Yearly Status Report - 2019-2020

Part A	
Data of the Institution	
1. Name of the Institution	**LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING**
Name of the head of the Institution	**Dr.K.Appa Rao**
Designation	**Principal**
Does the Institution function from own campus	**Yes**
Phone no/Alternate Phone no.	**08659222930**
Mobile no.	**8333905791**
Registered Email	**principal@lbrce.ac.in**
Alternate Email	**lbcemym@lbrce.ac.in**
Address	**L.B.Reddy Nagar**
City/Town	**Mylavaram**
State/UT	**Andhra Pradesh**
Pincode	**521230**

2. Institutional Status

Autonomous Status (Provide date of Conformant of Autonomous Status)	**17-Sep-2010**
Type of Institution	**Co-education**
Location	**Rural**
Financial Status	**Self financed**
Name of the IQAC co-ordinator/Director	**Prof.B.Ramesh Reddy**
Phone no/Alternate Phone no.	**08659223494**
Mobile no.	**9440990927**
Registered Email	**iqac@lbrce.ac.in**
Alternate Email	**principal@lbrce.ac.in**

3. Website Address

Web-link of the AQAR: (Previous Academic Year)	https://www.lbrce.ac.in/2018-19%20AQAR.pdf

4. Whether Academic Calendar prepared during the year

4. Whether Academic Calendar prepared during the year	**Yes**
if yes,whether it is uploaded in the institutional website: Weblink :	https://lbrce.ac.in/2019-20%20Academic%20Calendars.pdf

5. Accrediation Details

Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
1	**A**	**3.09**	**2013**	**05-Jan-2013**	**04-Jan-2018**
2	**B++**	**2.96**	**2018**	**02-Nov-2018**	**01-Nov-2023**

6. Date of Establishment of IQAC

6. Date of Establishment of IQAC	**01-Aug-2012**

7. Internal Quality Assurance System

Quality initiatives by IQAC during the year for promoting quality culture		
Item /Title of the quality initiative by	Date & Duration	Number of participants/ beneficiaries

IQAC		
Orientation program for students on Entrepreneurship development and start-up	22-Jul-2019 01	448
Invited Talk on How to write Good Research Proposal	09-Sep-2019 01	221
Two Day Technical Fest for Students World Space Week-2019 in association with ISRO Sriharikota	09-Oct-2019 02	2229
Four Day Online workshop for Students and Faculty on COVID 19 Resurgence of Entrepreneurship and Start-ups at Indian Glance	25-May-2020 04	694
Five Day Online Program for Faculty on Pedagogy Techniques for Effective Teaching-Learning	08-Jun-2020 05	55
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8. Provide the list of Special Status conferred by Central/ State Government- UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.

Institution/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
Lakireddy Bali Reddy College of Engineering	CPE	UGC	2016 1825	0
Lakireddy Bali Reddy College of Engineering	2(f)	UGC	2010 2190	0
Lakireddy Bali Reddy College of Engineering	12(B)	UGC	2011 2190	0
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9. Whether composition of IQAC as per latest NAAC guidelines:	**Yes**
Upload latest notification of formation of IQAC	[View File](#)
10. Number of IQAC meetings held during the year :	**3**
The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional	**Yes**

website	
Upload the minutes of meeting and action taken report	[View File](#)
11. Whether IQAC received funding from any of the funding agency to support its activities during the year?	No

12. Significant contributions made by IQAC during the current year(maximum five bullets)

Participation in NIRF India Rankings 2020, DataquestCMR T Schools Survey 2020, Dataquest Digital Index 2020. The IQAC collects required data and information on Academic Programmes, Students Enrolment, Faculty Strength, Infrastructure and Quality of the Programmes from all the departments and different sections of the College for regular update.

Organized FDPs on Emerging Areas, ICT tools , LMS and Administrative training programs for supporting staff. Organized training program on Pedagogical methods in teaching for all newly recruited faculty and faculty with less Faculty Performance Index(FPI). Conducted awareness program on OBE and Technology Enhanced Learning (TEL).

Introduced collection of feedback on curriculum by the faculty. Quality analysis of Semester End Examination(SEE) papers is introduced. Revised Self Appraisal forms by incorporating additional necessary information. Encouraged faculty to conduct regular parent teacher meetings.

Faculty and students are further encouraged to take NPTEL and Coursera online certifications

Faculty are motivated to file the patents and publish the research work in SCI/WoS/SCOPUS and UGC approved journals.

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13. Plan of action chalked out by the IQAC in the beginning of the academic year towards Quality Enhancement and outcome achieved by the end of the academic year

Plan of Action	Achivements/Outcomes
Designing of Choice Based Credit System(CSBS) Curriculum	• Keeping in view of AICTE model Curriculum as well as recent trends in industry and as per APSCHE guidelines a new regulation R20 is designed with provision of Minor Degree and Honours.
Encouraging faculty members to enhance their teaching learning abilities	• Faculty members are effectively using ICT facilities, LMS and Microsoft Teams 27 Faculty development Programs are organised. • 192 Faculty members were provided with financial support to attend International Conferences, FDPs,

	Workshops and Certifications programs • 113 faculty members have successfully completed the various NPTEL(Swayam) online courses on latest technologies during the period Dec 2019 to April 2020. • 143 faculty members have successfully cleared the various NPTEL (Swayam) online courses on latest technologies during the period June 2019 to November 2019. Among them, 10 are the toppers, 08 EliteGold, 42 are awarded as EliteSilver, 69 are Elite and 54 faculty have successfully completed. • Quite good number of Coursera Online courses are successfully completed by faculty and students • An inhouse teacher training program for the newly joined faculty and faculty with poor performance index is organized by IQAC and mentoring by senior faculty to improve the Performance Index.
Offering value added courses on Emerging Technologies	• 68 Value added courses are conducted on latest technologies and career guidance for the benefit of the students. • 11 students are successfully completed the various NPTEL(Swayam) online courses on latest technologies during the period Dec 2019 to April 2020. • 284 students are successfully cleared the various NPTEL (Swayam) online courses on latest technologies during the period June 2019 to November 2019. Among them, 91 students are awarded as EliteSilver, 139 students as Elite and 54 are successfully completed. • 12 Certification programs and 38 workshops conducted on emerging areas 23 industrial visits were organized by various departments of LBRCE
Improving the activities of CIIE to come out with Innovative ideas and Startup proposals	• LBRCE has registered a company named as LBRCEIC FOUNDATION on 07022020 • 02 students are registered a start up named as Electrical utility under companies act.2013 with a financial support Rs. 22000 by LBRCECIIE • 03 startups are in process at LBRCE CIIE • Centre for Innovation, Incubation and Entrepreneurship (CIIE) is accorded a 3 STAR Rating to by IIC,MHRD. • CIIE has received a grant of Rs. 40,000/ from IIC, MHRD, AICTE • 2.5 Lakhs financial support extended by College to mechanical department students for participating in Rally Car Design Challenge (RCDC2019) Competition held

	at Bikaner, Rajasthan, during 2nd to 4th Oct, 2019. • 10 innovative prototypes viz., Smart Socket, Human Excreta Cleaning Machine, Tracking Tick, Green Bike, Smart Skivvy, Street Light switching automatically, Low cost Home Automation, Vehicle Tracker using GPS, UV Sanitizer and Water Bike were developed at CIIE. • Conducted Smart India HackathonSIH 2020 by LBRCE and IICMHRD on 09122019 • Conducted The Ideation fest 3.0 by LBRCE on 24072019 • Two students have successfully completed 1 year Technology Entrepreneurship Programme in Indian School Of Business (ISB) Hyderabad 11 activities are conducted by LBRCECIIE to promote Innovation, Incubation and Entrepreneurship.
Encouraging faculty for applying for sponsored Projects and consultancy work.	• 42 Research proposals have been submitted to different funding agencies worth of 652 Lakhs • 05 projects are sanctioned by various funding agencies worth of 57.14 Lakhs • An amount of 2.75 Lakhs has been received through consultancy
Encouraging faculty to involve in research work leading to publications in reputed journals and Patent Publications	• Incentives around Rs. 3,46,000/ to 54 faculty members for quality publications (77), sponsored research grants financial assistance for filing patents have been extended by college management that helps to increase overall R D accomplishments. • 9 Advanced Research Labs are made availabe with the latest software tools and equipment. • 274 research papers are published in indexed journals • 13 Indian patents are published
Enhancing Students' English Communication Skills and Programming Skills	• Training on Programming Skills by Internal certified faculty (Wipro 3 faculty from CSE IT, Ebox training for TCS CodeVita28 Faculty from CSE, IT and MCA, CISCO 4 Faculty from CSE, IT ECE, AWS 2 Faculty from CSE IT, Blueprism01 Faculty from IT) • 526 placements during the A.Y with highest package of 10LPA are obtained • 09 students got placed in Royal Enfield, KIA Motors, TVS Motors through training imparted by ARC trained faculty. • 70 No. of Students have achieved success in various competitive examinations like GATE, TOFEL,CAT, GMAT, etc. • German Language Training being offered and 25 students obtained German Language Certification in 2019

Improving student participation in Extra Curricular, Cultural and Extension Activities	• 31 awards at national level and State level in sports and games cultural competitions • 50 Sports and cultural activities / competitions are organised • 103 students have participated in sports and games at National and State level competitions • 50 NSS Activities are Conducted • Ganapavaram Village is Adopted • 30.15 of students have participated in NSS activities • 08 NCC Camps are conducted • 51 students are registered for NCC C Certificate • 57 students are registered for NCC B Certificate
Applying for Accreditations	Aerospace Engineering (AE), Civil Engineering (CE), Master of Business Administration (MBA) departments are initiated for NBA accreditation and Mechanical Engineering (ME) going for reaccreditation. NAAC ReAssessment application is in progress to improve the grade OBE procedural changes are made to overcome degenerative cases in existing OBE computational procedures.
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14. Whether AQAR was placed before statutory body ?	Yes

Name of Statutory Body	Meeting Date
Governing Body	09-Jan-2021

15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	No

16. Whether institutional data submitted to AISHE:	Yes

Year of Submission	2020

Date of Submission	21-Jan-2020

17. Does the Institution have Management Information System ?	Yes

If yes, give a brief descripiton and a list of modules currently operational (maximum 500 words)	Yes, but not an integrated single system but supported with individual systems for different sections. Examination Management System: ? Examination section is 100 automated using ERP Softwere which provides

facilities for hall ticket generation, Examination Fee collection, Result Processing and certificate issue. ? Examination Management System and Examination section have Dedicated server and RFID locking with standby. ? Protected server with firewall security Authorised access to the controller of examination through security key only. CCTV surveillance Backup data storage are also available. Library automation system: ? Ez – Library – Volksoft technologies library automation systemn is provided in 2005 itself. ? The entire library operations are automated using computer systems. ? The Digital Library is provided with Tidal data ML – 11220 Server with 4.7 TB storage ? 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 taken and due date to return fine amount to be paid for books not returned access to the eresources /NPTEL /SONET video lectures Office automation system and website provides the following features ? Verfication of student data by parent ? Tution fee collection ? Attaendance verification and reports ? Communication to parent ? Office circulars ? All communications to departments for TeachingLearning process implementation.

<div align="center">Part B</div>

CRITERION I – CURRICULAR ASPECTS

1.1 – Curriculum Design and Development

1.1.1 – Programmes for which syllabus revision was carried out during the Academic year

Name of Programme	Programme Code	Programme Specialization	Date of Revision
BTech	21	Aero space Engineering	15/06/2019
[View File](#)			

1.1.2 – Programmes/ courses focussed on employability/ entrepreneurship/ skill development during the Academic year

Programme with	Programme	Date of Introduction	Course with Code	Date of Introduction

Code	Specialization			
BTech	**Aero space Engineering**	**15/06/2019**	**Engineering Fluid Mechanics 17AE01**	**15/06/2019**
[View File](#)				

1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the Academic year

Programme/Course	Programme Specialization	Dates of Introduction
BTech	**0**	**Nill**
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1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective Course System implemented at the College level during the Academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
BTech	**Aero space Engineering**	**15/06/2019**
BTech	**Civil Engineering**	**12/06/2019**
BTech	**Computer Science & Engineering**	**23/06/2019**
BTech	**Electronics & Communication Engineering**	**23/06/2019**
BTech	**Electrical & Electronics Engineering**	**18/06/2019**
BTech	**Electronics & Instrumentation Engineering**	**15/06/2019**
BTech	**Information Technology**	**15/06/2019**
BTech	**Mechanical Engineering**	**04/06/2019**
Mtech	**Computer Science & Engineering**	**23/06/2019**
Mtech	**Power Electronics & Drives**	**18/06/2019**
Mtech	**VLSI & Embedded Systems**	**23/06/2019**
Mtech	**Thermal Engineering**	**04/06/2019**
MBA	**Master of Business Administration**	**15/06/2019**
MCA	**Master of Computer Applications**	**02/06/2019**

1.3 – Curriculum Enrichment

1.3.1 – Value-added courses imparting transferable and life skills offered during the year

Value Added Courses	Date of Introduction	Number of Students Enrolled
Workshop on Building Drafting using Autocad	**22/06/2020**	**5**
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1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BTech	Aero space Engineering	16
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1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	Yes
Alumni	Yes
Parents	Yes

1.4.2 – How the feedback obtained is being analyzed and utilized for overall development of the institution? (maximum 500 words)

Feedback Obtained
The Departments and in turn Institution is guided and monitored in the designing of program curriculum by Department Academic Committee (DAC) and Board of Studies (BOS). The Department Academic Committee (DAC) comprising of Head of the department as chairman, Professors, Associate Professors, and Assistant professors as members from the department. The Board of studies (BOS) committee consists of Head of the Department as a Chairman, three subject experts from which one of them as University nominee and two are external members and one from Industry, one from alumni and other subject experts from the Department. These meetings are conducted for every six months in a year based on the requirement of change of regulation. The curriculum revision is going on for every three years. Customary gatherings are led for getting feedback from different stakeholders like student, Teachers, Employers, Alumni, and parents. The feedback from different stakeholders will be gathered for the audit in the review of the department academic committee meetings. By aggregating the suggestions given by all the stakeholders with regard to the required courses which are in accordance with industry needs are fused in the educational programs process. Based on the recommendations of BOS committee, the department academic committee shall do the modifications to the program curriculum. The consolidated selection of all the courses will be chosen based on components of recommendations given by AICTE, APSCHE, BOS, and DAC accordingly the course selection to the prescribed number of credits will be done. In this curriculum design, core electives, professional electives and open electives are added based on the recommendations of the above mentioned stakeholders and implemented based on the feasibility level, at every revision in the Academic Regulations.

CRITERION II – TEACHING- LEARNING AND EVALUATION

2.1 – Student Enrolment and Profile

2.1.1 – Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
BTech	Computer Science & Engineering	193	365	193
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2.2 – Catering to Student Diversity

2.2.1 – Student - Full time teacher ratio (current year data)

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2019	3543	348	180	8	44

2.3 – Teaching - Learning Process

2.3.1 – Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc. (current year data)

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Numberof smart classrooms	E-resources and techniques used
232	232	15	69	5	12
[View File of ICT Tools and resources](#)					
[View File of E-resources and techniques used](#)					

2.3.2 – Students mentoring system available in the institution? Give details. (maximum 500 words)

Types of Mentoring: (a) Professional guidance: • Motivate students to attend technical events/symposia/workshops/seminars. • Encourage students to discuss their ideas. • Stimulate students thinking towards innovation in projects leading to entrepreneurship. • Persuade them to upgrade their domain knowledge and skills. (b) Academic guidance: • Share information of academic plans, academic schedules and e-learning resources. • Identify students with poor attendance and ensure that they improve their attendance by getting counselled in the presence of mentor and HOD. • Focus on academically weak students, by providing them with additional reading materials, model questions along with solutions and encourage them to attend the remedial classes. • Encourage the bright students to attend more workshops and technical talks. (c) Career advancement: • Encourage students to do certification courses in order to build on their qualifications related to their career. Ex. NPTEL • Provide Career Guidance/Campus Recruitment Training (CRT) and other Training apart from arranging campus recruitment drives by the Training Placement Cell. (d) Laboratory specific: • Counsel absentee students to attend regularly for the laboratory classes to complete backlog experiments during specified extra hours. • Arrange special lab coaching for Students with backlogs in external lab exams. (e)Personal development: • Encourage the student to take the help from Psychologist employed by the college, if necessary. • Empower and enable inner adjustments by individual students to encounter and cope up with physical, emotional, mental, social and environmental challenges through student-counsellor interaction/ through meditation/ workshops /other specialized activities. • Engaging in family /peer counselling by Counsellor/ HOD to strengthen students' interpersonal relationships thereby improving performance.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
3891	225	1:17

2.4 – Teacher Profile and Quality

2.4.1 – Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
6	6	Nill	6	4

2.4.2 – Honours and recognition received by teachers (received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the year)

Year of Award	Name of full time teachers	Designation	Name of the award,

2019	Dr. B. Eswara Kumar	Professor	International Conference on Theoretical Physics and Applied Physics

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2.5 – Evaluation Process and Reforms

2.5.1 – Number of days from the date of semester-end/ year- end examination till the declaration of results during the year

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
BTech	21,1,5,4,2,10,12,3	SEM-II	16/12/2020	28/12/2020

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2.5.2 – Average percentage of Student complaints/grievances about evaluation against total number appeared in the examinations during the year

Number of complaints or grievances about evaluation	Total number of students appeared in the examination	Percentage
276	3848	7

2.6 – Student Performance and Learning Outcomes

2.6.1 – Program outcomes, program specific outcomes and course outcomes for all programs offered by the institution are stated and displayed in website of the institution (to provide the weblink)

https://www.lbrce.ac.in/pospsos.php

2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
21	BTech	Aerospace Engineering	41	40	97.56

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2.7 – Student Satisfaction Survey

2.7.1 – Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design the questionnaire) (results and details be provided as weblink)

https://www.lbrce.ac.in/Analysis%20of%20SSS%20-2019%20-20.pdf

CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

3.1 – Promotion of Research and Facilities

3.1.1 – The institution provides seed money to its teachers for research

Yes
Name of the teacher getting seed money

Dr. K. Appa Rao

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3.1.2 – Teachers awarded National/International fellowship for advanced studies/ research during the year

Type	Name of the teacher awarded the fellowship	Name of the award	Date of award	Awarding agency
Nill	00	00	Nill	00

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3.2 – Resource Mobilization for Research

3.2.1 – Research funds sanctioned and received from various agencies, industry and other organisations

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
Major Projects	1095	SERB-EMEQ	22.81	8.3

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3.2.2 – Number of ongoing research projects per teacher funded by government and non-government agencies during the years

5

3.3 – Innovation Ecosystem

3.3.1 – Workshops/Seminars Conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the year

Title of workshop/seminar	Name of the Dept.	Date
Modelling and optimization techniques for materials and manufacturing processes	Mechanical Engineering	18/05/2020

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3.3.2 – Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
Smart Notice Board	BAYAGANI DIVYA JYOTHI (18761A1205) SEEMAKURTHI VASAVI NIHITHA(18761A1251) REGALLA LOHITHA (18761A1247) PULICHARLA LAKSHMI PRASAD(18761A1246)	Atal Incubation Centre	29/05/2020	Innovation

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3.3.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsored By	Name of the Start-up	Nature of Start-up	Date of Commencement
LBRCE-IC Foundation	B.Tharun Reddy	LBRCE	Mushroom Cultivation	Production of Mushroom and selling	05/06/2020

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3.4 – Research Publications and Awards

3.4.1 – Ph. Ds awarded during the year

Name of the Department	Number of PhD's Awarded
ELECTRONICS AND COMMUNICATION ENGINEERING	4
INFORMATION TECHNOLOGY	2
COMPUTER SCIENCE AND ENGINEERING	1
MASTER OF BUSSINESS ADMINISTRATION	1

3.4.2 – Research Publications in the Journals notified on UGC website during the year

Type	Department	Number of Publication	Average Impact Factor (if any)
National	ME	15	.1

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3.4.3 – Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	Number of Publication
MASTER OF BUSSINESS ADMINISTRATION	1
FED	6
AEROSPACE ENGINEERING	6
INFORMATION TECHNOLOGY	5
COMPUTER SCIENCE AND ENGINEERING	8
MECHANICAL ENGINEERING	18

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3.4.4 – Patents published/awarded during the year

Patent Details	Patent status	Patent Number	Date of Award
ATM Card and Fingerprint based Authentication System for Online Banking using Smartphone	Published	202041015194	05/06/2020

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3.4.5 – Bibliometrics of the publications during the last academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as	Number of citations

Title of the Paper	Name of Author	Title of journal	Year of publication	Number of citations	mentioned in the publication	excluding self citation
Emission reduction in a DI diesel engine using exhaust gas recirculation (EGR) of palm biodiesel blended with TiO2 nano additives	V.Dhana Raju	Renewable energy	2019	50	Lakireddy Bali Reddy College of Engineering	16

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3.4.6 – h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
Enhancement of COP of vapour compression refrigeration system by using Diffusers	K.Dilip Kumar	International Journal of Recent Technology And Engineering	2020	17	Nill	Lakireddy Bali Reddy College of Engineering

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3.4.7 – Faculty participation in Seminars/Conferences and Symposia during the year

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	19	92	11	27
Presented papers	42	10	Nill	Nill
Resource persons	Nill	Nill	4	12

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3.5 – Consultancy

3.5.1 – Revenue generated from Consultancy during the year

Name of the Consultan(s) department	Name of consultancy project	Consulting/Sponsoring Agency	Revenue generated (amount in rupees)
MECHANICAL ENGINEERING	Mechanics of Machinery Lab	Research work	3200

MECHANICAL ENGINEERING	Thermal Engineering Lab	Research work	5000
MECHANICAL ENGINEERING	Research and Development Lab	Research work	21000
COMPUTER SCIENCE AND ENGINEERING	DevSpark IT Solutions	DevSpark IT Solutions	200000
CIVIL ENGINEERING	Aggregate Testing	DEE, CCSD, VIJAYAWADA	2700
CIVIL ENGINEERING	Materials Testing	VVSPL-VIJAYAWADA	3300
CIVIL ENGINEERING	Sinking of Tank	HPCL-VIJAYAWADA	11800
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3.5.2 – Revenue generated from Corporate Training by the institution during the year

Name of the Consultan(s) department	Title of the programme	Agency seeking / training	Revenue generated (amount in rupees)	Number of trainees
0	0	0	0	0
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3.6 – Extension Activities

3.6.1 – Number of extension and outreach programmes conducted in collaboration with industry, community and Non- Government Organisations through NSS/NCC/Red cross/Youth Red Cross (YRC) etc., during the year

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
Awareness Program and Medical Camp on "Common Orthopedic Issues"	MJ Naidu Charitable Trust	10	312
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3.6.2 – Awards and recognition received for extension activities from Government and other recognized bodies during the year

Name of the activity	Award/Recognition	Awarding Bodies	Number of students Benefited
NSS State Youth Festival	JNTU Kakinada NSS Cell Contingent Leader	GITAM University	1
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3.6.3 – Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activites	Number of students participated in such activites
Swachh Bharart	LBRCE NSS Unit	Swachh Pakwada Week Celebrations	40	1977
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3.7 – Collaborations

3.7.1 – Number of Collaborative activities for research, faculty exchange, student exchange during the year

Nature of activity	Participant	Source of financial support	Duration
Research	P.Rakesh Kumar	Self	1460

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3.7.2 – Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
Internships	Industry	SUSHEE Constructive contribution s	30/11/2020	29/12/2020	1

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3.7.3 – MoUs signed with institutions of national, international importance, other institutions, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
Edu Skills Foundation, Blue Prism Academy	18/06/2020	Training Programs on CCNA, AWS for Faculty and students. For students Free Certification Programs conducted on C, CPP, Python, IoT.	448

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CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

4.1 – Physical Facilities

4.1.1 – Budget allocation, excluding salary for infrastructure augmentation during the year

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
520	463.89

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Classrooms with Wi-Fi OR LAN	Existing
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Newly Added
Value of the equipment purchased during the year (rs. in lakhs)	Newly Added
Video Centre	Newly Added

Seminar halls with ICT facilities	Existing
Classrooms with LCD facilities	Existing
Seminar Halls	Existing
Laboratories	Existing
Class rooms	Existing
Campus Area	Existing

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4.2 – Library as a Learning Resource

4.2.1 – Library is automated {Integrated Library Management System (ILMS)}

Name of the ILMS software	Nature of automation (fully or patially)	Version	Year of automation
Ez – Library – Volksoft technologies	Fully	10.0.9.23	2008
ERP	Fully	2018	2018

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	45409	8545233	1145	319550	46554	8864783
Reference Books	14315	5026825	129	70950	14444	5097775
e-Books	3135000	284565	Nill	19470	3135000	304035
Journals	1108	1592463	155	211784	1263	1804247
e-Journals	6800	10041523	Nill	10041523	6800	20083046
Digital Database	1	31800	Nill	5900	1	37700
CD & Video	6108	Nill	154	Nill	6262	Nill
Library Automation	1	175000	1	600000	2	775000
Weeding (hard & soft)	191	40956	1	70	192	41026
Others(specify)	3309	Nill	4	Nill	3313	Nill

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4.2.3 – E-content developed by teachers such as: e-PG- Pathshala, CEC (under e-PG- Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
Dr.P.Lovaraju	Engineering Fluid	MOODLE	17/06/2020

	mechanics, Aerodynamics II, Flight Dynamics, Aerodynamics-I	(lms.lbrce.ac.in)	

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4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MBPS/ GBPS)	Others
Existing	1357	19	530	1	1	1	10	530	0
Added	160	0	100	0	0	0	0	100	0
Total	1517	19	630	1	1	1	10	630	0

4.3.2 – Bandwidth available of internet connection in the Institution (Leased line)

630 MBPS/ GBPS

4.3.3 – Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
Camera, Tripod, Internet	https://lbrce.ac.in/campuspage.php?type=ict

4.4 – Maintenance of Campus Infrastructure

4.4.1 – Expenditure incurred on maintenance of physical facilities and academic support facilities, excluding salary component, during the year

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurredon maintenance of physical facilites
413	364.22	200	174.55

4.4.2 – Procedures and policies for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc. (maximum 500 words) (information to be available in institutional Website)

Laboratories are well equipped and maintained regularly without disturbance to the academic schedules. The in-house maintenance and repairs are addressed by the Systems Maintenance Department consists of trained hardware people. Library updates its books repository on a yearly basis as per the changes in the curricula. Inputs from the student and faculty are collected in the prescribed format for books to be procured outside the syllabus. Library committee discusses and approves the procurement of these. The library committee meets once in three months to upgrade and procure any additional and general books both technical and non-technical. The gym and other equipment servicing are taken up as and when required under the supervision of the physical director. The playgrounds are made ready and kept up to the mark before the commencement of sports activity. The academic requirement of computers is taken care and additional Nos. are also procured to enable the usage for the research and the project work. Stipulated procedures are documented and executed for the maintenance of the systems. All the classrooms in the institute are ICT enabled. The devices are maintained on a regular

basis. Exclusive personnel is recruited to constantly moni to r and keep up the usage of the systems. Additional ICT equipment is procured and kept ready for the replacement while the damaged one is sent for repair. This will enable smooth classroom delivery without causing disturbance to the lecture.

https://lbrce.ac.in/campuspage.php?type=infrastructure

CRITERION V – STUDENT SUPPORT AND PROGRESSION

5.1 – Student Support

5.1.1 – Scholarships and Financial Support

	Name/Title of the scheme	Number of students	Amount in Rupees
Financial Support from institution	Scholarship- Academic Toppers, 100 Attendance and Economically Poor	225	1820200
Financial Support from Other Sources			
a) National	Scholarship	2577	2108000
b)International	0000	Nill	0
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5.1.2 – Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implemetation	Number of students enrolled	Agencies involved
Soft skill development (Carrer Counselling)	29/06/2019	200	Anjali, Shasi, Rohit, Kavya, Vaishali, Sandeep(Assosiate trainers) E Box
View File			

5.1.3 – Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passedin the comp. exam	Number of studentsp placed
2020	Guidance for competitive examinations	143	Nill	70	Nill
2020	Career Counselling	Nill	3739	Nill	523
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5.1.4 – Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year

Total grievances received	Number of grievances redressed	Avg. number of days for grievance redressal

6	6	7

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Nameof organizations visited	Number of students participated	Number of stduents placed	Nameof organizations visited	Number of students participated	Number of stduents placed
Toppr	185	8	DMART	121	8

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5.2.2 – Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Depratment graduated from	Name of institution joined	Name of programme admitted to
2019	1	B.Tech	Aerospace Engineering	EMBRY-RIDDLE AERONAUTICAL UNIERSITY, FLORIDA, USA	M.S

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5.2.3 – Students qualifying in state/ national/ international level examinations during the year (eg:NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

Items	Number of students selected/ qualifying
GATE	22
GRE	10
TOFEL	22
Any Other	18

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5.2.4 – Sports and cultural activities / competitions organised at the institution level during the year

Activity	Level	Number of Participants
JNTUK Football (M) Inter Collegiate Tournament 2019-20	State	256

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5.3 – Student Participation and Activities

5.3.1 – Number of awards/medals for outstanding performance in sports/cultural activities at national/international level (award for a team event should be counted as one)

Year	Name of the award/medal	National/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2019	First Place	National	1	Nill	19761A0467	B.SAI KUMAR REDDY
2019	First Prize	National	Nill	1	16761A0510	Ch.Sambavi

5.3.2 – Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

Student council Formulation: In Academic year 2019-20 a student council is formulated as follows. Every section of a program (UG PG) will have a nomination of 02 class representatives (Preferably 01 Boy and 01 Girl students) and all these class representatives will become members of the college Student Council. Head of the Institution nominates one of these members as chairman and another member as secretary. Three meetings of the student council are conducted in every academic year to discuss the problems of students pertaining to the teaching - learning process and Physical facilities. The minutes of these meetings are conveyed to Dean (Academics) and Head of the Institution to facilitate the further actions. Student participation in following committees is ensured.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

The Alumni Association of Lakireddy Bali Reddy College of Engineering (AALBRCE) is a registered society with registration number 154 on 28th April, 06. The main objective is to enrol all alumni as members of the association and facilitate active participation of the alumnae in appropriate activities, events initiated by the Institute. Another objective of this association is to create a single semantic web of LBRCE fraternity in the long run. The LBRCE is proud of its brilliant alumni who are currently positioned all over the globe and have distinguished themselves in all spheres of high-end engineering and technology. The objectives of LBRCE Alumni Association are met by coordinating and networking of all the LBRCE alumni. This process ultimately leads to single global LBRCE community contributing to the institute as well as student community. Alumni can play an active role in voluntary programs like mentoring students in their areas of expertise. Currently, our alumni are visiting the institute and giving motivational talks to the students, there by assisting them in securing suitable jobs. The alumni network of our college is one of the biggest sources of placement opportunities to the students. Alumni are helping our students get placed at their respective organizations. Details of job opportunities are provided by the alumni in their companies and also are helping the institute during recruitment drives. The career guidance programs are organized by AALBRCE by inviting alumni that have gone for higher studies. Our alumni association is currently planning to arrange seminars, debates and workshops on present trends in technology. Alumni meet will take place in campus every year on second Saturday in the month of February to facilitate a forum for the Alumni to interact with the Institute and to bring together all the old students and the faculty of LBRCE to share their experiences with each other. To get online survey on curriculum and teaching-learning process at LBRCE this alumni association plays an active role and facilitates the institute to conduct this survey smoothly. The feedback collected will help medications in the curriculum as per the current industry needs.

5.4.2 – No. of registered Alumni:

1152

5.4.3 – Alumni contribution during the year (in Rupees) :

395000

5.4.4 – Meetings/activities organized by Alumni Association :

02 Alumni Meetings 66 activities are organized during the academic year.

CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 – Institutional Vision and Leadership

6.1.1 – Mention two practices of decentralization and participative management during the last year (maximum 500 words)

Institute has a Decentralization mechanism for delegating authority and providing operational autonomy to all the various functionaries to work towards decentralized governance. Principal Level: The Governing Body delegates all the academic and operational decisions based on policy to the Academic Monitoring Committee headed by the Principal in order to fulfil the vision and mission of the institute. Deans level: Dean-Academics monitor all the academic activities through Academic Audit Committee which formulates common working procedures and entrusts the implementation with the departments and faculty members. Dean – RD monitors all RD activities through department RD coordinators. Dean – CSE is nominated as Director-IQAC and monitors all IQAC functions. Faculty Level: Faculty members are given representation in various committees/cells and allowed to conduct various programs to showcase their abilities. They are encouraged to develop leadership skills by being in-charge of various academic, co-curricular, and extracurricular activities. They are given authority to conduct industrial tours and to have tie up with industry experts and appointed as coordinator and convener for organizing seminars/workshops/conferences/FDPs. For effective implementation and improvement of the institute following committees are formed. Other units of the institute like sports, library, store etc. have operational autonomy under the guidance of the various committees/cells. ? IQAC ? Finance Committee ? Disciplinary and Anti-Ragging Committee ? Grievance and Redressal Committee ? Internal Complaint Committee ? Examination Committee ? Academic and Administrative Audit (AAA) Committee ? Purchasing Committee ? RD Committee ? Innovation, Incubation and Entrepreneurship Committee ? Skill Development Committee ? Training and Placement Committee ? Library Committee ? Sports and Yoga Committee ? NSS and NCC Committee Student Level: Students members are added in many of the committees mentioned above and these members take active roles in the respective committees. Participative management: The institute promotes a culture of participative management by involving the staff and students in various activities. All decisions of the institution are governed by proper objectives based on realistic information and facts. Both students and faculty are allowed to express themselves regarding any suggestions to improve the performance of the institute. Strategic Level: The principal, academic co-coordinator and staff members are involved in defining the policies and procedures, framing guidelines and rules regulations pertaining to admission, placement, discipline, grievance, counselling, training development, library services and effectively implementing the same to ensure smooth and systematic functioning of the institute. For the various programs to be conducted by the institute all the staff members will meet, discuss, share their opinion and plan for the event and form various committees involving students and coordinate with others. Staff members are regularly involved in deciding all academic activities conducted by the college. Functional Level: At functional level the faculty members participate in sharing the knowledge by discussing on the latest trends in technology during faculty meetings. Staff members are actively involved in implementing effective teaching-learning process and participate in assigned administrative responsibilities including budget proposals and utilization. Operational level: The principal of the institution is the member secretary of the Governing Body (GB).

6.1.2 – Does the institution have a Management Information System (MIS)?

Yes

6.2 – Strategy Development and Deployment

6.2.1 – Quality improvement strategies adopted by the institution for each of the following (with in 100 words each):

Strategy Type	Details
Examination and Evaluation	? Examination and Evaluation ? Inclusion of OMR booklet with barcode ? Four Sets of question papers are prepared for each subject in SEE by Internal External faculty ? Preparation of detailed scheme of evaluation by internal subject experts ? Initiation of Flying Squad team consisting of senior faculty members ? Establishment of Spot evaluation centre ? Chief examiner in the evaluation ? Challenge evaluation ? Inclusion of security features in grade cards ? Complete Automation of Examination Management System ? Inclusion of CCTV cameras ? Implementation of RFID locking system
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.
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 are ANSYS Collaboration MATLAB DASSAULT Systems with Skill Development Centre, Andhra Pradesh. Central Institute of Plastic Engineering and Technology. BSNL EFFTRONICS Dr.Narla Tatarao Thermal Power Station (Dr.NTTPS), Vijayawada, Andhra Pradesh. MoU with ECM, Germany, ARC Environment (Solar Panels)
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 From feedback analysis : 60 Results analysis : 25 Administrative, Research publications academic achievements other contributions : 15
Library, ICT and Physical Infrastructure / Instrumentation	Computerization of 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. ? Library Information centre automated its housekeeping operations by using New GenLib: integrated Library automation software. ? Library created its resources Database and provided Online Public Access Catalogue (OPAC) through which users can be accessed from any of the computer connected in the campus LAN to know available resources and the status of the book. ? Institute Library Information is subscribing online e-books and e-journals databases as per the requirement of the institute and also AICTE. Provided IP based access and these journals can be accessed from any computer connected in the campus LAN. ? It has an exclusive Server with Content Management Software for e-learning. This facility enables the staff and students to access e-learning resources such as NPTEL Lectures, MIT Lectures etc. ? For the effective utilisation of resources, it will conduct / arranged incentives to the students based on some assessment level. Library Information centre is part of Resources sharing Networks such as NLISTINFLIBNET and AICTE-INDEST. ? Library has an exclusive Library Website 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. ? The college has provided more than 10 computers distributed to all the departments of the college for the day-to-day usage by the students and faculty. Every department has its own computing facilities to meet the curriculum needs. Laptops are also made available with the departments for faculty usage. Desktop Computers are also provided in staff rooms and departmental library. ? Every department is provided with LCD projectors, Laptops and Overhead projectors for computer aided teaching. Internet is provided for all the departments and computer centres with 630 Mbps bandwidth. ? Computers are loaded with the required software as per the curriculum requirements. Software necessary for the preparation of computer aided teaching material by the faculty is also made available. Laboratories ? All department of the college are fully equipped with latest state-of-the-art technology equipment as mentioned in the curriculum. Every department has got their own computing facility with latest software to meet their own requirements of major project/mini projects and research activity. ? In addition to the regular curriculum, students are encouraged to pursue their study/project work in the emerging areas of Research. The college has established advanced Research laboratory facilities in specific areas to inculcate research habits among the student fraternity.
Research and Development	? Budget allocation for Research Development ? Autonomy to the principal investigator ? Centre for Innovation Incubation and Entrepreneur (CIIE) has

	been initiated ? Timely availability or release of resources ? Adequate infrastructure and human resources ? Time-off, reduced teaching load, special leave etc. to teachers ? Support in terms of technology and information needs ? Facilitate timely auditing and submission of utilization certificate to the funding authorities ? The college invites scientists, eminent professors and reputed researchers to share their experiences with faculty which enhance the research culture in the campus.
Curriculum Development	Drafted Curricula are prepared by all Departments taking guidelines from AICTE Model Curriculum and Curricula adopted at two other Premier Institutions. ? Focussing on OBE implementation-Choice Based Credit System (CBCS) ? Specifying Course Outcomes (COs) as per Bloom's Taxonomy ? Deciding the level of Correlation of COs with POs and PSOs ? Considering Industry needs and Technological Challenges. ? Constituting Board of Studies (BoS) with members from NITs, IITs, Alumni and Industry. ? Appointing industry personnel and alumni as members of Board of Studies. ? 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. ? Salient Features of Current Regulations ? Add-on Courses ? Open Electives (MOOCs) Program Electives ? Self-Study Courses and Online Courses ? Carryout Main Project in Industry ? Internship ? Environmental Science ? Co-curricular/Extra-curricular activities (Mandatory) ? Mandatory courses (Professional Ethics and Human Values, Employability Enhancement Skills, Problem-Assisted Learning (PAL) Problem-Based Learning (PBL))
Teaching and Learning	? IQAC Contribute/Monitor/Evaluate the Teaching-Learning processes: ? Collecting Feedback from the stakeholders (students, alumni, industry experts, research organizations and parents). ? Monitoring of course files, lecture

Schedules, course plans 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. ? Encouraging faculty for online certification Courses (NPTEL, MOOCS, Etc.) ? A Total of (143(odd semester)113(even semester) around 200 Faculty members completed NPTEL online certification courses both in odd and even semesters and 757 Students (146 in odd semester 611 in even semester) have got NPTEL course completion certificates for various courses. LBRCE Local Chapter was rated as "A" certificate by NPTEL for the academic year (2019-20) examinations. ? A total of 192 faculty members and 1727 students have successfully completed coursera certifications in emerging areas. ? 09 workshops are organized through APSSDC on emerging areas and a total of 625 students are getting benefited. ? 25 FDPs, 20 Guest lectures,38 workshops, 17 Industrial visits, 12 certification programs and 18 webinars are organized by the department. ? 54 Faculty members are attended for conferences, 208 faculty members are attended FDPs, 154 faculty members are attended workshops during the academic year.

6.2.2 – Implementation of e-governance in areas of operations:

E-governace area	Details
Administration	Circulars /Notifications information will be sent to Departments and urgent/emergency information will be sent to staff through SMS / email.
Finance and Accounts	? Accounts are computerised and fee collection is made through e-payments / NEFT / RTGS. ? Students are reminded regarding their tuition fee dues through SMS/email and through the counselling faculty members
Student Admission and Support	A Candidate seeking admission to the four-year degree course in Engineering BE/B. Tech under Conveners quota (70) of intake in each branch. EAMCET and IPE or equivalent under B-Category (Management Quota) (15 Merit and 15 NRI/NRI Sponsor). A candidate seeking admission to the three year fulltime MCA/MBA programme under Conveners quota

		(70) of intake in each branch. The Management admits the remaining 30 under Management quota.
Examination		? Examination and Evaluation ? Inclusion of OMR booklet with barcode ? Four Sets of question papers are prepared for each subject in SEE by Internal External faculty ? Preparation of detailed scheme of evaluation by internal subject experts ? Initiation of Flying Squad team consisting of senior faculty members ? Establishment of Spot evaluation centre ? Chief examiner in the evaluation ? Challenge evaluation ? Inclusion of security features in grade cards ? Complete Automation of Examination Management System ? Inclusion of CCTV cameras ? Implementation of RFID locking system https://lbrce.ac.in/exams.html#

6.3 – Faculty Empowerment Strategies

6.3.1 – Teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
2019	Dr. L. Prabhu	34th Indian Engineering Congress 27-29th Dec 2019 Patent Filling	NA	13030
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6.3.2 – Number of professional development / administrative training programmes organized by the Colleges for teaching and non teaching staff during the year

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
2019	Three Day Faculty Development Programme on Recent Advancements in Communication Technology "	Nill	04/11/2019	06/11/2019	51	Nill

2019	Nill	Hands on Training on Electronic Design Automation Tools	21/11/2019	23/11/2019		Nill	21

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6.3.3 – No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
One Week FDP on Moodle Learning Management System.	1	01/05/2020	06/05/2020	6

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6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
232	Nill	189	Nill

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
• Group Health Insurance Coverage of Rs.1 Lakh • EPF facility • Providing Personal loans with corporate guarantee • Salary advance to the needy staff • Free/Concessional Transportation • Free medical facility for common ailments • Medical Leave • Special Leave • Personal Accident Policy coverage of Rs.1 Lakh	Plots for Construction of Houses • Gratuity • 50 percent Tuition Fee Concession for Supporting Staff Children • EPF facility • Health Insurance Coverage of Rs.1.00 Lakh • Accident insurance policy for drivers coverage of Rs.2 lakh • Free Medical Facility for Common Ailments • Medical Leave • Special Leave • Salary Advance to the Needy Staff • Providing Personal loans with corporate guarantee • Free uniforms for class IV employees	Group Accidental Insurance Policy worth Rs. 1 Lakh • Merit scholarships • Fee concession for economically poor students • Financial assistance for regular students (100 percent attendance) • Financial assistance to participate in sports Games at all levels • Financial Assistance to carryout project work • Financial Assistance to implement innovative ideas to develop a prototype model • Best Outgoing student Award • Best Library User award

6.4 – Financial Management and Resource Mobilization

6.4.1 – Institution conducts internal and external financial audits regularly (with in 100 words each)

In every financial year the college will conduct internal audit through

departmental staff as well as external audit by the statutory Auditors. The internal financial accounting would be completed before 10th of every month considering all the previous month transactions. After completion of the monthly accounts the same accounts would be audited by the internal auditors appointed by the management. While verifying entries, if any mistakes/ short comings are identified/noticed the same could be rectified in the same month by the concerned departments. After rectifications if any, the report would be submitted by internal auditors to the Governing Body for approval. The external statutory auditors shall visit the college office twice in a year for vouching audit and submitting the final audit report. After completion, the final statutory audit report shall be submitted to the Governing body for approval in the month of June every year. After approval, the financial accounts, documents could be used for all statutory purposes.

6.4.2 – Funds / Grants received from management, non-government bodies, individuals, philanthropies during the year(not covered in Criterion III)

Name of the non government funding agencies /individuals	Funds/ Grnats received in Rs.	Purpose
Dr.Ramamoorty, Former DG, CPRIB	5000	Gold medal for EEE Academic Toppers
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6.4.3 – Total corpus fund generated

00

6.5 – Internal Quality Assurance System

6.5.1 – Whether Academic and Administrative Audit (AAA) has been done?

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	NIT, Warangal, JITS Karimnagar	Yes	IQAC
Administrative	Yes	NIT, Warangal, JITS Karimnagar	Yes	IQAC

6.5.2 – Activities and support from the Parent – Teacher Association (at least three)

There is frequent interaction between counsellors (Proctors) and parents which helps to provide timely support and encouragement to students in times of need. The faculty coordinators and other faculty members are often in touch with the parents. Additionally, when there is a disciplinary problem or if there is poor performance in the examinations, the parents are contacted over the phone and counselling is held with parents. A feedback from parents is collected in the prescribed format, analysed and used for further development. Interactions between the parents and the teachers regarding the support progression of their respective wards in academic personal aspects. Parents who are working in core sector support the co-curricular activities through guest lectures and advise the department on matters pertaining to curriculum and career opportunities.

6.5.3 – Development programmes for support staff (at least three)

5 Week Career Advanced In-house Training Programme from 11/6/2020 to 20/06/2020 Short-Term Training Program on MS Office: With Hands-On Session for Supporting Staff from 09/06/2020 to 16/06/2020 Hands on Training on Electronic Design Automation Tools from 21/11/2019 to 23/11/2019 Six Days Hands on Training in

Programming with Python / C from 11/11/2019 to 16/11/2019 Staff Development Program (Lectures/Workshops/Training Program) is conducted regularly by the CLD (Centre for Learning and Development) or by individual departments to address their technical needs. The training includes Computer training, Internet, Audio-visual aids Computer aided packages, New laboratory practices, Yoga and meditation.	

6.5.4 – Post Accreditation initiative(s) (mention at least three)

Total of five departments (ME, EEE, CSE, IT and ECE) were accredited by NBA under Tier-1. The institution makes special efforts for recruitment and retention of quality faculty. There has been a gradual increase in the research activities, wherein more funds were received for sponsored projects. Major revision in syllabi to be carried out every two years minor changes to be carried regularly based on the market requirements. (a)Curricular Aspects ? Outcome based approach has been strengthened at LBRCE and choice based credit system is on par with latest challenges in curricular aspects. ? Specifications of COs, CO to PO, PSOs mapping (b)Teaching-Learning and Evaluation ? Number of internal working faculty members Ph.D holders and pursuing number has increased. ? Subject allotment is made based on the competency matrix and experience of the teacher. ? Teachers evaluation is done by the NPTEL courses participation and training. ? Appropriate actions are taken based on attainments of the COs, POs and PSOs. ? Faculty/Students are encouraged to utilize all the available e-resources and obtain online certifications. (c)Research and Development ? Four departments (ECE, EEE, CSE and IT) are recognized as research centres by JNTUK ? Faculty are motivated by providing the incentives (d)Infrastructure and Learning Resources ? The internet bandwidth has been increased from 28 MBPS to 330 MBPS with Wi-Fi. ? Swayam praba, NPTEL, e-journals, Spoken Tutorials are effectively being used ? Advanced software tools ANSYS 18.1, MATLAB, NI LabVIEW and PSCAD have been purchased. ? Advanced Robotics Control (ARC) laboratory is initiated in association with ECM, Germany

6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b)Participation in NIRF	Yes
c)ISO certification	Yes
d)NBA or any other quality audit	Yes

6.5.6 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2020	Five Day Online Program for Faculty on "Pedagogy Techniques for Effective Te aching-Learning" Resource Persons: Dr.K.Appa Rao, Principal	08/06/2020	08/06/2020	12/06/2020	55

	Dr.P.Lova Raju, Dean of Academics Dr.E.V.Krishna Rao, Dean-RD Prof.B.Ramesh Reddy, Coordinator-IQAC				
2020	Four Day Online workshop for Students and Faculty on "COVID-19 Resurgence of Entrepreneurship and Start-ups at Indian Glance"	25/05/2020	25/05/2020	28/05/2020	695
2019	Two Day Technical Fest for Students "World Space Week-2019" in association with ISRO, Sriharikota.	09/10/2019	09/10/2019	10/10/2019	2229
2019	Invited Talk on "How to write Good Research Proposal" Resource Person: Dr.Shakeel Ahmed Joint Secretary, University Grants Commission (UGC) – New Delhi.	09/09/2019	09/09/2019	09/09/2019	221
2019	Orientation program for students on "Entrepreneurship development and start-up" Resource	22/07/2019	22/07/2019	22/07/2019	453

Person: Sri.M. Sathish Kumar, CEO Atal Incubation Centre, SK University, Anantapur. AP				
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CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 – Institutional Values and Social Responsibilities

7.1.1 – Gender Equity (Number of gender equity promotion programmes organized by the institution during the year)

Title of the programme	Period from	Period To	Number of Participants	
			Female	Male
An Awareness Program on "Malala Day"	11/07/2019	11/07/2019	316	132
Induction program on "Awareness about Grievance Cell & Saheli Girls' club of the Institute"	14/08/2019	14/08/2019	452	204
Awareness program on "Great Women of India"	21/09/2019	21/09/2019	276	224
Health awareness program on "Breast Cancer".	14/10/2019	14/10/2019	389	326
Awareness program on "Women Empowerment"	01/11/2019	01/11/2019	479	352
An Interactive Session on "Life Skills".	02/12/2019	02/12/2020	276	421
Awareness rally with a slogan "Beti Bachavo – Beti Padhavo"	24/01/2020	24/12/2020	104	49
An Interactive	06/02/2020	06/02/2020	321	289

Session on "Career Prospects & Crime against Women".				
An Awareness Program on "International Women's Day celebrations -2020".	07/03/2020	07/03/2020	503	372

7.1.2 – Environmental Consciousness and Sustainability/Alternate Energy initiatives such as:

Percentage of power requirement of the University met by the renewable energy sources
30.75

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	17
Provision for lift	Yes	17
Ramp/Rails	Yes	17
Braille Software/facilities	No	Nill
Rest Rooms	Yes	17
Special skill development for differently abled students	No	Nill

7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
2019	31	Nill	29/07/2019	5	Locational Advantage-Industrial vist to Polavaram Right Main Canal Near Nunna	Nill	730
2019	Nill	288	01/07/2019	365	Engage with and contribute to	Water Issue, 1.Common Man Needs	45

| | | | | | local community- Rural Water Supply | 2.Awareness Program on Swachh Bharat 3. Awareness program to Formers 4.Tree Plantation 5.Awareness Program on Helmet Usage 6.Awareness Program on Digital Literacy | |

View File

7.1.5 – Human Values and Professional Ethics

Title	Date of publication	Follow up(max 100 words)
Code of conduct for faculty and staff	01/07/2019	Every employee shall be governed by these rules and is liable for all consequences in the event of any breach of rules by him / her. Every employee shall maintain integrity of character, be devoted to his / her duty and be honest and impartial in his / her official dealings. An employee shall be courteous and polite in his / her dealings with the Management, Principal, other members of staff, students and with members of the public. He / she shall exhibit utmost loyalty and shall always act in the best interests of the college. Code of ethics is being moni to red at various levels, viz. Head of the department, vice principal, and Principal.
Code of ethics for students	04/07/2019	The code of ethics for students is meant to promote professional behaviour and academic

integrity, leading to an effective learning environment that prepares graduates for meaningful professional pursuits. Students are expected to maintain the highest standards of discipline and dignified behaviour inside the campus as well as outside. They shall abide by the rules and regulations of the college and should act in such a way that maintains the dignity and prestige of the college. Code of ethics are being moni to red at various levels, viz. Class teacher, student men to r, disciplinary committee, Head of the department, and Head of theinstitution.

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Jal Shakti Abhayan	29/07/2019	29/07/2019	105

View File

7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

Azolla and Oyster Mushroom cultivation in LBRCE in association with Incubation and Innovation Centre conducted on 30-08-2019 Swach Andhra Mission – Plastic Waste Free Campaign on 11-09-2019 An Awareness program on World Ozone Week 18-09-2019 Milky Mushroom cultivation in LBRCE by Prakruthi club in association with Incubation and Innovation Centre on 15-10-2019 16-10-2019 A Herbal Stall with title "Medicinal Plants for Health and Wellness" as a part of Lakshya 2K19 40 - LBRCE Mylavaram on 21-12-2019 Medicinal herbs plantation in the college campus 10 LBRCE Mylavaram 6-1-2020 Webinar on Environmental Protection and Sustainability organised by Prakruthi Club in association with Civil Engineering Department on 5-6-2019 Webinar on Water Conservation organized by Prakruthi Club in association with Civil Engineering Department and NSS unit of the college on 05-06-2020 LBRCE NSS Volunteers lend their services in creating "Composite Pits" on 02-08-2018 a Seminar on Water Resources Management Concepts Problems Solutions on 7th Aug'18. Resource Person: Dr.P.Lakshmi Narayana , Assoc.Prof , Wolatia soda University, Ethiopia Waste water recycling at our campus during the year Composting Solid waste management Students are encouraged to use bicycle Planting 200 saplings in the campus every year Banning use of single use plastics

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

Best Practices During the A.Y:2019-20 Best Practice-I Title: Academic and Administrative procedures for quality teaching in OBE implementation Goal: Good

teaching practice has a key influence on student learning - a desired outcome and primary goal of higher educational institutions. Teachers strive to meet the principles of good practices in an effort to provide the best learning experience for their students.Accordingly, our institute has taken the task of Teaching - Learning right from the inception and specific practices are implemented. Objectives: LBRCE focused on the following Academic and Administrative procedures to ensure quality teaching. • Guide the faculty towards better planning, teaching, and research. • Enhance effective knowledge transfer in the classroom. • Enhance administrative efficiency and transparency. • Address the problems of students and make teaching more students centric. Context: LBRCE has focused on academic audit every month as a standard procedure in which verification is done on preparation of course handouts, teaching material, PPTs, classroom exercises, schedule and activities of labs, Computation of attainment levels of COs, POs and PSOs, evaluation of students in mid-semester and Semester-end examinations. Practice: • Every month academic audit is performed for each department with two auditors from other departments. Audit form is made available at institutional website. • After the audit, the corrective actions taken by the department are also recorded. • Curriculum revision based on all stakeholder's feedback and attainment levels of COs, POs PSOs • Revision of OBE computational procedures for better implementation. • Conduct of External Academic and Administrative audit by two eminent academicians. • Quality of Mid Semester and End Semester question papers is analysed. • This academic audit resulted in the following advantages. ? SMS facility has been introduced for intimating the shortage of attendance to the Parents. ? Uniform syllabus coverage in all courses ? The facility has also helped in giving a quick update to the students. ? Remedial and bridge classes are conducted for academically weak students. ? Guidance for competitive examinations is scheduled for advanced learners. ? Faculty development programs are conducted to incorporate latest technology and innovative methods in teaching techniques and learning processes. ? Faculty is also motivated to use ICT tools extensively. ? Implementation of LMS (lms.lbrce.ac.in) ? Centre for Innovation, Incubation and Entrepreneurship (CIIE) facilitates incubation of innovative ideas pertaining to socio-economic issues. ? In addition to these, industrial visits are planned regularly and Internship is introduced during pre-final year and final year semester break to improve the industry-institute interaction. ? To improve the problem solving and self learning skills of the students, Problem Assisted Learning (PAL) and Problem Based Learning (PBL), Mini Project and Technical Seminar are included in the curriculum. ? With all these practices the OBE implementation has been strengthened very effectively. ? Foreign language certification programs are conducted. Evidence of Success: • 83.65 of B.Tech students have successfully graduated and among them 43 of students have graduated without any backlogs • 56.6 of B.Tech students have graduated with First class with Distinction. • Overall student satisfaction has been improved. The Student Satisfaction Survey on the Teaching-Learning is at a level of 3.41 on 4-point scale. • 02 Start-ups are registered and 13 prototypes have been developed. Some of the achievements are listed below: • NIRF-2020 India Rankings - Rank Band: 201-250 • Dataquest T Schools Survey 2020 : ? 74 Rank (Among all Govt. and Private Colleges) ? 62 Rank (Among all Private Colleges) • Dataquest Digital Index 2020 : 35th Rank • AAA grade awarded by Careers 360 (2020) • 3 STAR Rating to CIIE by MHRD Institution's Innovation Cell • LBRCE NPTEL Local Chapter graded as "A" (June 19 – Dec. 19) Problems Encountered and Resources Required Acceptance for procedural changes is more than 95 by the faculty. However, adapting to the changes is observed to be slow. Changes have been welcomed by most of the faculty members. Best Practice-II Title of the Practice: Skill Set Improvement Goal: Every Institution's performance is majorly influenced by the skill set of its students as well as Faculty. Any practice of skill set improvement will be specifically the best practice that can be adopted. Accordingly, LBRCE has chosen a goal of skill set

improvement for its faculty as well as students. Objectives: The objective is to augment and improve skill set of faculty and students in view of improved performance in different dimensions. The Context: It is necessary that the student attains requisite knowledge in his/her branch of engineering as well as possess adequate soft skills and programming ability to become employable. To realize this level obviously the faculty is expected to possess a skill set that serves required purpose adequately. We focused on all these aspects to achieve this goal. The Practice: To impart the requisite technical knowledge, the following practices are adopted: • The important technical aspects are emphasized by every teacher in the class room with more focus on conceptual clarity in all theoretical as well as practical aspects. • Guest lectures and training programs are arranged for a good number of core subjects in every branch of engineering. • Certification programs and trainings are arranged on emerging technologies through established skill development centres such as CM's Skill Excellence Centre-APSSDC, DASSAULT SYSTEMS-3DExperience Centre (CATIA Software) and ANSYS skill development center, Applied Robot Control (ARC) Lab. • Personality development programs and soft skill development classes are organized from time to time to improve soft skills of the students. For providing adequate soft skills, the following methods are adopted: • The Centre for Career Guidance and Training (CCGT) has designed specific practices spread through the last four semesters as part of the curriculum. Chosen training programs by external experts are arranged. • For providing adequate programming ability a number of programming exercises are conducted by the internal faculty trained by E-BOX, WIPRO, CISCO, AWS and Blueprism in problem solving skills. ? Ebox-28 Faculty from CSE, IT and MCA ? WIPRO- 04 faculty from CSE IT ? CISCO - 04 Faculty from CSE, IT ECE ? AWS - 02 Faculty from CSE IT ? Blueprism - 01 Faculty from IT • Certification programs by external agencies are also arranged through Skill Development Centres established in the institute. • Special training on programming skills on Code-Vita by internally trained faculty. Evidence of Success: Number of students placed in the A.Y 2019-20 is 524 with highest package of 10 LPA whereas in the A.Y 2018-19 highest package was 7LPA. ? 20 students got placed in TCS Code Vita ? 66 students got placed in TCS NINJA ? 29 students got placed in WIPRO TALENT NEXT ? 18 students got placed in WIPRO NLH ? 08 students from ASE department got placed in Ziegler Aerospace Ltd. in 2020 ? 02 Faculty members are trained on "Applied Robotic Control (ARC)" by European Center for Mechatronics (ECM), Germany ? 09 students got placed in Royal Enfield, KIA Motors, TVS Motors through training imparted by ARC trained faculty Problems Encountered and Resources Required: The expected level of focus by the students on the arranged training programs is not attained due to non-availability of time. With proper planning and scheduling this difficulty can be overcome in due course of time.

Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link
https://lbrce.ac.in/iqac/iqac%20docs/Best%20Practice%20A.Y%202019-20.pdf

7.3 – Institutional Distinctiveness

7.3.1 – Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust in not more than 500 words

"Giving Back to society and Environment" The LBRCE is run by LBRCT which is well known for its philanthropic attitude in all its activities. The major thrust in all these activities is to improve the rural society in and around Mylavaram. Any such social upliftment requires a focus on different dimensions providing technical education of good standards to the young students at affordable level specifically happens to be one such important dimension. With this view LBRCE was established in the year 1998. Not only providing technical education but also many other dimensions are taken into consideration during

the progress of LBRCE. Through these following activities some dimensions are taken care. • Employability enhancement programs • Scholarships to eligible toppers and regular students • Financial support to incubate innovative ideas In accordance with institutes Vision and Mission spreading education to rural areas is given a high priority by LBRCT. We are very happy that every year a 33 of students admitted belong to Mylavaram and Rural surroundings. Many of these students through the above mentioned activities of LBRCE get benefited which in turn contributes towards rural development. Many of these students also are encouraged by LBRCE at the time of admission through fee concession if student is financially weak. The LBRCE has committed itself to the task of inculcating social values and responsibilities in its students. In line with its vision of working towards the socio-economic development of the country, LBRCE has taken utmost care to give back to the community. Several student committees are formed to carry out the duties towards society. The Two-week and one-week long and intense induction programs give the freshmen an insight into the institute's values and vision. Ensuring participation in all these programs gives ample opportunity for LBRCE students to contribute for the cause of "Giving back to the Community". Along with other sports cultural and technical activities, the NSS unit plans activities like tree plantation and field visits to expose the students to the pressing issues in our nearby society. As a special thrust, societal development is also instilled on a large scale into the students through the active NSS unit which undertakes various services to inculcate social values. Throughout the year, the NSS unit undertakes a plethora of events ranging from street plays, cleanliness drives, tree plantation drives, donation drives, waste management drives, Science fair, gender equity activities, field visits and many more. LBRCE is having a policy of adopting one nearby village every year to extend support to the nearby villages regularly to make them aware of certain basic skills and amenities. Further, we consider health care is of top priority in our society. All the student clubs also do their bit by organizing several charity events under their banners like Beat Plastic Pollution, Distribution of Paper Bags, Best out of waste, WoW for a social cause and charity concerts.

Provide the weblink of the institution
https://lbrce.ac.in

8.Future Plans of Actions for Next Academic Year

Academic Procedures • Increasing number of smart class rooms • Developing e-learning resources • Reforming Academic and Administrative Audit Administrative Procedures • Reforming financial planning • Reforming all administrative procedures through e-governance • Strengthening the documentation standards OBE Implementation Improvements • Curriculum designing activity to be finalized by 2020-23 • Analyzing the quality of Mid semester and End Semester question papers by IQAC for further corrective actions • Further strengthening of Teaching-Learning process RD • Undertaking funded RD Major Projects and consultancy works • Strengthening of infrastructure for research facilities in various specialized labs Administration and Information system Management • Improving seed money facility and incentives for better research • Increasing the number of journal and conference publications Skill Set Improvement-Faculty • Encouraging faculty to apply for financial assistance from the outsources for organizing Seminars/ Conferences/ Workshops and research projects. • Conducting International and National Conferences Skill Set Improvement-Students • Planning to introduce series of certificate programs, short term courses and some workshops and many such teaching-learning activities in tune with the institute Mission. • Enhancing Students' English Communication and Programming Skills • Planning to conduct programs on skill development to serve the needs of the industry and the Nation. Infrastructure and Extension Activities • Improving the class room ambience • Establishing the Media center for generating video learning resources In-house •