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:

Dr.R.Chandrasekharam

Mobile:

9440170525

IQAC e-mail address:

principal@lbrce.ac.in

1.3 **NAAC Track ID** *(For ex. MHCOGN 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)

EC/62/A&A/044

1.5 Website address:

www.lbrce.ac.in

Web-link of the AQAR:

http://www.lbrce.ac.in/AQAR2015-16.pdf

For ex. http://www.ladykeanecollege.edu.in/AQAR2012-13.doc

1.6 Accreditation Details

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

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

01/08/2012

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

2015-16

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

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	--	UGC-CPE	--
DST Star Scheme	--	UGC-CE	--
UGC-Special Assistance Programme	--	DST-FIST	--
UGC-Innovative PG programmes	--	Any other (*Specify*)	--
UGC-COP Programmes	--		

2. IQAC Composition and Activities

2.1 No. of Teachers

08

2.2 No. of Administrative/Technical staff

01

2.3 No. of students

02

2.4 No. of Management representatives

01

2.5 No. of Alumni

01

2. 6 No. of any other stakeholder and

   community representatives

01

2.7 No. of Employers/ Industrialists

01

2.8 No. of other External Experts

--

2.9 Total No. of members

15

2.10 No. of IQAC meetings held

02

2.11 No. of meetings with various stakeholders: No. 03   Faculty 01

Non-Teaching Staff Students 01   Alumni 01   Others

2.12 Has IQAC received any funding from UGC during the year?   Yes ☐   No √

If yes, mention the amount

2.13 Seminars and Conferences (only quality related)

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

Total Nos. 08   International ☐   National ☐   State ☐   Institution Level 08

(ii) Themes

- Outcomes Based Education
- Entrepreneurship Orientation Program
- Logical Thinking and Career Planning
- HTML5 & PYTHON PROGRAMMING LANGUAGE
- Advanced Industrial Automation Training
- National Instruments Lab VIEW
- MTA certification program on Database Fundamentals training
- CCNA Training Program

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 *

Plan of Action	Achievements
To apply for NBA Accreditation	03 departments EEE, ECE and MECH got NBA Accreditation for 02 years under Tier-I.
To offer Value added courses	04 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 were organised regularly.
Submission of research proposal to external funding agencies.	• 03 Major projects are completed • 03 Major and 02 Minor projects are ongoing • 10 Major and 04 Minor projects are submitted. • CSE,EEE,ECE,MECH and FED departments are further recognised as research centres by JNTUK, Kakinada
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 further recognized as research centres by JNTUK, Kakinada
Conducting Faculty Development Programs on Emerging technologies	• 01 Faculty development Program for 10 days is organised • 02 Faculty development Programmes of each 30 hours are organised • 02 Faculty development Programs of one week each are organised.
Communication with Parents	• Letters with particulars of Percentage of attendance, Mid-exam marks, SGPA and Backlogs have been sent. • Percentage of student attendance is improved
Arranging training on latest technologies for students.	15 workshops are conducted on latest technologies
To develop and nurture entrepreneur skills in the students	• Two Day Workshop on "Entrepreneurship Orientation Program" was conducted. • Guest lecture on "Awareness on Entrepreneurship" was conducted. • Seminar on "Logical Thinking and Career Planning" organized.
NCC activities	• NCC 4(A) Girls ncc Unit was started • 03 activities are organised
Developing documentation Standards.	Documentation standard for monthly report has been developed.
CBCS curriculum(R17)	CBCS curriculum has been initiated
Student counselling	Monthly counselling by the mentors

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 International/National level conference on quality related theme.

2. Taking up of funded major research projects.

3. Online Certification courses for faculty and students

4. Develop a quality factor that assesses the quality of placement activity.

5. Coordinating for ISO Surveillance audit certification.

6. Conduct a cultural fest

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	--	--	--	--
Total	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 student 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
247	181	37	26	03(01-Librarian, 01-PD & 01-Yoga Master)

2.2 No. of permanent faculty with Ph.D

37

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
37	28	3	15	4	6	0	0	40	44

2.4 No. of Guest and Visiting faculty and Temporary faculty

0		2		0

2.5 Faculty participation in conferences and symposia:

No. of Faculty	International level	National level	State level
Attended Seminars/ Workshops	21	64	13
Presented papers	16	07	00
Resource Persons	04	03	01

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   182

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 semester and end 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 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 | 51 | 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	859	65.42	19.09	1.62	--	86.13
PG	212	54.24	24.52	--	--	78.76

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

Faculty / Staff Development Programmes	Number of faculty benefitted
Refresher courses	0
UGC – Faculty Improvement Programme	0
HRD programmes	0
Orientation programmes	169
Faculty exchange programme	0
Staff training conducted by the Institute	197
Staff training conducted by other institutions	30
Summer / Winter schools, Workshops, etc.	83
Others	191

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	58	06	--	--
Technical Staff	63	18	13	--

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. 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) repute 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 cash incentives. 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.

➤ **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	--	04	01	10
Outlay in Rs. Lakhs	--	--	11,17,600	1,60,53,000

3.3. Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number	01	02		
Outlay in Rs. Lakhs	80,000	---		

3.4. Details on research publications

	International	National	Others
Peer Review Journals	50	00	00
Non-Peer Review Journals	00	00	00
e-Journals	00	00	00
Conference proceedings	02	00	00

3.5 Details on Impact factor of publications:

Range | 0.14-2.2 | **Average** | 0.86 | **h-index** | 50 | **Nos. in SCOPUS** | 06

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	Ongoing (04)			
	3	SERB		--
	3	DST		--
	3	DST		--
	3	DST		--
	Sanctioned (01)			
	3	DST	21,69,600	11,17,600
Minor Projects	Completed (01)			
	2	UGC		80,000
	Ongoing (02)			
	2	UGC		--
	2	UGC		--
Interdisciplinary Projects				
Industry sponsored				
Projects sponsored by the				
Students research projects				
Any other(Specify)				
Total				**11,97,600**

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 [ ]   **CE** [ ]   **Any other (specify)** [ ]

3.10 Revenue generated through consultancy   [3, 22,850/-]

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   [06]

3.13 No. of collaborations   **International** [04]   **National** [14]   **any other** [ ]

3.14 No. of linkages created during this year [07]

3.15 Total budget for research for current year in lakhs :

From funding agency [**11,97,600**]   From Management of University/College [**41,68,981**]

Total   [**53,66,581**]

3.16 No. of patents received this year

Type of Patent		Number
National	Applied	
	Granted	
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
			01	02		03

3.18 No. of faculty from the Institution Who are Ph. D. GUIDES? `15`

And students registered under them `26`

3.19 No. of Ph.D. awarded by faculty from the Institution `0`

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 `0`   State level `550`

National level `0`   International level `0`

3.22 No. of students participated in NCC events:

University level `0`   State level `60`

National level `0`   International level `0`

3.23 No. of Awards won in NSS:

University level `0`   State level `1`

National level `0`   International level `0`

3.24 No. of Awards won in NCC:

University level `0`   State level `0`

National level `0`   International level `0`

3.25 No. of Extension activities organized

University forum ☐   College forum ☐

NCC `3`   NSS `33`   Any other `0`

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

Regular Activities

1. On the account of National Yoga Diwas (21-06-2015), College NSS Unit conducted an awareness program on yoga for staff and students. Mr.K.V.S.K.Murthy, Yoga Trainer-LBRCE conducted the yogasanas for the staff and students.

2. As part of Digital India Week during 02-08-2015 to 07-08-2015, NSS Unit conducted Essay Writing and Elocution competitions to college students for encouraging towards Social Empowerment and Global Job Market.

3. On the Birth Anniversary of K.L.Rao, College NSS Unit conducted Essay Writing and Elocution competitions in association with Civil Department. Good Number of participants were attended to the competitions on 15-07-2015.

4. On the sudden demise of Man of Missile, Ex-President of India Dr.A.P.J Abdhul Kalam, college NSS unit conducted condolence program on 30-07-2015 in the campus premises.

5. On the eve of International Youth Day on 12-08-2015, NSS Unit conducted Essay Writing and Elocution Competitions for the students.

6. In view of 69th Independence Day Celebrations, The student volunteers of the college NSS unit participated in 'Campus Cleaning Program' and Students. NSS volunteers made the necessary arrangements for the Independence Day Celebrations on 14-08-2015 and 15-08-2015 and attended for the program.

7. On the eve of Sadbhavan Diwas on 20-08-2015, the college NSS unit organized special talk by the Director of the institution to the students and faculty. The following is the list of meetings organized:

i) Motivational lecture on 'Sadbhavana Diwas and Communal Harmony' by the college Director– All PG and UG students of the college attended program.

ii) A meeting conducted for all the staff members of the college to remind all about the importance of Sadbhavana Diwas and National Integrity, Communal Harmony, Unity among the people, etc.

8. As a part of Anti-ragging aspect, NSS Unit of LBRCE conducted a seminar on "Anti-Ragging" on 25-8-2015. In the seminar, D.S.P. of Nuziveedu and Sub-Inspector of police of Mylavaram Mr.S.Hari Krishna garu emphasized on how students are spoiling their career by involving in the ragging issues and suggested the students to welcome the junior students in a friendly environment.

9. NSS Unit of LBRCE conducted a two day seminar on "Role of Life Skills for Engineering Graduates" on 03-09-2015.

10. The college NSS Unit organized the Blood Group Check-up Programme on 04-09-2015 for all the PG and a few I-B.Tech 2015-16 Batches in the college premises. The Red Cross society, Vijayawada provided technical and logistic support wholeheartedly.

11. In view of Teachers Day Celebrations on 05-09-2015, NSS Unit of LBRCE conducted events like Essay Writing and Elocution competitions for college students and school students.

12. Engineers Day was celebrated by the NSS unit in the college on 15-09-2015. A host of competitions like, Group Discussions, JAM and Personality tests were conducted to mark the occasion. Scores of students enthusiastically participated in the above events.

13. The NSS Foundation Day was celebrated with traditional gaiety in LBRCE on 24-09-2015. To mark the occasion, college 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.

14. NSS Unit of LBRCE conducted Gandhi Jayanthi on 02-10-2015. In this connection, NSS Unit of LBRCE conducted Essay writing and Elocution events to the students.

15. NSS Unit of LBRCE conducted International day of Non Violence Week from 29-09-2015 to 05-10-2015.This program emphasizes use this day of global observance to promote non-violence and awareness in your community through artwork, blogging and making a commitment to encourage non-violence and tolerance. Education and awareness are essential to the promotion of international peace. As Gandhi has said, "Non-violence is the greatest force at the disposal of mankind.

16. In view of World Students Day on 15-10-2015, NSS Unit of LBRCE conducted a condolence program and events like essay writing elocution to the student.

17. NSS Unit of LBRCE conducted Vigilance Awareness Week from 26-10-2015 to 31-10-2015. As a part of the program a Massive Rally was taken out to spread the message of Unity among the younger generation .Among other things, Essay Writing and Elocution competitions were conducted and the winners were presented prizes.

18. NSS Unit of LBRCE conducted Dental Camp for the Staff and faculty on 23-01-2016 in association with Lalitha Smile Clinic,Vijyawada.

19. 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 25-01-2016 and 26-01-2016.

20. NSS Unit of LBRCE conducted Dental Camp at college adopted village Pondugala on 11-02-2016 in association with Siddartha Dental Hospital, Gannavaram. Dr.E.V.Prasad, Director-LBRCE inaugurated the program and advised the people about dental care cautions. Doctors Team of Siddartha Dental College observed the patients, make the process of cleaning, awareness on dental issues, supply the medicines freely to the needy patients. Doctors' team distributed free dental kit to MPUP School Children and Village People.

21. NSS Unit of LBRCE organized an Awareness Program on "Abroad Education and Sorting out Visa Issues" for UG & PG students in association with Visu Consultancy, Vijayawada.

22. NSS Unit of LBRCE conducted Career Guidance Program for 10th class Children's of Girls High School, Mylavaram on 18-03-2016

Blood Donation Camps conducted during 2015-16 A.Y

Sno	Date of Conduction	No. of Blood Donors	Association partner
1	30-12-2015	110	Red Cross Society of India, Vijayawada
2	12-03-2016	44	

In addition to this count our students are regularly donating the blood for needy and poor people who are hospitalized. This academic year around 120 students donated the blood.

Fund Donations

Sno	Name of the Beneficiary	Date	Amount
1	Helped to Mr.Sk.MukBul Basha(Father of Sk.Tasleema Sulthana-Mechanical Student)	01-04-2015	30,000/-

No. of social initiatives undertaken by the students

1. NSS Unit of LBRCE conducted Vana Mahosthav, A massive tree plantation program at Lakireddy Papulamma Z.P.H School,Velvadam on 17-07-2015

2. NSS Unit of LBRCE distributed books to MPUP School children's of Pondugala on 19-08-2015.

3.As per the directions of A.P State Government, NSS Unit of LBRCE conducted Tree Plantation program on 12-11-2015 at Lakireddy Hanimi Reddy Stadium premises.NSS Volunteers planted the 100 trees with in the college premises to enhance the greenery.

4. In view of Children's Day on 14th Nov 2015, NSS Unit of LBRCE conducted events such as1.Essay Writing 2. Debate 3.Painting for a) Lakireddy Hanimi Reddy High School,Mylavaram b) AP State Welfare High School, Kuntamukkala c) ZPH School-Chandrala. 200 Students of Classes 8-10 participated in the event. NSS Volunteers sponsored the prizes.

5. NSS Volunteers participated in the activities of Independence and Republic Day at the college and JNTU Kakinada.

6. As part of Andhra Pradesh activity, Pulse Polio Immunization on 21-02-2016, NSS Unit of LBRCE Volunteers rendered their services in and around of Mylavaram. NSS Volunteers record the details of children where they served and helped at six places during the immunization camp.

7. NSS Unit of LBRCE conducted the prestigious program of distribution of Exam Kit to G.Konduru, A.Konduru & Mylavaram ZPH School X class children. In view of public exams, NSS Unit of LBRCE actively distributed the exam kits to three Mandalams. Total 1183 Exam kits are distributed under NSS Unit.

Criterion – IV4.

Infrastructure and Learning Resources

4.1 Details of increase in infrastructure facilities:

Facilities	Existing	Newly created	Source of Fund	Total
Campus area	51.58Acres	Nil	LBRCE	51.58Acres
Class rooms	65	02	LBRCE	67
Laboratories	55	02	LBRCE	57
Seminar Halls	07	00	LBRCE	07
No. of important equipments purchased (≥ 1-0 lakh) during the current year.	119	17	LBRCE	136
Value of the equipment purchased during the year (Rs. in Lakhs)	586.3	131.90	LBRCE	718.2
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	36326	71,08,357/-	1104	1,02,296/-	37430	72,10,653/-
Reference Books	14060	42,72,275/-	225	0,78,000/-	14285	43,50,275/-
e-Books	1,00,500	2,12,445/-	34500	16,500	1,35,000	2,28,945/-
Journals	460	7,28,924/-	185	2,11,693	645	9,40,617/-
e-Journals	6800	31,32,158/-	----	10,80,624	6800	42,12,782/-
Digital Database	01	10,000/-	01	5,000/-	01	15,000/-
CD & Video	5113	----	173	----	5286	----
Others (specify) 1.Back Volumes	3305	-------	02	---	3307	-------
2.Project Reports	2498	------	257	---	2755	------

4.4 Technology up gradation (overall)

	Total Computers	Computer Labs	Internet (Mbps)	Browsing Centres	Computer Centres	Office	Depart-ments	Others
Existing	1082	17	40	01	--	01	10	05
Added	129	04	180	--	--	--	--	--
Total	1211	21	220	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

4.60

ii) Campus Infrastructure and facilities

100.51

iii) Equipments

13.80

iv) Others

321.00

Total:

439.91

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   [3744]

(b) No. of students outside the state   [0]   (c) No. of international students   [0]

Men	No	%	Women	No	%
	2395	63.97		1349	36.03

Last Year						This Year					
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
1708	448	112	1368	4	3640	1753	476	116	1395	04	3744

Demand ratio: 1:1 (89.24)   Dropout %: 0.11%

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   [500]

5.5 No. of students qualified in these examinations

NET [-]   SET/SLET [-]   GATE [45]   CAT [6]

IAS/IPS etc [-]   State PSC [2]   UPSC [-]   Others [49]

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 staring 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

On campus			Off Campus
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

Legal Literacy to women During Fem-fest and cultural fest, lectures are organized on women's rights, responsibility and issues. Moreover, invited talks are organized with professionals from legal back grounds to provide legal literacy to women.

5.9 Students Activities

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

State/ University level | 121 | 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 | 37 | National level | 37 | International level | -

Cultural: State/ University level | - | National level | - | International level | -

5.10 Scholarships and Financial Support

	Number of students	Amount
Financial support from institution	28	4,88,250
Financial support from government	2271	8,90,93,800
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 | 2 | National level | 1 | International level |

Exhibition: State/ University level | | National level | | International level |

5.12   No. of social initiatives undertaken by the students   07

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 student 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.
> ➢ Question banks are prepared by the subject experts from the institute 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 subject experts.
> ➢ 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.
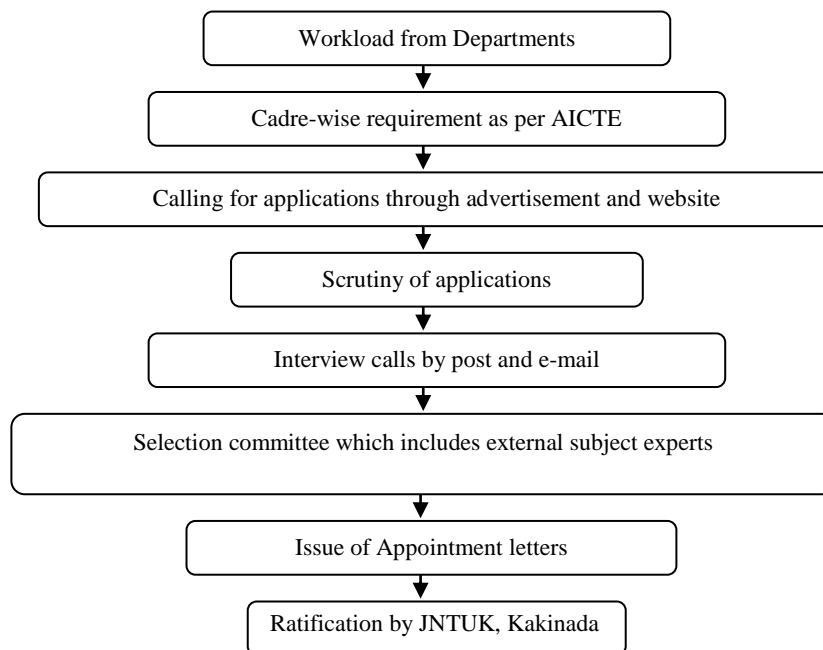
6.3.6 Human Resource Management

> 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.

```
        Workload from Departments
                  │
        Cadre-wise requirement as per AICTE
                  │
  Calling for applications through advertisement and website
                  │
        Scrutiny of applications
                  │
        Interview calls by post and e-mail
                  │
  Selection committee which includes external subject experts
                  │
        Issue of Appointment letters
                  │
        Ratification by JNTUK, Kakinada
```

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	> EPF > Insurance cover for Health (Rs.1,00,000/- Mediclaim) > Transport Facilities: Free Transport for Professors & Concessional Transport for other staff. > 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. > Extra Ordinary Leave on Loss of pay > GLIC
Non teaching staff	> EPF > Gratuity for supporting staff > 50% tuition fee concession for supporting staff children's > GLIC
Students	> Free medical check-up / treatment > Fee concession for economically poor students > Scholarship/Medals for academic toppers > Scholarship for 100% attendance maintaining students > Sponsoring the students to participate in Co-curricular and Extra Curricular activities

6.5 Total corpus fund generated   25.00 Crores

6.6 Whether annual financial audit has been done   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.
- Question banks to be prepared by Internal subject experts and which shall be scrutinized by senior professors of the college.
- Answer scripts valuation by external experts
- 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 2nd 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. The design process of R17 regulations and curriculum has been started.

2. The course coordinator system has been continued.

3. Conduct of subject based Seminars and workshops has 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. A better set of electives (Program electives, Open electives and Mandatory courses as well as MOOCs) are under consideration 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.

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 10 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.Initiation of Choice Based Credit System (CBCS)
>
> 2.Monitor-Measure-Manage System (Student Counselling System)

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 37000 printed books and 100000 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.
➢ 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.
> - Planning to introduce series of certificate programs, short term courses and workshops and many such teaching-learning activities.
> - Enhancing the Students' English Communication Skills
> - Conducting the International Conference
> - Online Certification courses (NPTEL, MOOCS)
> - Coordinating for ISO Surveillance audit certification.
> - Conducting cultural fest

Name: Dr.R.Chandrasekharam   Name : Dr.E.V.Prasad

Signature of the Coordinator, IQAC   Signature of the Chairperson, IQAC

DIRECTOR
Lakireddy Bali Reddy College of Engg
MYLAVARAM 52-230

Best Practice – I:

1. Title of the Practice: Initiation of Choice Based Credit System (CBCS)
2. Goal

International educational institutions are well known for adopting a highly flexible Choice Based Credit System (CBCS). In pursuit of such international standards introduction of CBCS is considered for implementation at our institute. The objective is to provide all possible flexibility to the students subject to the curriculum requirements and other limitations of implementations in Indian conditions.

3. **The Context**

The academic requirements of completing the minimum essential credits for the award of a degree in specific branch of engineering must be adopted. The flexible components are from program electives, open electives and co-curricular components. Reduction of work load in the final semester can contribute towards more quality in student project implementations resulting in improved project based learning. Sufficient weightage is to be given for mandatory courses, on-line courses and extracurricular activities. The total number of credits for the award of degree needs to be balanced in terms of flexibility.

4. The Practice

The frame work of credits allocation for different portions of the curriculum such as program core, program electives, open electives, engineering sciences and others is decided first. All the departments are requested to come out the complete specification of the curriculum for their respective branch of engineering program. Provisions have been made for wide range of online courses. Final semester work load is flexibly arranged such that students can take up projects in the industry for the whole semester. Provision for self study courses as open electives (for completion of academic requirement) is made for improved flexibility.

5. Evidence of Success

As per AICTE guidelines the following credits has been allocated for curriculum design.

Course work- Subject Area	% Proposed Credits for R17
Humanities and Social Sciences	7.95
Basic Sciences	14.77
Engineering Sciences	14.77
Professional Subjects–Core	36.93
Professional Subjects–Electives	10.23
Open Subjects- Electives	5.12
Personality Development– (a)Integrated Learning Practice (b)Mandatory Courses (c)Audit Courses	10.23
Total	100.00

6. Problems Encountered and Resources Required

A complete flexibility in terms of number of courses registered by each student could not be offered. The graduation program of specific engineering program could not be made flexible enough to cover all possible streams of specializations.

7. Notes - Nil

Best Practice II

1. Title of the Practice: Monitor-Measure-Manage System (Student Counselling System)

2. Goal

Student performance improvement through monitor-measure-manage system is an important component for sustained betterment of the institute. Accordingly our college has considered student counselling system as a good means for this purpose. The objective is to design and implement counselling system that could pro-actively help the students to improve their performance.

3. *The Context*

The counsellor is expected to focus on attendance, student ability level in each subject in terms of ability in prerequisites, ability to concentrate in the class room and perception ability. Considering these aspects counsellor is expected to quantify the confidence levels of each subject of a student. Finally counsellor gives the suggestions regarding attendance, academics, backlog subjects and other aspects to the student and classifies the students into four categories. Improvement of student performance can be observed in successive classifications of any student.

4. The Practice

The implementation adopted the following methodology:
- Counselling is done after every mid examination.
- Confidence levels of student in each subject are closely monitored and suggestions are accordingly given.
- Category of every student is intimated to the parent.
- Student achievements in academics, co-curricular and extra-curricular activities are also noted.
- Punishments and undisciplined activities by the student are also noted and remedial actions are suggested.

5. Evidence of Success
- Results have been improved
- Around 90% of students completed their course within the stipulated period.
- Percentage of Distinction is increased by 5% than the last academic year (A.Y 2014-15)

6. Problems Encountered and Resources Required

Non co-operation from some problematic students and parents.

7. Notes

Annexure II Academic Calendar _ 2015-16

http://www.lbrce.ac.in/2015-16%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

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