conducted a seminar on "Common Neurological Issues", in association with Ramesh Hospitals, Vijayawada on 27-12-2016. Dr.B.Sai Sandeep was the chief guest. While addressing the gathering, he explained several issues related to neurological aspects of the body. He advised the faculty and students about maintenance of healthy and stress-free life style.
30. To benefit students and staff, LBRCE NSS Unit conducted an Awareness Program on "Passport application", in association with the Passport Seva Kendra, Vizag on 06-01-2017. The Passport Seva Kendra Staff, Mr.Ravi Prasanth was the chief guest and guided students on passport application and the filling procedure.
31. LBRCE NSS Unit organized a program to spread awareness on PAN Card among faculty, staff and students. In this awareness program, the participants were offered an opportunity to apply for PAN cards on 11-01-2017.

32. To mark National Voters Day, the volunteers of LBRCE NSS unit took a Pledge to spread awareness among people on the significance of the right to vote .In this event, the NSS Unit also conducted Essay Writing and Elocution competitions on 26-01-2017.
33. LBRCE NSS Unit conducted an Awareness Program on Thyroid Issues and Testing on 22-03-2017, in association with Vasvaya Mahila Mandali,Vijyawada and Abbott Pharmasuiticals.Dr.B.Keerthi Technical Support Manager,VMC and Smt.Rashmi, Secretary were resource persons of the program and expressed their expert views on thyroid issues. Gopi Chand, Field Therapy Manager, Abbott also explained thyroid issues and the precautions to be taken. 150 members attended and availed this opportunity.

#### **Blood Donation Camp**

<b>Sno</b>	<b>Date of Conduction</b>	<b>No. of Blood Donors</b>	<b>Association partner</b>
1	08-02-2017	74	Red Cross Society of India, Vijayawada

In addition to this count our students are regularly donating the blood for needy and poor people who are hospitalized. This academic year around 150 students donated the blood.

#### **Fund Donations**

<b>Sno</b>	<b>Name of the Beneficiary</b>	<b>Date</b>	<b>Amount</b>
1	LBRCE NSS Unit has taken an initiative on providing financial support to the family of Mr.Desam Billey, employee of LBRCE who suddenly died while in service. The NSS unit undertook this activity with the support of NSS departmental representatives in fund collection.	09-12-2016	20,000/-
2	Army Forces	31-12-2016	50,000/-

#### **No. of social initiatives undertaken by the students**

1. LBRCE NSS Volunteers distributed Water Bubbles,Cans,Dustbins and Opticals at college adopted village Pondugala on 29-04-2016. During the conduction special camp March-2016 LBRCE NSS Volunteers identified the problems and volunteers responded positively and contributed the amount by each one. The collected amount has utilized towards Water Bubbles,Cans,Dustbins and Opticals.
2. As per the directions of the Govt. of A.P, LBRCE NSS unit conducted Vanam-Manam program on 29-07-2016 in the campus. The volunteers planted 150 samplings in the college premises.
3. The student volunteers of the college NSS unit participated in ‘Campus Cleaning Program’ on 14-08-2016 and on 15-08-2016 Students and NSS volunteers made the necessary arrangements for the Independence Day Celebrations. Served by NSS Volunteers on the occasion of Independence and Republic Day Activities at college and JNTU Kakinada
4. As per the directives of Government of AP and JNTUK, LBRCE NSS unit deputed NSS volunteers for Krishna Pushkaralu-2016, during the period i.e. 12-08-2016 to 23-08-2016. The volunteers extended their services in activities such as traffic clearance within Mylavaram police station limits, distributing food packets at Pushkara ghats, helping the old pilgrims and children at pushkara ghats, guiding the public at the pushkara ghats.In addition to these services, our NSS volunteers helped the Mylavaram police personnel in their assigned areas.
5. During Lakshya-2k16 on 01-10-2016, LBRCE NSS Unit conducted two notable programs like Swatch Bharath and Go-Green. NSS volunteers carried out a rally on the theme of cleanliness and promoted awareness about Swatch Bharath among the public as well as fellow students, faculty and staff of our college. The main objective of this Go-Green event was to distribute one sapling to every household and urge everyone to develop our premises and our nation as a model place .In

this program, NSS Unit distributed 2000 saplings of fruits, neem, and other varieties among participants from various colleges in AP and Telangana.

6. LBRCE NSS Volunteers voluntarily sponsored items of lunch boxes and other study-related Stationery. Dr.E.V.Prasad, Director attended the event and distributed the above stationery among students of MPUP School,Pondugala on 17-11-2016.

7. On the eve of 66th Republic Day, student volunteers of college NSS unit participated in 'Campus Cleaning Program' and also, the Students decorated the venue for National Flag hoisting on 25-01-2017 and 26-01-2017.

8. On the Pulse Polio Immunization day (Phase-1) on 29-01-2017, LBRCE NSS unit volunteers rendered their services at various places in Mylavaram. The volunteers recorded the details of the immunization work at six places during the day.

9. On the Account of Maha Sivarathri on 24-02-2017 and 25-02-2017, as per request from police department, Mylavaram, LBRCE NSS Unit discharged 12 NSS Student Volunteers for helping at Sivalayam,Velvadam.NSS Volunteers rendered their services at temple premises and other places to help the pilgrims. They served also for traffic clearance and distribution of water and food packets to the pilgrims.

10. Distributed 110 Exam kits to SSC Children, Girls High School-MyLavaram which was sponsored by college NSS Volunteers.

#### **Adopted Village Information**

College NSS Unit organized NSS Special Camp which is scheduled in Venkatapuram Village (Mylavaram Mandal) from 14-03-2017 to 20-03-2017.

Total Number of Participants: 60 students

Location: Pondugala Village, Mylavaram (Mandal)

<b>Date</b>	<b>Day</b>	<b>Activity</b>
14-03-2017	Tuesday	Inauguration & Dental Camp by Team from Lalitha Smile Clinic, Vijayawada
15-03-2017	Wednesday	Awareness talk on "External Exam Assessment and Guidance Program on How to get Good Marks "for X Class Students
16-03-2017	Thursday	Distribution of Exam Kit for X Class Students
17-03-2017	Friday	Cardiac Camp
18-03-2017	Saturday	1.Pediatric Camp for MPUP School Children's 2. Distribution of Dental Kit to MPUP School Children's
19-03-2017	Sunday	Awareness Program on Demonetization and Survey on "Self Toilets and motivating the public towards construction"
20-03-2017	Monday	i) Cultural Programs and Games to MPUP School Children and Distribution of Prizes to MPUP School Children ii) Awareness Program on "Literacy Campaigning" iii) Sponsoring of Mid Day Meal

## Criterion – IV

### 4. Infrastructure and Learning Resources

#### 4.1 Details of increase in infrastructure facilities:

Facilities	Existing	Newly created	Source of Fund	Total
Campus area	51.58	--	LBRCE	51.58 Acres
Class rooms	67	02	LBRCE	69
Laboratories	57	02	LBRCE	59
Seminar Halls	07	--	LBRCE	07
No. of important equipments purchased ( $\geq$ 1-0 lakh) during the current year.	136	07	LBRCE	143
Value of the equipment purchased during the year (Rs. in Lakhs)	718.2	125.52	LBRCE	843.72
Others				

#### 4.2 Computerization of administration and library

The college is using EZ-School software tool for automation. This has the following modules.

##### **Library:**

- The entire library is automated using computer systems.
- The Digital Library is provided with Tidal data ML – 11220 Server with 4.7 TB storage
- Digital Library is provided with 30 systems.
- The library is a member of DELNET and provides web access to 1,21,08,793 Records of books, Periodicals, Theses, Dissertations. It is connected with 2196 libraries in 32 states in India and other countries.
- Transactions are automated by using bar code reader.
- The following features can be accessed from any computer within the campus
  - Availability of books by subject wise / author wise
  - Account information like books borrowing and due date to return
  - Fine amount to be paid for books not returned
  - Access to the e-resources /NPTEL /SONET video lectures

#### 4.3 Library services:

	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
Text Books	37430	72,10,653/-	1808	3,43,529/-	39238	75,54,182/-
Reference Books	14285	43,50,275/-	656	1,96,800/-	14941	45,47,075/-
e-Books	1,35,000	2,28,945/-	---	16,500/-	1,35,000	2,45,445/-
Journals	645	9,40,617/-	155	2,23,194/-	800	11,63,811/-
e-Journals	6800	42,12,782/-	6800	19,29,059/-	6800	61,41,841/-
Digital Database	01	15,000/-	01	5,000/-	01	20,000/-
CD & Video	5286	----	260	----	5546	----
Others (specify)						
1.Back Volumes	3307	-----	02	---	3309	-----
2.Project Reports	2755	-----	247	---	3002	-----

#### 4.4 Technology up gradation (ovevrall)

	Total Computers	Computer Labs	Internet (Mbps)	Browsing Centres	Computer Centres	Office	Departments	Others
Existing	1041	21	220	01	--	01	10	05
Added	223	--	50	--	--	--	--	--
Total	1264	21	270	01	--	01	10	05

#### 4.5 Computer, Internet access, training to teachers and students and any other programme for technology upgradation (Networking, e-Governance etc.)

All the computers are connected to the Internet  
 Training for effective browsing and utilisation of Digital library for the benefit of the students.

#### 4.6 Amount spent on maintenance in lakhs:

i) ICT	3.81
ii) Campus Infrastructure and facilities	86.30
iii) Equipments	11.45
iv) Others	363.43
<b>Total:</b>	464.99

## Criterion – V

### 5. Student Support and Progression

#### 5.1 Contribution of IQAC in enhancing awareness about Student Support Services

- Publishing various student support services made available to the students in the Hand Book.
- Providing information on various support services during induction and parents meet.
- Displaying the information in the institution's website.

**Health centre, health insurance etc.** The Institute has state of art gymnasium for girls and boys separately which can be utilized for free of cost. Yoga classes are conducted regularly. In-house medical facility is available during institute working hours inside the campus

**Skill development (Spoken English, Computer literacy, etc.)** Training on Computer Language and Spoken English classes are being conducted. Internet facilities are offered to students at free of cost .Advanced Computer language classes are offered at CISCO sponsored lab.

#### **Performance enhancement for slow learners**

- Diagnosis Tests were conducted to find out the weaker students and train them based on their need.
- Remedial classes for average and weak students are conducted regularly.
- Extra assignments and hand out materials are given to support them in their academics.
- Training programs are conducted periodically to enhance their vocabulary (idioms, phrases etc) and language usage to meet the situation were some of the aspects.
- Exposure of students to other institutions for higher learning.
- Students are exposed to industrial visits, workshops, training programs, seminars, paper presentations, conferences, and exhibitions organized by various technical institutions within and outside the state.

#### 5.2 Efforts made by the institution for tracking the progression

The Institute always has a keen eye towards the student support and mentoring as it assists them in providing Faculty as counsellor for the Students throughout their stay in the institute. All the student counsellors are involved in both academic and personal counselling for a group of 20 students.

The Counsellor maintains a complete record of the student activity in the campus. They also work hand-in-hand with the parent by bringing them up to date on their ward's progression like sending assessment marks and daily attendance through SMS. The counsellors and staff provide guidance to students to enhance their quality of education, encourage them to participate in sports and cultural activities. The faculty working as hostel warden provide round the clock assistance to the students in personal needs and in academics. The hostel students and day scholars can meet the counsellor for Special Counselling if required. The faculty also provide counselling to the students in academic and personal areas, and two staff members for each class are deputed for this purpose.



5.3 (a) Total Number of students

(b) No. of students outside the state  (c) No. of international students

Men	No	%	Women	No	%
	2496	64.69		1357	35.31

Last Year						This Year					
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
1753	476	116	1395	04	3744	1751	508	121	1460	3	3843

Demand ratio: 1:1 (85.88) Dropout %: 2.35

5.4 Details of student support mechanism for coaching for competitive examinations (If any)

- In-house GATE coaching classes by internal and external subject experts.
  - Pre-placement training by internal and external trainers.
- Quantitative Aptitude & Analytical Reasoning** Training classes are conducted regularly for U.G and P.G. students at our Campus. This course is intended to train students for performing well in Campus Interviews. This course is being handled by our own CSS faculty.
- Personality Development Workshops** are also conducted throughout the year for final year, and pre-final year students with eminent resource persons to train our students in various areas like Group Discussions, Interviews, Communication Skills, Interpersonal Skills, etc. The above training helped around 70% of students in getting suitable placements in various top notch companies.

No. of students beneficiaries

5.5 No. of students qualified in these examinations

NET	<input type="text" value="-"/>	SET/SLET	<input type="text" value="-"/>	GATE	<input type="text" value="29"/>	CAT	<input type="text" value="2"/>
IAS/IPS etc	<input type="text" value="-"/>	State PSC	<input type="text" value="-"/>	UPSC	<input type="text" value="-"/>	Others	<input type="text" value="30"/>



## 5.6 Details of student counselling and career guidance

**Career Development Programs** Our Placement and Training Cell offering Career Development Program for the students who are raring to enter the corporate world and introduce them to the prospective employers according to their aspirations and background.

As the required skills will vary according to the company's requirement, the training programs have been formulated after a thorough analysis of unique requirement of various companies. We impart this training program with the help of reputed training institutes and our institute's CSS department.

They enable our students to gain a competitive edge in the recruitment process, groom their confidence and develop their personality. The training modules will be formulated to improve our students' skills like Presentation Skills /Listening Skills/ Interpersonal Skills/ Personal Grooming /Brain Strain Apt. Reach /Speed Mathematics/ Logical Reasoning/ Deciphering the Matrix/Verbal Reasoning/ Situational Conversation/Team Building / Creativity / Group Discussion / Planning Goal Setting / Time Management / Sentence Construction/Personal Counselling /Motivational Talk.

**Entrepreneurship Development Cell** provides technical and general inputs for students who interested in self-employment and starring their own ventures. Successful entrepreneurs, Experts from Small Scale Industries and District Industrial Centres, Professionals from Commercial Banks are invited to meet the students so as to encourage and clear the doubts of the students in starting their own ventures, procedures to be followed, and also the sort of assistance the banks and other institutions give. The Employment Cell also encourages the students to be self- employed and creates awareness of various avenues of self-employment.

No. of students benefitted

Around 90%
------------

## 5.7 Details of campus placement

<i>On campus</i>			<i>Off Campus</i>
Number of Organizations Visited	Number of Students Participated	Number of Students Placed	Number of Students Placed
38	672	450	65

## 5.8 Details of gender sensitization programmes

SAHELI-Girls Club is established on 21-12-2016.

### PLAN OF ACTION :

- Arranging Seminars on women rights & security
- Student competitions on women empowerment
- Regular upload of articles related to girl & women achievements on notice board
- Sharing success stories of women entrepreneurs
- Arranging Job oriented vocational trainings for women
- Motivating woman to participate in political & public life.

The following events are organised by SAHELI-Girls club during current academic year:

- 1.An Awareness Program on "Thyroid Issues and Testing" on 22nd March 2017 by "SAHELI-Girls" Club of LBRCE
- 2.International Women's day was celebrated on 08-03-17 under SAHELI-Girls Club
- 3.SAHELI-Girls club celebrated National Women's day on 13-02-2017
- 4.LBRCE SAHELI- Girls club Organized "2K WALK " by LBRCE Girl Students on the event of " National women's parliament (NWP)" in college premises on 03/02/2017.
5. "SAHELI – Girls club of LBRCE" Organized a health awareness programme for Girls / Women on 21st December, 2016.

## 5.9 Students Activities

### 5.9.1 No. of students participated in Sports, Games and other events

State/ University level  National level  International level

No. of students participated in cultural events

State/ University level  National level  International level

### 5.9.2 No. of medals /awards won by students in Sports, Games and other events

Sports: State/ University level  National level  International level

Cultural: State/ University level  National level  International level

## 5.10 Scholarships and Financial Support

	Number of students	Amount
Financial support from institution	22	5,00,850
Financial support from government	2352	5,90,46,700
Financial support from other sources	NIL	NIL
Number of students who received International/ National recognitions	NIL	NIL

5.11 Student organised / initiatives

Fairs : State/ University level  National level  International level

Exhibition: State/ University level  National level  International level

5.12 No. of social initiatives undertaken by the students

5.13 Major grievances of students (if any) redressed: **NILL**

## Criterion – VI

### 6. Governance, Leadership and Management

#### 6.1 State the Vision and Mission of the institution

##### **VISION**

To empower the students to become technologically vibrant, innovative and emotionally matured and to train them to face the challenges of the quality conscious globalized world economy.

##### **MISSION**

- To provide an environment most conducive to learning and to create a stimulating intellectual atmosphere on the campus.
- To achieve Academic Excellence.
- To ensure a holistic development of personality.
- To spread education to rural areas.
- To establish partnership between Institution & Industry.

#### 6.2 Does the Institution has a management Information System

YES

#### 6.3 Quality improvement strategies adopted by the institution for each of the following:

##### 6.3.1 Curriculum Development

- Appointing industry personnel and alumni as members of Board of Studies.
- Outcome Based Education.
- Receiving feedback from the employers and alumni on existing curriculum for the required improvement and innovation.
- Involving academicians, employers, Alumni in the design and development of curriculum.
- Collecting information on latest technologies and studying the future needs of the industry.

##### 6.3.2 Teaching and Learning

- Promoting the usage of ICT.
- Implementing OBE
- Mapping course outcomes / instructional objectives and program educational objectives
- Arranging training on pedagogy and assessing its impact on teaching-learning.
- Arranging training on latest technologies.
- Conducting FDP programs on emerging technologies.
- Course coordinators for a section are nominated. His/her responsibilities include
  - Monitoring the teaching-learning process of each subject in that Semester
  - Monitoring the schedules
  - Helping the teacher of a subject on delivery methods after consulting Internal/external experts in that subject.

### 6.3.3 Examination and Evaluation

- Centralised internal exam cell is functioning in the every department to achieve uniform and fair evaluation of students without bias.
- Setting of semester end theory question paper sets by the subject experts and Mid-term examination question papers are set by the internal faculty
- Conduct of examinations as per the academic calendar.
- Award of internal marks based on continuation evaluation.
- Evaluation of semester end examination answer scripts by external and internal subject experts in the presence of Chief examiner.
- The external examiners for practical examinations are drawn from the reputed institutions/Universities in Professor/Associate Professor /Assistant Professor cadre.

### 6.3.4 Research and Development

- Creation of an administrative post at the level of Dean for encouraging and monitoring the research activities of faculty and students.
- Formation of an expert committee to scrutinize and approve the research project proposals.
- Allocation of a separate budget for in-house R&D.
- Encouraging faculty to register for Ph.D
- Encouraging faculty for guiding research scholars.
- Providing financial assistance to faculty for presentation of research papers, attending conferences, workshops, etc.
- Motivating the faculty and students by conducting workshops, seminars, and arranging guest lectures with experts from industrial and R&D organizations.
- Encouraging the students to work on research oriented projects.
- Providing the required resources like journals, internet, digital learning materials, PCs, software, etc. to carryout research.
- Establishing research innovation centres, like Microsoft Innovation Centre to enhance the research activities.

### 6.3.5 Library, ICT and physical infrastructure / instrumentation

#### **Library**

- Procuring the prescribed and reference text books as suggested by the subject experts.
- Subscribing to e-journals of reputed publishers.
- Providing access to e-books and e-learning resources through digital library.

#### **ICT**

- Installing computer system, LCD projector and public address system in all the seminar halls and e-class rooms.
- Providing internet and intranet facility with sufficient bandwidth.

#### **Infrastructure**

- Providing required ergonomically designed class rooms, tutorials, seminar halls etc.
- Providing required number of laboratories with the state-of-the-art facilities.
- Providing required computational facilities with sufficient number of computer and peripherals.
- Providing the various amenities such as canteen, indoor and outdoor game facilities, gym centres, medical centre, hostels and transport.

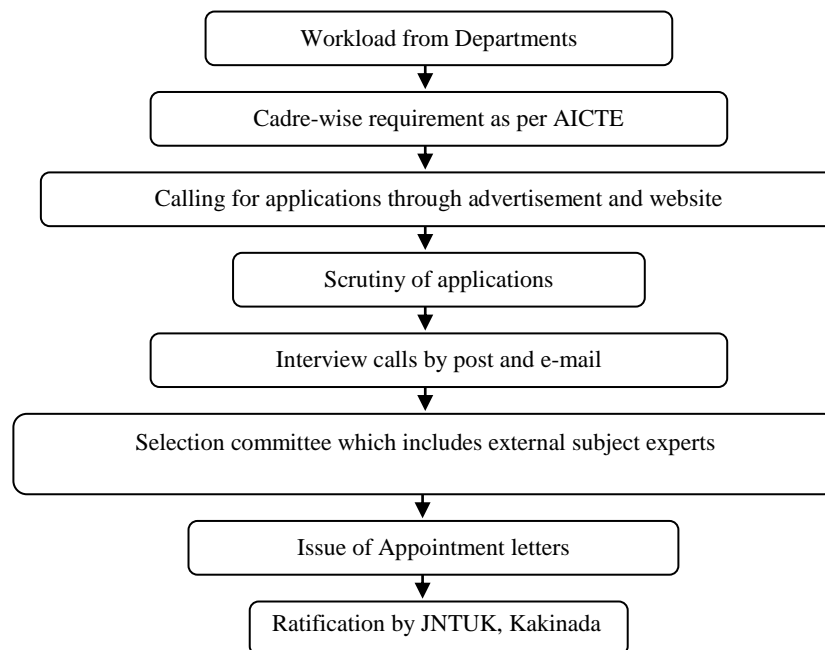
### 6.3.6 Human Resource Management

We at Lakireddy Bali Reddy College of Engineering (LBRCE), developed a Strategy to retain the employees for relatively long period by clearly defining their roles and responsibilities and evaluate their performance by specifying Faculty Performance Index (FPI) on 10 point scale to understand where the faculty members stand with their overall performance ratings annually and also follow the plan of action and implement the same in containing the rate of attrition and conforming it to a single digit based on performance appraisal. To measure key performance, a plan of action is put into effect ensuring the outcomes of FPI or addressed with the outcomes of excellent, average and below average. The Faculty performance indicators are three in number and they are

1. From feedback analysis : 60%
2. Results analysis : 25%
3. Administrative, Research publications & academic achievements & other contributions : 15%

### 6.3.7 Faculty and Staff recruitment

Selection shall be through open advertisement. AICTE and University guidelines will be followed for recruitment of staff.



#### **Ratification by the Affiliating University:**

The faculty joined in the institution have to appear for the university ratification. The faculty for ratification should meet the university norms for ratification.

### 6.3.8 Industry Interaction / Collaboration

- MoUs are signed with local industries.
- Training is provided for faculty and technical staff in local industries.
- Guest lectures are arranged on industry related topics by the industry persons.
- Students are deputed to industry for internship.
- Establishment of Advanced labs in collaboration with Industries

### 6.3.9 Admission of Students

- Highlighting infrastructural facilities, faculty, placements and achievements of the college through advertisements, brochures and website.
- Increasing placements and quality of placements year after year.
- Revising the curriculum every 3-4 years to suit the requirements of industry.
- Improving faculty quality in-terms of qualifications and experience.
- Updating the existing equipment and introducing research oriented laboratories.

### 6.4 Welfare schemes for

Teaching staff	<ul style="list-style-type: none"> <li>➤EPF</li> <li>➤Insurance cover for Health (Rs.1,00,000/- Medclaim)</li> <li>➤Transport Facilities: Free Transport for Professors &amp; Concessional Transport for other staff.</li> <li>➤Medical Facilities: Free medical facility and hospitalization for common ailments: It is provided through college medical center. Medical center has one medical office and one medical assistant.</li> <li>➤Extra Ordinary Leave on Loss of pay</li> <li>➤GLIC</li> </ul>
Non teaching staff	<ul style="list-style-type: none"> <li>➤EPF</li> <li>➤Gratuity for supporting staff</li> <li>➤50% tuition fee concession for supporting staff children's</li> <li>➤GLIC</li> </ul>
Students	<ul style="list-style-type: none"> <li>➤Free medical check-up / treatment</li> <li>➤Fee concession for economically poor students</li> <li>➤Scholarship/Medals for academic toppers</li> <li>➤Scholarship for 100% attendance maintaining students</li> <li>➤Sponsoring the students to participate in Co-curricular and Extra Curricular activities</li> </ul>

### 6.5 Total corpus fund generated

6.6 Whether annual financial audit has b   Yes  No

### 6.7 Whether Academic and Administrative Audit (AAA) have been done?

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	--	--	Yes	
Administrative	--	--	Yes	

6.8 Does the University/ Autonomous College declares results within 30 days?

For UG Programmes      Yes  No

For PG Programmes      Yes  No

6.9 What efforts are made by the University/ Autonomous College for Examination Reforms?

The institute is an autonomous institute approved by AICTE. The examination department is structured with a Professor grade Chief Controller. Modifications in the evaluation system to ensure continuous gauging of the student's learning are made. Evaluation pattern of paper setting, choice questions, evaluation coding etc. are under consideration.

- Six sets of Question papers to be prepared by internal subject experts which shall be scrutinized by senior professors of the institute.
- Answer scripts valuation by external experts in the presence of Chief Examiner
- Internal and external question papers are prepared as per blooms taxonomy

6.10 What efforts are made by the University to promote autonomy in the affiliated/constituent colleges?

University has nominated its representatives and the subject experts on Boards of Studies and Academic Council to promote and implement autonomy in respect of the following:

- To develop the curriculum, prepare the academic regulations and conduct of internal and semester end examinations.
- To issue marks memos of each semester with SGPA and CGPA with college emblem and seal.
- To prepare academic and examination schedules.

6.11 Activities and support from the Alumni Association

- Conducting Alumni meet on 2<sup>nd</sup> Saturday of February of every year.
- Alumni interact with the existing students and guide them on their careers.
- Alumni association extends its support at various activities
- Interactive sessions with alumni are arranged by third and fourth year students whenever the alumni visit the college.

6.12 Activities and support from the Parent – Teacher Association

- A parent meeting was held with Principal and other management members, where discussion is open to any academic and administrative topics.
- A parent meeting was held with HOD and other faculty members of the department in which the performance of students is reviewed.
- Every year feedback from the parents was taken and analysed for further improvements.
- Parents meet the respective departments regularly. The suggestions that are specified by the parents are forwarded to the management for further course of action.

6.13 Development programmes for support staff

- ICT training
- Encouraging for higher studies
- Language training
- Technical training



#### 6.14 Initiatives taken by the institution to make the campus eco-friendly

##### **a) Energy Conservation**

- Awareness among the students and staff on energy conservation is created by displays at appropriate places.
- Switching off all the electrical utilities whenever and wherever they are not required.
- All the departments are equipped with appliances and equipment that consume low power.
- The buildings are fitted with glass windows for maximum utilization of natural light.
- The college has widespread arrangements for power distribution with a Central Substation, Control panel and Power room.

##### **b) Use of Renewable Energy**

- Steps are being taken for the utilization of solar power in the college campus.

##### **c) Water Harvesting**

- To minimize the wastage of water resources and to improve the water table, the rain water is led into the pond located in the campus.

##### **d) Check Dam Construction**

- At present there is no check dam in the college premises.

##### **e) Efforts for Carbon neutrality**

- Care is taken to restrict vehicle entry into the campus and specific parking area is allotted for faculty and students.
- The institute restricted the usage of plastic bags in the campus.
- Green campus (full of trees).

##### **f) Plantation/Greening Drives**

- Plantation programme has been taken up by the NSS unit for increasing the Green Cover in the village.
- The NSS unit regularly conducts awareness programmes on plastic free environment in and around the village.

##### **g) Hazardous Waste Management and e-Waste Management**

- The condemned batteries are disposed through outside agencies.
- Awareness programmes are initiated on waste management.

## Criterion – VII

### **7. Innovations and Best Practices**

7.1 Innovations introduced during this academic year which have created a positive impact on the functioning of the institution. Give details.

- 1.R17 Regulations and Curriculum has been designed.
- 2.The course coordinator system has been continued.
- 3.Conduct of subject based Seminars and workshops have been continued.
- 4.Involvement of students in various committees has been increased.
- 5.The practice of conducting Guest lectures, Industrial visits and Industrial training has been enhanced.
- 6.The functioning of Research groups to promote better quality research and publications has been strengthened.
- 7.Value addition by certification programs as well as technology training is focused by various departments.
- 8.More Practical orientation is supported through Mini-projects, Technical seminars.
- 9.Industry Internship is made mandatory for all students
10. Program electives, Open electives and Mandatory courses as well as MOOCs are incorporated in R17 regulations.
- 11.Continuous inputs from all stakeholders like Alumni, Academicians and Industry experts are taken to improve the curriculum on regular basis.
- 12.To ensure a good character with better ethical values among the students, professional ethics course has been introduced in the curriculum for all the students
- 13.Additional Training on communication skills and soft skills is further increased.
- 14.Research aptitude among the students is inculcated through project implementations.
- 15.An Advisory Committee has been formulated for every department with suitable external members.
- 16.A regular monitoring of Academic growth is taken care by the College Advisory Board (CAB)
- 17.Improved Membership in various professional bodies like IEEE, CSI, ISTE, IE, IETE, ISHRE
- 18.Institute has signed some MOUs and established Tie ups/collaborations with reputed organizations and institutions
- 19.Improved class room facilities with ICT tools.
20. Participation of students in Sports, NCC, NSS activities as well as cultural events is considered as mandatory in the design of R17 regulations.

7.2 Provide the Action Taken Report (ATR) based on the plan of action decided at the beginning of the year

Plan of Action	Actions taken
Nominating academic coordinators for each year at UG level to look after the progress of students and their class attendance along with the class teachers.	Academic coordinators at the level of Professors / Associate Professors were nominated for I, II, III & IV B.Tech in every department. Students' attendance and progress record was closely monitored every fortnight by the Academic Coordinator.
Grouping the faculty members in to three or four based on specialization in each department.	In every department faculty members were grouped into three or four depending on their specialization. Each group was headed by a Senior Faculty. The course files, assignments, etc. prepared by the junior faculty members were verified and suitable guidance for improvement was provided by the group leaders. A total of 11 major research project proposals were submitted by the faculty members under the guidance of the group leaders.
Allocating the Course coordinators for courses of multi section program.	Course coordinators are allocated for courses of multi section program.
Organising subject based seminars and subject based workshops.	Subject based seminars and subject based workshops are organized by the departments.
Involving students in various committees.	Involved students in various committees for better improvement in the system.
Exposing students to various industrial processes.	Exposed students to various industrial processes through Guest lectures, Industrial visits and Internship.

7.3 Give two Best Practices of the institution (*please see the format in the NAAC Self-study Manuals*)

1. Monitor-Measure-Manage System (Faculty Performance Index)
2. Curriculum design with focus on Choice Based Credit System (CBCS)

7.4 Contribution to environmental awareness / protection

- The Institute maintains an eco-friendly green campus.
- The campus environment is pollution-free.
- Every year new saplings are planted and distributed by Institute NSS unit.
- To minimize the wastage of water resources and to improve the water table, the rain water is led into the pond located besides the campus.
- Care is taken to restrict vehicle entry into the campus and the specific parking area is allotted for faculty and students.
- The institute restricted the usage of plastic bags in the campus.

7.5 Whether environmental audit was conducted? Yes  No

7.6 Any other relevant information the institution wishes to add. (for example SWOC Analysis)

1. Students are involved in various committees and their inputs are analysed for improvement in the processes and system.
2. SWOC analysis of institute is done periodically.
3. Technical certificate courses are offered in all the departments for enhancing the skills of the students.

### **SWOC Analysis of Institute:**

#### **Strengths**

- One of the most preferred, engineering colleges situated in a serene rural place of coastal Andhra Pradesh.
- Learned, pro-active and visionary management readily responding to the needs and aspirations of all stake holders towards quality education, placements and good governance.
- A highly decentralized administration, governed by a well defined and transparent quality policy. Managed by different committees formulated satisfying the requirements of statutory bodies with Governing Body (GB) as the highest policy making body.
- College was accorded permanent affiliation by JNTUK, Kakinada in 2010, 2013 and also in 2016 for a period of three years consequently.
- National Board of Accreditation (NBA) accorded the status of Accreditation for 3 years to the eligible UG B.Tech programs in 2008 and reaccredited in 2015 under Tier-I.
- Good financial discipline through appropriate budgeting and allocation.
- Aesthetically designed, spacious and fully computerized library with 39200 printed books and 135000 e-books, 6000 + hours of video courses, digital learning resources are made available. Subscription to national and international online journals worth about Rs.15 lakhs every year with facilities such as video conferencing, discussion rooms are also made available.
- 50% of the young faculty members have undergone pedagogical training programs on various subjects.
- Feedback taken periodically from students, parents, alumni and other stake holders is given due weightage for taking corrective measures to strengthen the teaching learning process.
- Semester scheme with continuous assessment.
- Effective Teaching-learning process with use of ICT.
- Sports, NCC and Yoga facilities
- Service oriented extension activities through NSS
- Mandatory Certification courses for students as well as faculty
- Personality and skill development programs
- Good ambience through infrastructure facilities.

### **Weaknesses**

- 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.

### **Opportunities**

- Starting recognized research centres for departments to enhance research activity.
- Financial assistance from Central Government under TEQIP and other funding organizations.
- Collaboration with industry, R&D organizations and educational institutes of eminence.
- Obtaining quality certification for testing equipment to enhance testing and consultancy.
- Inducing students to take international certification examination, foreign language etc
- Establishing project centres under AQIS programme of AICTE to address the environment issues related to coastal regions.
- Library enhancement to access international knowledge resources.
- Growing Industrialization and IT hub in and around at Vijayawada (40 km. from the college) for enhanced industry-institute interaction.
- Inculcating the culture of entrepreneurship to rural youth through technology transfer.
- Enhanced support from Alumni in institutional development and placement opportunities.

### **Challenges**

- Recruiting Ph.D qualified and experienced faculty
- Increased financial drain due to the increasing obsolescence rate with change of technology.
- Sustaining competitive capabilities with onslaught of foreign institutions and geographical expansion of existing reputed Universities.
- Sustaining competitive capabilities with onslaught of foreign institutions and geographical expansion of existing reputed Universities.
- Tendency towards software R&D rather than integrated software and hardware research
- Focus on overall development
- Obtaining the services of specialized guest and visiting faculty
- Maximizing ICT enabled pedagogy
- Computerizing the administrative activities to ensure e-governance

### 8. Plans of institution for next year

- Undertaking funded R&D Major projects and consultancy works.
- Increasing the number of journal and conference publications.
- For the coming year, the institute have plans to expand its operations geographically as well as functionally into the areas of skill development, serving the needs of the industry and the newly formed A.P State.
- Strengthening of the alumni association
- It has plans to introduce series of certificate programs, short term courses and some workshops and many such teaching-learning activities in tune with the group's Mission.
- Enhancing English Communication Skills and Programming Skills of students.
- Conducting International Conference
- Extension of Canteen Facility
- Improving the security & discipline in the campus
- Automation of Administration and Examinations sections
- Preparation of SSR and A&A by NAAC.
- Faculty will be encouraged to apply for financial assistance from the external funding agencies for organizing Seminars/ Conferences/ Workshops and research projects.

Name: Dr.R.Chandrasekharam

Name : Dr.K.Appa Rao

Signature of the Coordinator, IQAC

Signature of the Chairperson, IQAC



PRINCIPAL  
Lakireddy Balireddy College of Engg.,  
MYLAVARAM - 521 230,

**Best Practice – I:**

**1. Title of the Practice: Monitor-Measure-Manage System**

**(Faculty Performance Index)**

**2. Goal**

The dedicated effort of faculty members is always a prime factor for sustained betterment of institute. Accordingly all the parameters that can be monitored and measured regarding faculty members performance are identified and a pro active appraisal policy is adopted at our institute. A transparent faculty performance index measurement results in improvement of teacher performance.

**3. The Context**

The measurable parameters of the faculty members performance are categorized into three categories, student feedback, pass percentage in subjects taught and other contributions such as research, department level administration and college level administration etc. These are given weightages of 60%, 25% & 15% respectively. Feedback is taken twice in a semester and averaged.

**4. The Practice**

All the faculty members in the department are divided into three categories (A,B,C) according to their performance index. A-Category members are left to the self appraisal. B-Category members are appraised by head of the department regarding the factors that reduced his/her performance index. C-Category members are given additional academic responsibilities (working out the assignments, preparing learning material, solving problems) to improve his/her performance. However, low performance index is never used for any punishment.

**5. Evidence of Success**

C-Category faculty has been reduced after taking all these measures.

**6. Problems Encountered and Resources Required**

Nil

**7. Notes**

## **Best Practice II**

### **1. Title of the Practice: Curriculum design with focus on Choice Based Credit System (CBCS)**

#### **2. Goal**

Curriculum design with focus on Choice Based Credit System (CBCS) is taken as an objective since new regulations R17 are to be implemented at our institute as a mandatory requirement of Autonomous status.

#### **3. The Context**

The following are included in the context of curriculum design with focus on CBCS.

- More academic flexibility
- Add-on courses
- On line / self study courses
- Provision to do project in Industry
- Industry based project / In-house training
- Provision to take break of study
- Weightage for attendance
- Open electives
- Co-curricular / Extra - curricular activities (Mandatory)
- Mandatory courses (Employability enhancement skills, problem assisted learning & problem based learning)
- Presentation Skill Lab
- More laboratory courses

#### **4. The Practice**

Curriculum Design has been completed by the end of December' 2016. The approval from the statutory bodies of the institute as well as University is obtained by June'2017. R17 regulations and curriculum are in vogue from the academic year 2017 onwards.

#### **5. Evidence of Success**

Yet to be collected.

#### **6. Problems Encountered and Resources Required**

Nil

#### **7. Notes**

Annexure II Academic Calendar \_ 2016-17

<http://www.lbrce.ac.in/2016-17%20Academic%20Calendars.pdf>



**Abbreviations:**

CAS	-	Career Advanced Scheme
CAT	-	Common Admission Test
CBCS	-	Choice Based Credit System
CE	-	Centre for Excellence
COP	-	Career Oriented Programme
CPE	-	College with Potential for Excellence
DPE	-	Department with Potential for Excellence
GATE	-	Graduate Aptitude Test
NET	-	National Eligibility Test
PEI	-	Physical Education Institution
SAP	-	Special Assistance Programme
SF	-	Self Financing
SLET	-	State Level Eligibility Test
TEI	-	Teacher Education Institution
UPE	-	University with Potential Excellence
UPSC	-	Union Public Service Commission

\*\*\*\*\*