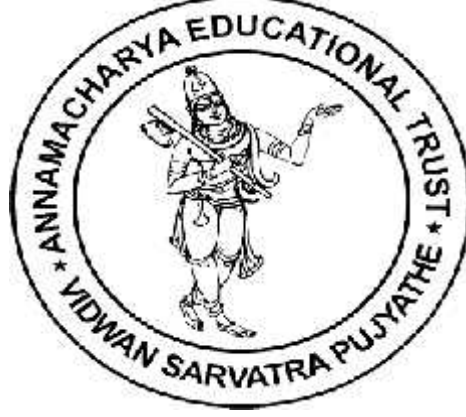# Annamacharya Institute of Technology & Sciences (Autonomous)

Internal Quality Assurance Cell (IQAC) and Submission of Annual Quality Assurance Report (AQAR)
2014-2015

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

An Autonomous Institution of the University Grants Commission

P. O. Box. No. 1075, Opp: NLSIU, Nagarbhavi, Bangalore - 560 072 India

The Annual Quality Assurance Report (AQAR) of the IQAC

All NAAC accredited institutions will submit an annual self-reviewed progress report to NAAC, through its IQAC. The report is to detail the tangible results achieved in key areas, specifically identified by the institutional IQAC at the beginning of the academic year. The AQAR will detail the results of the perspective plan worked out by the IQAC. *(Note: The AQAR period would be the Academic Year. For example, July 1, 2012 to June 30, 2013)*

Part – A

1. Details of the Institution

1.1 Name of the Institution

> Annamacharya Institute of Technology & Sciences (Autonomous), Rajampet

1.2 Address Line 1

> Tallapaka (Panchayath)

Address Line 2

> New boyanapalli

City/Town

> Rajampet

State

> Andhra Pradesh

Pin Code

> 516126

Institution e-mail address

> aitsap@yahoo.co.in
> drmallik@annamacharyagroup.org

Contact Nos.

> 08565251862, 63, 64

Name of the Head of the Institution:

> Dr S M V Narayana

Tel. No. with STD Code:

> 08565 251862

Mobile:

> 919666675279

Name of the IQAC Co-ordinator:

Dr. N. Mallikharjuna Rao

Mobile:

919848358648

IQAC e-mail address:

drmallik@annamacharyagroup.com

1.3 **NAAC Track ID** (For ex. MHCOGN 18879): **APCOGN14053**

1.4 Website address:

www.aitsrajampet.ac.in

Web-link of the AQAR:

http://aitsrajampet.ac.in/iqac.htm

1.5 Accreditation Details

Sl. No.	Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1	1st Cycle	B	2.49	2010-11	5 yrs
2	2nd Cycle				
3	3rd Cycle				
4	4th Cycle				

1.6 Date of Establishment of IQAC: DD/MM/YYYY

12-01-2012

1.7 AQAR for the year *(for example 2010-11)*

2014-2015

1.8 Details of the previous year's AQAR submitted to NAAC after the latest Assessment and Accreditation by NAAC ((*for example AQAR 2010-11submitted to NAAC on 12-10-2011*)

   i. AQAR _____First report (2013-2014)_____ (DD/MM/YYYY)
   ii. AQAR_____ Second Report (2014-2015)__ __ (DD/MM/YYYY)
   iii. AQAR_____ _____ (DD/MM/YYYY)
   iv. AQAR_____ _____ (DD/MM/YYYY)

1.9 Institutional Status

University   State `---` Central `---` Deemed `---` Private `---`

Affiliated College   Yes `--` No `---`

Constituent College   Yes ` ` No `✓`

Autonomous college of UGC Yes `✓` No `---`

Regulatory Agency approved Institution   Yes `✓` No `---`

(eg. AICTE, BCI, MCI, PCI, NCI)

Type of Institution   Co-education `✓` Men `---` Women `---`

                 Urban `---`   Rural `✓` Tribal `---`

Financial Status   Grant-in-aid `---` UGC 2(f) `✓` UGC 12B `✓`

            Grant-in-aid + Self Financing `---` Totally Self-financing `✓`

1.10 Type of Faculty/Programme

      Arts `---` Science `---` Commerce `---` Law `--` PEI (Phys Edu) `---`

TEI (Edu) `---` Engineering `✓` Health Science `---` Management `✓`

Others (Specify)   `.`

1.11 Name of the Affiliating University *(for the Colleges)* Jawaharlal Nehru Technological University Anantapur, Anantapuramu, (A.P)

1.12 Special status conferred by Central/ State Government-- UGC/CSIR/DST/DBT/ICMR etc

Autonomy by State/Central Govt. / University   UGC   ✓

University with Potential for Excellence   ---   UGC-CPE   ---

DST Star Scheme   ---   UGC-CE   ---

UGC-Special Assistance Programme   ---   DST-FIST   ---

UGC-Innovative PG programmes   ---   Any other (*Specify*)   ---

UGC-COP Programmes   ---

2. IQAC Composition and Activities

2.1 No. of Teachers   09

2.2 No. of Administrative/Technical staff   02

2.3 No. of students   02

2.4 No. of Management representatives   01

2.5 No. of Alumni   02

2. 6 No. of any other stakeholder and
       community representatives   01

2.7 No. of Employers/ Industrialists   01

2.8 No. of other External Experts   01

2.9 Total No. of members   19

2.10 No. of IQAC meetings held   04

2.11 No. of meetings with various stakeholders: No. | 03 | Faculty | 03 |

Non-Teaching Staff Students | 02 | Alumni | 02 | Others | 01 |

2.12 Has IQAC received any funding from UGC during the year?   Yes | --- | No | ✓ |

If yes, mention the amount | |

2.13 Seminars and Conferences (only quality related)

(i) No. of Seminars/Conferences/ Workshops/Symposia organized by the IQAC

Total Nos. | 04 | International | 01 | National | 01 | State | 01 | Institution Level | 03 |

(ii) Themes | Emerging Trends on Computing Technologies |

2.14 Significant Activities and contributions made by IQAC

1. IQAC is motivating teacher on quality improvement
2. IQAC encourages the research based work culture
3. IQAC recommends student centric core procedures

2.15 Plan of Action by IQAC/Outcome

The plan of action chalked out by the IQAC in the beginning of the year towards quality enhancement and the outcome achieved by the end of the year *

Plan of Action	Achievements
✓ Remedial teaching ✓ Upgrade teachers knowledge based in advanced Research	✓ several students were benefited ✓ Teacher used modern strategies for teaching i.e. Power Point Presentation. ✓ Innovative Teaching methods are used.

* Attach the Academic Calendar of the year as Annexure.

2.15 Whether the AQAR was placed in statutory body   Yes [✓]   No [---]

Management [✓]   Syndicate [---]   any other body [---]

Provide the details of the action taken

> Institute demerits were identified. IQAC is suggested to overcome such demerits.

Part – B

Criterion – I

1. Curricular Aspects

1.1 Details about Academic Programmes

Level of the Programme	Number of existing Programmes	Number of programmes added during the year	Number of self-financing programmes	Number of value added / Career Oriented programmes
PhD				
PG	11		11	
UG	06		06	
G Diploma				
Advanced Diploma				
Diploma				
Certificate				
Others				
Total	17		17	

Interdisciplinary				
Innovative				

1.2 (i) Flexibility of the Curriculum: CBCS/Core/Elective option / Open options
     (ii) Pattern of programmes:

Pattern	Number of programmes
Semester	17
Trimester	
Annual	

1.3 Feedback from stakeholders*   Alumni [✓] Parents [✓] Employers [✓] Students [✓]
   (On all aspects)

Mode of feedback   :   Online [✓] Manual [✓] Co-operating schools (for PEI) [---]

Please provide an analysis of the feedback in the Annexure

1.4 Whether there is any revision/update of regulation or syllabi, if yes, mention their salient aspects.

> YES- copy enclosed.

1.5 Any new Department/Centre introduced during the year. If yes, give details.

> Nil

Criterion – II

2. Teaching, Learning and Evaluation

2.1 Total No. of permanent faculty

Total	Asst. Professors	Associate Professors	Professors	Others
272	182	56	34	--

2.2 No. of permanent faculty with Ph.D.

> 09

2.3 No. of Faculty Positions Recruited (R) and Vacant (V) during the year

Asst. Professors		Associate Professors		Professors		Others		Total	
R	V	R	V	R	V	R	V	R	V
54	03	05	--	--	--	--	--	59	03

2.4 No. of Guest and Visiting faculty and Temporary faculty

> 63   00

2.5 Faculty participation in conferences and symposia (2014-15):

No. of Faculty	International level	National level	State level
Attended	12	45	73
Presented papers	12	29	48
Resource Persons	Nil	04	02

2.6 Innovative processes adopted by the institution in Teaching and Learning:

> Unique Teaching Methodology "Two way teaching method"

2.7 Total No. of actual teaching days during this academic year

> 231

2.8 Examination/ Evaluation Reforms initiated by the Institution (for example: Open Book Examination, Bar Coding, Double Valuation, Photocopy, Online Multiple Choice Questions)

> Single valuation system – evaluation outside campus

2.9 No. of faculty members involved in curriculum Restructuring/revision/syllabus development

23	16	00

As member of Board of Study/Faculty/Curriculum Development workshop

2.10 Average percentage of attendance of students

78%

2.11 Course/Programme wise distribution of pass percentage:

Title of the Programme	Total no. of students appeared	Division				
		Distinction %	I %	II %	III %	Pass %
B.Tech- EEE	57	71.64	9.43	7.64	--	88.71
B.Tech- ME	117	48.30	38.98	--	--	87.30
B.Tech- ECE	178	65.24	20.81	3.41	1.95	91.41
B.Tech- CSE	120	20	35	24.17	05	84.17
B.Tech- IT	43	57.83	35	02		94.83
B.Tech- Civil						
M.Tech- EPE	24	90.25	5.58	--	--	95.83
M.Tech- EPS	16	95	05	--	--	100
M.Tech- DESC	16	100	--	--	--	100
M.Tech- VLSI	12	100	--	--	--	100
M.Tech- ES	14	90	10	--	--	100
M.Tech- CSE	18	95	05			100
M.Tech- CAD/CAM	08	87.50	--	--	--	87.50
MBA	98	79.59	20.69	--	--	90.25
MCA	18	94.45	--	--	--	94.45

2.12 How does IQAC Contribute/Monitor/Evaluate the Teaching & Learning processes:

Substantial effort has been put by IQAC to ensure an environment of excellence in all aspects of teaching and learning and also focused on to improve the quality of education and evaluation. The IQAC academic audit is carried out by the Principal. This was done in three stages.

1. All the teaching staff members submitted semester plan for conduct of theory and practical classes to their respective head of departments.

2. Monthly reports are collected from the teaching staff where in teachers give information regarding coverage of syllabus during that particular month. In case where syllabus was not covered as per schedule, the teachers were accordingly advised

3. At the end of the semester (during the internal audit) the teaching staff submits the monthly monitoring sheets to the respective heads of departments and through the ISO MR (Management Representative) it is submitted to the Principal who examines whether the entire syllabus has been completed as per the initial planning and appropriate steps are initiated.

2.13 Initiatives undertaken towards faculty development

Faculty / Staff Development Programmes	Number of faculty benefitted
Refresher courses	21
UGC – Faculty Improvement Programme	Nil
HRD programmes	11
Orientation programmes	74
Faculty exchange programme	Nil
Staff training conducted by the university	40
Staff training conducted by other institutions	33
Summer / Winter schools, Workshops, etc.	33
Others	

2.14 Details of Administrative and Technical staff

Category	Number of Permanent Employees	Number of Vacant Positions	Number of permanent positions filled during the Year	Number of positions filled temporarily
Administrative Staff	10	-	2014-2015	Nil
Technical Staff	05	-	2014-2015	Nil

Criterion – III

3. Research, Consultancy and Extension

3.1 Initiatives of the IQAC in Sensitizing/Promoting Research Climate in the institution

> ✓ Action research was doing by faculty members for the various problems and issues of institute
> ✓ Faculty members are encouraged to publish research papers in reputed journals such as Scopus indexed and Sci* indexed

3.2   Details regarding major projects

	Completed	Ongoing	Sanctioned	Submitted
Number	07	04	02	03
Outlay in Rs. Lakhs	36,09,000/-	11,30,000/-	4,50,000/-	

3.3   Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number	--	--	--	--
Outlay in Rs. Lakhs	--	--	--	--

3.4   Details on research publications

	International	National	Others
Peer Review Journals	185	65	04
Non-Peer Review Journals	69	43	
e-Journals	20	17	
Conference proceedings	98	189	

3.5 Details on Impact factor of publications:

Range [ ]   Average [6.67]   h-index [80]   Nos. in SCOPUS [05]

3.6 Research funds sanctioned and received from various funding agencies, industry and other organisations

Nature of the Project	Duration Year	Name of the funding Agency	Total grant Sanctioned	Received
Major projects	2011-13	AICTE	7,00,000/-	7,00,000/-
Minor Projects	-	-	-	-
Interdisciplinary Projects	-	-	-	-
Industry sponsored	-	-	-	-
Projects sponsored by the University/ College	-	-	-	-
Students research projects *(other than compulsory by the University)*	-	-	-	-
Any other(Specify)	2012-14	AICTE	14,01,000/-	10,00,000/-
Total	--	--	21,01,000/-	17,00,000/-

3.7 No. of books published   i) With ISBN No.   06   Chapters in Edited Books   --

ii) Without ISBN No.   01

3.8 No. of University Departments receiving funds from

UGC-SAP   ✓   CAS   --   DST-FIST   --

DPE   --   DBT Scheme/funds   --

3.9 For colleges   Autonomy   ✓   CPE   --   DBT Star Scheme   --

INSPIRE   --   CE   --   Any Other (specify)   --

3.10 Revenue generated through consultancy   --

3.11 No. of conferences organized by the Institution

Level	International	National	State	University	College
Number	01	08			01
Sponsoring agencies	IEEE, USA	Institute			

3.12 No. of faculty served as experts, chairpersons or resource persons   22

3.13 No. of collaborations   International   --   National   02   Any other   01

3.14 No. of linkages created during this year   --

3.15 Total budget for research for current year in lakhs:

From funding agency   --   From Management of University/College   10, 00,000/-

Total   10, 00,000/-

3.16 No. of patents received this year

Type of Patent		Number
National	Applied	--
	Granted	--
International	Applied	01
	Granted	--
Commercialised	Applied	--
	Granted	--

3.17 No. of research awards/ recognitions   received by faculty and research fellows
Of the institute in the year

Total	International	National	State	University	Dist	College
03	01	02	--	--	--	--

3.18 No. of faculty from the Institution
who are Ph. D. Guides   04
and students registered under them   03

3.19 No. of Ph.D. awarded by faculty from the Institution   06

3.20 No. of Research scholars receiving the Fellowships (Newly enrolled + existing ones)

JRF --   SRF --   Project Fellows --   Any other --

3.21 No. of students Participated in NSS events:

University level 20   State level -

National level -   International level -

3.22 No. of students participated in NCC events:

University level -   State level -

National level -   International level -

3.23 No. of Awards won in NSS:

University level -   State level -

National level -   International level -

3.24 No. of Awards won in NCC:

University level -   State level -

National level -   International level -

3.25 No. of Extension activities organized

University forum [--]   College forum [✓]

NCC [--]   NSS [✓]   Any other [--]

3.26 Major Activities during the year in the sphere of extension activities and Institutional Social Responsibility

- ✓ Blood Donation Camp
- ✓ Programme on distribution of school uniform in nearby villages.
- ✓ Awareness Programme on right to vote.
- ✓ Awareness programme on women's rights.

Criterion – IV
4. Infrastructure and Learning Resources

4.1 Details of increase in infrastructure facilities: 33 acres

Facilities	Existing	Newly created	Source of Fund	Total
Campus area	32 Acres (18388.1 Sq.m)		Self	
Class rooms	74		Self	74
Laboratories	104		Self	104
Seminar Halls	16		Self	16
No. of important equipments purchased (1-0 lakh) during the current year.	02		Self	02
Value of the equipment purchased during the year (Rs. in Lakhs)	22,012,579/-		Self	22,012,579/-
Others	76,19,896/-		Self	76,19,896/-

4.2 Computerization of administration and library

Library fully automated system

Fully implemented with bar coding system

4.3 Library services:

	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
Text Books	2000	11,00000	300	10,0000	2300	12,00000
Reference Books	1000	3,00000	200	65,000	1200	3,65,000
e-Books	1013	-	-	-	1013	-
Journals	91	2,20,000			91	2,20,000
e-Journals	2000	5,40,000			2000	5,40,000
Digital Database						
CD & Video						
Others (specify)						

4.4 Technology up gradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Depart-ments	Others
Existing	765	11	25 Mbps	01	01	10	25	10
Added			10 Mbps					
Total	765	11	35 Mbps	01	01	10	25	10

4.5 Computer, Internet access, training to teachers and students and any other programme for technology upgradation (Networking, e-Governance etc.)

Faculty development programme, orientation program and workshop have been conducted for the faculty members to enhance knowledge on technology up gradation. Special programme for internet access was conducted for the staff and students of this institute. Recently, we organized workshop on Tally9.0 package and usage to ministerial staff.

4.6 Amount spent on maintenance in lakhs:

i) ICT   15.02

ii) Campus Infrastructure and facilities   19.56

iii) Equipments   25.00

iv) Others   48.09

Total: **107.67**

Criterion – V
5. Student Support and Progression

5.1 Contribution of IQAC in enhancing awareness about Student Support Services

- ✓ IQAC should organize and deliver lectures from time to time to make the students aware of the changing global scenario. Students should be given support service in seeking jobs opportunities not only locally but also globally. It is the duty of the IQAC to cultivate skills, competencies and value among students. These should be imparted to the students through courses and activities.

- ✓ At the beginning of an academic year, IQAC sends a format to the Heads of Departments and support services to the students to be undertaken throughout the year. This will help IQAC to know the working of each Department and will help to prepare an Action Plan of the Institution. Monitoring of the working of the Departments may be done through meeting of the IQAC and this will direct the future course of action.
- ✓ It is the responsibility of the IQAC to motivate and to maintain Academic Diary day wise to the faculty members. It will help ensuring quality of teaching and accountability
- ✓ IQAC is act as the better internal communication between student and their department
- ✓ Encouraging eco-consciousness among students
- ✓ Grievances Re-dressal Cell is working for students support.

5.2 Efforts made by the institution for tracking the progression

- ✓ Regular observation

- ✓ Regular meetings/monitoring

- ✓ Faculty involvement through counselling system.

- ✓ Regular feedback from students

5.3 (a) Total Number of students

UG	PG	Ph. D.	Others
2557	596	--	--

(b) No. of students outside the state

04

(c) No. of international students

Nil

Men
No	%
1972	62.5%

Women
No	%
1181	37.5%

Last Year						This Year					
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
340	73	11	202	02	628	287	87	13	215	05	607

Demand ratio   83%   Dropout % Nil

5.4 Details of student support mechanism for coaching for competitive examinations (If any)

> ✓ The Training and placement cell is providing coaching to various competitive exams such as Banks PO, Group-II, and Group –IV, UPSC and other examinations.
>
> ✓ AITS have certiport and Pro-metric test centres on campus for any computer based examinations such as GATE, TOFEL, GRE and certification. examinations

No. of students beneficiaries   174

5.5 No. of students qualified in these examinations

NET   --   SET/SLET   --   GATE   17   CAT   --

IAS/IPS etc   --   State PSC   --   UPSC   --   Others   --

5.6 Details of student counselling and career guidance

> Students per counsellor - 20
>
> ✓ Mode - Telephonic and Personal Meeting
>
> ✓ Reporting - Monthly Report to the Head of Departments.
>
> ✓ Area - Personal problem, Grievances and Motivation for better performance

No. of students benefitted   225

5.7 Details of campus placement

On campus			Off Campus
Number of Organizations Visited	Number of Students Participated	Number of Students Placed	Number of Students Placed
09	425	225	50

5.8 Details of gender sensitization programmes

Women Empowerment cell is conducted on gender equity and gender integration

5.9 Students Activities

5.9.1   No. of students participated in Sports, Games and other events

State/ University level 140   National level 05   International level 0

No. of students participated in cultural events

State/ University level 85   National level 25   International level 0

5.9.2   No. of medals /awards won by students in Sports, Games and other events

Sports: State/ University level 04   National level 00   International level 00

Cultural: State/ University level 00   National level 00   International level 00

5.10 Scholarships and Financial Support

	Number of students	Amount
Financial support from institution	Nil	-
Financial support from government	1945	7,69,91,400/-
Financial support from other sources	Nil	-
Number of students who received International/ National recognitions	-	-

5.11   Student organised / initiatives

Fairs   : State/ University level | 01 | National level | 01 | International level | -- |

Exhibition: State/ University level | -- | National level | -- | International level | -- |

5.12   No. of social initiatives undertaken by the students | 02 |

5.13 Major grievances of students (if any) redressed:

Water Problem (Water purifier system is installed. Now students are getting filtered and safe water since two years).

Criterion – VI

6. Governance, Leadership and Management

6.1 State the Vision and Mission of the institution

Our Vision

We impart futuristic technical education and instil high patterns of discipline through our dedicated staff who set global standards, making our students technologically superior and ethically strong, who in turn shall improve the quality of life of the human race.

Our Mission

Our mission is to educate students from the local and rural areas and from other states so that they become enlightened individuals, improving the living standards of their families, industry and society. We provide individual attention, world-class quality of Technical education and take care of character building

6.2 Does the Institution has a management Information System

Yes, Management information system is being used in accounts department, administration department and other departments.
Some of the MIS are
- ✓ Daily Absent Report (Staff)
- ✓ Daily Absent Report (Students)
- ✓ Monthly Defaulter Report

6.3 Quality improvement strategies adopted by the institution for each of the following:

6.3.1 Curriculum Development

Curriculum involves interaction between teachers and earners, between learners and Learners, between learners and curriculum content.
The focus of teaching is more on making of meaning through learning than the transmission of concepts and skills.
Teaching is a complex endeavour. The following points were implemented by AITS for Curriculum Development for course set-up and teaching methodology
- ✓ Problem Identification in an area and General needs assessment
- ✓ Needs assessment of targeted learners
- ✓ Goals and objectives on chosen subjects or area
- ✓ Educational Strategies on chosen subjects
- ✓ Implementation
  - o Introduction of curriculum
  - o Administration of curriculum
  - o Refinement of curriculum
- ✓ Evaluation and feedback
  - o Individual evaluation
  - o Program evaluation
  - o Finding of outcome

6.3.2   Teaching and Learning

AIT follows the given methods for teaching and leaning
- ✓ **Mass Teaching**
(Conventional lectures and taught lessons; Film and video presentations; educational broadcasts; mass practical work)
- ✓ **Discrete learning**
(Directed study of texts, study of open-learning materials; mediated self-instruction ;)
- ✓ **Group learning**
(Class discussions; seminars; group tutorials; games and simulations; group projects; etc.)
Along with above, each (core) subject combination is supplemented amply by co-curricular and extra-curricular programmes. Learning by doing to encourage the students to plan, probe, verify and experiment on a wide spectrum of issues, dialogue, discussions and debate which provides awareness for thinking and action

6.3.3 Examination and Evaluation

- All components in any programme of study are evaluated continuously through internal evaluation and an external evaluation. Internal evaluation is done throughout semester/year in the form of mid examinations and assignments. External evaluation is done at the end of semester/ year in the form of end examination.

- Question paper setters for end examination are from outside the college. Subject experts from our institute prepare the scheme of evaluation, giving guidelines for the examiners for distribution of marks for different points in the question. In case of numerical problems, solution of the problems with distribution of marks for different stages should be given in scheme of marking. Feedback on question paper will be collected from subject experts to improve the quality of questions in future. Evaluation of answer scripts will be done by the external examiners from other colleges and universities.

- The method of evaluation involves coding & decoding of answer scripts to ensure unbiased evaluation. Evaluation process is transparent. Institute communicates the outcome of the evaluation by publishing results on the internet through Institute website.

- Students shall be permitted to request for recounting/ revaluation of the end theory examination answer scripts within a stipulated period after announcement of the results.

- After recounting or revaluation, records are updated with changes if any and the student will be issued a revised memorandum of marks. If there are no changes, the student shall be intimated the same through a letter or a notice.

- Based on the credits and marks obtained by the student Credit Point Average (CPA) will be calculate for semester/year and Cumulative Credit Point Average (CCPA) will be calculated for entire program. Award of class will be finalized based on CCPA.

6.3.4   Research and Development

Research and Development cell is an integral part of the activities of Annamacharya Institute of Technology & Sciences. The Institute conducts research investigations within its academic programmes under all the departments and the Academic Research Centres.

This cell is one of the wings of the Institute which facilitates, channelizes, records, and regulates all the academic, sponsored, collaborative research projects and consultancy works in the Institute. The objective of the Research Cell varies from the advancement of theoretical knowledge to development of new technology to solve practical problems.

The research conducted till now has covered areas such as theoretical and applied aspects of core science (physics, chemistry and mathematics), information and communication technology, electronics, electrical, artificial intelligence, machine design, manufacturing, product design, management, social sciences etc. The research projects have also acted as the training ground for the young post-graduates of our college.

6.3.5   Library, ICT and physical infrastructure / instrumentation

Physical Infrastructure

AITS has sufficient seminar Halls equipped with internet and projector with seating capacity of 100~150 members Faculty rooms, Head's chambers, Meeting rooms, Office , Class rooms ,Tutorial rooms , Boys common rooms, Girls common rooms , Systems Laboratory equipped with 860 systems, communication Laboratory equipped with 70 systems, Research Laboratory , Library, Internet and wi-fi facility in the entire building.

Library
Printed books-titles: 8358, volumes: 38,636, e-books: 1013, Journals: 91 e-Journals: IEEE, ASME, Delnet.
 Reading facilities, CDs Newspapers
Library Committee suggested a list of books based on interaction with the students and faculty members. This list was forwarded to concerning authority for sanction and purchase of books.

ICT Infrastructure
LCD projectors , HP, Dell Desktops, HP printers, Internet switches, Dot matrix printers 20 KVS UPS, 10 KVA ups , Power Generator (250 KVA) , application software and systems software's

Sports

The institute has several sports facilities like Gym. Hall, Play grounds, carom boards, chess boards, badminton kits, cricket kit, TT kit, volleyball, football, etc. are available

3.6 Human Resource Management

AITS HRM encompasses

- ✓ Payroll
- ✓ Time and Attendance
- ✓ Performance Appraisal (UGC-PBAS preform)
- ✓ Performance record

6.3.7 Faculty and Staff recruitment

Faculty

For qualitative improvement there were some changes in the recruitment. Proper advertisements were given and the faculty members were selected and appointed after going through following improved steps.
- ✓ First Step-General Interview by Director/principal of the Institute
- ✓ Second Step-Subject and skill interview by department expert
- ✓ Third Step-Demonstration
- ✓ Fourth Step-Interview by Management and finalize the selections
- ✓ Fifth step – ratification by University selection committee.

Faculty Recruitment

Faculty for Undergraduate programs is as per the staff: Student Ratio i.e. 1:15 and cadre ratio is 1:2:6 (1 Professor 2 Associate Professor 6 Assistant Professors)

Faculty for Postgraduate programs is as per the staff: Student Ratio i.e. 1:12 and cadre ratio is 1:2:0 (1 Professor 2 Associate Professor)

Qualification, eligibility criteria, pay and pay scale are as per the AICTE, UGC & state government norms

6.3.8 Industry Interaction / Collaboration

The Industry Interaction Cell (IIC) at AITS is intended to be the face of the institute to the industry. It aims to facilitate the process of close industry-institute interaction and actively promoting fresh avenues for the same. Industry interaction cell (IIC) at AITS strives to enhance industry interaction with students and bridge the gap between academic and corporate world. IIC invites thought leaders, entrepreneurs, executives and policy makers to address students thereby facilitating practical learning.

Major events organized by IIC, AITS Rajampet

- ✓ Guest lectures
- ✓ Industry visits
- ✓ Personality development and grooming sessions
- ✓ Placement sessions
- ✓ Summer Internships evaluation process
- ✓ CEO forums

6.3.9 Admission of Students

A candidate should possess the eligibility of 10+2 qualification from Board of Intermediate, Government of Andhra Pradesh with Mathematics, Physics and Chemistry as his/her optional subjects, or any other equivalent examination recognized as equivalent there to.

A student to step in four-year degree course in Engineering except NRI quota must qualify in "Engineering, Agricultural Sciences and Medical Common Entrance Test" (EAMCET), a State-Level Entrance Test conducted by the Govt. of Andhra Pradesh. Students who qualify in EAMCET entrance test will be admitted strictly on merit bases.

The Convener of EAMCET admits on merit secured in Intermediate or an equivalent examination and the rank secured in EAMCET.

The Management admits candidates for the Management and NRI quota based on merit and should possess first class is optional. Subjects: Mathematics, Physics, and Chemistry.

The Convener of ECET admits 10% of the candidates from the stream of Diploma Holders should pass in diploma from Andhra Pradesh State Government or an equivalent examination.

Similarly an UG & PG student joins based on ECET, PGCET & ICET's

6.4 Welfare schemes for

Teaching	--
Non teaching	--
Students	--

6.5 Total corpus fund generated 18, 82, 35,235/-

6.6 Whether annual financial audit has been done   Yes ✓   No ☐

6.7 Whether Academic and Administrative Audit (AAA) has been done?

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	--	--	Yes	IQAC Cell
Administrative	Yes	Sankaram and Associates	Yes	IQAC Cell

6.8 Does the University/ Autonomous College declare results within 30 days?

For UG Programmes   Yes ☐ --   No ✓

For PG Programmes   Yes ✓   No --

6.9 What efforts are made by the University/ Autonomous College for Examination Reforms?

- ✓ End examination question paper setters are from other colleges and universities.
- ✓ Examiners for end examinations are from other colleges and universities.
- ✓ Evaluation process involves coding & decoding of answer scripts.
- ✓ Recounting and revaluation facility is provided to student.
- ✓ Award of class will be finalized based on CCPA.

6.10 What efforts are made by the University to promote autonomy in the affiliated/constituent colleges?

The JNTUA University effort to bring the autonomous status for AITS is:

- ✓ To promote academic freedom in autonomous colleges by encouraging introduction of innovative academic programmes

- ✓ To facilitate new courses of study, subject to the required minimum number of hours of instruction, content and standards

- ✓ To permit them to issue their own provisional, migration and other certificates

- ✓ To reduce work effort by university people and with depute various nominees of the university to serve in various committees of the autonomous colleges and get the feedback on their functioning
- ✓ To provide an opportunity to conduct examination more innovatively
- ✓ To Provide academic flexibility to the institute

6.11 Activities and support from the Alumni Association

An alumni meeting is conducted every year in the month of December. They regularly interact with the students to create awareness about an industry environment. Guest lecturers are also arranged for more awareness on industry.

6.12 Activities and support from the Parent – Teacher Association

Yet, to be established

6.13 Development programmes for support staff

Academic and Professional Development is drawing on the knowledge, experience and expertise of academic staff and support staff from the all departments across the Institute. Planned to complement the guidance and mentoring provided within campus s premises, the Programme aims to:

- ✓ Familiarize members of staff with key Institute policies and procedures
- ✓ Providing opportunities to reflect on and potentially enhance practice in teaching and research
- ✓ Enhance professional expertise
- ✓ Create an environment which provides the opportunity to share ideas and experiences with other academics issues in a Institute.

6.14 Initiatives taken by the institution to make the campus eco-friendly

The AITS since 1997 has been making a conscious effort to establish the campus as a **'zero waste'** zone. A number of initiatives have been put in place to promote the concept of **'reduce, reuse and recycle'** and contribute mite to protecting the environment. The institute have the following eco-friendly scenarios. They are

- ✓ Waste Segregation
- ✓ Composting Unit
- ✓ Water Recycling and Rainwater Harvesting
- ✓ Bio-gas plants
- ✓ Solar Energy
- ✓ Poly House

Criterion – VII

7. Innovations and Best Practices

7.1 Innovations introduced during this academic year which have created a positive impact on the functioning of the institution. Give details.

> To promote academic excellence in the teaching and research, the management of AITS has accepted to go for the status of deemed university.

7.2 Provide the Action Taken Report (ATR) based on the plan of action decided upon at the beginning of the year

> IQAC planned the objectives for current year (2014-15) and its progress was monitored through action taken report monthly from all concerned persons. In its meeting these action taken reports were discussed and correction was done appropriately whenever it was required

7.3 Give two Best Practices of the institution *(please see the format in the NAAC Self-study Manuals)*

> **Title of the Practice**: Creation and Uses of Digital Library Facilities for Student Learning Processes
>
> **Goal or Objective of the Practice**
>
> The practice of offering most courses and programs through Digital Library e-learning was initiated during 2012-13. The goal of this practice is to maximize the number of students to make use of Research Journals in new technology, attending webinars, participating in e-debates as part of student learning process. Eventually Institute may thus shift towards open community based student-learning processes.
>
> **The Context**
>
> There is a fast changing technological scene. New technologies are emerging at a rapid pace; the non-availability of faculty in relevant emerging subject/field in right time gives a big loss to the fast learning students. Higher education students need orientation towards to develop new technology and to learn evaluation process of new technology which is published in high reputed journals, presented through webinars and e-classes. The institute encourages and introduces creative learning environment continuously through expertise and high capacity infrastructure; giving thrust on holistic development of learners, so as to fulfil the standards of excellence in higher education.

The Practice

Willing to learning and dedication of student community has undertaken the challenge to make use of digital library facilities for downloading latest research articles to learn and presentation by students in seminars.

A student continues the practice of learning and took challenging tasks to install Wi-Fi in the hostels and campus gives mobility for downloading required research journal papers while on move. Now the virtual class rooms are being installed and the virtual laboratories are being used. The practice of "Creation and uses of Digital Library Facilities in student Learning Processes" is unique in the institute being on such a big scale.

Constraints are as follows: (1) confidence on self learning (2) limitation of student fees fulfilling the needs to run the huge resources required to continue the practice.

Evidence of Success

1. Digital Library facilities deploying on over hundreds of desktops with Internet facilities have made IT enabled class rooms which are now 24x7 learning places for digging e-content on any topic. The visiting student ratio to digital library has eventually increased recently which proves how students are motivated and habituated towards e-learning. Enabling campus with Wi-Fi facility has extended the scope of e-learning from fixed structured network to wireless network. This has a very positive impact on student learning processes in the Institutes. It enabled organization of the Seminars and training programs.

2. With fiber optical cables in existence in the institute since 2005, bandwidth has been boosted significantly. Hostels have been provided with Wi-Fi connectivity. Now Campus is also Wi-Fi enabled since 2011. Any time any where Internet facility enables student to do advanced learning and also finish their projects on time. It gave excellent communication medium between faculty and students. The student has a full access to huge learning resources of internationally top-class Universities and Research bodies. Faculty and students have access to webinars announce by International experts.

3. Virtual Class room has been set to attend to lectures, webinars and practice exercises. Now the virtual class rooms are being installed in several Institutes offered by IIT Bombay under ekalavya scheme. It has and will have positive effect on learning the subjects/recent developments in research and technology. Virtual Laboratories are increasingly used for learning new trends in various fields of Engineering.

Problems Encountered and Resources Required

Institute has provided limited grants per year plan for the renewal of journal subscriptions. Problems thus encountered are "User fees kept high. Rs. 500 per student per Semester". Other problem is lack of appreciation, rewards and incentives for the self efforts of student members who undertake the challenging tasks of reading, applying, developing and creating of new applications and enabling use of Digital Library in student learning process.

Title of the Practice: To enhance research potential of faculty members.

Goal

The aim of this particular practice is to provide necessary infrastructure, human resources and motivation to nurture the research competencies among the faculty members.

The Context

The institute offers 6 UG and 11 PG degree programme in various engineering departments. It is the responsibility of faculty members to inculcate effective learning methodology in their students to understand various engineering concepts. To accomplish this, they need to be creative and innovative in their approach to teaching / learning activities and should possess holistic idea about the subjects what they teach, which requires some level of research competencies in the teaching faculty members.

The Practice

The Institution–Industry interaction cell has been established. The institution encourages the faculty members to publish the research papers, attending national/ International conferences and to carry out consultancy work. The faculty members are encouraged by providing the cash incentive to those who publish research articles in national/international journals. They were sponsored to attend the national/international conferences in India/Abroad.

The cash incentives are provided to those faculty members who are doing the consultancy work based on the amount and nature of work. As many as 4~5 MoUs have been signed between the institution and various industries to carry out the research and consultancy activities.

Evidence of Success

The number of Ph.D., degree holder in the institution has been increased considerably. The results of above said practice increases the number of papers published by the faculty members. A lot of research projects have been sanctioned to our institution for doing the research by the faculty members.

Problem Encountered and Resources required

The staff members are finding it difficult to find the time to carry out this type of activities due to their academic commitment. Quarters are in proposal, to encourage the staff members to stay in the campus to carry out the research activities. Laboratories, e-learning facility and computer aided packages are required for which contribution from the Management and money collected from sponsoring institution have been used.

7.4 Contribution to environmental awareness / protection

AITS seeks to provide   an education combining the generous arts, work and service with a strong commitment to environmental responsibility and cross-cultural understanding in a setting that promotes wisdom, spiritual growth and contribution to the common good.

AITS demonstrate its strong commitment to environmental responsibility through these commitments:

- ✓ Strive within the limits of practical considerations to conserve energy and resources, reduce waste, purchase environmentally friendly products, and minimize our adverse impact on the surrounding environment.
- ✓ Recognize and promote efforts to increase a deep, aesthetic, spiritually based awareness of our connection to the environment among the students of this institute and the larger community.
- ✓ Every year 25~50 trees are planted in the campus

7.5 Whether environmental audit was conducted?   Yes | -- | No | ✓ |

7.6 Any other relevant information the institution wishes to add. (For example SWOT Analysis)

Strengths
- ✓ Practical exposure in contemporary trend along with unvarying curriculum
- ✓ International exposure through various exchange programmes.
- ✓ Inception of several online and student – teachers exchange programmes
- ✓ Initiated several exchange programmes and resilient campus relationship.
- ✓ Sophisticated infrastructure, laboratories and research oriented platforms.
- ✓ Steering capacity building scheduled programmes to faculties of the university and its affiliated colleges.

Weakness
- ✓ Limited number of students' participation in career guidance programmes and placement
- ✓ Campus placement for under graduates are minimized due to less skills
- ✓ Lack of awareness among students on opportunities for better employment and higher education abroad for various courses offered by the institution

Identified
- ✓ Possibility of taking up new projects from International organizations, Central and State government agencies and other private sectors.
- ✓ The infrastructure provides a global platform for Research and other Collaboration programmes
- ✓ Convenient class and practical schedules for various major courses and other inter-disciplinary courses
- ✓ More collaborations and partnerships and internship training with the industries create employment opportunity for the students.
- ✓ Encouraging Student – teacher interaction for their enhanced performance.

8. **Plans of institution for next year**

We are planning to improve more and more on student's quality based on the following:

Academic Excellence

Using a Fixed Learning Policy and then inform our students that how it works.
 A word of attention: fixed learning does not mean a guaranteed passing grade and not every student will succeed by completing their program of study, but every student is worthy of exceptional effort being made using every available means to ensure their successful learning of the course objectives. Any guaranteed learning policy should provide for extra help outside of regular class time and the possibility of retaking courses or units**.**
The administration and teaching staff in colleges will focus on academic excellence often speak of a readiness to spend extra time, both inside and outside of class, to help students who are struggling.

Student Centric core –value
- ✓ The admissions process becomes more focused on students' needs, dreams and goals.
- ✓ Improving the chances of student success involves giving practical life assistance to those students who need a hand-up rather than a hand-out
- ✓ Implement a merit awards system in the college
- ✓ Personal and financial counselling

Name: Dr. N.Mallikharjuna Rao
Co-ordinator,
IQAC Cell
Annamacharya Institute of Technology & Sciences
(Autonomous)
Rajampet-516126, Andhra Pradesh, India

Name: Dr. SMV Narayana
Principal & Chairman
IQAC Cell
Annamacharya Institute of Technology & Sciences
(Autonomous)
Rajampet-516126, Andhra Pradesh, India

Signature of the Coordinator, IQAC

Signature of the Chairperson, IQAC

PRINCIPAL
Annamacharya Institute o
Technology & Science:
NEW BOYANAPALLI - 516 12t
RAJAMPET