INTERNAL QUALITY ASSURANCECELL

ADITYA INSTITUTE OF TECHNOLOGY AND MANAGEMENT- TEKKALI

ACADEMICAUDIT REPORT

Name of the Department: MECHANICAL ENGINEERING

AcademicYear: 2018-19 I Semester (July to December)

Date of Audit : 21.01.2019

S. No	Criterion	Observations
1.	COs and Pos assessment	Cos and POs attainment calculated as per the procedure established by DAC/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	37.14%(26/70)- AR16 37.14% (26/70) – AR18
5.	Evidence of academic flexibility	4open electives + 4 core elective courses 11.42%(8/70) - AR16, 11.42%(8/70) - AR18
II. F	Faculty information and their contribution	n
S.	Faculty information and their contribution Criterion	Observations
S. No	Criterion	Observations
S. No 1.	Criterion Student Teacher ratio	Observations STR -19.68
S. No 1.	Criterion Student Teacher ratio Faculty Cadre ratio	Observations STR -19.68 FCR-1:1.25:4 6 out of 25 faculty members are doctorates,12 registered for Ph.D and rest of the faculty members
S. No 1. 2. 3.	Criterion Student Teacher ratio Faculty Cadre ratio Faculty qualifications	Observations STR -19.68 FCR-1:1.25:4 6 out of 25 faculty members are doctorates, 12 registered for Ph.D and rest of the faculty members are post graduates Annexure-2.1(list of faculty, qualifications, total

7.	Faculty as resource persons in workshops / training activities	1 Annexure-2.3
8.	,	Number of events organized: Number of FDPs/Guest Lectures/Seminars organized: 1 Annexure-2.4
9.	List of conferences/seminars/workshops/FDP's/ any exclusive programs attended for enrichment of teaching –learning process	

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8.	Training programs conducted for students - Guest lectures	No. of guest lectures: No. of Add-on courses:2 No. of Seminars/workshops:
	- Add-on courses - Seminars/workshops - Compliance of department academic calendar	No major deviations are observed in the compliance of department academic calendar. Annexure-3.7
9.	MoUs withIndustriesforinternship	No. of MoUs:03 Annexure-3.8(If any)
10.	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
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(%): 67.8% (AY:2018-19) Total 78 No. of students got selected in various companies Annexure-3.10
14.	Higher studies (%): Institutions:	Higher studies(%):0 zero students joined for PG programme in various institutes Annexure-3.11
15.	Student development Activities: - co-curricular - extra-curricularactivities	No. of technical eventsin association with student chapters: 1 No. of NSS Activities:14 No. of Innovations and Startups: 2 Annexure-3.12
IV.R	esearch, Consultancyand Extension	
S.No	Criterion	Observations
1.	Facultypublications in journals: Peer reviewed Journals: Thomson ReutersImpactfactor Journals:	No. in peer reviewed journals: 08 No. in Scopus/SCI indexed journals:15 Annexure-4.1
2.	Publications in conferences: - National - International	No. in Conference publications:2 Annexure-4.2
3.	Percentageof facultycontributingin - Research publications:	Percentage of faculty involved in research publications: 76% (19/25)
4.	PhDs -Registered - Submitted - Awarded	No. registered: 12 No. submitted: No. awarded: 06 Annexure-4.3
L.	PhDs guiding/guided:	No. of PhDs guiding: 04 No. of PhDs guided: Annexure-4.4
5.	Funded R&D projects and consultancy work	Total amount of funding for R&D and consultancy projects Ongoing: Completed:

6.	Incentives for faculty R&D	Incentives for faculty research publications as per HR policyAnnexure-4.5
7.	MOUs with industries/ R&D/ Premier Institutes	Department executed MOUs with three organizations Annexure-4.6
8.	Researchcenters of excellence Established	recognized as JNTUK research center for the academic years 2017-18&2018-19
9.	Skill development centers established	SIEMENS center of excellence in collaboration with APSSDC and SIEMENS
V.Inf	rastructure andLearning Resources	
S.No	Criterion	Observations
1.	Infrastructural facilities toimprovethe	No. of class rooms: 08
1	teachinglearningprocess	No. of tutorial rooms: 04
	Class rooms:	No. of laboratories: 10
	Laboratories:	No. of e-Class rooms: 06
	e- class rooms:	!
	Seminar halls:	No. of seminar halls: 01
		No. of faculty rooms: 11
	Facultyrooms:	
2.	Internet facilities forfaculty&Students:	Wi-Fi enabled campus
3.	Technical & administrative staff support	11 members of Lab Technician/ Jr. Mechanic for supporting various Laboratories in addition to 4 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. 56.05 lacs /-
"	- Sanctioned amount	Amount spent in Rs. 54.9 lacs /-
	- Amount spent	New equipment added worth Rs. 8.28 lacs /-
	■	
	- New equipment added	Equipment and maintenance registers are
	Maintenance of equipment and consumables registers in labs	maintained for all the Labs
5.	Details of computing facilities and software	Total number of Computers: 64 List of Software procured:3
		·
6.	Dept News Letter/ magazine	Department half-yearly Newsletter is in place Annexure-5.2
7.	Department level libraryresources	Number of Titles: 125
ŀ		Number of Volumes: 125
		Number of Journals: 12
ŀ		Number of E-Journals: 30
		Number of Video courses:
	<u> </u>	
VI.St	tudent information, Support and Progression	n
S.No	Criterion	Observations
1.	Add-on courses:	List of add-on courses: 2
		Annexure-6.1
2.	Student publications:	No. of student publications:
	Dept. student clubs:	Annexure-6.2(If any)
	- The same are	No. of club activities for students:2
		(Automobile club, Robotics club)
	Details of continuous in	
3.	Details of coachingprovided for GATE/GRE/CRT/anyother competitive exams	No. of GATE classes: No. of CRT classes: 45
I	1	<u></u>

•	No. of Industrial visits: 2 Total number of industries offering internships:12 Annexure-6.3			
VII.Governance, Leadership and Management				
Criterion	Observations			
Teachingand non-teachingstaff attended	No. of teaching staff: 1			
forskilldevelopment programs	No. of Non-Teaching staff: 1			
MoUs with premierInstitutions	No. of MoUs:1			
forknowledge exchange	Annexure-7.1 (If any)			
Display of Vision, Mission and other	Display of Vision: Yes			
Qualityobjectives at prominent places	Display of Mission: Yes			
	Display of PEOs, POs, PSOs and COs: Yes			
Staff and student attendance monitoring	Generation of Daily, Weekly and			
system	Monthlyattendance reports			
-Biometric				
-Attendanceregisters				
Financial	Faculty members are sanctioned with Registration			
support/leavesforqualification/skill up-	fees, TA and Academic leave for attending			
gradation:	Conferences and Workshops			
Risk evaluation/safetymeasures:	Maintaining Fire extinguishers at prominent places			
	Criterion Teachingand non-teachingstaff attended forskilldevelopment programs MoUs with premierInstitutions forknowledge exchange Display of Vision, Mission and other Qualityobjectives at prominent places Staff and student attendance monitoring system -Biometric -Attendanceregisters Financial support/leavesforqualification/skill up-			

VIII Strengths, Weaknesses and Areas of Improvement

Strengths

- (1) Accredited by NBA under Tier -II
- (2) Identified as research centre by JNTUK, Kakinada

Weaknesses:

- (1)Less number of research publications in SCI/SCIE indexed journals
- (2)Less Involvements of faculty members in consultancy activies
- (3)Less number of projects with real time applications

Suggestions for improvement:

1. Improve publications in SCOPUS/SCI/SCIE indexed journals
2. Implement industry relevant inter disciplinary projects
3. Improve percentage of students placements in core industries

Sign. of Department Coordinator

Sig. of Academic Auditors

Sign. of HOD

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AITAM, TEKKALI.

Sign. of IQAC Coordinator COORDINATOR, IQAC

Aditya Institute of Technology and Management

TEKKALI-532 201

INTERNAL QUALITY ASSURANCECELL

ADITYA INSTITUTE OF TECHNOLOGY AND MANAGEMENT- TEKKALI

ACADEMICAUDIT REPORT

Name of the Department: MECHANICAL ENGINEERING

Academic Year: 2018-19 II Semester (January to June)

Date of Audit : 22.07.2019

	Os, POs and Curriculum	······································
S. No	Criterion	Observations
1.	COs and Pos assessment	Cos and POs attainment calculated as per the procedure established by DAC/PAC.
2.	Stakeholders feedback related curriculum design	to 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	37.14%(26/70)- AR16 37.14% (26/70) – AR18
5.	Evidence of academic flexibility	4open electives + 4 core elective courses 11.42%(8/70) – AR16
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II. F	Faculty information and their contribu	11.42%(8/70) – AR18
S.	Faculty information and their contribu	11.42%(8/70) – AR18
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7.	Faculty as resource persons in workshops / training activities	Nil
8.	International / National level event organized -Conferences:	Number of event organized:
	1	Number of FDPs/Guest Lectures/Seminars organized: 1
		Annexure-2.4
9.	List of conferences/seminars/workshops/FDP's/ any exclusive programs attended for enrichment of teaching—learning process	14 faculty members attended Annexure-2.5

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III. T	eaching-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(Allotment and sample file scanned)
4.	Tutorialclasses	Tutorial classes are conducted as per schedule given in the time table
5.	Initiatives taken for innovative projects	No. of Innovative Projects:2 Training programs for Faculty & Students in thrust areas Annexure-3.4 (If any)
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 (If any)
7.	-Minutes of class committee meetings and	 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-3.6(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)

students - Guest lectures - Add-on courses - Seminars/workshops - Compliance of department academic calendar - Guest lectures - Add-on courses - Seminars/workshops - Compliance of department academic calendar - Compliance of department academic calendar - Compliance of department academic calendar - Annexure-3.7 MoUs with Industries for internship	
- Add-on courses - Seminars/workshops - Compliance of department academic calendar Annexure-3.7 9. MoUs with Industries for internship 10. Students feedback and follow-up action 11. Scope for Self-learning - Certificate courses - Online courses 12. Result analysis and conduct of remedial classes for students with backlogs annexure-3.9(Result analysis for all the semesters and details of remedial are conducted for students with backlogs 13. Placements (%): Industries / organizations: 14. Higher studies (%): Institutions: 15. Student development Activities: - co-curricular - extra-curricular activities 16. Student development Activities: - co-curricular - extra-curricular activities 17. Paculty publications in journals: Thomson Reuters Impact factor Journals: Thomson Reuters Impact factor Journals: 18. Per reviewed Journals: Thomson Reuters Impact factor Journals: 19. Percentage of faculty contributing in 19. MoUs with Industries for department academic calenda Annexure-3.8(If any) No. of MoUs: 03 Annexure-3.8(If any) No. of MoUs: 03 Annexure-courseand review is carried out. Annexure encouragement for certification of courses and review is carried out. Result analysis is carried out after the resemester end examinations and remedial are conducted for students with backlogs Annexure-3.9(Result analysis for all the semesters and details of remedial classes) Placements(%): 67.8% (AY:2018-19) Total 78 No. of students got selected in companies Annexure-3.10 Higher studies(%):1 Annexure-3.11 15. Student development Activities: - co-curricular - extra-curricular activities: - co-curricular - extra-curricular activities: - No. of NSS Activities: 14 No. of No. of NSS Activities: 14 No. of Innovations and Startups: 2 Annexure-3.12 No. in peer reviewed journals: 15 Annexure-4.1 No. in Conference publications: 2 Annexure-4.2 International	
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- National - International - I	
- International 3. Percentage of faculty contributing in Percentage of faculty involved in research	
3. Percentage of faculty contributing in Percentage of faculty involved in research	
publications. 7070 (19723)	
4. PhDs No. registered: 12	
-Registered No. submitted:	
- Submitted No. awarded: 06 - Awarded Annexure-4.3	
11 Wallace	
PhDs guiding/guided: No. of PhDs guiding: 04 No. of PhDs guided:	
Annexure-4.4	
5. Funded R&D projects and consultancy Total amount of funding for R&D and cons	ultancy
work projects	,
Ongoing:	
Completed:	

6.		Incentives for faculty research publications as per HR policyAnnexure-4.5
7.	MOUs with industries/ R&D/ Premier Institutes	Department executed three MoUs with industries Annexure-4.6 (if any)
8.		recognized as JNTUK research center for the academic years 2018-19&2019-20
9.		SIEMENS center of excellence in collaboration with APSSDC and SIEMENS
V.Inf	rastructure and Learning Resources	
S.No	Criterion	Observations
1.	Infrastructural facilities to improve the teaching learning process Class rooms: Laboratories: e- class rooms:	No. of class rooms: 08 No. of tutorial rooms: 04 No. of laboratories: 10 No. of e-Class rooms: 06 No. of seminar halls: 01 No. of faculty rooms: 11
	Faculty rooms:	itto. of faculty fooths. If
2.	Internet facilities for faculty &Students:	Wi-Fi enabled campus
3.		11 members of Lab Technician/ Jr. Mechanic for supporting various Laboratories in addition to 4 members for supporting administrative activities Annexure-5.1(list of technicians and administrative staff with qualifications and experience)
4.	- New equipment added	Amount sanctioned in Rs. 56.05 lacs /- Amount spent in Rs. 54.91 lacs /- New equipment added worth Rs. 8.28 lacs /- Equipment and maintenance registers are maintained for all the Labs
5.	Details of computing facilities and software	Total number of Computers: 64 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: 125 Number of Volumes: 125 Number of Journals: 12 Number of E-Journals: 30 Number of Video courses:
VI. St	udent information, Support and Progression	on .
S.No	Criterion	Observations
1.	Add-on courses:	List of add-on courses:2 Annexure-6.1
2.	Student publications: Dept. student clubs:	No. of student publications: 1 Annexure-6.2(If any) No. of club activities for students: 1 (Automobile club, Robotics club)
3.	,	No. of GATE classes: No. of CRT classes: 45

		Total number of industries offering internships:12 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: 1 No. of Non-Teaching staff: 1
2.	MoUs with premier Institutions for knowledge exchange	No. of MoUs:1 Annexure-7.1 (If any)
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
6.	Risk evaluation/safety measures:	Maintaining Fire extinguishers at prominent places

No. of Industrial visits: 2

VIII Strengths, Weaknesses and Areas of Improvement

Strengths

(1) Accredited by NBA under Tier -II

Industrial visits and internships

(2) Identified as research centre by JNTUK, Kakinada

Weaknesses:

- (1)Less number of research publications in SCI/SCIE indexed journals
- (2)Less Involvements of faculty members in consultancy actives
- (3)Less number of projects with real time applications

Suggestions for improvement:

1. Improve publications in scopus[scalscae indexed journals 2. Implement industry relevant interdisciplinary projects 3. Improve percentage of student placements in core industries

Sign. of Department Coordinator

Sign. of Academic Auditors

Sign. of HOD Dept. of Mech. Engg.

COORDINATOR, IQAC

Aditya Institute of Technology and Management

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