

# INTERNAL QUALITY ASSURANCE CELL

## ADITYA INSTITUTE OF TECHNOLOGY AND MANAGEMENT – TEKKALI

### ACADEMIC AUDIT REPORT

Name of the Department : Information Technology

Academic Year : 2021-2022

Semester : I

Date of Audit : 20-01-2022

#### I. COs, POs, and Curriculum

S. No	Criterion	Observations
1.1	COs and POs assessment	COs and POs attainment calculated as per the procedure established by PAC
1.2	Stakeholders feedback related to curriculum design	Survey details will be updated in the 2 <sup>nd</sup> semester reports
1.3	Action taken on minutes of BOS	<b>Annexure-1.1</b> - BOS Minutes and Curriculum changes evidence.  Incorporated changes as per the suggestions of BOS, DAC, and PAC.
1.4	Percentage of lab component	<b>Annexure-1.2</b> – AR 18 Lab Components 20.94%(33.5/160 Credits)– AR-18  <b>Annexure-1.3</b> – AR 20 Lab Components 28.44%(45.5/160 Credits)– AR-20 Two additional experiments are conducted in all Labs
1.5	Evidence of academic flexibility	<b>Annexure-1.4</b> – AR18 Electives 6 Professional + 4 Interdisciplinary Electives 16.25% (26/160 Credits) – AR18  <b>Annexure-1.5</b> – AR20 Electives 5 Professional + 2 Interdisciplinary + 1 Open Electives 15% (24/160 Credits) – AR20

II. Faculty Information and their contribution		
S. No	Criterion	Observations
2.1	Student Teacher Ratio	Annexure-2.1 – Students Roll list and STR details. No. of Students enrolled - 252 Total Faculty - 15 Student Teacher Ratio – 1:17
2.2	Faculty Cadre Ratio	Annexure-2.2 – Faculty Cadre details Professors: 3 Associate Professors: 1 Assistant Professors: 11 FCR – 3:1:11
2.3	Faculty Qualifications	Annexure-2.3 – Faculty Qualification Details Total Faculty: 15 Doctorates: 5 Postgraduates: 10
2.4	Faculty Experience and Retention	Annexure-2.4 – Faculty Experience Details (list of faculties, qualifications, total experience, experience at AJTAM)
2.5	Faculty Contribution in Writing: <ul style="list-style-type: none"> <li>Books</li> <li>Book Chapters</li> </ul>	Annexure-2.5 – Books and Book Chapter Details
2.6	Faculty in Professional Bodies <ul style="list-style-type: none"> <li>Faculty Contributions</li> </ul>	Annexure-2.6 - Memberships Details
2.7	Faculty as resource person in workshops / training activities	Nil
2.8	International / National level Events Organized <ul style="list-style-type: none"> <li>Conferences</li> <li>Workshops / Seminars</li> <li>FDP's</li> </ul>	Annexure-2.7 – Events Organized Details
2.9	List of conferences / seminars / workshops / FDP's / any exclusive programs attended for enrichment of teaching – learning process	Annexure-2.8 – Events Attended Details

III. Teaching – Learning Process and Evaluation		
S. No	Criterion	Observations
3.1	Student Performance Indices <ul style="list-style-type: none"> <li>Attendance</li> <li>Exams</li> </ul>	Annexure-3.1 – Detained Students list  Annexure-3.2 – Condonation Students List  Annexure-3.3 – Results Details  List of students for Detention and Condonation are maintained. And Result analysis is carried out.
3.2	Mechanism and Activities for slow learners' improvement	Annexure-3.4 – Make-up classes Slow learners are identified based on performance in Mid-exams. Conducted Make-up classes for slow learners.



3.3	Student counseling / mentoring mechanism	<b>Annexure-3.5 – Counselling Allotment List</b> Maximum 20 students are allotted to each faculty member to mentor for continuous improvement. Allotment and Sample scanned file
3.4	Initiatives taken for innovative projects	Projects details will be updated in 2 <sup>nd</sup> semester report
3.5	Review and Evaluation of student projects • Best projects	Projects details will be updated in 2 <sup>nd</sup> semester report
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 • Check the quality of mid examination question papers. • Innovative teaching methods presented. • Verification of Course files • Minutes of class committee meetings and action taken	<b>Annexure-3.6:</b> (Scanned copy of Attendance Register) • Attendance registers are verified once in a month. • Compliance of teaching diary with lesson plan is monitored once in a month. • Trach sheets are maintained to review syllabus coverage. • Uploading of course materials, mid and semester end paper questions 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.
3.7	Training programs conducted for students. • Guest Lectures • Add-on Courses • Seminars / Workshops • Compliance of department academic calendar	<b>Annexure-3.7:</b> Guest Lectures Details  <b>Annexure-3.8:</b> Value Added Courses Details  No major deviations are observed in the compliance of department academic calendar.
3.8	MoUs with Industries for Internship	<b>Annexure-3.9:</b> Internship MOU's list
3.9	Students feedback and follow-up action	<b>Annexure-3.10:</b> Student Feedback Analysis details Online feedback is taken from the students for all courses and review is carried out.
3.10	Scope for Self-learning • Certificate Courses • Online Courses	Nil
3.11	Result analysis and conduct of remedial classes for students with backlogs	<b>Annexure-3.11:</b> Remedial Classes Details Result analysis is carried out after the results of Semester end examinations and remedial classes are conducted for students with backlogs.
3.12	Placements (%): Industries / Organizations	Placement Details will be updated in the 2 <sup>nd</sup> Semester report
3.13	Higher Studies (%): Institutions	Higher Studies Details will be updated in the 2 <sup>nd</sup> Semester report.
3.14	Student Development activities: • Co-curricular • Extra-curricular activities	NSS Details will be updated in the 2 <sup>nd</sup> Semester report



#### IV. Research, Consultancy and Evaluation

S. No	Criterion	Observations
4.1	Faculty Publications in Journals <ul style="list-style-type: none"> <li>• Peer reviewed journals</li> <li>• Thomson Reuters Impact factor Journals</li> </ul>	Annexure-4.1: Journal Publication Details
4.2	Publications in conferences <ul style="list-style-type: none"> <li>• National</li> <li>• International</li> </ul>	Annexure-4.2: Conference Publication Details
4.3	Percentage of Faculty contributing to Research publications	Percentage of faculty involved in research publications: 65%
4.4	PhD's <ul style="list-style-type: none"> <li>• Registered</li> <li>• Submitted</li> <li>• Awarded</li> </ul>	No. of registered: No. of Submitted: No. of Awarded:
4.5	PhD's guiding / guided	No. of PhD's Guiding: No. of PhD's Guided:
4.6	Funded R&D Projects and Consultancy work	Consultancy Details will be updated in the 2 <sup>nd</sup> Semester report
4.7	Incentives for faculty R&D	Annexure-4.3: Incentive Details Incentives for faculty research publications as per HR policy
4.8	MOUs with industries / R&D / Premier Institutes	Annexure-4.4: MOU's with Institutes Details
4.9	Research centers of excellence established	
4.10	Skill Development centers established	APSSDC is available in the college.

#### V. Infrastructure and Learning Resources

S. No	Criterion	Observations
5.1	Infrastructural facilities to improve the teaching learning process. <ul style="list-style-type: none"> <li>• Classrooms</li> <li>• Laboratories</li> <li>• E-Classrooms</li> <li>• Seminar Halls</li> <li>• Faculty Rooms</li> </ul>	No. of classrooms: 4 No. of tutorial rooms: 1 No. of laboratories: 3 No. of e-Class rooms: 1 No. of seminar halls: 1 No. of faculty rooms: 6
5.2	Internet facility for faculty & students	Wi-Fi enabled campus
5.3	Technical & Administrative staff support	Annexure-5.1 (list of technicians and administrative staff with qualifications and experience)
5.4	Department Budget <ul style="list-style-type: none"> <li>• Sanctioned Amount</li> <li>• Amount Spent</li> <li>• New equipment added</li> <li>• Maintenance of equipment and consumables registers in labs</li> </ul>	
5.5	Details of computing facilities and software	Total number of Computers: 125 List of Software procured: NIL
5.6	Department Newsletter / Magazine	Annexure-5.2: News Letters

5.7	Department level library resources	<b>Annexure-5.3: Books Details</b> Number of Titles:161 Number of Volumes:202 Number of Journals: NIL Number of E-Journals :NIL Number of Video courses: NIL
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VI. Student Information, Support and Progression		
S. No	Criterion	Observations
6.1	Add-on Courses	<b>Annexure-6.1</b> List of add-on courses
6.2	Student Publications Department Student Clubs	No. of student publications: Nil No. of club activities for students: Nil
6.3	Details of coaching provided for GATE / GRE / CRT / any other competitive exams	No. of GATE classes: Nil No. of CRT classes: Nil
6.4	Industrial Visits and Internships	<b>Annexure-6.2:</b> Internship Summary Details

VII. Governance, Leadership and Management		
S. No	Criterion	Observations
7.1	Teaching and Non-Teaching Staff attended for skill development programs	No. of teaching staff:Nil No. of Non-Teaching staff:Nil
7.2	MoUs with premier Institutions for knowledge exchange	<b>Annexure-7.1</b> MOU Details
7.3	Display of Vision, Mission and other Quality objectives and prominent places	Display of Vision: Yes Display of Mission: Yes Display of PEOs, POs, PSOs and COs: Yes
7.4	Staff and Student attendance monitoring system <ul style="list-style-type: none"> <li>• Biometric</li> <li>• Attendance registers</li> </ul>	Generation of Daily, Weekly and Monthly attendance reports
7.5	Financial Support / Leaves for Qualification / Skill-upgradation	<b>Annexure-7.2:</b> Incentive Details Faculty Members are sanctioned with Registration fees, TA and Academic Leave for attending Conferences and Workshops
7.6	Risk Evaluation / Safety Measures	Maintaining Fire Safety & Fire Fighting equipment and Fire extinguishers at all Blocks of the campus.



### VIII. Strengths, Weaknesses and Areas of Improvement

#### Strengths

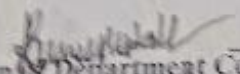
- 1) Virtual classes conducted through Google Meet
- 2) Strong internal assessment to guarantee outcome-based education through descriptive and objectives assessments.
- 3) Conducted and Attended FDP sessions on latest cutting edge technologies

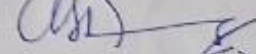
#### Weaknesses


- 1) Not many quality publications
- 2) Unable to conduct the physical mode FDP's and classes
- 3) Not many student outreach activities.

#### Suggestions for Improvement

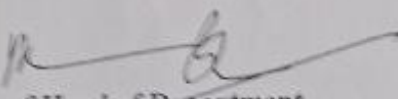
- 1) Organise entrepreneurship development programs
- 2) Including Emerging technologies like AI, Cybersecurity, and data science.
- 3) Encourage students to publish research areas.

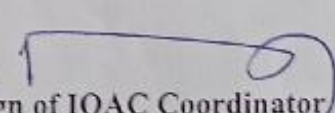
  
Sign of Department Coordinator

1. 

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Sign of Academic Auditor

  
Sign of Head of Department

  
Sign of IQAC Coordinator

COORDINATOR, IQAC  
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 : Information Technology  
 Academic Year : 2021-2022  
 Semester : II  
 Date of Audit : 12-07-2022

I. COs, POs, and Curriculum		
S. No	Criterion	Observations
1.1	COs and POs assessment	COs and POs attainment calculated as per the procedure established by PAC
1.2	Stakeholders feedback related to curriculum design	Annexure-1.1 - Graduate Exit Survey Annexure-1.2 - Alumni Survey Annexure-1.3 - Employer Survey
1.3	Action taken on minutes of BOS	Annexure-1.4 - BOS Minutes and Curriculum changes evidence.  Incorporated changes as per the suggestions of BOS, DAC, and PAC.
1.4	Percentage of lab component	Annexure-1.5 – AR 18 Lab Components 20.94%(33.5/160 Credits)– AR-18  Annexure-1.6 – AR 20 Lab Components 28.44%(45.5/160 Credits)– AR-20 Two additional experiments are conducted in all Labs
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2.7	Faculty as resource person in workshops / training activities	Nil
2.8	International / National level Events Organized • Conferences • Workshops / Seminars • FDP's	Nil
2.9	List of conferences / seminars / workshops / FDP's / any exclusive programs attended for enrichment of teaching – learning process	<b>Annexure-2.8</b> – Events Attended Details

III. Teaching – Learning Process and Evaluation		
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3.4	Initiatives taken for innovative projects	<b>Annexure-3.6 – Innovative Projects Details</b>
3.5	Review and Evaluation of student projects <ul style="list-style-type: none"> <li>• Best projects</li> </ul>	<b>Annexure-3.7 – Project Guidelines Details</b> Project Review and Evaluation is carried out as per PRC guidelines.
3.6	Monitoring of Teaching – Learning process <ul style="list-style-type: none"> <li>• Observation of teaching process in classrooms as per schedule</li> <li>• Tracking of syllabus coverage</li> <li>• Uploading of lecture notes, question papers of mid and semester end examinations in e-learning portal</li> <li>• Verification of evaluated answer papers</li> <li>• Check the quality of mid examination question papers.</li> <li>• Innovative teaching methods presented.</li> <li>• Verification of Course files</li> <li>• Minutes of class committee meetings and action taken</li> </ul>	<b>Annexure-3.8: (Scanned copy of Attendance Register)</b> <ul style="list-style-type: none"> <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>• Trach sheets are maintained to review syllabus coverage.</li> <li>• Uploading of course materials, mid and semester end paper questions 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> </ul>
3.7	Training programs conducted for students. <ul style="list-style-type: none"> <li>• Guest Lectures</li> <li>• Add-on Courses</li> <li>• Seminars / Workshops</li> <li>• Compliance of department academic calendar</li> </ul>	<b>Annexure-3.9: Guest Lectures Details</b> <b>Annexure-3.10: Value Added Courses Details</b> No major deviations are observed in the compliance of department academic calendar.
3.8	MoUs with Industries for Internship	<b>Annexure-3.11: Internship MOU's list</b>
3.9	Students feedback and follow-up action	<b>Annexure-3.12: Student Feedback Analysis details</b> Online feedback is taken from the students for all courses and review is carried out.
3.10	Scope for Self-learning <ul style="list-style-type: none"> <li>• Certificate Courses</li> <li>• Online Courses</li> </ul>	Nil
3.11	Result analysis and conduct of remedial classes for students with backlogs	<b>Annexure-3.13: Remedial Classes Details</b> Result analysis is carried out after the results of Semester end examinations and remedial classes are conducted for students with backlogs.
3.12	Placements (%): Industries / Organizations	<b>Annexure-3.14: Placements Details</b> Placements %: 88.2% Total 45 no. of students got selected in various companies.
3.13	Higher Studies (%): Institutions	<b>Annexure-3.16: Higher Studies Details</b> Higher Studies%: 2% Total 01 students joined for PG Programmes in various institutes.

3.14	Student Development activities: <ul style="list-style-type: none"> <li>• Co-curricular</li> <li>• Extra-curricular activities</li> </ul>	Annexure-3.17: NSS Activities Details
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#### IV. Research, Consultancy and Evaluation

S. No	Criterion	Observations
4.1	Faculty Publications in Journals <ul style="list-style-type: none"> <li>• Peer reviewed journals</li> <li>• Thomson Reuters Impact factor Journals</li> </ul>	Annexure-4.1: Journal Publication Details
4.2	Publications in conferences <ul style="list-style-type: none"> <li>• National</li> <li>• International</li> </ul>	Annexure-4.2: Conference Publication Details
4.3	Percentage of Faculty contributing to Research publications	Percentage of faculty involved in research publications: 65%
4.4	PhD's <ul style="list-style-type: none"> <li>• Registered</li> <li>• Submitted</li> <li>• Awarded</li> </ul>	No. of registered: No. of Submitted: No. of Awarded:
4.5	PhD's guiding / guided	No. of PhD's Guiding: No. of PhD's Guided:
4.6	Funded R&D Projects and Consultancy work	Annexure-4.3: Consultancy Works Details
4.7	Incentives for faculty R&D	Annexure-4.4: Incentive Details Incentives for faculty research publications as per HR policy
4.8	MOUs with industries / R&D / Premier Institutes	Annexure-4.5: MOU's with Institutes Details
4.9	Research centers of excellence established	Nil
4.10	Skill Development centers established	APSSDC is available in the college.

#### V. Infrastructure and Learning Resources

S. No	Criterion	Observations
5.1	Infrastructural facilities to improve the teaching learning process. <ul style="list-style-type: none"> <li>• Classrooms</li> <li>• Laboratories</li> <li>• E-Classrooms</li> <li>• Seminar Halls</li> <li>• Faculty Rooms</li> </ul>	No. of classrooms: 4 No. of tutorial rooms: 1 No. of laboratories: 3 No. of e-Class rooms: 1 No. of seminar halls: 1 No. of faculty rooms: 6
5.2	Internet facility for faculty & students	Wi-Fi enabled campus
5.3	Technical & Administrative staff support	Annexure-5.1 (list of technicians and administrative staff with qualifications and experience)
5.4	Department Budget <ul style="list-style-type: none"> <li>• Sanctioned Amount</li> <li>• Amount Spent</li> <li>• New equipment added</li> <li>• Maintenance of equipment and consumables registers in labs</li> </ul>	



5.5	Details of computing facilities and software	Total number of Computers: 125 List of Software procured: NIL
5.6	Department Newsletter / Magazine	Annexure-5.2: News Letters Annexure-5.3: Tech Magazines
5.7	Department level library resources	Annexure-5.4: Books Details Number of Titles:161 Number of Volumes:202 Number of Journals: NIL Number of E-Journals :NIL Number of Video courses: NIL

#### VI. Student Information, Support and Progression

S. No	Criterion	Observations
6.1	Add-on Courses	Annexure-6.1 List of add-on courses
6.2	Student Publications Department Student Clubs	No. of student publications: Nil No. of club activities for students: Nil
6.3	Details of coaching provided for GATE / GRE / CRT / any other competitive exams	No. of GATE classes: Nil No. of CRT classes: Nil
6.4	Industrial Visits and Internships	Annexure-6.2: Internship Summary Details

#### VII. Governance, Leadership and Management

S. No	Criterion	Observations
7.1	Teaching and Non-Teaching Staff attended for skill development programs	No. of teaching staff:Nil No. of Non-Teaching staff:Nil
7.2	MoUs with premier Institutions for knowledge exchange	Annexure-7.1 MOU Details
7.3	Display of Vision, Mission and other Quality objectives and prominent places	Display of Vision: Yes Display of Mission: Yes Display of PEOs, POs, PSOs and COs: Yes
7.4	Staff and Student attendance monitoring system <ul style="list-style-type: none"> <li>• Biometric</li> <li>• Attendance registers</li> </ul>	Generation of Daily, Weekly and Monthly attendance reports
7.5	Financial Support / Leaves for Qualification / Skill-upgradation	Annexure-7.2: Incentive Details Faculty Members are sanctioned with Registration fees, TA and Academic Leave for attending Conferences and Workshops
7.6	Risk Evaluation / Safety Measures	Maintaining Fire Safety & Fire Fighting equipment and Fire extinguishers at all Blocks of the campus.

### VIII. Strengths, Weaknesses and Areas of Improvement

#### Strengths

- 1) Industry suggested courses Advanced Coding 2 and Advanced Coding 2 has been added to AICTE regulation to revive the students' competitive programming skills.
- 2) Implementation of Community Internship to bring the social awareness to the students.
- 3) Conduction of skill oriented courses with the help of Govt. of AP related to cutting edge technologies.

#### Weaknesses

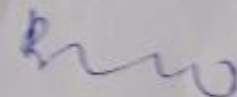
- 1) Repeated deviations from the Examination schedules due to COVID.
- 2) Online teaching doesn't guarantee the quality hands-on experience.
- 3) Lack of Entrepreneurship focus to the students' innovation activities.


#### Suggestions for Improvement

- 1) Conduction of more expert talks with alumni.
- 2) Encourage the faculty to provide guest lectures to other institutions.
- 3) Encourage the faculty to take up the NPTEL courses.

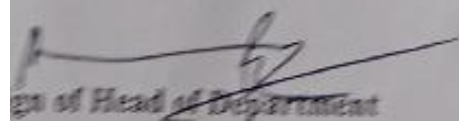


Sign of Department Coordinator

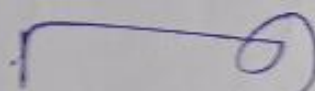
1. 

2. 

Sign of Academic Auditor



Sign of Head of Department



Sign of IQAC Coordinator

COORDINATOR, IQAC

Aditya Institute of Technology and Management  
TEKKALI-532 201