



LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING

(AUTONOMOUS)

Accredited by NAAC with 'A' Grade and NBA (ECE,EEE,ME,CSE & IT)

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

L.B.Reddy Nagar, Mylavaram-521230, N.T.R Dist, Andhra Pradesh, India.

Internal Quality Assurance Cell (IQAC)

ACADEMIC AND ADMINISTRATIVE AUDIT(AAA) BY EXTERNAL AGENCY

Date of Audit: 26-03-2022

ACADEMIC YEAR: 2020-21

Audit Member-1 : Dr.A.Venu Gopal, Professor, Mechanical Engineering, NIT. Warangal

Audit Member-2 : Dr.A.Subbarami Reddy, Professor, Department of ECE, JITS, 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 institution:

	Name of the Programme	Sanctioned Seats	Students Admitted
UG: B.Tech.	1. Artificial Intelligence & Data Science	64	64
	2. Aerospace Engineering	64	56
	3. Civil Engineering	64	58
	4. Computer Science and Engineering	193	192
	5. Electronics and Communication Engineering	193	191
	6. Electrical and Electronics Engineering	128	123
	7. Information Technology	128	127
	8. Mechanical Engineering	128	102
	UG: B.Tech., Total	962	913
PG: M.Tech.	1. Computer Science and Engineering	19	0
	2. Thermal Engineering	19	1
	3. Power Electronics and Drives	19	0
	4. VLSI and Embedded Systems	19	1
	PG: M.Tech., Total	76	2
PG: MBA	5. Master of Business Administration	128	103
	PG: M.Tech. & MBA	203	105
	UG and PG Total	1168	1018

Criterion I: Curricular Aspects

Metric. No	Description	HEIs i/p	Audit Remarks	Grade
1.1	Number of programmes offered during the year (N_P)	15	Curriculum is revised regularly as per the guidelines from AICTE/APSICHE and JNTUK	A
	Number of programmes where syllabus revision was carried out during the year (n_P)	15		
	Percentage of programmes where syllabus revision was carried out during the year (n_P/N_P) x 100	100%		
1.2	Number of courses in all programmes during the year (N_C)	608	All programmes are having focus on employability	A
	Number of courses focusing on employability/entrepreneurship/skill development offered by the institution during the year (n_C)	494		
	Percentage of courses focusing on employability/entrepreneurship/skill development offered by the institution during the year (n_C/N_C) x 100	81.25%		
1.3	Number of new courses introduced across all programmes during the year (N_{NC})	146	New courses in line with the developments in technology have been introduced	A
	Percentage of new courses introduced across all programmes during the year (N_{NC}/N_C) x 100	24%		
1.4	Number of Programmes offered through Choice Based Credit System (CBCS)/ Elective Course System (N_{CBCS})	15	Choice Based Credit System is implemented in all the programmes	A
	Percentage of Programmes offered through CBCS/ Elective Course System (N_{CBCS}/N_P) x 100	100%		
1.5	Number of value-added courses for imparting transferable and life skills offered during the year (Each with 30 or more contact hours)	15	Good	A
1.6	Total number of students during the year (N_{NS})	3972	Good	A
	Number of students enrolled in value-added courses (N_{VA})	978		
	Percentage of students enrolled in value-added courses (N_{VA}/N_{NS}) x 100	24.6%		
1.7	Number of students undertaking field work/projects/internships/student projects (N_{PI})	969	Students shall be promoted to undertake field projects / internships	A
	Percentage of students undertaking field work/projects/internships/student projects (N_{PI}/N_{NS}) x 100	24.4%		

Metric. No	Description	HEIs i/p	Audit Remarks	Grade
1.8	Structured feedback and review of syllabus (Semester-wise/ year-wise) is obtained from (All 4/Any 3/2/1/None)	All 4	Well established online feedback system is in place	A
	Students	YES		
	Teachers	YES		
	Employers	YES		
	Alumni	YES		
1.9	The feedback system of the institution comprises the following (Choose one). A. Feedback collected, analysed and action taken made available on the website B. Feedback collected, analysed and action taken C. Feedback collected and analysed D. Feedback collected E. Feedback not obtained	A	Feedback is collected and analysed for further improvement of teaching-learning activity and also for curriculum revision.	A

Suggestions for improvement:

1. Curriculum is being revised regularly in line with the guidelines issued by AICTE, APSCHE and JNTUK. Board of Studies meetings are organised regularly with the eminent people from Higher Education Institutions and industry of repute and also the senior alumni.
2. CBCS is in place and implemented.
3. Online Feedback system is in place and analysed for improving the Teaching-Learning process.
4. More students may be encouraged to undertake field projects / Internships.

Criterion II: Teaching-Learning and Evaluation

Metric. No	Description	HEIs i/p	Audit Remarks	Grade																
2.1	Student admission percentage (n_{21}/N_{21}) x 100 where, N ₂₁ : Total number of sanctioned seats n ₂₁ : Total number of students admitted	<table border="1" style="width: 100%; border-collapse: collapse; margin-left: auto; margin-right: auto;"> <thead> <tr> <th></th> <th style="text-align: center;">N₂₁</th> <th style="text-align: center;">n₂₁</th> <th style="text-align: center;">%</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">UG</td> <td style="text-align: center;">962</td> <td style="text-align: center;">913</td> <td style="text-align: center;">94.91</td> </tr> <tr> <td style="text-align: center;">PG</td> <td style="text-align: center;">203</td> <td style="text-align: center;">105</td> <td style="text-align: center;">51.72</td> </tr> <tr> <td style="text-align: center;">Total</td> <td style="text-align: center;">1168</td> <td style="text-align: center;">1018</td> <td style="text-align: center;">87.16</td> </tr> </tbody> </table>		N ₂₁	n ₂₁	%	UG	962	913	94.91	PG	203	105	51.72	Total	1168	1018	87.16	PG admissions are about 50%. However, UG admissions are very good.	A
	N ₂₁	n ₂₁	%																	
UG	962	913	94.91																	
PG	203	105	51.72																	
Total	1168	1018	87.16																	
2.2	Number of students admitted from the reserved category (SC,ST,OBC, Divyangian, etc.) (n ₂₂)	373	Very good	A																
	Number of seats earmarked for reserved category as per GOI or state government rule (N ₂₂)	414																		
	Percentage of seats filled against reserved categories (n_{22}/N_{22})x100	90.09%																		
2.3	Total number of full-time teachers in the institution (N _T)	<table border="1" style="width: 100%; border-collapse: collapse; margin-left: auto; margin-right: auto;"> <tbody> <tr> <td style="text-align: center;">Professors</td> <td style="text-align: center;">42</td> </tr> <tr> <td style="text-align: center;">Associate Professors</td> <td style="text-align: center;">34</td> </tr> <tr> <td style="text-align: center;">Assistant Professors</td> <td style="text-align: center;">162</td> </tr> <tr> <td style="text-align: center;">Total</td> <td style="text-align: center;">238</td> </tr> </tbody> </table>	Professors	42	Associate Professors	34	Assistant Professors	162	Total	238	Associate professors are less in number	A								
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Assistant Professors	162																			
Total	238																			
2.4	Total number of students enrolled (N _E)	3972	--	A																
	Student-full time Teacher ratio (N _E /N _T)	16.69 : 1	--	A																
2.5	Number of faculty Mentors (n ₂₅)	184	--	A																
	Mentor-Mentee ratio (n ₂₅ /N _E)	1:21.6																		
2.6	Number of sanctioned posts (n ₂₅)	238	Very good	A																
	Percentage of full time teachers against sanctioned posts (n_{26}/N_T)x100	100%																		
2.7	Number of full-time teachers with Ph.D (n ₂₇)	69	Good	A																
	No. of permanent faculty pursuing Ph.D	94																		
	Percentage of full-time teachers with Ph.D (n_{27}/N_T)x100	29%																		
2.8	Total experience of full-time teachers in the same institution (n ₂₈)	1794 Years	Experienced Faculty in the same institution are available	A																
	Average teaching experience of full-time teachers in the same institution (n_{28}/N_T)	7.54 Years																		

Metric. No	Description	HEIs i/p		Audit Remarks	Grade
2.9	Average number of days from the date of last semester-end examination till the declaration of results (N ₂₉)	Program/Sem	N₂₉	--	A
		B.Tech., I-Sem	18		
		B.Tech., II-Sem	34		
		B.Tech., III-Sem	14		
		B.Tech., IV-Sem	22		
		B.Tech., V-Sem	25		
		B.Tech., VI-Sem	47		
		B.Tech., VII-Sem	15		
		B.Tech., VIII-Sem	35		
		M.Tech., I-Sem	22		
		M.Tech., II-Sem	53		
		MBA., I-Sem	20		
		MBA., II-Sem	49		
		MBA., III-Sem	12		
MBA., IV-Sem	7				
MCA., V-Sem	11				
	Average	25.6			
2.10	Total number of students appeared in the examination(N ₂₁₀)	3907		--	A
	Number of complaints/grievances about evaluation(n ₂₁₀)	308		--	A
	Average percentage of student complaints/grievances about evaluation against total number of appeared in the examination (n ₂₁₀ /N ₂₁₀)x100	7.9%		--	A
2.11	Total number of final year students who passed the examination(n ₂₁₁)	1014		--	A
	Total number of final year students who appeared for the examination(N ₂₁₁)	1013		Very good	A
	Pass percentage of Final year students (n ₂₁₁ /N ₂₁₁)x100	99.9%		Very good	A

Metric. No	Description	HEIs i/p	Audit Remarks	Grade																		
2.12	Quality analysis of Mid and End Semester examination question papers	Standard Procedures are established	Good	A																		
2.13	Weightage of internal and external marks in R17 & R20 Regulations	<table border="1"> <thead> <tr> <th></th> <th>R17</th> <th>R20</th> </tr> </thead> <tbody> <tr> <td>UG-Internal</td> <td>40</td> <td>30</td> </tr> <tr> <td>UG-External</td> <td>60</td> <td>70</td> </tr> <tr> <td>PG-Internal</td> <td>40</td> <td>40</td> </tr> <tr> <td>PG-External</td> <td>60</td> <td>60</td> </tr> </tbody> </table>		R17	R20	UG-Internal	40	30	UG-External	60	70	PG-Internal	40	40	PG-External	60	60	As per university norms	A			
	R17	R20																				
UG-Internal	40	30																				
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PG-External	60	60																				
2.14	Credits for award of degree in R17 & R20 Regulations	<table border="1"> <thead> <tr> <th>Program</th> <th>R17</th> <th>R20</th> </tr> </thead> <tbody> <tr> <td>B.Tech</td> <td>176</td> <td>160</td> </tr> <tr> <td>M.Tech</td> <td>72</td> <td>68</td> </tr> <tr> <td>MBA</td> <td>88</td> <td>108</td> </tr> <tr> <td>MCA</td> <td>124</td> <td>--</td> </tr> </tbody> </table>	Program	R17	R20	B.Tech	176	160	M.Tech	72	68	MBA	88	108	MCA	124	--	As per AICTE guidelines	A			
Program	R17	R20																				
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Program	R17	R20																				
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M.Tech	26	24																				
MBA	6	4																				
MCA	12	--																				
2.16	Status of automation of Examination division along with approved Examination Manual	100% automation of entire division & implementation of Examination Management System (EMS)	--	A																		
2.17	Preparation and adherence to Academic Calendar and Teaching plans by the institution	Academic calendar is in place and academic activities are as per the academic calendar.	--	A																		
2.18	Student centric methods, such as experiential learning, participative learning and problem-solving methodologies are used for enhancing learning experiences	<p>Guest Lectures, Workshops, and Certification Programs are organized.</p> <table border="1"> <tbody> <tr> <td>Guest Lectures</td> <td>15</td> </tr> <tr> <td>Workshops</td> <td>15</td> </tr> <tr> <td>Certification Programs</td> <td>13</td> </tr> <tr> <td>Webinars-</td> <td>21</td> </tr> </tbody> </table> <p>Students are actively participating in NPTEL certification.</p> <table border="1"> <tbody> <tr> <td>No. of NPTEL Certifications</td> <td>303</td> </tr> </tbody> </table> <p>Association activities are conducted under student professional society chapters</p> <table border="1"> <tbody> <tr> <td>CSI</td> <td>8</td> </tr> <tr> <td>IEEE</td> <td>4</td> </tr> <tr> <td>ISTE</td> <td>4</td> </tr> <tr> <td>ISHRAE</td> <td>4</td> </tr> </tbody> </table>	Guest Lectures	15	Workshops	15	Certification Programs	13	Webinars-	21	No. of NPTEL Certifications	303	CSI	8	IEEE	4	ISTE	4	ISHRAE	4	--	A
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Metric. No	Description	HEIs i/p	Audit Remarks	Grade
2.19	Program outcomes, program specific outcomes and course outcomes for all programs offered by the institution are stated and displayed on website and communicated to teachers and students	Yes	All are well defined and displayed at prominent locations in the institute	A
2.20	Attainment of program outcomes, program specific outcomes and course outcomes are evaluated by the institution	Yes	Attainments are good	A
2.21	Teachers use ICT enabled tools including online resources for effective teaching and learning process	Yes, teachers are using ICT facilities	Yes	A
2.22	The institution assesses the learning levels of the students, after admission and organises special programs for advanced learners and slow learners	Bridge classes for Lateral Entry and First Year Late admitted students.	Very good initiatives addressing both the slow and fast learners	A
		Remedial Classes for slow learners and backlog students.		
		GATE Classes for Advanced Learners		
2.23	Student Satisfaction Survey (SSS)	2020-21	--	A
	Total number of students on rolls (N ₂₂₀)	3949		
	Number of students participated in SSS(n ₂₂₀)	3000		
	Percentage of students participated in SSS (n ₂₂₀ /N ₂₂₀) x 100	75.97%		
	Grade Point Average (GPA) on 4-point scale	3.39		

Suggestions for improvement:

1. Outcome Based education philosophy is being followed very meticulously and the attainments are also calculated systematically.
2. Institute is encouraging faculty to pursue PhDs with reputed institutes by providing necessary financial support to purchase required equipment for carrying out their experimental/simulation works.
3. Question paper auditing may be carried out by the external subject experts.
4. Summer internships, two months each, at the end of 2nd year and also 3rd year is made mandatory for the UG students in the revised curriculum.
5. Opportunity is also provided for the students to carryout internships in the final semester.

Criterion III: Research, Innovation and Extension

Metric. No	Description	HEIs i/p	Audit Remarks	Grade
3.1	Seed money provided by the institution to its teachers for research during the year	Rs.1,58,710/-	Good initiative	A
3.2	Grants received from Government and non-governmental agencies for research projects, endowments, Chairs in the institution	Rs. 26,73,934/-	The grants received from external agencies is minimum.	C
3.3	Total number of teachers having research projects (n ₃₃)	10	The faculty shall be motivated to apply for more projects.	C
	Percentage of teachers having research projects (n ₃₃ /N _T)x100	4.2%		
3.4	Number of teachers recognised as research guides (n ₃₄)	35	Good	B
	Percentage of teachers recognised as research guides (n ₃₄ /N _T)x100	14.7%		
3.5	Number of departments having Research projects funded by government and non-government agencies (n ₃₅)	6	Good. But the number of projects in each department are to be enhanced.	B
	Total number of departments (N ₃₅)	10		
	Percentage of departments having Research projects funded by government and non-government agencies (n ₃₅ /N ₃₅)x100	60%		
3.6	Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR), entrepreneurship and skills development	54	Very good	A
3.7	Number of teachers recognized as guides (N ₃₇)	35	Good	A
	Number of Ph.D scholars registered (n ₃₇)	44		
	Number of Ph.D scholars registered per teacher (n ₃₇ /N ₃₇)	1.26		
3.8	Number of publications in UGC notified journals (n ₃₈)	154	No. of publications per faculty is less and efforts must be put in to enhance this.	B
	Number of research papers per teacher in the Journals notified on UGC website (n ₃₈ /N _T)	0.65		
3.9	Total number of books and chapters in edited volumes / books published, and papers in national/international conference-proceedings (n ₃₉)	59	--	A
	Number of books and chapters in edited volumes / books published per teacher (n ₃₉ /N _T)	0.25		

	Total number of citations in Scopus	228		
	h-index of Scopus	18		
3.10	Revenue generated from consultancy and corporate training	Rs.1,180/-	Very less	C
3.11	Total number of awards and recognition received by the Institution, its teachers and students for extension activities from Government / recognised bodies	175	--	A
3.12	Number of extension and outreach programs conducted by the institution through NSS/NCC/Red cross/YRC etc. (including Government initiated programs such as Swachh Bharat, Aids Awareness, Gender Issue, etc. and those organised in collaboration with industry, community and NGOs)	28	--	B
3.13	Total number of students participating in extension activities (n ₃₁₃)	2969	--a	
	Percentage of students participating in extension activities (n ₃₁₃ /N _E) x100	74.75%		
3.14	Total number of Collaborative activities for research/ faculty exchange/ student exchange/ internship/ on –the-job training/ project work	1014	Good	A
3.15	Number of functional MoUs with institutions of national, international importance, other universities, industries, corporate houses etc. (only functional MoUs with ongoing activities to be considered)	11	Good	A

Suggestions for improvement:

1. Though the quality publications seem to be good. However, number of publications have to be increased.
2. Sponsored research and consultancy are limited. The faculty members shall be motivated by giving some financial benefits.

Criterion IV: Infrastructure and Learning Resources

Metric. No	Description	HEIs i/p	Audit Remarks	Grade
4.1	Total number of classrooms/ seminar halls in the institution (N ₄₁)	73	--	A
	Number of classrooms and seminar halls with ICT facilities (n ₄₁)	73		
	Percentage of classrooms and seminar halls with ICT-enabled facilities such as smart class, LMS, etc. (n ₄₁ /N ₄₁)x100	100%		
4.2	Total expenditure, excluding salary (N ₄₂)	Rs.8,42,72,000/-	Facilities are being enhanced regularly	A
	Expenditure for infrastructure augmentation, excluding salary (n ₄₂)	Rs.1,78,62,400/-		
	Percentage of expenditure for infrastructure augmentation excluding salary (n ₄₂ /N ₄₂)x100	21.2%		
4.3	Annual expenditure for purchase of books/ e-books and subscription to journals/e-journals	Rs.23,47,654/-	Good	A
4.4	Total number of teachers and students (N ₄₄)	4210	--	A
	Number of teachers and students using library per day over one year (n ₄₄)	350		
	Percentage per day usage of library by teachers and students (foot falls and login data for online access) (n ₄₄ /N ₄₄)x100	8.3%		
4.5	Total number of Students (n ₄₅)	3972	Very good	A
	Total number of Computers for academic purpose (N ₄₅)	1342		
	Student-Computer ratio (n ₄₅ /N ₄₅)	2.96 : 1		
4.6	Bandwidth of internet connection in the institution	880 Mbps	Very good	A

Metric. No	Description	HEIs i/p	Audit Remarks	Grade
4.7	Facilities available for e-content development (All 4/only 3/2/1/None)	All 4	All facilities are available	A
	Media centre	Y		
	Audio visual centre	Y		
	Lecture Capturing System (LCS)	Y		
	Mixing equipment and software's for editing	Y		
4.8	Total expenditure excluding salary component (N ₄₈)	Rs.8,42,72,000/-	--	A
	Expenditure on maintenance of physical and academic support facilities excluding salary component (n ₄₈)	Rs.6,64,09,000/-	Good	
	Percentage expenditure incurred on maintenance of physical and academic support facilities excluding salary component (n ₄₈ /N ₄₈)x100	78.8%	Substantial increase compared to last year	
4.9	Institution has an IT policy covering wi-fi, cyber security, etc., and allocated budget for updating its IT facilities	IT policy on expansion of IT infrastructure in the campus is available	--	A
4.10	The institution has adequate facilities for teaching – learning, viz., classrooms, laboratories, computing equipment, etc.	Available	--	A
4.11	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.	All facilities with good infrastructure are available	A

Suggestions for improvement:

1. A media centre may be developed with all the video and audio recording facilities for recording the lectures and developing the e-content.
2. The campus is fully Wi-Fi enabled.
3. Classrooms are equipped with Wi-Fi and LCD projectors.

Criterion V: Student Support and Progression

Metric. No	Description	HEIs i/p	Audit Remarks	Grade
5.1	Number of students benefited by scholarships and freeships provided by the Government (n ₅₁)	2316	--	A
	Percentage of students benefited by scholarships and freeships provided by the Government (n ₅₁ /N _E) x100	58.31%		
5.2	Number of students benefited by scholarships, freeships, etc provided by the institution and non-government agencies (n ₅₂)	26	More awards may be initiated for motivation of the students.	B
	Percentage of students benefited by scholarships, freeships, etc provided by the institution and non-government agencies (n ₅₂ /N _E) x100	0.65%		
5.3	Following Capacity development and skills enhancement activities are organised for improving students' capability (All 4/only 3/2/1/None)	All 4	Very good	A
	Soft skills	Soft Skill training classes are conducted through dedicated CCGT		
	Language and communication skills	Yes		
	Life skills (Yoga, physical fitness, health and hygiene)	Full time Yoga master is available and conducting certification courses		
		Co-curricular and Extra Curricular activities are made as mandatory.		
Awareness of trends in technology	Certification courses and workshops on emerging areas and latest technologies are conducted regularly.			
5.4	Number of students benefited by guidance for competitive examinations and career counselling offered by the institution (n ₅₄)	3972	Very good	A
	Percentage of students benefited by guidance for competitive examinations and career counselling offered by the institution (n ₅₄ /N _E) x100	100		

Metric. No	Description	HEIs i/p	Audit Remarks	Grade	
5.5	Number of outgoing students (N ₅₅)	1014	Efforts are to be made to increase the placements in core sector	B	
	Number of outgoing students placed (n ₅₅)	445			
	Percentage of placement of outgoing students (n ₅₅ /N ₅₅) x 100	43.9%			
5.6	Number of final year students- previous graduating batch (N ₅₆)	1030	--	B	
	Number of outgoing students progressing to higher education- previous graduating batch (n ₅₆)	21			
	Percentage of student progression to higher education- previous graduating batch (n ₅₆ /N ₅₆) x 100	2.04%			
5.7	Number of students appeared in state/ national/ international level examinations (eg:IIT/JAM/NET/SLET/GATE/GMAT/CAT/ GRE/TOEFL/ IELTS/ Civil Services/State government examinations, etc) (N ₅₇)	173	--	B	
	Number of students qualified in state/ national/ international level examinations (eg:IIT/JAM/NET/SLET/GATE/GMAT/CAT/ GRE/TOEFL/ IELTS/ Civil Services/State government examinations, etc) (n ₅₇)	GATE			16
		GRE			28
		GMAT			2
IELTS		18			
TOEFL		10			
State Govt.		4			
Total	78				
Percentage of students qualified in state/ national/ international level examinations (eg:IIT/JAM/NET/SLET/GATE/GMAT/CAT/ GRE/TOEFL/ IELTS/ Civil Services/State government examinations, etc) (n ₅₇ /N ₅₇)x100	43.8%				
5.8	Number of awards/medals for outstanding performance in sports/cultural activities at inter-university / state /national / international events (award for a team event should be counted as one)	0	Poor, may be because of the pandemic	C	
5.9	Number of sports and cultural events / competitions organised by the institution	0	Poor, may be because of the pandemic	C	
5.10	Alumni financial contribution	Rs.70,312/-	--	B	

Suggestions for improvement:

- Career guidance for the students encouraging towards higher studies is provided for fast learners
- Interactions with alumni shall further be increased. Alumni base needs to established.

Criterion VI: Governance, Leadership and Management

Metric. No	Description	HEIs i/p	Audit Remarks	Grade
6.1	Implementation of e-governance in areas of operation (All 4 / only 3 / 2/ 1 / None)	All 4	MIS is in place	A
	Administration	YES		
	Finance and Accounts	YES		
	Student Admission and Support	YES		
	Examination	YES		
6.2	Number of teachers provided with financial support to attend conferences/ workshops and towards membership fee of professional bodies (n ₆₂)	13	Very less number of teachers utilised this opportunity compared to the last year. This may be because of the pandemic	A
	Percentage of teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies (n ₆₂ /N _T)x100	5.46%		
6.3	Total number of professional development/ administrative training programmes organized by the institution for teaching and non-teaching staff	20	--	A
6.4	Total number of teachers attended professional development Programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes (n ₆₄)	221	Very good	A
	Percentage of teachers undergoing online/ face-to-face Faculty Development Programmes (Professional Development Programmes, Orientation / Induction Programmes, Refresher Course, Short Term Course etc.,) (n ₆₄ /N _T) x 100	92.86%		
6.5	Quality assurance initiatives of the institution include(All 4/only 3/2/1/None)	All 4	IQAC cell is well established and conducts regular meetings for quality assurance.	
	Regular meeting of Internal Quality Assurance Cell (IQAC); Feedback collected, analysed and used for improvements	YES		
	Collaborative quality initiatives with other institutions	YES		
	Participation in NIRF	YES		
	Any other quality audit recognized by state, national or international agencies (ISO Certification)	Yes, ISO: 9001-2015		

Metric. No	Description	HEIs i/p	Audit Remarks	Grade
6.6	The governance of the institution is reflective of an effective leadership in tune with the vision and mission of the Institution	Governing body meetings are conducted twice in a year to ensure institute activities.	--	A
6.7	The institution has effective welfare measures for teaching and non-teaching staff and avenues for career development/ progression	Welfare measures EPF facility, Health Insurance, Concessional, Transport, Free medical facility, Gratuity to supporting staff and fee concession for staff children	--	A
6.8	Institution conducts internal and external financial audits regularly	YES Internal financial audit is done quarterly and External Financial audit is conducted from 22-06-2020 to 27-06-2020.	--	A
6.9	Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing the quality assurance strategies and processes	Contributions of IQAC <ul style="list-style-type: none"> ➤ Documentation of the activities leading to quality improvement ➤ Periodical conduct of Academic and Administrative Audit and its follow-up ➤ Preparation and submission of the Annual Quality Assurance Report (AQAR). ➤ Collection and analysis of feedback from all stakeholders ➤ Dissemination of information on various quality parameters to all stakeholders ➤ Organization of inter and intra institutional workshops, seminars on quality related themes. ➤ Development and application of quality benchmarks 	--	A

Metric. No	Description	HEIs i/p	Audit Remarks	Grade
6.10	The institution reviews its teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals through IQAC set up as per norms	Every month internal audits are conducted through IQAC on Teaching & Learning Process in the campus	--	A
6.11	The institution practices decentralization and participative management	Proactive and participative management is in place. Administrative hierarchy is ensured by governing body.	--	A
6.12	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

Suggestions for improvement:

1. Management is very pro-active and participative.
2. Institute conducts internal and external audits regularly
3. IQAC is very well organised in collecting the information and providing necessary inputs to all the stakeholders for the improvement in teaching-learning and Institute governance activities.

Criterion VII: Institutional Values and Best Practices

Metric. No	Description	HEIs i/p	Audit Remarks	Grade
7.1	The Institution has facilities for alternate sources of energy and energy conservation measures (Any 4 or all 5/ 3 / 2/ 1 / None)	4	Institute has very good alternate sources of energy facilities.	A
	Solar energy	YES 400kVA Solar PV system is established		
	Biogas plant	NO		
	Wheeling to the Grid	YES		
	Sensor-based energy conservation	YES		
	Use of LED bulbs/ power efficient equipment	All outdoor lamps are replaced with LED lights in the Campus		
7.2	Water conservation facilities available in the Institution (Any 4 or all 5/ 3 / 2/ 1 / None)	4	Institute has good water harvesting facilities except waste water recycling	A
	Rain water harvesting	YES		
	Borewell /Open well recharge	YES		
	Construction of tanks and bunds	YES		
	Waste water recycling	NO		
	Maintenance of water bodies and distribution system in the campus	YES		
7.3	Green campus initiatives (Any 4 or all 5/ 3 / 2/ 1 / None)	All 5	Campus is fully green covered	A
	Restricted entry of automobiles	YES		
	Use of Bicycles/ Battery powered vehicles	YES		
	Pedestrian Friendly pathways	YES		
	Ban on use of Plastic	YES		
	landscaping with trees and plants	YES		

Metric. No	Description	HEIs i/p	Audit Remarks	Grade
7.4	Quality audits on environment and energy are regularly undertaken by the institution (Any 4 or all 5/ 3 / 2/ 1 / None)	4	Environment and Energy audits are regularly done	A
	Green audit	YES		
	Energy audit	YES		
	Environment audit	YES		
	Clean and green campus recognitions/awards	NO		
	Beyond the campus environmental promotional activities	YES (Through LBRCE NSS unit)		
7.5	The Institution has disabled-friendly, barrier free environment (Any 4 or all 5/ 3 / 2/ 1 / None)	All 5	Facilities like ramps, lifts, washrooms, etc. are available wherever necessary.	A
	Built environment with ramps/lifts for easy access to classrooms.	YES		
	Disabled-friendly washrooms	YES		
	Signage including tactile path, lights, display boards and signposts	YES		
	Assistive technology and facilities for persons with disabilities (Divyangans) accessible website, screen-reading software, mechanized equipment	YES		
	Provision for enquiry and information: Human assistance, reader, scribe, soft copies of reading material, screen reading	YES		
7.6	The Institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic programmes in this regard (All 4 / Any 3 / 2/ 1 / None)	All 4	Mechanisms to monitor discipline, code of conduct are well in place	A
	The Code of Conduct is displayed on the website	YES		
	There is a committee to monitor adherence to the Code of Conduct	YES		
	Institution organizes professional ethics programmes for students, teachers, administrators and other staff	YES		
	Annual awareness programmes on Code of Conduct are organized	YES		
7.7	Measures initiated by the Institution for the promotion of gender equity	YES	--	A

Metric. No	Description	HEIs i/p	Audit Remarks	Grade
7.8	Institution celebrates / organizes national and international commemorative days, events and festivals	YES	--	A
7.9	Best practices successfully implemented by the Institution	YES	--	A
7.10	Best Practices			

Best Practice – I

Title of the Practice:

Effective Implementation of Outcome Based Education (OBE) in Teaching-Learning Process

Objectives of the Practice:

- To address the learning levels of students and make teaching more student centric.
- To guide the faculty towards better planning in teaching-learning methodologies.
- To augment effective knowledge transfer through core, elective courses in addition to integrated learning practices.
- To enhance critical thinking, problem solving skills among students.
- To enrich technical skills through modern tools usage.
- To improve self-learning capabilities through MOOCs.
- To enrich the curriculum that suits to current industrial needs.

Evidence of Success:

- 80.34 % of UG B.Tech. students have successfully graduated and among them 48.27% of students have graduated without any backlogs
- 75.74 % of UG 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 3.68 on 4-point scale.
- 02 Start-ups are registered, and 13 prototypes have been developed.

Some of the achievements are listed below:

- ARIIA 2021 Rankings: “BAND EXCELLENT” (Private/Self-Financed)
- Internshala Rankings 2021:
 - ✓ All India Ranking: 340
 - ✓ Zonal Rank: 134
- Outlook ICARE 2021 Magazine Survey:
 - ✓ 101-250 Rank Band
- Dataquest T Schools Survey 2021:

- ✓ 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)
- 2.5 STAR Rating to CIIE by MHRD Institution's Innovation Cell
- Improved placement offers through skill centers (A.Y.2019-20: 524 to A.Y.2020-21: 756) and improvement in annual CTC.
- Publications have been improved from 43(A.Y:2015-16) to 465 (A.Y:2019-20) in quality journals

Best Practice – II

Title of the Practice:

Ensuring holistic development of students

Objectives of the Practice:

- To nurture the technical skills through department specific professional bodies and technical clubs.
- To explore inherent skills of students through National Level Technical and Cultural Symposia
- To enhance student's physical and psychological competence by games, sports and yoga.
- To understand the importance community services and enhance social empathy by NSS activities.
- To make student a responsible citizen with ideal qualities like character, courage, comradeship, discipline, leadership, secular outlook, spirit of adventure.

Evidence of Success:

- NSS Unit conferred with "National Service Scheme award" by Ministry of Youth Affairs and Sports, Govt. of India for the year 2019-20
- Recognized as "Beat Covid Campaign College" by Mahatma Gandhi National Council of Rural Education (MGNCRE)
- Program Officer Dr. P. Ashok Reddy received "National Service Scheme Award 2019-20" from Hon'ble President of India on 24-09-2021.
- Lt. V. Likhita, ANO received Gold Medal in PRCN COURSE SW- 108 held at OTA Gwalior, Madhya Pradesh from 26-07-2021 to 23-10-2021
- Received "Dassault Systems Project of the year 2020" for the Project "Healthy Washing Machine" from Sri. Ch. Madhusudhan Reddy, Chairman, APSSDC and Prof. D.V. Rama Koti Reddy, Executive Director, APSSDC.

- Ms. K. Naga Divya Sri, received “Best Student in Holder in Entire Andhra Pradesh” for Handwriting Competition held on the occasion of releasing DISHA App on 29th June 2021 from Prof. K. Hema Chandra Reddy, Chairman, APSCHE.
- Ms. K. Poojitha Gayathri (EEE) bagged 1st Place in Patriotic Poem event in NSS State Youth Festival Competitions -2020
- Sk. Vanhar Ali, participated in NSS National Youth Festival during 12-16, Jan 2020 at Uttar Pradesh
- Ms. G. Baby Sindhuja got “Best Computer Science Engineering Student 2019” award by ISTE A.P Section State.
- Received a cash prize of 1 Lakh for participating in HEXAGON MSC virtual conference – 2020 conducted on 2nd – 3rd December 2020
- A project “Wearable Antennas for Health Care” was published in AICTE Chhatra Vishwakarma Award (CVA) booklet 2020
- Secured “Runners” position JNTUK, Kakinada Football (Men) Intercollegiate Tournament-2021.
- Mr. J.D.V. Prasad, Yoga Trainer, bagged “Gold Medal” in the 34th A.P. State Yogasana Championship – 2021.
- Ms. V. Akshara (II ECE) Participated in Second world Kuchipudi Dance Festival in Solo and Group dance held during 22nd to 24th October 2021 Organized by Kuchipudi Art Academy, Chennai.

Suggestions for improvement:

1. Efforts may be put in to motivate the faculty to apply research projects for funding from Govt./external agencies.
2. A media centre may be developed with all the video and audio recording facilities for recording the lectures and developing the e-content
3. Interactions with alumni shall further be increased. Alumni base needs to increased.
4. Question paper auditing may be carried out by the external subject experts



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