INTERNAL QUALITY ASSURANCE CELL

ADITYA INSTITUTE OF TECHNOLOGY AND MANAGEMENT- TEKKALI ACADEMIC AUDIT REPORT

Name of the Department: COMPUTER SCIENCE AND ENGINEERING

Academic Year : 2022-23 I- Semester (July-22 to Dec-22)

Date of Audit : 25-01-2023

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	30% (6/20) – AR18 28% (17.5/62.5) – 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 $40\% (8/20) - AR18$ open elective + core elective courses $27.90\% (6/21.5) - AR20$
II. F	aculty information and their contribut	ion
S.		
	Criterion	Observations
No 1.		
No 1. 2.	Criterion Student Teacher ratio	Observations STR - 19.90
No 1. 2. 3.	Criterion Student Teacher ratio Faculty Cadre ratio	Observations STR - 19.90 FCR - 3: 9: 29 -07 out of 33 faculty members are doctorates, -08 registered for Ph.D and 02 submitted and -rest of the faculty members are post graduates Annexure-2.1 (list of faculty, qualifications, total
No 1.	Criterion Student Teacher ratio Faculty Cadre ratio Faculty qualifications	Observations STR - 19.90 FCR - 3: 9: 29 -07 out of 33 faculty members are doctorates, -08 registered for Ph.D and 02 submitted and -rest of the faculty members are post graduates

-Faculty contributions

-CSI,ISTE

	Faculty as resource persons in workshops / training activities	-Nil
	organized -Conferences: -Workshops/ Seminars: -FDPs:	Number of events organized: -Conferences: Nil -Workshops/ Seminars: Nil -FDPs: 02 -Guest Lectures/Seminars organized: 05
9.	List of conferences/seminars/ workshops/ FDP's/ any exclusive programs attended for enrichment of teaching - learning process	Conformaca attandad. 04

S.No	eaching-Learning Process and Evaluation Criterion	
1.		Observations
1.	Student performance indicesAttendance	Lists of students for Detention and Condination are
	-Exams	maintained.
	-LXdills	Results analysis is carried out.
2.	Mechanism and activities for slow	Annexure-3.1
	learners improvement	Slow learners are identified based on performance in
	learners improvement	Mid-exams.
3.	Student courseling /www.	Conducted Make-up classes for slow learners.
3.	Student counseling /mentoring mechanism	27 students are allotted to each faculty member to
	mechanism	mentor for continuous improvement.
4.	Initiatives tales for in the initiative to the i	Annexure-3.2 (Allotment and sample file scanned)
	Initiatives taken for innovative projects	-Nil
5.	Review & Evaluation of Student Projects:	Project review and evaluation is carried out as per
	- Best projects	PRC guidelines.
		Best projects are identified based on PRO
		recommendations.
6.	Monitoring of Teaching-Learning Process	- Attendance registers are verified once in a month
	- Observation of teaching process in	- Compliance of teaching diary with lesson plan is
	classrooms as per schedule	monitored once in a month.
	- Tracking of syllabus coverage	- Track sheets are maintained to review syllabus
	- Uploading of lecture notes, question	coverage
	papers of mid and semester end	- uploading of course material, mid and semester
	examinations in e-learning portal	end question papers in e-Learning Portal - All Mid answer scripts are verified
	- Verification of evaluated answer	- Mid question papers as per cognitive levels are
		verified.
	papers	- PPT's, NPTEL video lectures are used,
	- Checking the quality of mid	- Course files are there for all courses.
	examination question papers	Annexure-3.3 (Sample lesson plan, teaching diary
	- Innovative teaching methods	sample scanned copy of attendance register with
	presented	signs of faculty member, HoD and Principa
	- Verification of course files	syllabus coverage and number of classes track shee
	-Minutes of class committee meetings and	minutes of class committee meetings)
	action taken	innates of class committee meetings)

		Training programs conducted for	No. of guest lectures: 05
		students	No. of Add-on courses: 06
		- Guest lectures	No. of Seminars/workshops: Nil
7		- Add-on courses	
		- Seminars/workshops	No major deviations are observed in the compliance
		- Compliance of department	of department academic calendar.
		academic calendar	Annexure-3.4 / 2, 4
	8.	MoUs with Industries for internship	No. of MoUs: 07
			Annexure-3.5
	9.	Students feedback and follow-up action	Online feedback is taken from the students for all courses and review is carried out.
1	10.	Scope for Self-learning	Monetary encouragement for certification courses
1		- Certificate courses	-NPTEL
1		- Online courses	-Online courses
1	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
		and the same of th	conducted for students with backlogs
			Annexure-3.6 (Result analysis for all the 8
9		Telescon & unity (Stration said topped	semesters and details of remedial classes)
1	12.	Placements (%):	Placements (%): 64.28% (135/210)
	12.	Industries / organizations:	Total 135 No. of students got selected in various
		midustries / organizations.	companies
			Annexure-3.7
1	13.	Higher studies (%):	1.42% (3/210)
	15.	Institutions:	Annexure-3.8
		mstitutions.	
	14.	Student development Activities:	No. of technical events in association with student
		- co-curricular	chapters: Nil
		- extra-curricular activities	No. of NSS Activities: 13
		· · · · · · · · · · · · · · · · · · ·	No. of Innovations and Startups: Nil
			Annexure-3.9
		Research, Consultancy and Extension	
	S.No	Criterion	Observations
	1.	Faculty publications in journals:	No. in peer reviewed journals: 03
		Peer reviewed Journals:	No. in Scopus/SCI indexed journals: 09
		Thomson Reuters Impact factor Journals:	Annexure-4.1
	2.	Publications in conferences:	No. in Conference publications: 04
		- National	Annexure-4.2 / 2.5
		- International	
	3.	Percentage of faculty contributing in	Percentage of faculty involved in research
		- Research publications:	publications: 60.60% (20/33)
	4.	PhDs	No. registered :08
		- Registered	No. submitted: 02
		- Submitted	No. awarded :Nil
		- Awarded	Annexure-4.3
		PhDs guiding /guided:	No. of PhDs guiding :02
139			No. of PhDs guided: NIL
			Annexure-4.4
	5.	Funded consultancy work	-Nil
1	6.	Incentives for faculty R&D	- Incentives received by 18 faculty members of
			amount Rs: 47500/-
18		A STATE OF THE STA	Annexure-4.5
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	MOU's with industries/ R&D/ Premier Institutes	Department executed MOU's with 07 organization
8.	Research centers of excellence	Annexure-4.6 / 3.5
0.	Established	DST-FIST Lab
9.	Skill development centers established	SIEMENS center of excellence in collaboration wit APSSDC and SIEMENS
V. Inf	rastructure and I	
	rastructure and Learning Resources	
5.No 1.	Criterion	Observations
1.	Infrastructural facilities to improve the teaching learning process Class rooms: Laboratories: e- class rooms: Seminar halls: Faculty rooms:	No. of class rooms: 12 No. of tutorial rooms:03 No. of laboratories:05 No. of e-Class rooms:02 No. of seminar halls:01 No. of faculty rooms: 20
2.	Internet facilities for faculty & Students:	Wi-Fi enabled campus
3.	Technical & administrative staff support	04 members of Lab Technician for supporting various Laboratories in addition to 10 members for supporting administrative activities Annexure-5.1 (list of technicians and administrative staff with qualifications and experience)
4.	Department budget - Sanctioned amount - Amount spent - New equipment added - Maintenance of equipment and consumables registers in labs	Amount sanctioned in Rs: 29675000.00 Amount spent in Rs: 29287438.00 New equipment added worth Rs: 00.00 Equipment and maintenance registers are maintained for all the Labs: Yes Annexure-5.2
5.	Details of computing facilities and software	Total number of Computers: 260 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
4		
VI. St	udent information, Support and Progression	on the second se
S.No	Criterion	Observations
1.		List of add-on courses: 06 Annexure-6.1 / 3, 4
2.	Dept. student clubs:	No. of student publications: Nil No. of club activities for students: 07 Annexure-6.2
3.	Details of coaching provided for GATE/GRE/CRT/any other competitive exams	No. of CRT classes:100
4.		-Students visited 15 companies for internships. Annexure-6.3

No	Governance, Leadership and Management Criterion	Observations
	for skill development programs	No. of teaching staff: Nil No. of Non-Teaching staff: Nil
	knowledge exchange	No. of MoUs: Nil
	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
1.	Staff and student attendance monitoring system -Biometric -Attendance registers	Generation of Daily, Weekly and Monthly attendance reports
	qualification/skill up- gradation:	r-Nil
j.	Risk evaluation/safety measures:	Maintaining Fire extinguishers at prominent pla

VIII Strengths, Weaknesses and Areas of Improvement

Strengths:

· Faculty retention is high. Faculty members acted as conference Session Chair. High quality faculty having expertise in Modern CS fields.

· Strong research potential with high quality research, relatively good faculty Hembers in sesearch, active faculty publication activities.

· A good network of alumni who contribute to the department and Mentor Current Students.

- · No Students pasticipated in international Conferences and workshops.
- · Research funding is very weak and there is no funding consulting work.
- · only few faculty funding projects are applied.

Suggestions for improvements

- · Initiate more good publications by the students Scopus and SCI.
- · Initiate activities between faculty, Students and industry expects.
- · Initiate more Seminars and Conferences at international level.

Sig. of Department Coordinator

Sig. of Academic Auditors 1

Sig. of HOP institute of Technology & Management Tekkali-532 201, (A.P.)

Sig. of IQAC Coordinator:

COORDINATOR, IQAG . Aditya Institute of Technology and Management TEKKALI-532 201

INTERNAL QUALITY ASSURANCE CELL

ADITYA INSTITUTE OF TECHNOLOGY AND MANAGEMENT- TEKKALI ACADEMIC AUDIT REPORT

Name of the Department: COMPUTER SCIENCE AND ENGINEERING

Academic Year : 2022-23 II- Semester (Jan-23 to June-23)

Date of Audit : 20-07-2023

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.
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	58.62% (8.5/14.5) – AR18 30.4% (19/62.5) – 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 41.37% (6/14.5) – AR18 open elective + core elective courses 20.93% (9/43) – AR20

II. Faculty information and their contribution

S. No	Criterion	Observations
1.	Student Teacher ratio	STR - 19.90
2.	Faculty Cadre ratio	FCR - 3: 9: 29
3.	Faculty qualifications	-07 out of 33 faculty members are doctorates, -08 registered for Ph.D and 02 submitted 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.	Faculty contribution in writing: - Books: - Book chapters:	-Books: 02 -Book chapters: Nil Annexure-2.2
6.	Faculty in professional bodies -Faculty contributions	Annexure-2.3 (Memberships and activities) -CSI,ISTE

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: Nil -FDPs: Nil -Guest Lectures/Seminars organized: 02 Annexure-2.4 / 3,5
9.	FDP's/ any exclusive programs attended	-faculty members attended: 31 Conferences attended: 05 Annexure-2.5
III.	Teaching-Learning Process and Evaluatio	n
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	-Nil
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 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 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

<i>[.</i>]	Training programs conducted for	No. of guest lectures: 02
	students	No. of Add-on courses: 06
	- 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-3.5 / 2,14
8.	MoUs with Industries for internship	No. of MoUs: 07
		Annexure-3.6
9.	Students feedback and follow-up action	Online feedback is taken from the students for all
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10.	Scope for Self-learning	Monetary encouragement for certification courses
	- Certificate courses	-NPTEL
11.	- 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
		semesters and details of remedial classes)
12.	Placements (%):	Placements (%): 64.28% (135/210)
	Industries / organizations:	Total 135 No. of students got selected in various
		companies
10		Annexure-3.8
13.	Higher studies (%):	1.42% (3/210)
1 1000	Institutions:	Annexure-3.9
14.	Student development Activities:	No. of technical events in association with student
1000	- co-curricular	chapters: Nil
	- extra-curricular activities	No. of NSS Activities: 10
		No. of Innovations and Startups: Nil
1		Annexure-3.10
IX	Research, Consultancy and Extension	
S.No	Criterion	Observations
1.	Faculty publications in journals:	No. in peer reviewed journals: 13
1.	Peer reviewed Journals:	No. in Scopus/SCI indexed journals: 10
	Thomson Reuters Impact factor Journals:	Annexure-4.1
2.	Publications in conferences:	No. in Conference publications: 05
2.	- National	Annexure-4.2 / 2.5
	- International	Ammeaure 4.2 / Or
3.	Percentage of faculty contributing in	Percentage of faculty involved in research
3.	- Research publications:	publications: 60.60% (20/33)
4.	PhDs	No. registered: 08
	- Registered	No. submitted: 01
	- Submitted	No. awarded :01
	- Awarded	Annexure-4.3
	PhDs guiding /guided:	No. of PhDs guiding:02
	This guiding / guided.	No. of PhDs guided: NIL
	THE RESERVE OF THE PARTY OF THE	Annexure-4.4
5.	Funded consultancy work	-Nil
6.	Incentives for faculty R&D	
0.	meetitives for faculty R&D	- Incentives received by 18 faculty members of
		amount Rs: 47500/-
	M COMPANY OF THE PROPERTY OF T	Annexure-4.5

	MOU's with industries/ R&D/ Premier Institutes	Department executed MOU's with 07 organizations
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		
1.	Criterion Infrastructural facilities	Observations
1.	Infrastructural facilities to improve the teaching learning process Class rooms: Laboratories: e- class rooms: Seminar halls: Faculty rooms:	No. of class rooms: 12 No. of tutorial rooms:03 No. of laboratories:05 No. of e-Class rooms:02 No. of seminar halls:01 No. of faculty rooms: 20
2.	Internet facilities for faculty & Students:	Wi-Fi enabled campus
3.	Technical & administrative staff support	04 members of Lab Technician for supporting various Laboratories in addition to 10 members for supporting administrative activities Annexure-5.1 (list of technicians and administrative staff with qualifications and experience)
4.	Department budget - Sanctioned amount - Amount spent - New equipment added - Maintenance of equipment and consumables registers in labs	Amount sanctioned in Rs: 29675000.00 Amount spent in Rs: 29287438.00 New equipment added worth Rs: 00.00 Equipment and maintenance registers are maintained for all the Labs: Yes Annexure-5.2
5.	Details of computing facilities and software	Total number of Computers: 260 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
15/1/15		
VI. St	tudent information, Support and Progression	on
S.No	Criterion	Observations
1.	Add-on courses:	List of add-on courses: 06 Annexure-6.1 / 3,5
2.	Student publications: Dept. student clubs:	No. of student publications: Nil No. of club activities for students: 02 Annexure-6.2
3.	Details of coaching provided for GATE/GRE/CRT/any other competitive exams	No. of CRT classes:100
4.		-Students visited 15 companies for internships. Annexure-6.3

5. No	Governance, Leadership and Management 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 fo knowledge exchange	rNo. 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 fo qualification/skill up- gradation:	r-Nil
6.	Risk evaluation/safety measures:	Maintaining Fire extinguishers at prominent places

VIII Strengths, Weaknesses and Areas of Improvement

Strengths:

· Modern labs and equipment to support practical and research activities. Equipped with high configuration systems.

· A commitment to continuous improvement through regular feedback and program updates.

· Workshops, Seminars, and courses aimed at enhancing profesional skills.

Weaknesses:

- · Student publications in Scopus and SCI are very weak.
- · Students who not involved in good research and developments.
- · No good number of books and book chapters writing by the faculty.

Suggestions for improvement:

- · Initiate faculty to write good number of books and book chapters.
- · Develop more national/state level grant proposals and increase/ establish funds.

· Need to involve more under graduate/graduate students in sesearch.

Sig. of Department Coordinator:

Sig. of Academic Auditors 1. WWY9d.

Technology & Management Tekkali-532 201, (A.P.)

Sig. of IQAC Coordinator:

COORDINATOR, IQAC Aditya Institute of Technology and Management TEKKALI-532 201