## INTERNAL QUALITY ASSURANCE CELL

# ADITYA INSTITUTE OF TECHNOLOGY AND MANAGEMENT- TEKKALI

#### ACADEMIC AUDIT REPORT

Name of the Department: **ELECTRICAL** AND **ELECTRONICS ENGINEERING** 

Academic Year : 2023-24 I Semester (July to December)

Date of Audit : 24-01-2024

	Os, POs and Curriculum		
S. No	Criterion		Observations
1.	COs and POs assessment		COs and POs attainment calculated as per the procedure established by PAC.
2.	Stakeholders feedback related curriculum design	to	Graduate exit survey, alumni survey and Employer survey are conducted as per format.
3.	Action taken on minutes of BoS		Incorporated changes as per the suggestions of BoS. DAC and PAC. Annexure-1.1
4.	Percentage of lab component		15.9%(10.5/66) – <b>AR20</b> 37.5%(7.5/20) – <b>AR23</b> <b>Annexure-1.2</b>
5.	Evidence of academic flexibility		1 Interdisciplinary Elective+3 Professional elective+ 1 open elective 22.72% (15/66) – AR20 NIL – AR23 Annexure-1.3
II. F S. No	Caculty information and their contribu	tion	Observations
1.	Student Teacher ratio		STR - 19.47 Annexure-2.1
2.	Faculty Cadre ratio		FCR - 4:6:15 Annexure-2.2
	F 1: C		13 out of 25 faculty members are doctorates,9
3.	Faculty qualifications		registered for PhD and rest of the faculty members are post graduates
	Faculty qualifications  Faculty experience & retention		registered for PhD and rest of the faculty members are post graduates  Annexure-2.3 (list of faculty, qualifications, total
<ul><li>3.</li><li>4.</li><li>5.</li></ul>	, ,		registered for PhD and rest of the faculty members are post graduates

7.	Faculty as resource persons in workshops / training activities	Nil
8.	-Workshops/ Seminars: NIL	Number of FDPs/Guest Lectures/Seminars organized 01 Annexure-2.6
9.	List of conferences/seminars/ workshops/ FDP's/ any exclusive programs attended for enrichment of teaching - learning process	

	eaching-Learning Process and Evaluation	1
S.No	Criterion	Observations
1.	indices Attendance Exams	Lists of students for Detention and Condonation are maintained. Results analysis is carried out. Annexure-3.1
2.	Mechanism and activities for slow learners improvement	Slow learners are identified based on performance in Mid-exams. Conducted Make-up classes for slow learners. Annexure-3.2
3.	/mentoring mechanism	20 students are allotted to each faculty member to mentor for continuous improvement.  Annexure-3.3 (Allotment and sample file scanned)
4.	Tutorial classes	Tutorial classes are conducted as per schedule given in the time table
5.		No. of Innovative Projects: NIL Training programs for Faculty & Students in thrust areas
6.	- Best projects	Project review and evaluation is carried out as per PRC guidelines. Best projects are identified based on PRC recommendations.
7.	Monitoring of Teaching-Learning Process  - Observation of teaching process in classrooms as per schedule  - Tracking of syllabus coverage  - Uploading of lecture notes, question papers of mid and semester end examinations in e-learning portal  - Verification of evaluated answer papers  - Checking the quality of mid examination question papers  - Innovative teaching methods presented  - Verification of course files  -Minutes of class committee meetings and action taken	<ul> <li>Compliance of teaching diary with lesson plan is monitored once in a month.</li> <li>Track sheets are maintained to review syllabus coverage</li> <li>uploading of course material, mid and semester end question papers in e-Learning Portal</li> <li>All Mid answer scripts are verified</li> <li>Mid question papers as per cognitive levels are verified.</li> <li>PPT's, NPTEL video lectures are used,</li> <li>Course files are there for all courses.</li> <li>Annexure-3.4 (Sample lesson plan, teaching diary sample scanned copy of attendance register with signs of faculty member, HoD and Principal syllabus coverage and number of classes track sheet</li> </ul>

8.	Training programs conducted for students	No. of guest lectures: 03 No. of Add-on courses: 02
	- Guest lectures	No. of Seminars/workshops: NIL
	- Add-on courses	TO, OI Bellinary Workshops, 1-12
	- Seminars/workshops	No major deviations are observed in the compliance
	- Compliance of department	of department academic calendar.
	academic calendar	Annexure-3.5
9.	MoUs with Industries for internship	No. of MoUs: 1
10.	Students feedback and follow-up action	Annexure-3.6 (If any) Online feedback is taken from the students for all
	•	courses and review is carried out.
11.	Scope for Self-learning	Monetary encouragement for certification courses
	<ul><li>Certificate courses</li><li>Online courses</li></ul>	
12.	Result analysis and conduct of remedial	Result analysis is carried out after the results of
	classes for students with backlogs	semester end examinations and remedial classes are
		conducted for students with backlogs
		Annexure-3.7 (Result analysis for all the 8
13.	Placements (%):	semesters and details of remedial classes) Placements (%):
	Industries / organizations:	. ,
14.	Higher studies (%): Institutions:	Higher studies (%):
	institutions:	
15.	Student development Activities:	No. of technical events in association with student
	- co-curricular - extra-curricular activities	chapters: No. of NSS Activities: 20
	- extra-curricular activities	No. of Innovations and Startups: NIL
		Annexure-3.8
IV D	Describe Compulson over and Evitancian	
S.No	Research, Consultancy and Extension  Criterion	Observations
1.	Faculty publications in journals:	No. in peer reviewed journals: NIL
	Peer reviewed Journals:	No. in Scopus/SCI indexed journals: 07
	Thomson Reuters Impact factor Journals:	No. in Patent Publications: 03
	Patents Publications	Annexure-4.1
2.	Publications in conferences:	No. in Conference publications: 02
	- National - International	Annexure-4.2
3.	Percentage of faculty contributing in	Percentage of faculty involved in research
	- Research publications:	publications: 32 % (8/25)
4.	PhDs	No. registered: NIL
	- Registered	No. submitted: NIL
	- Submitted	No. awarded: NIL Annexure-4.3
	- Awarded	
	PhDs guiding /guided:	No. of PhDs guiding: 11 No. of PhDs guided: 02
		Annexure-4.4
5.		
J .	Funded R&D projects and consultancy	Total amount of funding for R&D and consultancy
].	Funded R&D projects and consultancy work	rotal amount of funding for R&D and consultancy projects
<i>J</i> .	1	_
<i>J</i> .	1	projects
	work	projects Ongoing: NIL
6.	1	projects

7.	MOU's with industries/ R&D/ Premier Institutes	Department executed MOU's with organizations Annexure-4.6
8.	Research centers of excellence Established	recognized as JNTUK research center for the academic years 2023-24 Annexure-4.7
9.	Skill development centers established	SIEMENS center of excellence in collaboration with APSSDC and SIEMENS
V. In	frastructure and Learning Resources	
S.No	Criterio	Observations
1.	Infrastructural facilities to improve the teaching learning process Class rooms: Laboratories: e- class rooms: Seminar halls: Faculty rooms:	No. of class rooms: 11 No. of tutorial rooms: 02 No. of laboratories: 13 No. of e-Class rooms: 03 No. of seminar halls: 01 No. of faculty rooms: 13
2.	Internet facilities for faculty & Students:	Wi-Fi enabled campus
3.	Technical & administrative staff support	11 members of Lab Technician/ Programmer for supporting various Laboratories in addition to 2 members for supporting administrative activities Annexure-5.1 (list of technicians and administrative staff with qualifications and experience)
4.	- New equipment added	Amount sanctioned in Rs lakhs/- Amount spent in Rs. lakhs/- New equipment added worth Rs/- Equipment and maintenance registers are maintained for all the Labs
5.	Details of computing facilities and software	Total number of Computers: 85 List of Software procured: NIL
6.	Dept News letter / magazine	Department half-yearly Newsletter is in place Annexure-5.2
7.	Department level library resources	Number of Titles: 211 Number of Volumes:211 Number of Journals:NIL Number of E-Journals:NIL Number of Video courses:NIL
VI. S	tudent information, Support and Progress	sion
S.No	Criterion	Observations
1.	Add-on courses:	List of add-on courses: 02  Annexure-6.1
2.	Student publications: Dept. student clubs:	No. of student publications: NIL No. of club activities for students: NIL
3.	Details of coaching provided for GATE/GRE/CRT/any other competitive exams	No. of GATE classes: NIL No. of CRT classes: 50
4.	Industrial visits and internships	No. of Industrial visits: NIL  Total number of industries offering internships: 10

. No	Criterion	Observations
1.	Teaching and non-teaching staff attended for skill development programs	No. of teaching staff: NIL No. of Non-Teaching staff: NIL
2.		No. of MoUs: NIL
3.	Display of Vision, Mission and other Quality objectives at prominent places	Display of Vision: Yes Display of Mission: Yes Display of PEOs, POs, PSOs and COs: Yes
4.	Staff and student attendance monitoring system -Biometric -Attendance registers	Generation of Daily, Weekly and Monthly attendance reports
5.	Financial support/leaves for qualification/skill up- gradation:	Faculty members are sanctioned with Registration fees, TA and Academic leave for attending Conferences and Workshops
6.	Risk evaluation/safety measures:	Maintaining Fire extinguishers at prominent places
(2) We (1) (2)	in recent technological aknesses:  There was no funded this period the	research activities is found strong in FDPS to have knowledge advancements, research froject during research froject during text book publication fews in muorbols
Sug (	gestions for improvement:  1) The faulties should app  to various funding ag	by more research proposals entires with innovative thrushes. entires with innovative thrushes. Fublication is a good sogn and fublication is a good sogn and fublication is a
	by needs to be imported	1

Sig. of Department Coordinator

Sig. of Academic Auditors

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Sig. of IOAC Coordinates

Sig. of IOAC Coordinator COORDINATOR, IOAC Aditya Institute of Technology and Management TEKKALI-532 201

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## INTERNAL QUALITY ASSURANCE CELL

# ADITYA INSTITUTE OF TECHNOLOGY AND MANAGEMENT- TEKKALI

#### ACADEMIC AUDIT REPORT

Name of the Department: ELECTRICAL AND ELECTRONICS ENGINEERING

Academic Year : 2023-24 (II<sup>nd</sup> Semester January to June)

Date of Audit : 18.07.2024

I. CO	Os, POs and Curriculum	
S. No	Criterion	Observations
1.	COs and POs assessment	COs and POs attainment calculated as per the procedure established by PAC. Annexure-1.1
2.	Stakeholders feedback related to curriculum design	Graduate exit survey, alumni survey and Employer survey are conducted as per format.
3.	Action taken on minutes of BoS	Incorporated changes as per the suggestions of BoS, DAC and PAC.  Annexure-1.2 (BoS minutes and curriculum changes evidences)
4.	Percentage of lab component	10.9%(6/55) – AR20 22.5%(4.5/20) – AR23 Annexure-1.3
5.	Evidence of academic flexibility	1 Inter disciplinary elective + 2 professional elective courses 16.36% (9/55) – AR20 NIL – AR23 Annexure-1.4

## II. Faculty information and their contribution

	•	
S. No	Criterion	Observations
1.	Student Teacher ratio	STR - 19.47 Annexure-2.1
2.	Faculty Cadre ratio	FCR - 4:6:15 Annexure-2.2
3.	Faculty qualifications	13 out of 25 faculty members are doctorates,9 registered for PhD and rest of the faculty members are post graduates
4.	Faculty experience & retention	Annexure-2.3 (list of faculty, qualifications, total experience, experience at AITAM)
5.	Faculty contribution in writing: - Books: NIL - Book chapters: 02	Annexure-2.4
6.	Faculty in professional bodies -Faculty contributions	Annexure-2.5 (Memberships and activities)

7.	Faculty as resource persons in workshops / training activities	Nil
8.	International / National level events organized -Conferences: NIL -Workshops/ Seminars: NIL -FDPs: 01	Number of FDPs organized: 01  Annexure-2.6
9.	List of conferences/seminars/ workshops/ FDP's/ any exclusive programs attended for enrichment of teaching - learning process	· · · · · · · · · · · · · · · · · ·

S.No	eaching-Learning Process and Evaluatio  Criterion	Observations
1.	Student performance indices Attendance Exams	Lists of students for Detention and Condonation are maintained.  Results analysis is carried out.  Annexure-3.1
2.	Mechanism and activities for slow learners improvement	Slow learners are identified based on performance in Mid-exams. Conducted Make-up classes for slow learners. Annexure-3.2
3.	Student counseling /mentoring mechanism	20 students are allotted to each faculty member to mentor for continuous improvement.  Annexure-3.3 (Allotment and sample file scanned)
4.	Tutorial classes	Tutorial classes are conducted as per schedule given in the time table
5.	Initiatives taken for innovative projects	No. of Innovative Projects: 02 Training programs for Faculty & Students in thrust areas Annexure-3.4 (If any)
6.	- Best projects	Project review and evaluation is carried out as per PRC guidelines.  Best projects are identified based on PRC recommendations.  Annexure-3.5 (If any)
7.	Monitoring of Teaching-Learning Process - Observation of teaching process in classrooms as per schedule - Tracking of syllabus coverage - Uploading of lecture notes, question papers of mid and semester end examinations in e-learning portal - Verification of evaluated answer papers - Checking the quality of mid examination question papers - Innovative teaching methods presented	<ul> <li>Attendance registers are verified once in a month.</li> <li>Compliance of teaching diary with lesson plan is monitored once in a month.</li> <li>Track sheets are maintained to review syllabus coverage</li> <li>uploading of course material, mid and semester end question papers in e-Learning Portal</li> <li>All Mid answer scripts are verified</li> <li>Mid question papers as per cognitive levels are verified.</li> <li>PPT's, NPTEL video lectures are used,</li> <li>Course files are there for all courses.</li> <li>Annexure-3.6 (Sample lesson plan, teaching diary, sample scanned copy of attendance register with signs of faculty member, HoD and Principal, syllabus coverage and number of classes track sheet,</li> </ul>

Institutes  Research centers of excellence Established  Skill development centers established  SIEMENS center of excellence APSSDC and SIEMENS  V. Infrastructure and Learning Resources  S.No Criterio Observations  Infrastructural facilities to improve the No. of class rooms: 11	MOU's with organizations earch center for the Annexure-4.8 Ilence in collaboration with
Established academic years 2023-24 A  9. Skill development centers established SIEMENS center of excel APSSDC and SIEMENS  V. Infrastructure and Learning Resources  S.No Criterio Observations  1. Infrastructural facilities to improve the No. of class rooms: 11	Annexure-4.8
9. Skill development centers established SIEMENS center of excel APSSDC and SIEMENS  V. Infrastructure and Learning Resources  S.No Criterio Observations  1. Infrastructural facilities to improve the No. of class rooms: 11	llence in collaboration with
S.No Criterio Observations  1. Infrastructural facilities to improve the No. of class rooms: 11	-
1. Infrastructural facilities to improve the No. of class rooms: 11	
1. Infrastructural facilities to improve the No. of class rooms: 11	
teaching learning process No. of tutorial rooms: 02	
Class rooms: No. of laboratories: 13	
Laboratories: No. of e-Class rooms: 03	
e- class rooms: No. of seminar halls: 01	
Seminar halls: No. of faculty rooms: 13	
Faculty rooms:	
2. Internet facilities for faculty & Students: Wi-Fi enabled campus	
3. Technical & administrative staff support  9 members of Lab Techni supporting various Labora members for supporting a Annexure-5.1 (list of techni staff with qualifications as	atories in addition to 2 dministrative activities hnicians and administrative
4. Department budget Amount sanctioned in Rs	
Salietioned amount	akhs/-
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	nce registers are maintained
<ul> <li>New equipment added</li> <li>Maintenance of equipment and consumables registers in labs</li> </ul>	
5. Details of computing facilities and Total number of Computer	
software List of Software procured	
6. Dept News letter / magazine Department half-yearly N Annexure-5.2	lewsletter is in place
7. Department level library resources Number of Titles: 211	
Number of Volumes: 211	
Number of Journals: NIL	
Number of E-Journals:NI	
Number of Video courses	s: NIL
VI. Student information, Support and Progression	
	ervations
1. Add-on courses: List of add-on courses: 3	
Annexure-6.1	
2. Student publications: No. of student publication	ns: 15
Dept. student clubs: Annexure-6.2 (If any)	
No. of club activities for	students: NIL
3. Details of coaching provided for GATE/No. of GATE classes: 50	
GRE/CRT/any other competitive exams No. of CRT classes: 50	
4. Industrial visits and internships No. of Industrial visits: 0	)2
	es offering internships: 10

8.	Training programs conducted	No of guest lectures: NIL
	for students	No of Add-on courses:02
	- Guest lectures	No. of Seminars/workshops: NIL
	- Add-on courses	
	- Seminars/workshops	No major deviations are observed in the compliance
	- Compliance of department	of department academic calendar.
	academic calendar	Annexure-3.7
9.	MoUs with Industries for internship	No of MoUs: 01
10	St. L. C. D. L. LCD.	Annexure-3.8 (If any)
10.	Students feedback and follow-up action	Online feedback is taken from the students for all courses and review is carried out.
11.	Scope for Self-learning	Monetary encouragement for certification courses
	- Certificate courses	
12	- Online courses	
12.	Result analysis and conduct of remedial	Result analysis is carried out after the results of
	classes for students with backlogs	semester end examinations and remedial classes are
		conducted for students with backlogs Annexure-3.9 ( Result analysis for all the 8
		semesters and details of remedial classes)
13.	D1 (0/).	, ,
13.	Placements (%): Industries / organizations:	Placements (%): Total 78 No. of students got selected in various
	industries / organizations.	companies
		Annexure-3.10
14.	Higher studies (%):	Higher studies (%):
	Institutions:	3 student opted for higher studies
		Annexure-3.11
15.	Student development Activities:	No. of technical events in association with student
	- co-curricular	chapters:
	- extra-curricular activities	No. of NSS Activities: 8
		No. of Innovations and Startups: NIL
		Annexure-3.12
	Research, Consultancy and Extension	
S.No	Criterio	Observations
1.	Faculty publications in journals:	No. in peer reviewed journals:
	Peer reviewed Journals:	No. in Scopus/SCI indexed journals: 03 No. in Patent Publications: 05
	Thomson Reuters Impact factor Journals: Patents Publications	No. in Patent Publications: 03
2.	Publications in conferences:	No. in Conference publications: 01
2.	- National	Annexure-4.2
	- International	
3.	Percentage of faculty contributing in	Percentage of faculty involved in research
	- Research publications:	publications: 32% (8/25)
4.	PhDs	No. registered: NIL
4.	- Registered	No. submitted: NIL
	- Submitted	No. awarded: NIL
	- Awarded	Annexure-4.3
	PhDs guiding /guided:	No. of PhDs guiding : 11
	I IIDo Parame, Paraga.	No. of PhDs guided: 02
		Annexure-4.4
5.	Funded R&D projects and consultancy	Total amount of funding for R&D and consultancy
	work	projects
		Ongoing: Rs. 29 lakhs/-
		Annexure-4.5

VII. C	Governance, Leadership and Manageme	nt
S. No	Criterion	Observations
1.	Teaching and non-teaching staff attended for skill development programs	No. of teaching staff: NIL No. of Non-Teaching staff: NIL
2.	MoUs with premier Institutions for knowledge exchange	or No. of MoUs: NIL
3.	Display of Vision, Mission and other Quality objectives at prominent places	Display of Vision: Yes Display of Mission: Yes Display of PEOs, POs, PSOs and COs: Yes
4.	Staff and student attendance monitoring system -Biometric -Attendance registers	Generation of Daily, Weekly and Monthly attendance reports
5.	Financial support/leaves for qualification/skill up- gradation:	rFaculty members are sanctioned with Registration fees, TA and Academic leave for attending Conferences and Workshops
6.	Risk evaluation/safety measures:	Maintaining Fire extinguishers at prominent places
VIII Strengths, Weaknesses and Areas of Improvement		
Wez (1) (2) Sugg (1)	aknesses:  ) Few students are form  universation,  ) During this period  are been conducted	rovement  To worth 729 lakes have been be MSME scheme.  It is were improved, trans were improved, trans were improved, inghigher studies in reputed inghigher studies in reputed no guest lecturers to the students, for the students, studies, studie
Sig. of Department Coordinator Sig. of Academic Auditors 1.		
<u> </u>	-	2.

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