



# ADITYA COLLEGE OF ENGINEERING

Approved by AICTE, Permanently Affiliated to JNTUK & Accredited by NAAC  
Recognized by UGC under Sections 2(f) and 12(B) of UGC Act, 1956  
Aditya Nagar, ADB Road, Surampalem - 533 437, E.G.Dist., Ph: 99631 76662.

## Incremental improvements in various activities made during the preceding five years with regard to quality

The institution reviews its teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals through IQAC set up as per norms and recorded the incremental improvement in various activities given below

S No	PTR observation	Post Accreditation Initiative (Incremental improvements)	Link
1	Recognizations and Accreditations	<ol style="list-style-type: none"><li>1. Approved by AICTE, Permanently affiliated to JNTUK and accredited by NBA&amp; NAAC, Recognized by UGC under sections 2(f) and 12(B) of UGC Act, 1956</li><li>2. Institute initiated to appoint more number of Ph.D.</li></ol>	<a href="#">View1</a> <a href="#">View2</a>
2	Proper feedback mechanism is not sufficiently visible.	A web based application is implemented to collect feedback on curriculum/courses and other aspects from different stakeholders such as the Students, Parent, Faculty, Alumni and Employers. They need to register to give their Feedback online and registration form available at college website.	<a href="#">View1</a> <a href="#">View2</a>
3	The College yet to be define rubrics for evaluation of Program Outcomes (POs), Program Specific Outcomes (PSOs), and Each Course Outcomes (Cos)	<p>The course outcomes at the end of each course are printed in the academic regulation books.</p> <p>Individual copies of the regulation books are distributed to all the students which contain details of the course outcomes. At the beginning of the academic year all the Faculty members will prepare the course files and laboratory manuals. The course file contains Department vision, mission, course syllabus, course outcomes, individual time table, program objectives, program outcomes, various mapping matrices, unit plan, lesson plan, course plan, unit wise material, direct and indirect assessments and student grading sheets.</p> <p>The college collects the feedback from the students on course structure, Infrastructure, faculty, information resources, evaluation, and on the overall OBE system, to establish quality and continuously improve the program.</p>	<a href="#">View</a>

The university has embraced OBE and the same is being implemented. Program Outcomes (PO's) and Course Outcomes (CO's) are well defined for each program. This is the shared information or resource among all the stakeholders of the university system

Program Outcomes (POs) Engineering Graduates will be able to

- PO1: Engineering Knowledge
- PO2: Problem Analysis
- PO3: Design/Development of solutions
- PO4: Conduct investigations of complex problems
- PO5: Modern Tool usage
- PO6: The Engineer and Society
- PO7: Environment and Sustainability
- PO8: Ethics
- PO9: Individual and Teamwork
- PO10: Communication
- PO11: Project Management and Finance
- PO12: Life-long Learning

The institute uses both methods of assessment for course outcomes

- Direct method
- Indirect method

**Direct method:**

The evaluation process for achieving course outcomes takes place in each semester. The process for evaluation of course outcomes proceed in the following way

- The assessment tools such as Assignments, two mid exams, two online quiz, lab, project work and end semester exams are appropriately chosen.
- The relevant data is collected in accordance with course outcomes
- The Collected data is further analyzed, whether course outcomes meet the set level or not and are verified and necessary actions are taken

**Indirect assessment:**

At the end of each semester a questionnaire is distributed to all the enrolled students and takes feedback on effectiveness of the course. The questionnaire is prepared to know the efficiency and utility of the course

		<p>outcomes</p> <p><b>Course Attainment Calculations</b>  Weightage given to direct attainment = 80% Weightage given to Indirect attainment = 20%  Total CO Attainment = 0.8 * Direct attainment value + 0.2* indirect attainment value [respective course]</p>	
4	Senior teachers with Ph.D qualification and research background to inculcate research environment among the juniors is not visible	In the institution, Senior Faculty members with Ph.D qualification and research background are encouraged and motivated junior faculty members to words Research, Paper publication participation in Conferences and other enhancement skill development courses. The number of Ph.D registrations of junior faculty members in all departments in the institution increases Gradually year by year.	
5	Industry Institute interaction needs improvement	Institute tried to bridge the gap between academics and industry by various forms. Student's undergone apprenticeship/field work in the nearby industries so as to understand the industry needs and to acquire field experience. Industrial/Fieldtrips to HMT, VIZAG steel plant, APGENCO, Srisailam Underground Hydro power station are organized and students undergone training offered by Different technical training institutions.	<a href="#">View</a>

6	The College has got language laboratory which needs to be made interactive	<p>As per the R-16 &amp; R-19 Regulations and their syllabus patterns the lessons are designed to be purely interactive sessions where in the students are supposed to have practice sessions and activity sessions. Apart from having an English language laboratory, we also have an activity room additionally to accommodate activities and practice sessions. Language lab software's we use them in interactive mode where in all the students get familiarized with LSRW skills.</p> <p>Group discussions, interview skills, oral presentations, debates and role plays etc. are all conducted in activity room in which students partake batches wise. Phonetics is also learned and practice in the lab where in students get used to IPA sounds.</p>	<a href="#">View</a>																								
7	The College has internet facility with limited bandwidth	<p>All the computer systems are connected with internet speed 100Mbps. And Entire campus is connected by Wi-Fi. Every staff member is given a unique ID and Password to utilize the internet facility. Every department has separate Wi-Fi Routers. The details are provided in below table</p> <table border="1" data-bbox="467 1062 1360 1827"> <thead> <tr> <th colspan="3" data-bbox="467 1062 1360 1119"><b>Infrastructure Facilities:</b></th> </tr> <tr> <th data-bbox="467 1119 753 1176"><b>Particulars</b></th> <th data-bbox="753 1119 987 1176"><b>Available</b></th> <th data-bbox="987 1119 1360 1176"><b>Specification</b></th> </tr> </thead> <tbody> <tr> <td data-bbox="467 1176 753 1314">No .of Computers</td> <td data-bbox="753 1176 987 1314" style="text-align: center;">777</td> <td data-bbox="987 1176 1360 1314">Pentium 4 to Latest Core-i5 configuration</td> </tr> <tr> <td data-bbox="467 1314 753 1425">No. of terminals of LAN/WAN</td> <td data-bbox="753 1314 987 1425" style="text-align: center;">777</td> <td data-bbox="987 1314 1360 1425">Pentium 4 to Latest Core-i5 configuration</td> </tr> <tr> <td data-bbox="467 1425 753 1499">Computer Student ratio</td> <td data-bbox="753 1425 987 1499" style="text-align: center;">1:3.67</td> <td data-bbox="987 1425 1360 1499"></td> </tr> <tr> <td data-bbox="467 1499 753 1554">Licensed software</td> <td data-bbox="753 1499 987 1554" style="text-align: center;">6</td> <td data-bbox="987 1499 1360 1554">O.S and Applications</td> </tr> <tr> <td data-bbox="467 1554 753 1667">Internet facility</td> <td data-bbox="753 1554 987 1667" style="text-align: center;">100Mbps &amp; 400Mbps</td> <td data-bbox="987 1554 1360 1667">B.S.N.L</td> </tr> <tr> <td data-bbox="467 1667 753 1827">Wi-Fi connectivity</td> <td data-bbox="753 1667 987 1827" style="text-align: center;">Yes</td> <td data-bbox="987 1667 1360 1827">Routers at appropriate locations and whole campus is Connected through Wi-Fi</td> </tr> </tbody> </table>	<b>Infrastructure Facilities:</b>			<b>Particulars</b>	<b>Available</b>	<b>Specification</b>	No .of Computers	777	Pentium 4 to Latest Core-i5 configuration	No. of terminals of LAN/WAN	777	Pentium 4 to Latest Core-i5 configuration	Computer Student ratio	1:3.67		Licensed software	6	O.S and Applications	Internet facility	100Mbps & 400Mbps	B.S.N.L	Wi-Fi connectivity	Yes	Routers at appropriate locations and whole campus is Connected through Wi-Fi	
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8	No policy is in place for the periodic review of administrative and Academic departments	Institute formed a team of Academic and Administrative audit committee with senior members from all the departments. The committee prepares the report for every academic year. It observes the strengths, weaknesses, opportunities and challenges of the department. Accordingly it prepares the short and long term goals of the department and there by the institute. It also focuses on teaching learning process and Evaluation process also.	<a href="#">view</a>
9	There are no clear Policies with regard to service rules, recruitment and promotional policies	Developed Aditya connect web application through which circulars and other official information will be communicated to Faculty members	<a href="#">View</a>
10	Stringent Internal Administrative and Academic Audit to be conducted	Internal Administrative and academic audits were conducted in the department and they are placed at institute website	
11	IQAC needs to be strengthened and a detail of quality initiative by IQAC is to be documented	<ul style="list-style-type: none"> <li>✓ Curriculum planning and implementation</li> <li>✓ Analysis of placements</li> <li>✓ Analysis of Extracurricular activities and conducts meetings with corresponding team to implement different approaches to strengthen weak areas</li> </ul>	<a href="#">View</a>



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