



LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING

(AUTONOMOUS)

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

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

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

Internal Quality Assurance Cell (IQAC)

EXTERNAL ACADEMIC AND ADMINISTRATIVE AUDIT REPORT

(ACADEMIC YEAR: 2018-19)

Date of Audit: 6-12-2019

Name and Designation of Audit Member-1: Dr. A. Venu Gopal, Professor, Mechanical Engineering, N.I.T. Warangal

Name and Designation of Audit Member-2: Dr.A.Subbarami Reddy, Professor, Department of ECE, Jyothishmathi Institute of Technology and Science, Karimnagar

(The activities are to be graded on the following scale)

Excellent	Good	Satisfactory	Needs improvement
A	B	C	D

Details of Programmes in the college:

S.No.	Name of the Programme	Sanctioned Strength	Actual Strength
UG			
1	B.Tech in Aerospace Engineering	60	53
2	B.Tech in Civil Engineering	60	43
3	B.Tech in Computer Science Engineering	120	120
4	B.Tech in Electronics and Communication Engineering	180	177
5	B.Tech in Electrical and Electronics Engineering	120	105
6	B.Tech in Electronics and Instrumentation Engineering	60	40
7	B.Tech in Information Technology	60	59
8	B.Tech in Mechanical Engineering	180	164
UG Total		840	761
PG			
1	M.Tech (Computer Science and Engineering)	18	4
2	M.Tech (Thermal Engineering)	18	10
3	M.Tech (Power Electronics and Drives)	18	4
4	M.Tech (VLSI & Embedded Systems)	30	6
5	MBA	120	120
6	MCA	60	11
PG Total		264	155
UG and PG Total		1104	916

1. Curricular Aspects

S.No.	Item	HEIs i/p	Grade	Remarks
1.1	Curricula developed /adopted have relevance to the local/ national /regional/global developmental needs with learning objectives including program outcomes, program specific outcomes and course outcomes of all programs offered by the Institution	R17 (CBCS)	A	Curricula is being revised at regular intervals by considering the inputs from AICTE/APSCH. Also reviewing syllabus of higher education institutions and stakeholders' feedback.
1.2	Percentage of programs in which Choice Based Credit System (CBCS) / Elective course system has been implemented	100%	A	CBCS has been introduced in all the programs.
1.3	Institution integrates cross cutting issues relevant to Gender, Environment and Sustainability, Human Values and Professional Ethics into the Curriculum	The institute is offering courses on Environmental studies (S243), Professional Ethics and Human values (S355)	A	The issues relevant to gender may be planned as a part of induction programme.
1.4	Number of Value-added courses imparting transferable and life skills offered	82 Value added courses are conducted on latest technologies and career guidance for the benefit of the students. > 6 Days: 26 courses 5 Days duration:6 courses 4 Days duration:3 courses < 3 days duration: 47 courses 22 Certification programs and 11 workshops are conducted on latest technologies	A	A substantial improvement (nearly 200%) is observed in conducting value added courses.

1.5	Feedback on curriculum and other aspects from stakeholders	The feedback on curriculum is collected regularly from the stakeholders and the same is uploaded in the institute website.	A	Well established feedback system is existing. Transparency in getting the feedback and uploading the same on website is maintained.
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2. Teaching-Learning and Evaluation

S.No.	Item	HEIs i/p	Grade	Remarks
2.1	Demand Ratio	Category-B: Number of seats available - 330 Number of applications received – 707 % UG admissions – 90.59 % PG admissions - 58.7	B	Demand for UG admissions is very good. However, a few PG Courses are having less than 50% demand.
2.2	Number of full-time teachers	262	A	with Ph.D. – 69 M.Tech. – 193
2.3	Number of students enrolled	3824 (UG-3425, PG- 399)	A	
2.4	Student - Full time teacher ratio	14.59:1	A	SFR is very good and maintaining consistently.
2.5	No. of permanent faculty with Ph.D	69 (26.3%)	A	
2.6	No. of permanent faculty pursuing Ph.D	75 (28.62%)	A	The faculty are encouraged to pursue Ph.D by providing Seed money, Special Leaves with pay.
2.7	Average teaching experience of fulltime teachers in years	10.63	A	Good.
2.8	Total No. of teaching days	185	A	As per UGC/AICTE norms.
2.9	Preparation and adherence to Academic Calendar and Teaching plans	Academic calendar is in place and academic activities are as per the academic calendar.	A	Teaching plans are made in the beginning of the semester and same is being adhered to.
2.10	Innovative processes adopted in Teaching and Learning	Yes (ICT tools, NPTEL online certification courses, Swayam Prabha, MOODLES, Google Class room etc.,)	A	Very good initiative in promoting self-learning.

2.11	Teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources, MOODLES etc.	Faculty are using ICT facilities effectively. 216 faculty members are using LMS	A	LMS is in existence and all the class rooms have been provided with ICT facilities and smart class room.
2.12	Remedial Classes for slow learners and backlog students	Remedial classes are conducted regularly for Students with less than 50% of Mid marks and with backlog subjects. Number of students enrolled: 1490 Number of students benefited:400 through remedial classes	A	Slow learners are being identified in the beginning of the semester and remedial classes are conducted for them.
2.13	GATE Classes for Advanced Learners	GATE classes are conducted regularly for students with more than 7.5 CGPA. GATE:25 GRE:11 CAT:01 IELTS:25 PGECET:08	A	
2.14	Mentoring System	Good mentoring system has been adopted.	A	Good mentoring system with a teacher for every 15-20 Students right from 1 st year itself and meeting them at regular intervals.
2.15	Adequate facilities for teaching – learning, viz., classrooms, laboratories, computing equipment, etc.	Available	A	All the class rooms and laboratories are well equipped more than University norms.
2.16	Advanced Research Centers	7 Advanced Research centers are made available	A	Good number of advanced research centres have been established out of the curriculum, promoting research culture.
2.17	Teachers attending professional development programs	232 (88%) faculty members attended professional development programs.	A	Faculty are being encouraged by the Management to attend FDPs by providing financial support and special leave.
2.18	Organisation of Guest Lectures, Industrial Visits, Workshops, etc.,	Guest Lectures–27, Industrial visits – 21, Workshops- 24	A	Calendar of events are scheduled in the beginning of academic

		FDPs-26 Certification Programs –30		year as approved in the corresponding DAC
2.19	Online Certification Programmes	Institute has been accorded with 'AA' grade by NPTEL Faculty–241 Students– 1191	A	Good culture among the faculty and students is prevailing on campus to register for online certification programmes.
2.20	Student Professional Society Chapter and Association Activities	CSI – 2 IEI – 4 IEEE – 12 ISTE-02 IETE – 2 ISOI – 1 ISHRAE – 2	A	The same may be promoted in all the other departments.
2.21	No. of Students undertaking field projects / internships	Total no.of students: 1916 Summer Internships- 905 students Industrial Training – 840 students Filed Projects – 171 students	A	Providing Internship as part of curriculum is very good.
2.22	Dissemination of PEOs, POs, PSOs, COs	PEOs, POs, PSOs and COs are disseminated in the Academic regulations - Syllabus books, and in the institute website. Also displayed at the strategic locations in the respective departments. COs and course articulation matrix are included in course handout.	A	PEOs, POs and COs are displayed in all prominent places.
2.23	Attainment of COs, POs, PSOs	Measurement of attainment of COs, POs, PSOs is completed.	A	Targets have been fixed rationally and a systematic procedure has been followed in measuring attainments.
2.24	Online student satisfaction survey	Conducting as per the guidelines of NAAC The Student Satisfaction Survey on the Teaching-Learning is at a level of 3.44 on 4-point scale	A	Very good

3. Research and Innovation																	
S.No.	Item	HEIs i/p	Grade	Remarks													
3.1	The institution has a well-defined policy for promotion of research	Yes (Incentives for publications, patent filing, matching grant) No. of Faculty received incentives: 58 (Rs. 3.16 Lakhs)	A														
3.2	The institution provides seed grant to its teachers	Yes (Seed money is provided based on recommendations of R& D committee) No. of Faculty provided with seed grant: 04 (Rs.6.67Lakhs)	A														
3.3	Research funds sanctioned and received from various agencies, industry and other organizations	Major projects – 02 (84.21 Lakhs) Minor projects – 04 (23.45 Lakhs) Ongoing projects – 06 (AE-01, EIE-01, MECH-3, MBA-01, ECE-01)	C	Very few projects. Faculty from all the departments have to be motivated to apply for more sponsored research projects.													
3.4	Projects sponsored by the University/ College	Centre for Innovation Incubation and Entrepreneurship - 1,15,000/-	B	Promoting students towards innovation by providing financial support is good.													
3.5	Workshops/seminars conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices	25	A	Substantial increase in number of workshops on IPR compared to last year.													
3.6	Research Publications	<table border="1"> <tr> <td>SCI</td> <td>15</td> </tr> <tr> <td rowspan="2">Scopus</td> <td>Journals</td> <td>57</td> </tr> <tr> <td>Proceedings</td> <td>21</td> </tr> <tr> <td>UGC</td> <td>--</td> </tr> <tr> <td>Open Access & Other Proceedings</td> <td>184</td> </tr> <tr> <td>Total Publications</td> <td>277</td> </tr> </table>	SCI	15	Scopus	Journals	57	Proceedings	21	UGC	--	Open Access & Other Proceedings	184	Total Publications	277	B	Improvement in quality publications is noticed. However, this shall be further improved.
SCI	15																
Scopus	Journals	57															
	Proceedings	21															
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Open Access & Other Proceedings	184																
Total Publications	277																
3.7	Books and chapters in edited volumes / books published, and papers in national/international conference-proceedings.	Books published– 07 (EEE-01, ME-01, ECE-02, CSE-01, FED-01, MBA-01) Conference Proceedings – 70	B	Faculty shall be motivated by providing some incentives for book publications / edited volumes / etc.													
3.8	Revenue generated from Consultancy	Civil: Rs. 67,000/- CSE: Rs.15,71,879/- Total: Rs. 16,38,879/-	B	Increased activities in consultancy is observed when compared to last year. Faculty may be motivated by giving substantial share to them from the consultancy													

				generated.
3.9	Linkages with institutions/industries for internship, on-the-job training, project work, sharing of research facilities etc.	271	A	Very good improvement in Industry-Institution interaction is noticed when compared to last year.
3.10	Functional MoUs	17	C	It is only limited to job-training for the students.

4. Central library Facility

S.No.	Item	HEIs i/p	Grade	Remarks
4.1	Library is automated using Integrated Library Management System (ILMS)	Yes	A	
4.3	Does the institution have the following: e – journals, e-ShodhSindhu, Shodhganga membership, e-books, Databases	Yes (e – journals, e-ShodhSindhu, e-books)	A	
4.4	Expenditure for purchase of books and journals	29.84 Lakhs	A	Consistent
4.5	Availability of digital library with a provision for remote access on intranet	Yes (Number of systems available:30 No. of students using per day: 125)	A	
4.6	Per day usage of library by teachers and students	450	A	15% of the faculty and students are visiting library every day.

5.Examination Section				
S.No.	Item	HEIs i/p	Grade	Remarks
5.1	Quality of Mid Semester and End Semester examination question papers	Standard Procedures are established to test the quality of question papers	A	Question papers are set according to the COs and Blooms taxonomy.
5.2	Number of days from the date of last semester-end/ year- end examination till the declaration of results	< 15 days	A	Very good.
5.3	Percentage of student complaints/grievances about evaluation against total number appeared in the examinations	0%	A	A fool proof and transparent system is being followed.
5.4	Malpractice cases of students	Systematic procedures are established	A	
5.5	Student Detentions	Based on Credits III Sem- 14 (R17) V Sem – 04 (R17) VII Sem- 04 (R14) Based on Attendance I Sem- 04 III Sem - 08 V Sem - 10 VII Sem - 03 II Sem - 13 IV Sem – 13 VI Sem – 03 VIII Sem - 05	A	
5.6	Percentage of applications for revaluation leading to change in marks	< 20%	B	Marginal improvement when compared to last year. However, this needs to be worked out meticulously to bring it down further.
5.7	Status of automation of Examination division along with approved Examination Manual	Yes 100% automation	A	
5.8	Pass percentage of outgoing students	97.18%	A	Very good.

6. Amenities and Sports facilities

S.No.	Item	HEIs i/p	Grade	Remarks
6.1	The institution has adequate facilities for sports, games (indoor, outdoor, gymnasium, yoga centre etc.) and cultural activities	Indoor stadium, outdoor sports facilities, gymnasium, yoga centre and enough space for cultural activities is available.	A	
6.2	Awards/medals for outstanding performance in sports, Yoga /cultural activities at national/international level	Total: 537 National: 25 Sports & Games:16 Yoga-04 Cultural: 05 Institute Level: 512 Sports & Games:458 Yoga-06 Cultural: 38	A	Encouragement and support systems are in place.
6.3	Number of sports, Yoga and cultural activities / competitions organised at the institution level.	Sports & Games – 49 Yoga – 01 Cultural –16	A	

7. Internet Connectivity

S.No.	Item	HEIs i/p	Grade	Remarks
7.1	Institution frequently updates its IT facilities including Wi-Fi	Wi-Fi enabled campus	A	
7.2	Student - Computer ratio	Total number of computers for academic purpose: 1357 Student - Computer ratio: 2.8:1	A	Improved student-computer ratio.
7.3	Available bandwidth of internet connection in the Institution	530 Mbps (355 MBPS from MYGURU Online Pvt Ltd, 155 MBPS NETTLINX Pvt Ltd and 20 MBPS from BSNL)	A	Bandwidth is almost doubled compared to last year.
7.4	Facilities for e-content development such as Media centre, recording facility, Lecture Capturing System (LCS)	Recording Facility is available.	A	

8. Placements and Higher Education

S.No.	Item	HEIs i/p	Grade	Remarks
8.1	Capability enhancement and development schemes	1. Guidance for competitive examinations 2. Career Counselling 3. Yoga and Meditation 4. Remedial coaching 5. Soft skill development 6. Language lab 7. Bridge course 8. Personal Counselling	A	
8.2	No of students benefited by guidance for competitive examinations and career counselling offered by the institution	Career counselling – 3681 Competitive exams – 143	A	
8.3	Number of placements of outgoing students	UG- 553 PG- 65	B	Marginal increase in core placements is observed. Needs to be further improved.
8.4	Students Qualified in Competitive Examinations	70	B	Good.

9. Alumni Engagement

S.No.	Item	HEIs i/p	Grade	Remarks
9.1	The Alumni Association / Chapters	AALBRCE is registered with registration number 154 on 28th April, 2006 and is functional	B	It is only limited to the Institute. Chapters at prominent cities of Andhra Pradesh and other State Capitals shall be established.
9.2	Alumni contributions	Alumni are contributing in terms of Placements, Career guidance and guest lectures	B	Frequency of these interactions can be arranged more frequently.
9.3	Alumni Association / Chapters meetings Conducted	Alumni Association meeting is conducted as alumni day once in a year in the institute.	B	The meetings have to be arranged at different places convenient to most of the alumni so that the interactions will be improved.

10. Social service and Extension activities

S.No.	Item	HEIs i/p	Grade	Remarks
10.1	Promotion of Universal Values and Ethics	No. of activities conducted: 17	À	Good
10.2	Initiatives taken to engage with and contribute to local community	No. of Initiatives taken: 286 <ul style="list-style-type: none"> • LBRCE is adopting the nearby villages every year • Rural Water supply • Eye Camps • Financial help for the poor and needy • Donating books and cloths NSS unit is functional and involving students in activities like Blood donation camps, Tree plantations, Pulse polio camps to local children etc.	A	Very good initiative under Social Responsibility
10.3	Extension activities in the neighbourhood community in terms of impact and sensitising students to social issues and holistic development	54 (NSS-34, NCC-10)	A	
10.4	Awards and recognition received for extension activities	14 Nehru Yuva Kenra District Level Elocution, Army attachment Camp at Secunderabad, Republic Day Parade, New Delhi, Voulentery	A	

10.5	Extension and outreach programs conducted in collaboration Government Organisations, Non-Government Organisations	15	A	
10.6	Number of students participating in extension activities	1658	A	Participation of students in extension activities is more compared to last year.
10.7	Village adoption	Ganapavaram village is adopted	A	Adopted a new village this year. Last year – Pondugala This year - Ganapavaram
10.8	NCC (Awards)	P.Anusha(CSE),represented Republic Day Parade, New Delhi G.Mounika(EEE),B.Prameela (ASE) participated Army attachment Camp at Secunderabad (B- Certificate: 70) (C- Certificate: 21)	A	

11. Administrative Procedures

S.No.	Item	HEIs Input	Grade	Remarks												
11.1	Budget allocation, excluding salary for infrastructure augmentation	Standard and regular procedures are followed.	A													
11.2	Expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component	<table border="1"> <tr> <td>Budget allocated for infrastructure augmentation(in Lakhs)</td> <td>425 (42.3% of sanctioned)</td> </tr> <tr> <td>Budget utilized for infrastructure development(in Lakhs)</td> <td>433.45 (102% of utilization)</td> </tr> <tr> <td>Budget allocated for Maintenance of Academic Facilities (in Lakhs)</td> <td>398.94 (39.67% of sanctioned)</td> </tr> <tr> <td>Budget utilized for Maintenance of Academic Facilities (in Lakhs)</td> <td>369.34 (95.8% of utilization)</td> </tr> <tr> <td>Budget allocated for Maintenance of Physical Facilities (in Lakhs)</td> <td>181.52 (18.05% of sanctioned)</td> </tr> <tr> <td>Budget utilized for Maintenance of Physical Facilities (in Lakhs)</td> <td>181.73 (100.12% of utilization)</td> </tr> </table>	Budget allocated for infrastructure augmentation(in Lakhs)	425 (42.3% of sanctioned)	Budget utilized for infrastructure development(in Lakhs)	433.45 (102% of utilization)	Budget allocated for Maintenance of Academic Facilities (in Lakhs)	398.94 (39.67% of sanctioned)	Budget utilized for Maintenance of Academic Facilities (in Lakhs)	369.34 (95.8% of utilization)	Budget allocated for Maintenance of Physical Facilities (in Lakhs)	181.52 (18.05% of sanctioned)	Budget utilized for Maintenance of Physical Facilities (in Lakhs)	181.73 (100.12% of utilization)	A	The budget was allocated rationally for different heads and it was observed that the funds were fully utilised.
Budget allocated for infrastructure augmentation(in Lakhs)	425 (42.3% of sanctioned)															
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11.3	Established systems and procedures for maintaining and utilizing physical, academic and support facilities -laboratory, library, sports complex, computers, classrooms etc.	Standard and regular procedures are followed.	A	
11.4	Students benefited by scholarships and freeships provided by the Government.	Number of students benefited by scholarships – 2470 (11,51,59,800/-)	A	
11.5	Students benefited by scholarships, freeships, etc. provided by the institution besides government schemes	Academic toppers – 56 100% attendance –146 Economically poor students – 30 (18,42,900/-)	A	A substantial amount is being spent by the Institute in supporting meritorious as well as needy students.
11.6	Support to differently abled students	Adequate facilities are made available	A	
11.7	Transparent mechanism for timely redressal of student grievances including sexual harassment and ragging cases	Mechanisms are in place.	A	
11.8	Presence of an active Student Council & representation of students on academic & administrative bodies/committees	Active student representation is ensured through academic & administrative bodies/committees	B	The representation of students in various academic and administrative bodies is ensured.
11.9	Professional development / administrative training programs organized by the Institution for teaching and non-teaching staff	30 Teaching –26 Non-teaching – 04	A	

12.Governance, Leadership and Management				
S.No.	Item	HEIs Input	Grade	Remarks
12.1	Governance of the institution is reflective of an effective leadership in tune with the vision and mission of the Institution	Governing body meeting is conducted twice a year to ensure institute activities to be in tune with vision and mission.	A	
12.2	Decentralization and participative management	Proactive and participative management is in place. Administrative hierarchy is ensured by governing body.	A	

12.3	Perspective/Strategic plan and deployment documents	Selective agenda items of strategic plan are discussed in governing body meeting and decisions are circulated to all the departments.	A	
12.4	Organizational structure of the Institution including governing body, administrative setup, and functions of various bodies, service rules, procedures, recruitment, promotional policies as well as grievance redressal mechanism	All are in place.	A	
12.5	Implementation of e-governance in areas of operation	The following areas of e-governance are in place: Administration Finance and Accounts Student Admission and Support Examination	A	
12.6	Effectiveness of various bodies/cells/ committees is evident through minutes of meetings and implementation of their resolutions	Effectively implemented.	A	
12.7	Welfare measures for teaching and non-teaching staff	Welfare measures like EPF facility, Health Insurance, Concessional Transport, Free medical facility, Gratuity for supporting staff and fee concession for staff children are in place.	A	
12.8	Performance Appraisal System for teaching and non-teaching staff	It is in implementation	A	
12.9	Institutional strategies for mobilisation of funds and the optimal utilisation of resources	Promoting R&D by giving incentives to the faculty Conducting National/State level online examinations Promoting Consultancy through In-house expertise. Optimal utilisation of resources is ensured through appropriate auditing.	A	
12.10	Teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies	Total financial support of Rs. 11.62 Lakhs is given to 248 faculty members	A	A substantial increase in financial support (nearly 250%) compared to last year.

13. Best Practices of the Institution				
S.No.	Item	HEIs Input	Grade	Remarks
13.1	No. of gender equity promotion programs organized by the institution	7 such programmes are conducted through SAHELI Club	A	
13.2	Power requirement of the Institution met by the renewable energy sources	400 kVA Solar PV system	A	
13.3	Percentage of lighting power requirements met through LED bulbs	17.39%	A	
13.4	Waste Management steps	Appropriate Solid waste, Liquid waste and e -waste management measures are taken care.	A	
13.5	Rain water harvesting structures and utilization in the campus	Appropriate measures are implemented.	A	
13.6	Green Practices	Vehicle entry is restricted Use of bicycles in the campus is promoted. Plantation programme has been taken up by the NSS unit. Greenery is well maintained in the campus.	A	
13.7	Initiatives to address locational advantages and disadvantages	Necessary initiatives have been taken to strengthen the interaction with the nearby Industries Adequate transportation facility is provided to the students Adequate travel grant is provided	A	
13.8	Code of conduct handbook exists for students, teachers, governing body, administration including Principal /Officials and support staff	Available and also disseminated in institute website	A	
13.9	Display of core values in the institution and on its website	Disseminated in institute website	A	
13.10	Activities to increase consciousness about national identities and symbols; Fundamental Duties and Rights of Indian citizens obligations and other constitutional obligations	Awareness programmes are conducted	A	
13.11	Functioning is as per professional code of prescribed / suggested by statutory bodies / regulatory authorities for different	Institute is functioning as per the code prescribed by statutory/regulatory bodies	A	

	professions.			
13.12	Organizes national festivals and birth / death anniversaries of the great Indian personalities.	YES	A	
13.13	Transparency in its financial, academic, administrative and auxiliary functions	Transparency is maintained regarding academic, administrative, and financial information.	A	

14.IQAC				
S.No.	Item	HEIs Input	Grade	Remarks
14.1	Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing the quality assurance strategies and processes	Significant contributions are made	A	
14.2	The institution reviews its teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals through IQAC set up as per norms	Monitor-Measure-Modify mechanism of reviewing is implemented as per norms.	A	
14.3	Quality initiatives by IQAC for promoting quality culture	Assessing the faculty through quality parameters of self-appraisal forms and providing required suggestions for improvement. Arranging training on pedagogy every semester for all newly admitted faculty. Conducting seminars / workshops, FDPs on emerging technologies for faculty. Conducting Guest Lectures by Industry experts. Arranging regular training / certification programmes for students and teaching/supporting staff. Encouraging R&D and Consultancy.	A	

a. Best Practices followed in the Institute:

- ✓ Special Leaves with pay and seed grant are provided to the faculty pursuing Ph.D
- ✓ Additional increments/promotions are given for those who acquire Ph.D during service
- ✓ Reduced workload at the time of writing thesis
- ✓ Financial assistance to the faculty to attend reputed International/ National conferences
- ✓ The institute has a well-defined policy in providing incentives for sponsored projects, matching grants, patents and publications in indexed journals

- ✓ Good number of COEs are established to promote research culture
- ✓ 26% of the faculty are possessing Ph.D. qualification and another 30% of the faculty are encouraged to pursue Ph.D.
- ✓ Funding students to promote innovation - Student participation in Innovation, Incubation and Entrepreneurship activities through CIIE.
- ✓ Providing remedial classes to slow learners and coaching to the fast learners for higher studies opportunities such as GATE, IELTS, PGECET and Foreign languages.
- ✓ Good infrastructure and well-equipped laboratories with modern tools.
- ✓ Placement record is good. Initiative from the department for placements in core domains other than central Training and Placement cell.
- ✓ The practice of conducting Guest lectures, Industrial visits and Industrial training has been enhanced.
- ✓ The functioning of Research groups to promote better quality research and publications has been strengthened.
- ✓ Industry Internship is made mandatory for all students
- ✓ Continuous inputs from all stakeholders like Alumni, Academicians and Industry experts are taken to improve the curriculum on regular basis.
- ✓ Participation of students in Sports, Games at National and International level, NCC, NSS activities.

b. Suggestions for improvement:

- ✓ Research output by a way of quality publications, external funded research projects and consultancy need to be strengthened.
- ✓ Value added courses such as Artificial Intelligence, Machine Learning, Hybrid Electric Vehicles, Digital Manufacturing, Industrial IoT, Introduction to Augmented Reality and Virtual Reality may be introduced.
- ✓ Motivate the faculty without Ph.D. to pursue the same as a priority.
- ✓ Efforts shall be further improved to invite core industries for campus placements.
- ✓ Intra-disciplinary research shall be encouraged.
- ✓ Strong alumni base needs to be established.
- ✓ Strengthen the student mentoring system by training the mentors

Signature of AAA member 1

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Signature of AAA member 2

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