

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

ACADEMIC AUDIT REPORT

Name of the Department: **COMPUTER SCIENCE AND ENGINEERING(Data Science)**

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

Date of Audit : 25-01-2023

I. COs, 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 changes evidences)
4.	Percentage of lab component	21.9%(9/41) – AR20 Annexure-1.2 (course structure) -Three additional experiments are conducted in all Labs
5.	Evidence of academic flexibility	Nil
II. Faculty information and their contribution		
S. No	Criterion	Observations
1.	Student Teacher ratio	
2.	Faculty Cadre ratio	FCR - 00: 02 : 04
3.	Faculty qualifications	2 out of 6 faculty members are doctorates, 00 submitted their thesis, 02 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.	Faculty contribution in writing: - Books: - Book chapters:	Nil
6.	Faculty in professional bodies -Faculty contributions	1 Annexure-2.2 (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:1	Number of events organized:Nil Number of FDPs/Guest Lectures/Seminars organized:1 Annexure-2.3
9.	List of conferences/seminars/ workshops/ FDP's/ any exclusive programs attended for enrichment of teaching - learning process	1 faculty member attended Annexure-2.4

III. Teaching-Learning Process and Evaluation

S.No	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.
3.	Student counseling /mentoring mechanism	24 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	Nil
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 and 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-3.3 (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, minutes of class committee meetings)

7.	Training programs conducted for students - Guest lectures - Add-on courses - Seminars/workshops - Compliance of department academic calendar	No. of guest lectures : 03 No. of Add-on courses: Nil No. of Seminars/workshops :Nil No major deviations are observed in the compliance of department academic calendar. Annexure-3.4
8.	MoUs with Industries for internship	Nil
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-3.5 (Result analysis for all the 8 semesters and details of remedial classes)
12.	Placements (%): Industries / organizations:	Nil
13.	Higher studies (%): Institutions:	Nil
14.	Student development Activities: - co-curricular - extra-curricular activities	No. of technical events in association with student chapters: No. of NSS Activities: 05 No. of Innovations and Startups: Nil Annexure-3.6

IV. 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:Nil No. in Scopus/SCI indexed journals:1 Annexure-4.1
2.	Publications in conferences: - National - International	No. in Conference publications :2 Annexure-4.2
3.	Percentage of faculty contributing in - Research publications:	Percentage of faculty involved in research publications: 16.3% (1/6)
4.	PhDs - Registered - Submitted - Awarded	No. registered : Nil No. submitted: Nil No. awarded : Nil
	PhDs guiding /guided:	No. of PhDs guiding: Nil No. of PhDs guided: Nil

5.	Funded consultancy work	Nil
6.	Incentives for faculty R&D	Nil
7.	MOU's with industries/ R&D/ Premier Institutes	Nil
8.	Research centers of excellence Established	Nil
9.	Skill development centers established	APSSDC

V. Infrastructure and Learning Resources

S.No	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: 05 No. of tutorial rooms:00 No. of laboratories:02 No. of e-Class rooms:00 No. of seminar halls:01 No. of faculty rooms: 05
2.	Internet facilities for faculty & Students:	Wi-Fi enabled campus
3.	Technical & administrative staff support	Nil
4.	Department budget - Sanctioned amount - Amount spent - New equipment added - Maintenance of equipment and consumables registers in labs	Amount sanctioned in Rs. : 2500000 Amount spent in Rs. : 2431816 New equipment added worth Rs: 96364 Equipment and maintenance registers are maintained for all the Labs: Yes
5.	Details of computing facilities and software	Total number of Computers: 60 List of Software procured: Nil
6.	Dept News letter / magazine	Department half-yearly Newsletter is in place Annexure-5.1
7.	Department level library resources	Number of Titles:Nil Number of Volumes: Nil Number of Journals:Nil Number of E-Journal:Nil Number of Video courses: NIL

VI. Student information, Support and Progression

S.No	Criterion	Observations
1.	Add-on courses:	List of add-on courses: Nil

2.	Student publications: NIL Dept. student clubs: Nil	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 CRT classes: 30
4.	Industrial visits and internships	NIL

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	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 qualification/skill up- gradation: for	Nil
6.	Risk evaluation/safety measures:	Maintaining Fire extinguishers at prominent places

VIII Strengths, Weaknesses and Areas of Improvement

Strengths:

1. Strong infrastructure offer students and researches the tools they need to Explore advanced technologies.
2. provide a diverse range of fundamental and Advanced concepts like AI, ML, Data Science.
3. students receive Academic Awards, scholarships to recognize their Academic Excellence.

Weaknesses:

1. No state and National level grant proposals.
2. Lack of technical support outside of CS labs, tutoring and Collaboration.
3. No Modern Laboratories for new innovation and implement new ideas.

Suggestions for improvement:

1. Encourage the faculty to implement the methodologies for innovation teaching and Evaluation methods.
2. Encourage the collaboration and good communication among faculty member for better Research.

Sig. of Department Coordinator

Sig. of Academic Auditors

- 1.
- 2.

Sig. of HOD
Head, Dept. of CSM & CSD
Aditya Institute of
Technology & Management
Tekkali-532 201, (A.P)

Sig. of IOAC Coordinator
COORDINATOR, IOAC
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(Data Science)**

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

Date of Audit : 20-07-2023

I. COs, 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 changes evidences)
4.	Percentage of lab component	29.2%(12/41) – AR20 Annexure-1.2 (course structure) -Two additional experiments are conducted in all Labs
5.	Evidence of academic flexibility	1 Interdisciplinary Elective –AR20 0.73%(3/41)
II. Faculty information and their contribution		
S. No	Criterion	Observations
1.	Student Teacher ratio	19.4
2.	Faculty Cadre ratio	FCR - 00:02 : 04
3.	Faculty qualifications	2 out of 6 faculty members are doctorates, 0 submitted their thesis, 2 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.	Faculty contribution in writing: - Books: - Book chapters:	Nil
6.	Faculty in professional bodies -Faculty contributions	Annexure-2.2 (Memberships and activities)

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

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3.	Student counseling /mentoring mechanism	24 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	Nil
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 and 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-3.3 (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, minutes of class committee meetings)

7.	Training programs conducted for students - Guest lectures - Add-on courses - Seminars/workshops - Compliance of department academic calendar	No. of guest lectures : 3 No. of Add-on courses: Nil No. of Seminars/workshops :1 No major deviations are observed in the compliance of department academic calendar. Annexure-3.4
8.	MoUs with Industries for internship	Nil
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-3.5 (Result analysis for all the 8 semesters and details of remedial classes)
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13.	Higher studies (%): Institutions:	Nil
14.	Student development Activities: - co-curricular - extra-curricular activities	No. of technical events in association with student chapters: No. of NSS Activities: 00 No. of Innovations and Startups: Nil

IV. Research, Consultancy and Extension

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1.	Faculty publications in journals: Peer reviewed Journals: Thomson Reuters Impact factor Journals:	No. in peer reviewed journals:Nil No. in Scopus/SCI indexed journals:Nil
2.	Publications in conferences: - National - International	No. in Conference publications :Nil
3.	Percentage of faculty contributing in - Research publications:	Percentage of faculty involved in research publications: Nil
4.	PhDs - Registered - Submitted - Awarded	No. registered : Nil No. submitted: Nil No. awarded : Nil
	PhDs guiding /guided:	No. of PhDs guiding :Nil No. of PhDs guided: Nil

5.	Funded consultancy work	Nil
6.	Incentives for faculty R&D	Nil
7.	MOU's with industries/ R&D/ Premier Institutes	Nil
8.	Research centers of excellence Established	NIL
9.	Skill development centers established	APSSDC

V. Infrastructure and Learning Resources

S.No	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: 04 No. of tutorial rooms:01 No. of laboratories:02 No. of e-Class rooms:00 No. of seminar halls:01 No. of faculty rooms: 4
2.	Internet facilities for faculty & Students:	Wi-Fi enabled campus
3.	Technical & administrative staff support	Nil
4.	Department budget - Sanctioned amount - Amount spent - New equipment added - Maintenance of equipment and consumables registers in labs	Amount sanctioned in Rs. 2500000 Amount spent in Rs.2431816 New equipment added worth Rs.96364 Equipment and maintenance registers are maintained for all the Labs: Yes
5.	Details of computing facilities and software	Total number of Computers: 60 List of Software procured: Nil
6.	Dept News letter / magazine	Department half-yearly Newsletter is in place Annexure-5.1
7.	Department level library resources	Number of Titles: Nil Number of Volumes:Nil Number of Journals: Nil Number of E-Journal:Nil Number of Video courses: NIL

VI. Student information, Support and Progression

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3.	Details of coaching provided for GATE/ GRE/CRT/any other competitive exams	No. of CRT classes:30
4.	Industrial visits and internships	NIL

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	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 qualification/skill up- gradation: for	Nil
6.	Risk evaluation/safety measures:	Maintaining Fire extinguishers at prominent places

VIII Strengths, Weaknesses and Areas of Improvement

Strengths:

1. offers various hands-on-learning opportunities such as research projects, coding competitions.
2. Lab facilities equipped with specialized Hardware and software allow students to test Algorithms, models in AI and ML
3. Implemented Advanced courses for students.

Weaknesses:

1. Need to involve more graduate students in research.
2. No space for teaching support, student's research and technical support.
3. lack of technical support outside of CS labs, tutoring and collaboration.

Suggestions for improvement:

1. encourage faculty to strong research potential with proven records & high quality research.
2. encourage faculty to write books & book chapters.

Sig. of Department Coordinator

Sig. of Academic Auditors

1.

2.

Handwritten:
Head of CSM & CSD
Aditya Institute of
Technology & Management
Tekkali-532 201, (A.P)

Handwritten:
Sig. of IQAC Coordinator
COORDINATOR, IQAC
Aditya Institute of Technology and Management
TEKKALI-532 201