#### INTERNAL QUALITY ASSURANCE CELL

# ADITYA INSTITUTE OF TECHNOLOGY AND MANAGEMENT- TEKKALI ACADEMIC AUDIT REPORT

Name of the Department: COMPUTER SCIENCE AND ENGINEERING

Academic Year : 2023-24 I- Semester (July-23 to Dec-23)

Date of Audit : 27-01-2024

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.
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
		evidences)
4.	Percentage of lab component	40% (8/20) – AR23
		29.54% (19.5/66)- AR-20
		Annexure-1.2(course structure)
		-Two additional experiments are conducted in all Lab
5.	Evidence of academic flexibility	Open elective + Core elective courses
		0% (0/20) – AR23
		Open alective + Core elective courses
		Open elective + Core elective courses 22.72% (15/66) – AR20
II. F	Faculty information and their contri	22.72% (15/66) – AR20
II. F S. No	Faculty information and their contri	22.72% (15/66) – AR20
S.		22.72% (15/66) – AR20 bution
S. No	Criterion	22.72% (15/66) – AR20  bution  Observations
S. No	Criterion Student Teacher ratio	22.72% (15/66) – AR20  bution  Observations  STR - 20.03
S. No 1.	Criterion Student Teacher ratio Faculty Cadre ratio	Dbservations  Observations  STR - 20.03  FCR - 3: 7: 24  -08 out of 34 faculty members are doctorates, -12 registered for Ph.D and 0 submitted and -14 faculty members are post graduates  Annexure-2.1 (list of faculty, qualifications, total
S. No 1. 2.	Criterion  Student Teacher ratio  Faculty Cadre ratio  Faculty qualifications  Faculty experience & retention  Faculty contribution in writing:	Dbservations  Observations  STR - 20.03  FCR - 3: 7: 24  -08 out of 34 faculty members are doctorates, -12 registered for Ph.D and 0 submitted and -14 faculty members are post graduates  Annexure-2.1 (list of faculty, qualifications, total experience, experience at AITAM) -Books: 09
S. No 1. 2. 3.	Criterion  Student Teacher ratio  Faculty Cadre ratio  Faculty qualifications  Faculty experience & retention  Faculty contribution in writing:  - Books:	Dbservations  Observations  STR - 20.03  FCR - 3: 7: 24  -08 out of 34 faculty members are doctorates, -12 registered for Ph.D and 0 submitted and -14 faculty members are post graduates  Annexure-2.1 (list of faculty, qualifications, total experience, experience at AITAM) -Books: 09 -Book chapters: Nil
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7.	Faculty as resource persons in workshops / training activities	-Nil
8.	International/National level events organized -Conferences: -Workshops/ Seminars: -FDPs:	Number of events organized: -Conferences: Nil -Workshops/ Seminars: 02 -FDPs: 02 -Guest Lectures/Seminars organized: 06 Annexure-2.3
9.	List of conferences/seminars/ workshops/ FDP's/ any exclusive programs attended for enrichment of teaching - learning process	-Faculty members attended: 56 (28+28) Conferences attended: 14 Annexure-2.4
TTT	Tarabina I sayning Process and Evaluation	n
S.No	Teaching-Learning Process and Evaluation  Criterion	Observations
1.	Student performance indicesAttendance -Exams	Lists of students for Detention and Condination 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.
3.	Student counseling /mentoring mechanism	27 students are allotted to each faculty member to mentor for continuous improvement.  Annexure-3.2 (Allotment and sample file scanned)
4.	Initiatives taken for innovative projects	-Yes
5.	Review & Evaluation of Student Projects: - Best projects	PRC guidelines.  Best projects are identified based on PRC recommendations. Annexure-3.3
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 action taken	<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-3.4 (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 shee minutes of class committee meetings)</li> </ul>

7.	Training programs conducted for students - Guest lectures	No. of guest lectures: 06 No. of Add-on courses: 01 No. of Seminars/workshops: Nil
	- Add-on courses     - Seminars/workshops     - Compliance of department     academic calendar	No major deviations are observed in the compliance of department academic calendar.  Annexure-3.5
8.	MoUs with Industries for internship	No. of MoUs: 05 Annexure-3.6
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 -NPTEL -Online 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-3.7 (Result analysis for all the 8 semesters and details of remedial classes)
12.	Placements (%): Industries / organizations:	Placements (%): 89.44% (161/180) Total 161 No. of students got selected in various companies Annexure-3.8
13.	Higher studies (%): Institutions:	-1.66% (04/240) Annexure-3.9
14.	Student development Activities: - co-curricular - extra-curricular activities	No. of technical events in association with student chapters: 08 No. of NSS Activities: 07 No. of Innovations and Startups: Nil Annexure-3.10
	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: 04 No. in Scopus/SCI indexed journals: 12 No. of Patents: 14 Annexure-4.1
2.	Publications in conferences: - National - International	No. in Conference publications: 14 Annexure-4.2
3.	Percentage of faculty contributing in - Research publications:	Percentage of faculty involved in research publications: 73.52% (25/34)
4.	PhDs - Registered - Submitted - Awarded	No. registered : 08 No. submitted: Nil No. awarded :Nil
	PhDs guiding /guided:	No. of PhDs guiding :09 No. of PhDs guided: NIL Annexure-4.3
		-04 Annexure-4.4
5.	Funded consultancy work	- Incentives received by faculty members of amoun

7.	MOU's with industries/ R&D/ Premier Institutes	Department executed MOU's with various organizations: 05 Annexure-4.6
8.	Research centers of excellence Established	DST-FIST Lab
9.	Skill development centers established	SIEMENS center of excellence in collaboration with APSSDC and SIEMENS
V. In	frastructure and Learning Resources	
S.No	Criterion	Observations
1.	Infrastructural facilities to improve the	No. of class rooms: 12
١.	teaching learning process	No. of tutorial rooms:03
	Class rooms:	
	Laboratories:	No. of laboratories:05
	e- class rooms:	No. of e-Class rooms:02
	Seminar halls:	No. of seminar halls:01
	Faculty rooms:	No. of faculty rooms: 20
2.	Internet facilities for faculty & Students:	Wi-Fi enabled campus
3.	Technical & administrative staff support	07 members of Lab Technician for supporting
	recimical & administrative start support	various Laboratories in addition to 08 members for supporting administrative activities.  Annexure-5.1 (list of technicians and administrative staff with qualifications and experience)
4.	Department budget	Amount sanctioned in Rs:
	- Sanctioned amount	Amount spent in Rs:
	- Amount spent	New equipment added worth Rs: 00.00
	- New equipment added	Equipment and maintenance registers are maintained
	- Maintenance of equipment and	for all the Labs: Yes
	consumables registers in labs	Annexure-5.2
5.	Details of computing facilities and software	Total number of Computers: 232 List of Software procured: NIL
6.	Dept News letter / magazine	Department half-yearly Newsletter is in place Annexure-5.3
7.	Department level library resources	Number of Titles: 189
		Number of Volumes: 291
		Number of Books: 163
		Number of Journals: 31
		Number of E-Journals:05
	tudent information, Support and Progressi	on
S.No	Criterion	Observations
1.	Add-on courses:	List of add-on courses: 01 Annexure-6.1
2.	Student publications:	No. of student publications: 43
	Dept. student clubs:	No. of club activities for students: Nil
		Other achievements: 14
		Annexure-6.2
3.	Details of coaching provided for GATE/	No. of CRT classes:100
	GRE/CRT/any other competitive exams	7.1100001100

4.		-Students visited various companies for internships.  Annexure-6.3
VII.	Governance, Leadership and Management	
S. No	Criterion	Observations
1.	for skill development programs	No. of teaching staff: Nil No. of Non-Teaching staff: Nil
2.	MoUs with premier Institutions for knowledge exchange	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:	-Nil
6.	Risk evaluation/safety measures:	Maintaining Fire extinguishers at prominent places

## VIII Strengths, Weaknesses and Areas of Improvement

Strengths:

- + the CSE department produces graduates with high employa
  - -bility in IT, software development, data science, AI and more
- o Skills are relevant globally offering opportunities for remote work
- or relocation · Most USE events involve modern technologies like AI, ML/cloud computing and Iot
- Weaknesses: \* Focus on quantity and quality of research papers
  - · Lack of grants or resources for significant research in similar institutions
  - · Lack of consultancy.

Suggestions for improvement:

- · Regular considulum updates, collaborate with inclustry expert to align the curriculum with modern demaineds
- · Student projects auality should be improved
- · Modular Training with industry people should be encouraged.

Sig. of Department Coordinato

Aditya Institute of

Technology & magement

Sig. of Academic Auditors 1.

Sig. of IQAC Coordinator:

COORDINATOR, YOAC Aditya Institute of Technology and Management

# INTERNAL QUALITY ASSURANCE CELL

# ADITYA INSTITUTE OF TECHNOLOGY AND MANAGEMENT- TEKKALI

#### ACADEMIC AUDIT REPORT

Name of the Department: COMPUTER SCIENCE AND ENGINEERING

Academic Year : 2023-24 II- Semester (Jan-24 to June-24)

Date of Audit : 26-07-2024

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.
3.	Action taken on minutes of BcS	Incorporated changes as per the suggestions of Bo3, DAC and PAC. Annexure-1.1(BoS minutes and curriculum evidences)
4.	Percentage of lab component	40% (8/20) – AR23 42.72% (23.5/55)– AR-20 Annexure-1.2(course structure) -Two additional experiments are conducted in all Labs
5.	Evidence of academic flexibility	Open elective + Core elective courses 0% (0/20) - AR23 Open elective + Core elective courses 20.93% (9/43) - AR20

S. No	Criterion	Observations
1.	Student Teacher ratio	STR - 20.03
2.	Faculty Cadre ratio	FCR - 3: 7: 24
3.	Faculty qualifications	-08 out of 34 faculty members are doctorates, -12 registered for Ph.D and 0 submitted and -14 faculty members are post graduates
4.	Faculty experience & retention	Annexure-2.1 (list of faculty, qualifications, total experience, experience at AITAM)
5.	Faculty contribution in writing: - Books: - Book chapters:	-Books: 04 -Book chapters: Nil Annexure-2.2
6.	Faculty in professional bodies -Faculty contributions	(Memberships and activities) -CSI,ISTE,ACM etc

7.	Faculty as resource persons in workshops / training activities	-Nil
8.	International / National level events organized -Conferences: -Workshops/ Seminars: -FDPs:	Number of events organized: -Conferences: Nil -Workshops/ Seminars: 01 -FDPs: 01 -Guest Lectures/Seminars organized: 06 Annexure-2.3
9.	List of conferences/seminars/ workshops/ FDP's/ any exclusive programs attended for enrichment of teaching - learning process	-Faculty members attended: 28 Conferences attended: 06 Annexure-2.4
III.	Teaching-Learning Process and Evaluation	on
S.No	Criterion	Observations
1.	Student performance indicesAttendance -Exams	Lists of students for Detention and Condination 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.
3.	Student counseling /mentoring mechanism	27 students are allotted to each faculty member to mentor for continuous improvement.  Annexure-3.2 (Allotment and sample file scanned)
4.	Initiatives taken for innovative projects	-Yes
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-3.3
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	-, 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 - uploading of course material, mid and semester end question papers in e-Learning Portal - All Mid answer scripts are verified - Mid question papers as per cognitive levels are verified PPT's, NPTEL video lectures are used, - Course files are there for all courses.  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, and minutes of class committee meetings)

action taken

7.	Training programs conducted for	No. of guest lectures: 06
	students - Guest lectures	No. of Add-on courses: 03
	- Guest lectures - Add-on courses	No. of Seminars/workshops: Nil
	- Seminars/workshops	No major deviations are observed in the complianc
	- Compliance of department	of department academic calendar.
	academic calendar	Annexure-3.5
8.	MoUs with Industries for internship	No. of MoUs: 05
		Annexure-3.6
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	-NPTEL
	- Online 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 remedial classes are
		conducted for students with backlogs
		Annexure-3.7 (Result analysis for all the 8
12.	D1	semesters and details of remedial classes)
12.	Placements (%): Industries / organizations:	Placements (%): 89.44% (161/180) Total 161 No. of students got selected in various
	mudstries / organizations.	companies
		Annexure-3.8
13.	Higher studies (%):	-1.66% (04/240)
	Institutions:	Annexure-3.9
14.	Student development Activities:	No. of technical events in association with student
	- co-curricular	chapters: 03
	- extra-curricular activities	No. of NSS Activities: 07
	The second secon	No. of Innovations and Startups: Nil
		Annexure-3.10
TX7 1	Research, Consultancy and Extension	
S.No	Criterion	Observations
1.	Faculty publications in journals:	No. in peer reviewed journals: 02
	Peer reviewed Journals:	No. in Scopus/SCI indexed journals: 20
	Thomson Reuters Impact factor Journals:	No. of Patents: 10
		Annexure-4.1
2.	Publications in conferences:	No. in Conference publications: 06
	- National	Annexure-4.2
	- International	
3.	Percentage of faculty contributing in	Percentage of faculty involved in research
	- Research publications:	publications: 73.52% (25/34) No. registered: 08
4.	PhDs	No. submitted: Nil
	- Registered	No. awarded :Nil
	Submitted	
	- Submitted - Awarded	
	- Awarded	No. of PhDs guiding:09
		No. of PhDs guiding:09 No. of PhDs guided: NIL
	- Awarded	No. of PhDs guiding:09 No. of PhDs guided: NIL Annexure-4.3
5.	- Awarded PhDs guiding /guided:	No. of PhDs guided: NIL Annexure-4.3 -04 Annexure-4.4
5.	- Awarded PhDs guiding /guided: Funded consultancy work	No. of PhDs guided: NIL  Annexure-4.3  -04 Annexure-4.4  - Incentives received by faculty members of amount
	- Awarded PhDs guiding /guided:	No. of PhDs guided: NIL Annexure-4.3

7.	MOU's with industries/ R&D/ Premier Institutes	Department executed MOU's with various organizations: 05 Annexure-4,6
8.	Research centers of excellence Established	DST-FIST Lab
9.	Skill development centers established	SIEMENS center of excellence in collaboration with APSSDC and SIEMENS
V. I	nfrastructure and Learning Resources	
S.No	Criterion	Observations
1.	Infrastructural facilities to improve the	Observations No. of class rooms: 12
	teaching learning process	No. of tutorial rooms:03
	Class rooms:	No. of laboratories:05
	Laboratories:	No. of e-Class rooms:02
	e- class rooms:	No. of seminar halls:01
	Seminar halls:	No. of faculty rooms: 20
	Faculty rooms:	140. Of faculty fooms, 20
2.	Internet facilities for faculty & Students:	Wi-Fi enabled campus
3.	Technical & administrative staff support	07 members of Lab Technician for supporting various Laboratories in addition to 08 members for supporting administrative activities.  Annexure-5.1 (list of technicians and administrative staff with qualifications and experience)
4.	Department budget	Amount sanctioned in Rs:
	- Sanctioned amount	Amount spent in Rs:
	- Amount spent	New equipment added worth Rs: 00.00
	- New equipment added	Equipment and maintenance registers are maintained
	- Maintenance of equipment and	for all the Labs: Yes
	consumables registers in labs	Annexure-5.2
5.	Details of computing facilities and software	Total number of Computers: 232 List of Software procured: NIL
6.	Don't Name Letter /	
	Dept News letter / magazine	Department half-yearly Newsletter is in place Annexure-5.3
7.	Department level library resources	Number of Titles: 189
		Number of Volumes: 291
		Number of Books: 163
		Number of Journals: 31
		Number of E-Journals:05
VIC	tudent information Comment and Ducquest	
S.No	tudent information, Support and Progressi Criterion	Observations
1,	Add-on courses:	List of add-on courses: 03
1,	Add-on codises,	Annexure-6.1
2.	Student publications:	No. of student publications: 43
	Dept. student clubs:	No. of club activities for students: Nil
	The second secon	Achievements: 08
		Annexure-6.2
3.	Details of coaching provided for GATE/ GRE/CRT/any other competitive exams	No. of CRT classes:100

4.	Industrial visits and internships	-Students visited companies for internships.  Annexure-6.3
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.	MoUs with premier Institutions for knowledge exchange	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:	-Nil
6.	Risk evaluation/safety measures:	Maintaining Fire extinguishers at prominent places

## VIII Strengths, Weaknesses and Areas of Improvement

### Strengths:

- · our institute has Mou's with leading tech companies regarding internships, workshops and compus placements.
- · Regular engagement with industry professionals keeps students updated on trends by conducting Quest Lectures and worthshops.
- \* our departments emphasize is on research in emerging areas, contributing to pakents and publications.
  - . There are no enough financed projects in the department
  - · Lact of grants or resources for significant research in smaller institutions.
- , no promotion of student start-ups, incubations and entrepreneurship cells. Suggestions for improvement:
  - . Quality of Research projects and consultancy has to be improved.
  - · focus on practical learning, increase project based learning.

    Privest in modern labs, cloud platforms etc.
  - · Faculty training, provide faculty with training programs on the latest Technologies.

Sig. of Department Coordinator

Sig. of Academic Auditors 1.

Bund.

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