INTERNAL QUALITY ASSURANCE CELL

ADITYA INSTITUTE OF TECHNOLOGY AND MANAGEMENT- TEKKALI

ACADEMIC AUDIT REPORT

Name of the Department: **CIVIL ENGINEERING**

Academic Year : 2023-24 Semester-II

Date of Audit : 21.06.2024

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. **Annexure-1.1**
2.	Stakeholders feedback related to curriculum design	Graduate exit survey, alumni survey and Employer survey are conducted as per format. **Annexure-1.2**
3.	Action taken on minutes of BoS	Incorporated changes as per the suggestions of BoS, DAC and PAC. **Annexure-1.3.** (BoS minutes and curriculum change evidences enclosed)
4.	Percentage of lab component	53.125%(85/160) – **AR18** 67.5%(108/160) – **AR20** -Two additional experiments are conducted in all Labs
5.	Evidence of academic flexibility	5 Open Elective + 3 Core Elective Courses 11.26% (8/71) – **AR18** 4 Interdisciplinary Electives + 4 Professional Elective Courses 12.5% (8/64) – **AR20**

II. Faculty information and their contribution

S. No	Criterion	Observations
1.	Student Teacher ratio	STR – 16.48 **Annexure-2.1**
2.	Faculty Cadre ratio	FCR - 3 : 4 : 24 (26.02 Cadre ratio marks) **Annexure-2.2**
3.	Faculty qualifications	9 out of 31 faculty members are doctorates, 8 registered for Ph. D and rest of the faculty members are post graduates **Annexure-2.3**
4.	Faculty experience & retention	Retention: 100% **Annexure-2.4** (List of faculty, Qualifications, Total experience, Experience at AITAM has been
5.	Faculty contribution in writing: - Books: 04 - Book chapters: 02	06 **Annexure-2.5**
6.	Faculty in professional bodies -Faculty contributions	2 Events organized under ISTE chapter at AITAM. **Annexure-2.6**

7.	Faculty as resource persons in workshops / training activities	one Annexure-2.7
8.	International / National level events organized -Conferences: -Workshops/ Seminars: -FDPs:1	Number of events organized: 1 Number of FDPs/Guest Lectures/Seminars organized: One Annexure-2.8
9.	List of conferences/seminars/ workshops/ FDP's/ any exclusive programs attended for enrichment of teaching - learning process	63 faculty members attended Annexure-2.9

III. Teaching-Learning Process and Evaluation

S.No	Criterion	Observations
1.	Student performance indices Attendance Exams	Appropriate List of students for Detention and Condo nations are maintained. Result analysis is carried out. Annexure-3.1
2.	Mechanism and activities for slow learners improvement	Slow learners are identified based on their performance in Mid Examinations. 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
4.	Tutorial classes	Tutorial classes are conducted as per schedule given in the time table.
5.	Initiatives taken for innovative projects	No. of Innovative Projects: Nil Training programs for Faculty & Students in thrust areas: One program conducted for Faculty. Annexure-3.4
6.	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
7.	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, MOOC classes are used, - Verified Course files for all courses. Annexure-3.6

	Training programs conducted for students - Guest lectures - Add-on courses - Seminars/workshops - Compliance of department academic calendar	No. of guest lectures: 01 No. of Add-on courses: No. of Seminars/workshops: Nil No major deviations are observed in the compliance of department academic calendar. **Annexure-3.7**
9.	MoUs with Industries for internship	No. of MoU's: 06 **Annexure-3.8**
10.	Students feedback and follow-up action	Online feedback is taken from the students for all courses and review is carried out. **Annexure-3.9**
11.	Scope for Self-learning - Certificate courses:07 - Online courses	Monetary encouragement for certification courses like NPTEL SWAYAM. NPTEL Swayam:70 **Annexure-3.10**
12.	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-3.11**
13.	Placements (%): Industries / organizations:	Placements(%): 70 Total 84 No. of students got selected in various companies **Annexure-3.12**
14.	Higher studies (%): Institutions:	Higher studies(%): 23.3 06 students joined under PG program at various institutes **Annexure-3.13**
15.	Student development Activities: - co-curricular - extra-curricular activities	No. of technical events in association with student chapters: Nil No. of NSS Activities: 12 Programs conducted No. of Innovations and Startups: Nil **Annexure-3.14**

IV. Research, Consultancy and Extension

S.No	Criterion	Observations
1.	Faculty publications in journals:7 Peer reviewed Journals:5 Thomson Reuters Impact factor Journals:2	No. in peer reviewed journals: No. in Scopus/SCI indexed journals: 01 **Annexure-4.1**
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: 35% (11/26)**
4.	PhDs - Registered - Submitted - Awarded	No. registered: Nil No. submitted: 01 No. awarded: 01 **Annexure-4.2**
	PhDs guiding /guided:	No. of PhDs guiding : Nill No. of PhDs guided:

5.	Funded R&D projects and consultancy work	Total amount of funding for R&D and consultancy projects
		    Ongoing: Rs. 2,00,000 /-
		    Completed: 3,03,200 /-
		Annexure-4.3

6.	Incentives for faculty R&D	Incentives for faculty research publications as HR policy Annexure-4.4
7.	MOU's with industries/ R&D/ Premier Institutes	Department executed MOU's with othe organization **Annexure-4.5**
8.	Research centers of excellence Established	Nil
9.	Skill development centers established	

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: 9 No. of tutorial rooms: No. of laboratories: 9 No. of e-Class rooms: 1 No. of seminar halls: No. of faculty rooms: 9
2.	Internet facilities for faculty & Students:	Wi-Fi enabled campus
3.	Technical & administrative staff support	5 members of Lab Technician/ Programmer for supporting various Laboratories in addition to 2 members for supporting administrative activities **Annexure-5.1**
4.	Department budget - Sanctioned amount - Amount spent - New equipment added - Maintenance of equipment and consumables registers in labs	Amount sanctioned in Rs. 3400000.00 Amount spent in Rs. 3192445.00 New equipment added worth Rs. Equipment and maintenance registers are maintained for all the Labs
5.	Details of computing facilities and software	Total number of Computers: 60 List of Software procured: 3
6.	Dept News letter / magazine	Department half-yearly Newsletter is in place **Annexure-5.2**
7.	Department level library resources	Number of Titles: 119 Number of Volumes: 125 Number of Journals: Nil Number of E-Journals: 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: 1 **Annexure-6.1**
2.	Student publications: Dept. student clubs:	No of student publications: Nil **Annexure-6.2** No. of club activities for students: Nil
3.	Details of coaching provided for GATE/ GRE/CRT/any other competitive exams	No of GATE classes: Nil No of CRT classes: Nil
4.	Industrial visits and internships	No. of Industrial visits: Total number of industries offering internships: 17 **Annexure-6.3**

II. 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 MoU's: **Annexure-7.1**
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 Safety & Fire Fighting Equipment and Fire extinguishers at all Blocks of the Campus.

VIII Strengths, Weaknesses and Areas of Improvement

Strengths

(1) online & offline FDP s were conducted
(2) Student participants in MOOCS (NPTEL) on certification have been increased
(3) Percentage of students higher education has been improved

Weaknesses:

(1) Lack of books publication by faculty
(2) Lack of student chapter
(3) poor in patent publication & patent rights

Suggestions for improvement:

(1) Improvement is neat in book publications
(2) Improvement is neat patent publication & patent rights

Sign. of Department Coordinator

Sign. of Academic Auditors   1. Vijay kumar Sir

2. Gouda Sir

Sign. of HOD

Sign. of IQAC Coordinator

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

Name of the Department: **CIVIL ENGINEERING**

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

Date of Audit : 21.12.2023

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. **Annexure-1.1**
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-1.2**
4.	Percentage of lab component	24%(15/62.5) – **AR20** 21.95%(4.5/20.5) – **AR18** **Annexure-1.3**
5.	Evidence of academic flexibility	1 Interdisciplinary Elective+1 Professional elective 9.6% (6/62.5) – **AR20** 1 Interdisciplinary Elective+2 Professional elective 39.02% (8/20.5) – **AR18** **Annexure-1.4**

II. Faculty information and their contribution

S. No	Criterion	Observations
1.	Student Teacher ratio	STR - 16.48 **Annexure-2.1**
2.	Faculty Cadre ratio	FCR - 3 : 4 : 24 **Annexure-2.2**
3.	Faculty qualifications	09 out of 31 faculty members are doctorates,08 registered for Ph.D and rest of the faculty members are post graduates **Annexure-2.3**
4.	Faculty experience & retention	**Annexure-2.4** (list of faculty, qualifications, total experience, experience at AITAM)
5.	Faculty contribution in writing: - Books: 0 - Book chapters: 01	**Annexure-2.5** 01
6.	Faculty in professional bodies -Faculty contributions	**Annexure-2.6** (Memberships and activities) 1 member is having IEI and ICI memberships
7.	Faculty as resource persons in workshops / training activities	Nil
8.	International / National level events organized -Conferences: NIL -Workshops/ Seminars: NIL -FDPs: 01	Number of FDPs/Guest Lectures/Seminars organized: 01 **Annexure-2.7**

S.No	Criterion	Observations
9.	List of conferences/seminars/ workshops/ FDP's/ any exclusive programs attended for enrichment of teaching - learning process	70 faculty members attended for FDP's **Annexure-2.8**

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. **Annexure-3.2**
3.	Student counseling /mentoring mechanism	20 students are allotted to each faculty member to mentor for continuous improvement. **Annexure-3.3**
4.	Tutorial classes	Tutorial classes are conducted as per schedule given in the time table
5.	Initiatives taken for innovative projects	No. of Innovative Projects: NIL Training programs for Faculty & Students in thrust areas
6.	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-3.4**
7.	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-3.5** (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)
8.	Training programs conducted for students - Guest lectures - Add-on courses - Seminars/workshops - Compliance of department academic calendar	No. of guest lectures: 01 No. of Add-on courses: 01 No. of Seminars/workshops: NIL No major deviations are observed in the compliance of department academic calendar. **Annexure-3.6**
9.	MoUs with Industries for internship	No. of MoUs: 6 **Annexure-3.7 (If any)**

	Students feedback and follow-up action	Online feedback is taken from the students for all courses and review is carried out.
11.	Scope for Self-learning - Certificate courses - Online courses	Monetary encouragement for certification courses like NPTEL SWAYAM. NPTEL Swayam:22 **Annexure-3.8**
12.	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)
13.	Placements (%): Industries / organizations:	Placements(%): 70 Total 84 No. of students got selected in various companies **Annexure-3.10 (Proofs Enclosed)**
14.	Higher studies (%): Institutions:	Higher studies(%): 23.3 06 students joined under PG program at various institutes **Annexure-3.11**
15.	Student development Activities: - co-curricular - extra-curricular activities	No. of technical events in association with student chapters: No. of NSS Activities: 14 No. of Innovations and Startups: NIL **Annexure-3.12**

IV. Research, Consultancy and Extension

S.No	Criterio	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: 02 **Annexure-4.1**
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: 28.57% (8/28)
4.	PhDs - Registered - Submitted - Awarded	No. registered: 01 No. submitted: Nil No. awarded: 01 **Annexure-4.2**
	PhDs guiding /guided:	No. of PhDs guiding : NIL No. of PhDs guided: NIL

5.	Funded R&D projects and consultancy work	Total amount of funding for R&D and consultancy projects
		   Ongoing: Rs. 2,00,000 /-
		   Completed: 3,03,200 /-
		Annexure-4.3

6.	Incentives for faculty R&D	Incentives for faculty research publications as per HR policy **Annexure-4.4**
7.	MOU's with industries/ R&D/ Premier Institutes	Department executed MOU's with organizations **Annexure-4.5**
8.	Research centers of excellence Established	Recognized as JNTGV research center for the academic years 2023-24 **Annexure-4.6**
9.	Skill development centers established	Nil

V. Infrastructure and Learning Resources

S.No	Criterio	Observations
1.	Infrastructural facilities to improve the teaching learning process Class rooms: Laboratories: e- class rooms: Seminar halls: Faculty rooms:	No. of class rooms: 09 No. of tutorial rooms: No. of laboratories: 09 No. of e-Class rooms: 01 No. of seminar halls: No. of faculty rooms: 09
2.	Internet facilities for faculty & Students:	Wi-Fi enabled campus
3.	Technical & administrative staff support	05 members of Lab Technician/ Programmer for supporting various Laboratories in addition to 2 members for supporting administrative activities **Annexure-5.1** (list of technicians and administrative staff with qualifications and
4.	Department budget - Sanctioned amount - Amount spent - New equipment added - Maintenance of equipment and consumables registers in labs	Amount sanctioned in Rs 3400000.00 Amount spent in Rs. lakhs/- New equipment added worth Rs. _____ /- Equipment and maintenance registers are maintained for all the Labs
5.	Details of computing facilities and software	Total number of Computers: 60 List of Software procured: 03
6.	Dept News letter / magazine	Department half-yearly Newsletter is in place **Annexure-5.2**
7.	Department level library resources	Number of Titles: 119 Number of Volumes:125 Number of Journals:NIL Number of E-Journals :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: 03 **Annexure-6.1**
2.	Student publications: Dept. student clubs:	No. of student publications: 06 No. of club activities for students: NIL **Annexure-6.2**
3.	Details of coaching provided for GATE/GRE/CRT/any other competitive exams	No. of GATE classes: Nil No. of CRT classes:
4.	Industrial visits and internships	No. of Industrial visits: 04 Total number of industries offering internships: 18 **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:
2.	MoUs with premier Institutions for knowledge exchange	No. of MoUs: 02

	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-7.1**
6.	Risk evaluation/safety measures:	Maintaining Fire extinguishers at prominent places

VIII Strengths, Weaknesses and Areas of Improvement

Strengths

(1) Doctorate faculty from reputed universities (IIT) (IIIT) have been increased
(2) Percentage of placements have been improved
(3) Quality research publication have been increased

Weaknesses:

(1) Funding research projects are nil, even though applied.
(2) Less no. of funded consultancy works
(3) Not having nabl certification for laboratories

Suggestions for improvement:

(1) Try to get funded consultancy works from central govt. agencies
(2) Try to get NBL certification for getting the central govt. funding consultancy works

Sig. of Department Coordinator   Sig. of Academic Auditors   1.

       2.

Sig. of HOD   Sig. of IQAC Coordinator

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