Department of ECE

Academic Audit Report

ADITYA INSTITUTE OF TECHNOLOGY AND MANAGEMENT- TEKKALI INTERNAL QUALITY ASSURANCE CELL

ACADEMIC AUDIT REPORT

Name of the Department: ELECTRONICS AND COMMUNICATION ENGINEERING

Academic Year : 2018-19 I Semester (July to December)

Date of Audit : 24-01-2019

S. No	Os, POs and Curriculum Criterion	Observations
1.	COs and POs assessment	COs and POs attainment calculated as per the procedure established by PAC.
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-1.1 (BOS minutes and curriculum changes evidences)
4.	Percentage of lab component	27.14%(19/70)- AR13 28.76%(21/73) - AR16 28.78%(19/66) - AR18 -Two additional experiments are conducted in all Labs
5.	Evidence of academic flexibility	1 open elective + 4 core elective courses 7.14% (5/70) - AR13 5 open elective + 3 core elective courses 10.95% (8/73) - AR16 12.12%(8/66)- AR18
II. F	aculty information and their contribution	
S.	Criterion	Observations
1.	Student Teacher ratio	STR - 1:17.32
2.	Faculty Cadre ratio	FCR - : Professors- 5 Associate Professors- 12 Assistant Professors-23
3.	Faculty qualifications	6 out of 40 faculty members are doctorates, submitted their theses, 18 registered for Ph.D and rest of the faculty members are post graduates
4.	Faculty experience & retention	Annexure-2.1 (list of faculty, qualifications, total
		experience, experience at AITAM)

5.

6.

Faculty contribution in writing:

- Book chapters: Faculty in professional bodies

-Faculty contributions

Books:

Nil (if any) Annexure-2.2

(Memberships and activities) Annexure-2.3

7.	Faculty as resource persons in workshops / training activities	Nil (If any) Annexure-2.4
8.	International / National level events organized -Conferences:	Number of events organized: 1(Conference) Number of FDPs/Guest Lectures/Seminars organized:Nil Annexure-2.5
9.	List of conferences/seminars/ workshops/ FDP's/ any exclusive programs attended for enrichment of teaching - learning process	10- faculty members attended Annexure-2.6
	Teaching-Learning Process and Evaluation	
S.No	Criterion	Observations
1.	Student performance indices Attendance Exams	Lists of students for Detention and Condonation are maintained. Detained students-1 Condonation students-119 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.	Initiatives taken for innovative projects	No. of Innovative Projects:10 Training programs for students in thrust areas: Embedded System Design, Basics of Python Annexure-3.4 (If any)
5.	Review & Evaluation of Student Projects: - Best projects	Project review and evaluation is carried out as per PRC guidelines. Best projects are identified based on PRC recommendations. 4 Annexure-3.5 (If any)
6.	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 a action taken	month. - Compliance of teaching diary with lesson plan is monitored once in a month. - Track sheets are maintained to review syllabus coverage

7.	Training programs conducted for	No. of guest lectures:10
	students	No. of Add-on courses:14
	- Guest lectures	No. of Seminars/workshops:Nil
	- Add-on courses	
	- Seminars/workshops	No major deviations are observed in the
	- Compliance of department	compliance of department academic calendar. Annexure-3.7
8.	MoUs with Industries for internship	No. of MoUs:32
9.	Students feedback and fellow up estion	Annexure-3.8
9.	Students feedback and follow-up action	Online feedback is taken from the students for all courses and review is carried out.
10.	Scope for Self-learning	Monetary encouragement for certification courses
	 Certificate courses 	
	- Online courses	
11.	Result analysis and conduct of remedial	Result analysis is carried out after the results of
	classes for students with backlogs	semester end examinations and make-up classes
		are conducted for students with backlogs
		Annexure-3.9 (Result analysis for all the 8 semesters and details of remedial classes)
10	DI (0/).	
12.	Placements (%): Industries / organizations:	Placements(%): 74.1%
	industries / organizations.	Total _126 No. of students got selected in various companies
		Annexure-3.10
13.	Higher studies (%):	Higher studies(%):0
	Institutions:	Nil students joined for PG programme in
		various institutes Annexure-3.11
14.	Student development Activities:	No. of technical events in association with student
	- co-curricular	chapters:
	 extra-curricular activities 	No. of NSS Activities;
		No. of Innovations and Startup: Annexure-3.12
IV.	Research, Consultancy and Extension	
S.No	Criterion	Observations
1.	Faculty publications in journals:	No. in peer reviewed journals:19
	Peer reviewed Journals:	No. in Scopus/SCI indexed journals:14
	Thomson Reuters Impact factor Journals:	Annexure-4.1
2.	Publications in conferences: - National	No. in Conference publications:Nil Annexure-4.2
	- International	Annexure-4.2
3.	Percentage of faculty contributing in	Percentage of faculty involved in research
3.	- Research publications:	publications: 85%
		•
4.	PhDs	No. registered:12
	- Registered	No. submitted: 1
	- Submitted	No. awarded:1 Annexure-4.3
	- Awarded	
	PhDs guiding /guided:	No. of PhDs guiding: 2
		No. of PhDs guided: 0 Annexure-4.4
5.	Funded R&D projects and consultancy	Total amount of funding for R&D and consultancy
٥.	work	projects
	ork	
		Ongoing: Rs/- Completed: Rs99,800/-
		Annexure-4.5

Incentives for faculty R&D	Incentives for faculty research publications as per HR policy Annexure-4.6
MOU's with industries/ R&D/ Premier Institutes	32 (Annexure-4.7)
	recognized as JNTUK research center for the academic years 2017-18, 2018-19
Skill development centers established	APSSDC is available in the college
frastructure and Learning Resources	
Criterion	Observations
Infrastructural facilities to improve the	No. of class rooms: 13
teaching learning process	No. of tutorial rooms:3
Class rooms:	No. of laboratories:11
Laboratories:	No. of e-Class rooms:2
e- class rooms:	No. of seminar halls:1
Seminar halls:	No. of faculty rooms: 22
Faculty rooms:	NO. Of faculty fooms. 22
Internet facilities for faculty & Students:	Wi-Fi enabled campus
Technical & administrative staff support	9 members of Lab Technician/ Jr. Technician for supporting various Laboratories in addition to 5 members for supporting administrative activities Annexure-5.1 (list of technicians an administrative staff with qualifications an experience)
Department budget	Amount sanctioned in Rs. 7150000 /-
	Amount spent in Rs. 6935000 /-
	New equipment added worth Rs.
	720000 /-
	Equipment and maintenance registers are
consumables registers in labs	maintained for all the Labs
Details of computing facilities and software	Total number of Computers: 191 List of Software procured:HFSS(Rs/-7,20,000)
Dept News letter / magazine	Department half-yearly Newsletter is in place Annexure-5.2
Department level library resources	Number of Titles:262
	Number of Volumes:262
	Number of Journals:
	Number of E-Journals:
	Number of Video courses:
tudent information. Support and Progressi	on
Criterion	Observations
	List of add-on courses:14
And on vourses.	Annexure-6.1
Student publications:	No. of student publications: Nil (If any
Dept. student clubs:	Annexure-6.2 No. of club activities for students: Nil Annexure
I .	
	6.3
	MOU's with industries/ R&D/ Premier Institutes Research centers of excellence Established Skill development centers established Criterion Infrastructure and Learning Resources Criterion Infrastructural facilities to improve the teaching learning process Class rooms: Laboratories: e- class rooms: Seminar halls: Faculty rooms: Internet facilities for faculty & Students: Technical & administrative staff support Department budget - Sanctioned amount - Amount spent - New equipment added - Maintenance of equipment and consumables registers in labs Details of computing facilities and software Dept News letter / magazine Department level library resources

4.	Industrial visits and internships	No. of Industrial visits:
		Total number of industries offering internships:32 Annexure-6.4

VII. Governance, Leadership and Management

S. No	Criterion	Observations
1.	Teaching and non-teaching staff attended	No. of teaching staff: Nil
	for skill development programs	No. of Non-Teaching staff: Nil
2.	1	orNo. of MoUs:Nil Annexure-7.1
	knowledge exchange	(If any)
3.	Display of Vision, Mission and other	Display of Vision: Yes
	Quality objectives at prominent places	Display of Mission: Yes
		Display of PEOs, POs, PSOs and COs: Yes
4.	Staff and student attendance monitoring	Generation of Daily, Weekly and Monthly
	system	attendance reports
	-Biometric	
	-Attendance registers	
5.	Financial support/leaves for	orFaculty members are sanctioned with Registration
	qualification/skill up- gradation:	fees, TA and Academic leave for attending
		Conferences and Workshops Annexure-7.2
6.	Risk evaluation/safety measures:	Maintaining Fire extinguishers at prominent places

VIII Strengths, Weaknesses and Areas of Improvement

Strengths

- (1) More number of Doctorates
- (2) More number of faculties is registered for Ph.D.
- (3) Research publications are more
- (4) Recognized as JNTUK research center for the academic years 2017-18 & 2018-19

Weaknesses:

- (1) Consultancy
- (2) Funded projects
- (3) Books and Book Chapters

Suggestions for improvement:

1. Need to encrease the amount for consultany 2. Need to get more number of funded projects 3. Need to publish the books

Sig. of Department Coordinator K. Sig. of Academic Auditors

Sig. of HOD

V. Cuthable Sig. of IQAC Coordinator

COORDINATOR, IQAC Aditya Institute of Technology and Management TEKKALI-L & CUI

Head of the Department Department of ECF Aditya Institute of Technology and Management (A) TEKKALI-532 201

ADITYA INSTITUTE OF TECHNOLOGY AND MANAGEMENT- TEKKALI INTERNAL QUALITY ASSURANCE CELL

ACADEMIC AUDIT REPORT

Name of the Department: ELECTRONICS AND COMMUNICATION ENGINEERING

Academic Year : 2018-19 II Semester (January to June)

Date of Audit : 14-07-2019

	Os, POs and Curriculum	<u> </u>	
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 to curriculum design	Graduate exit survey, alumni survey and Employer survey are conducted as per format. Incorporated changes as per the suggestions of BOS, DAC and PAC. Annexure-1.1 (BoS minutes and curriculum changes evidences)	
3.	Action taken on minutes of BoS		
4.	Percentage of lab component	27.14%(19/70)- AR13 28.76%(21/73) - AR16 28.78%(19/66) - AR18 -Two additional experiments are conducted in all Labs	
5.	Evidence of academic flexibility	1 open elective + 4 core elective courses 7.14% (5/70) - AR13 5 open elective + 3 core elective courses 10.95% (8/73) - AR16 12.12%(8/66)- AR18	
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(I. F	Caculty information and their contribution	12.12%(8/66)- AR18	
I. F	Criterion	12.12%(8/66)- AR18	
		12.12%(8/66)- AR18	
S.	Criterion	12.12%(8/66)- AR18 Observations	
S.	Criterion Student Teacher ratio	Observations STR - 1:17.32 FCR - : : Professors- 7 Associate Professors- 10	
1. 2.	Criterion Student Teacher ratio Faculty Cadre ratio	Observations STR - 1:17.32 FCR - : : Professors- 7 Associate Professors- 10 Assistant Professors-18 10 out of 35 faculty members are doctorates, submitted their theses, 18 registered for Ph.D and rest of the faculty members are post graduates Annexure-2.1 (list of faculty, qualifications, total	
S. 1. 2.	Criterion Student Teacher ratio Faculty Cadre ratio Faculty qualifications	Observations STR - 1:17.32 FCR - : : Professors- 7 Associate Professors- 10 Assistant Professors-18 10 out of 35 faculty members are doctorates, submitted their theses, 18 registered for Ph.D an rest of the faculty members are post graduates	

7.	Faculty as resource persons in workshops / training activities	Nil (If any) Annexure-2.4
8.	International / National level events organized	Number of events organized:2
	-Conferences:	Number of FDPs organized:2
	-Workshops/ Seminars:	
	-FDPs:	Annexure-2.5
9.	List of conferences/seminars/ workshops/	19 faculty members attended
	FDP's/ any exclusive programs attended	•
	for enrichment of teaching - learning	
	process	

9.	List of conferences/seminars/ workshops/ FDP's/ any exclusive programs attended for enrichment of teaching - learning process	
	Teaching-Learning Process and Evaluation	
1.	Student performance indices Attendance Exams	Observations Lists of students for Detention and Condonation are maintained. Detained students- 7 Condonation students-104 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.	Initiatives taken for innovative projects	No. of Innovative Projects: Training programs for students in thrust areas Annexure-3.4 (If any)
5.	Review & Evaluation of Student Projects: - 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)
6.	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 a action taken	 Attendance registers are verified once in a month. Compliance of teaching diary with lesson plan is monitored once in a month. Track sheets are maintained to review syllabus coverage

7.	Training programs conducted for students - Guest lectures - Add-on courses - Seminars/workshops - Compliance of department academic calendar	No. of guest lecturers: 10 No. of Add-on courses: 14 No. of Seminars/workshops: Nil No major deviations are observed in the compliance of department academic calendar. Annexure-3.7
8.	MoUs with Industries for internship	No. of MoUs:32 Annexure-3.8
9.	Students feedback and follow-up action	Online feedback is taken from the students for all courses and review is carried out.
10.	Scope for Self-learning - Certificate courses - Online courses	Monetary encouragement for certification courses
11.	Result analysis and conduct of remedial classes for students with backlogs	Result analysis is carried out after the results of 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)
12.	Placements (%): Industries / organizations:	Placements(%): 74.1% Total _126 No. of students got selected in various companies Annexure-3.10
13.	Annexure-3.10 Higher studies (%): Institutions: O students joined for PG programm various institutes Annexure-3.11	
14.	Student development Activities: - co-curricular - extra-curricular activities	No. of technical events in association with student chapters: No. of NSS Activities: No. of Innovations and Startups: Annexure-3.12
IV. I	Research, Consultancy and Extension	
S.No	Criterion	Observations
1.	Faculty publications in journals: Peer reviewed Journals: Thomson Reuters Impact factor Journals:	No. in peer reviewed journals:19 No. in Scopus/SCI indexed journals:11 Annexure-4.1
2.	Publications in conferences: - National	No. in Conference publications:3 Annexure-4.2
	- International	
3.	- International Percentage of faculty contributing in - Research publications:	Percentage of faculty involved in research publications: 90%

5.	Funded R&D projects and consultancy work	Total amount of funding for R&D and consultant projects Ongoing: Rs/- Completed: Rs99,800/- Annexure-4.5
6.	Incentives for faculty R&D	Incentives for faculty research publications as pe HR policy Annexure-4.6
7.	MOU's with industries/ R&D/ Premier Institutes	32 (Annexure-4.7)
8.	Research centers of excellence Established	recognized as JNTUK research center for the academic years 2017-18 & 2018-19
9.	Skill development centers established	APSSDC is available in the college.
V. In	frastructure and Learning Resources	
S.No	Criterion	Observations
1.	Infrastructural facilities to improve the	Observations No. of class rooms: 13
***	teaching learning process	No. of tutorial rooms:3
	Class rooms:	No. of laboratories:11
	Laboratories:	No. of e-Class rooms:2
	e- class rooms:	No. of seminar halls:1
	Seminar halls:	No. of faculty rooms: 22
	Faculty rooms:	10. of Idealty rooms. 22
2.	Internet facilities for faculty & Students:	Wi-Fi enabled campus
		supporting various Laboratories in addition to 4 members for supporting administrative activities Annexure-5.1 (list of technicians administrative staff with qualifications a experience)
4.	Department budget - Sanctioned amount - Amount spent - New equipment added - Maintenance of equipment and consumables registers in labs	Amount sanctioned in Rs7150000/- Amount spent in Rs6935000/- New equipment added worth Rs.720000 Equipment and maintenance registers are maintained for all the Labs
5.	Details of computing facilities and software	Total number of Computers: 191 List of Software procured: HFSS(Rs/-7,20,000)
6.	Dept News letter / magazine	Department half-yearly Newsletter is in place Annexure-5.2
7.	Department level library resources	Number of Titles:262 Number of Volumes:262 Number of Journals: Number of E-Journals: Number of Video courses:
VI. S	tudent information, Support and Progressi	on
S.No	Criterion	Observations
1.	Add-on courses:	List of add-on courses:14 Annexure-6.1
2.	Student publications: Dept. student clubs:	No. of student publications:Nil (If any) Annexure-6. No. of club activities for students:Nil Annexure-

Details of coaching provided for GATE/No. of GATE classes: Nil GRE/CRT/any other competitive exams No. of CRT classes:45 4. Industrial visits and internships Total number of industries offering internships:32 Annexure-6.4

VII. Governance, Leadership and Management

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.		orNo. of MoUs: Annexure-7.1 (If any)
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 Annexure-7.2
6.	Risk evaluation/safety measures:	Maintaining Fire extinguishers at prominent places

VIII Strengths, Weaknesses and Areas of Improvement

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- (3) Research publications are more
- (4) Recognized as JNTUK research center for the academic years 2017-18 & 2018-19

Weaknesses:

- (1) Consultancy
- (2) Funded projects
- (3) Books and Book Chapters

Suggestions for improvement:

Need to invieage the Congultancy amount Need to publish the books. Need to get funded projects.

Sig. of Department Coordinator

Sig. of Academic Auditors

Head of the Department . Department of ECE

Aditya Institute of Technology and Management (A) TEKKALI-532 201

Sig. of IQAC Coordinator

COORDINATOR, TOAC Aditya Institute of Technology and Management

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