

## Hindusthan College of Engineering and Technology Coimbatore – 641 032



### The Annual Quality Assurance Report (AQAR) of the IQAC 2016-17

Submitted to  
National Assessment and Accreditation Council (NAAC)  
Bangalore

#### Hindusthan College of Engineering and Technology

(Accredited by NAAC with 'A' grade, An Autonomous Institution, Affiliated to Anna University, Chennai)

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# The Annual Quality Assurance Report (AQAR) of the IQAC 2016-17

## Part – A

### I. Details of the Institution

1.1 Name of the Institution

1.2 Address Line 1

Address Line 2

City/Town

State

Pin Code

Institution e-mail address

Contact Nos.

Name of the Head of the Institution:

Tel. No. with STD Code:

Mobile:

Name of the IQAC Co-ordinator:

Mobile:

IQAC e-mail address:

1.3 NAAC Track ID (For ex. MHCOGN 18879)

1.4 NAAC Executive Committee No. & Date:   
(For Example EC/32/A&A/143 dated 3-5-2004.  
This EC no. is available in the right corner- bottom  
of your institution's Accreditation Certificate)

1.5 Website address:

Web-link of the AQAR:

For ex. <http://www.ladykeanecollege.edu.in/AQAR2012-13.doc>

#### 1.6 Accreditation Details

Sl. No.	Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1	1 <sup>st</sup> Cycle	A	3.07	2015	2020
2	2 <sup>nd</sup> Cycle				
3	3 <sup>rd</sup> Cycle				
4	4 <sup>th</sup> Cycle				

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

1.8 AQAR for the year (for example 2010-11)

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

- i. AQAR\_10.1.2017\_\_\_\_\_ (DD/MM/YYYY)
- ii. AQAR\_13.12.2017\_\_\_\_\_ (DD/MM/YYYY)
- iii. AQAR\_\_\_\_\_ (DD/MM/YYYY)
- iv. AQAR\_\_\_\_\_ (DD/MM/YYYY)

1.10 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

1.11 Type of Faculty/Programme

Arts  Science  Commerce  Law  PEI (Phys Edu)

TEI (Edu)  Engineering  Health Science  Management

Others (Specify)

1.12 Name of the Affiliating University (for the Colleges)

ANNA UNIVERSITY,  
CHENNAI

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

Autonomy by State/Central Govt. / University

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

2.2 No. of Administrative/Technical staff

2.3 No. of students

2.4 No. of Management representatives

2.5 No. of Alumni

2.6 No. of any other stakeholder and community representatives

2.7 No. of Employers/ Industrialists

2.8 No. of other External Experts

2.9 Total No. of members

2.10 No. of IQAC meetings held

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

Non-Teaching Staff  Students  Alumni  Others

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.  International  National  State  Institution Level

(ii) Themes

Quality Sustenance in Technical Institutions

2.14 Significant Activities and contributions made by IQAC

- The IQAC monitors the overall academic performances of the Institution.
- IQAC insist faculty members to publish more technical papers.

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
Frame Autonomous syllabus very effectively	Autonomous syllabus framed according to latest needs.
Smooth sailing of First year Autonomous batch	Sailed successfully

2.15 Whether the AQAR was placed in statutory body Yes  No

Management  Syndicate  Any other body

Provide the details of the action taken

Management instruct the authorities to use the Autonomy very effectively to the students and society.

## Part – B

### Criterion – I

#### I. 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	4	-	-	-
PG	7	-	-	-
UG	10	-	-	-
PG Diploma	-	-	-	-
Advanced Diploma	-	-	-	-
Diploma	-	-	-	-
Certificate	-	-	-	-
Others	-	-	-	-
<b>Total</b>	21	-	-	-
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.

2016-17 First year comes under Autonomous, rest of the students Affiliated to Anna University Chennai

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

## Criterion – II

### 2. Teaching, Learning and Evaluation

2.1 Total No. of permanent faculty

Total	Asst. Professors	Associate Professors	Professors	Others
370	268	64	34	11

2.2 No. of permanent faculty with Ph.D.

50

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
58	17	6	-	4	-	2	2	70	19

2.4 No. of Guest and Visiting faculty and Temporary faculty

1

2.5 Faculty participation in conferences and symposia:

No. of Faculty	International level	National level	State level
Attended	41	69	4
Presented papers	50	55	-
Resource Persons	7	13	2

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

- Value Added Course and Career Development Programmes are regularly conducted in the campus.
- Teaching-Learning is strengthened through e-learning facilities like NPTEL, E-BOX etc
- E-campus software

2.7 Total No. of actual teaching days

during this academic year

180

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

Internal Assessment - centralized.

End Semester Exam – Autonomous by O/o CoE

Anna University exam

2.9 No. of faculty members involved in curriculum restructuring/revision/syllabus development as member of Board of Study/Faculty/Curriculum Development workshop

68

2.10 Average percentage of attendance of students

87

2.11 Course/Programme wise distribution of pass percentage :

Title of the Programme	Total no. of students appeared	Division				
		Distinction %	I %	II %	III %	Pass %
UG	1288	1.33	81.1	18		76
PG	127	7.36	90	3.15		75

	Total no. of students appeared	Division			
		Distinction %	I %	II %	III %
UG					
Mechanical	212	0.0047	50.94	16.50	-
Civil	137	1.19	72.62	26.19	-
CSE	180	-	66.66	0.06	-
IT	98	-	62	2	-
ECE	201	1.5	68	9.5	
EEE	149	0.67	63.08	22.81	-
EIE	52	-	63.43	9.61	-
Mechatronics	117	0.85	56.41	10.25	-
Aero	142	3.5	52	19	-
PG					
CSE	4	-	100	-	-
CAD/CAM	1		100		
MCA	66				
MBA	56	-	46	3	-

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

1. Academic schedule and academic calendar is followed as per norms.
2. Class committee meeting

3. Peer Group formation

4. Feedback analysis

#### 2.13 Initiatives undertaken towards faculty development

<i>Faculty / Staff Development Programmes</i>	<i>Number of faculty benefitted</i>
Refresher courses	1
UGC – Faculty Improvement Programme	-
HRD programmes	14
Orientation programmes	2
Faculty exchange programme	1
Staff training conducted by the university	7
Staff training conducted by other institutions	53
Summer / Winter schools, Workshops, etc.	110
Others	22

#### 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	32	-	1	-
Technical Staff	39	3	13	-

## Criterion – III

### 3. Research, Consultancy and Extension

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

- Research committee encourages research at departmental level.
- IQAC promotes research through seed money
- IQAC insists faculty to publish research article in referred journals
- International resource person address our faculty in the recent trends

#### 3.2 Details regarding major projects

	Completed	Ongoing	Sanctioned	Submitted
Number		1	-	3
Outlay in Rs. Lakhs				53.75

#### 3.3 Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number	6	2	-	12
Outlay in Rs. Lakhs	0.957	0.048		2.4

#### 3.4 Details on research publications

	International	National	Others
Peer Review Journals	93	-	-
Non-Peer Review Journals	15	-	-
e-Journals	43	-	-
Conference proceedings	77	21	-

#### 3.5 Details on Impact factor of publications:

Range  Average  h-index  Nos. in SCOPUS

#### 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				
Minor Projects	0.5	IEI	50,000	50,000
Interdisciplinary Projects				
Industry sponsored				
Projects sponsored by the University/ College				
Students research projects <i>(other than compulsory by the University)</i>				
Any other(Specify)	International Conference	IEI	20,000	20,000
Total				70,000

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

ii) Without ISBN No.

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	4	6	2	-	6
Sponsoring agencies	IEEE,IEI	HICET			Management

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

3.13 No. of collaborations International  National  Any other

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

Total

3.16 No. of patents received this year

Type of Patent		Number
National	Applied	1
	Granted	1
International	Applied	
	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
13	-	3	-	5	-	5

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

27

73

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

8

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  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

## Criterion – IV

### 4. Infrastructure and Learning Resources

#### 4.1 Details of increase in infrastructure facilities:

Facilities	Existing	Newly created	Source of Fund	Total
Campus area	123834m	-	Management	123834m
Class rooms	67	3	Management	70
Laboratories	88	2	Management	90
Seminar Halls	6	1	Management	7
No. of important equipments purchased ( $\geq 1$ -0 lakh) during the current year.	23	6	Management	29
Value of the equipment purchased during the year (Rs. in Lakhs)		5.6L	Management	
Others				

#### 4.2 Computerization of administration and library

More computers added in Digital Library

#### 4.3 Library services:

	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
Text Books	55913	28,574,172/-	6965	8,12,225/-	62,878	29,386,397/-
Reference Books	5787	7,11,220/-	85	45,405/-	5872	756,625/-
e-Books	9780	Delnet Membership	435	Delnet Membership	10,215	Delnet Membership
Journals	179	9 Lakhs	-	-	179	9 Lakhs
e-Journals	1775	7 Lakhs	-	-	1775	7 Lakhs
Digital Database	3	9 Lakhs	-	-	3	9 Lakhs
CD & Video	3445	1,10,000/-	249	25,000/-	3694	1,35,000/-
Others (specify)	-	-	-	-	-	-

#### 4.4 Technology up gradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Departments	Others
Existing	1440	19	Reliance	2	4	10		
Added	150		BSNL					
<b>Total</b>	<b>1590</b>	<b>19</b>	<b>70 Mbps</b>	<b>2</b>	<b>4</b>	<b>10</b>		

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

Reliance: (36Mbps)
BSNL : (34Mbps)

#### 4.6 Amount spent on maintenance in lakhs :

i) ICT	Rs.2,19,552
ii) Campus Infrastructure and facilities	Rs.1, 28,000
iii) Equipments	Rs.2,89,564
iv) Others	
<b>Total :</b>	<b>Rs.6,37,11</b>

## Criterion – V

### 5. Student Support and Progression

#### 5.1 Contribution of IQAC in enhancing awareness about Student Support Services

1. Students to participate various committees and decision making.
2. Students skill development programme
3. Placement related activities
4. EDC programme
5. Remedial classes and Guest lectures
6. Value Added Course
7. Support for slow learners

#### 5.2 Efforts made by the institution for tracking the progression

1. Career development programme conducted – Mock test
2. Inplant/Internship training - Report submitted
3. Project demonstration – demonstrated
4. Value Added course – Feedback taken

#### 5.3 (a) Total Number of students

UG	PG	Ph. D.	Others
5246	249	29	-

#### (b) No. of students outside the state

311
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#### (c) No. of international students

-
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Men	No	%	Women	No	%
	4034			1490	

Last Year						This Year					
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
990	437	12	3340	-	4779	1669	488	13	3805	-	10754

Demand ratio 0.93

Dropout % 3

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

- Hindusthan IAS Academy is providing coaching to UPSC exams
- GATE Coaching

No. of students beneficiaries

1641

#### 5.5 No. of students qualified in these examinations

NET  SET/SLET  GATE  CAT   
 IAS/IPS etc  State PSC  UPSC  Others

#### 5.6 Details of student counselling and career guidance

- Career guidance coaching given to students
- Coaching for competitive examinations
- Placement related coaching

No. of students benefitted

1377

#### 5.7 Details of campus placement

<i>On campus</i>			<i>Off Campus</i>
Number of Organizations Visited	Number of Students Participated	Number of Students Placed	Number of Students Placed
69	847	386	20

#### 5.8 Details of gender sensitization programmes

- POSH cell activities
- Women Empowerment cell

#### 5.9 Students Activities

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

State/ University level

220

National level

International level

No. of students participated in cultural events

State/ University level  National level  International level

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

Sports : State/ University level   
 National level  International level

Cultural: State/ University level  National level  International level

5.10 Scholarships and Financial Support

	Number of students	Amount
Financial support from institution	41	7.9L
Financial support from government	406	44368L
Financial support from other sources	24	6L
Number of students who received International/ National recognitions		

5.11 Student organised / initiatives

Fairs : State/ University level  National level  International level

Exhibition: State/ University level  National level  International level

5.12 No. of social initiatives undertaken by the students

5.13 Major grievances of students (if any) redressed: Nil

## Criterion – VI

### **6. Governance, Leadership and Management**

6.1 State the Vision and Mission of the institution

<p style="text-align: center;"><b>VISION</b></p> <ul style="list-style-type: none"><li>• To become a premier institution by producing professionals with strong technical knowledge, innovative research skills and high ethical values</li></ul> <p style="text-align: center;"><b>MISSION</b></p> <ul style="list-style-type: none"><li>• To provide academic excellence in technical education through novel teaching methods.</li><li>• To empower students with creative skills and leadership qualities.</li><li>• To produce dedicated professionals with social responsibility.</li></ul>
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6.2 Does the Institution has a management Information System

<p>Yes, Institution use eCampus portal which monitors daily student attendance, internal marks, study materials, student project details etc and for faculty, profile, timetable, and workload etc.</p>
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6.3 Quality improvement strategies adopted by the institution for each of the following:

6.3.1 Curriculum Development

<ul style="list-style-type: none"><li>• Anna University Curriculum</li><li>• Autonomous Curriculum</li></ul>
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6.3.2 Teaching and Learning

<ul style="list-style-type: none"><li>• Lecture plan is prepared well in advance</li><li>• Course information sheet is also prepared</li><li>• ICT method of teaching learning</li></ul>
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### 6.3.3 Examination and Evaluation

**Anna University –**

1. Three Internal examinations
2. University Examinations

**Autonomous –**

1. Three internal and one mid-sem exam
2. End Semester Exam

### 6.3.4 Research and Development

- 50 faculty members are Ph.D holders.
- Faculty members are motivated to publish their article in referred journal.
- 4 departments are recognized as research center by Anna University Chennai

### 6.3.5 Library, ICT and physical infrastructure / instrumentation

Central Library is equipped with all engineering and allied departments books beside with educational CDs, periodicals, Magazine and Ph.D. theses.

### 6.3.6 Human Resource Management

- The institution has well structured documented policy on appointment of staff, training and development.
- Managing trustee of the college is a able administrator to carry out various requirements of the institution then and there.

### 6.3.7 Faculty and Staff recruitment

Faculty and staff requirement advertisement given in leading news paper. Advisor, Principal, HoD and expert member conduct interview and final list is prepared.

### 6.3.8 Industry Interaction / Collaboration

Through MoUs more events conducted like value added course, project internship etc.

### 6.3.9 Admission of Students

Admission is based on merit by counselling by Government of Tamil Nadu and consortium

### 6.4 Welfare schemes for

Teaching	Provident fund, college bus concession, insurance, maternity leave, vacation, OD CL etc
Non teaching	Provident fund, college bus concession, insurance, maternity leave, vacation, OD CL etc
Students	Scholarships, Fee waiver, counselling cell etc

### 6.5 Total corpus fund generated

-

### 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	Rehinland TUV	Yes	M.R.
Administrative	Yes	Rehinland TUV	Yes	M.R.

### 6.8 Does the University/ Autonomous College declares 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?

- Timely publishing of results
- Centralized answer script evaluation

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

University will provide NOC to enable to apply autonomy as per norms.

6.11 Activities and support from the Alumni Association

- Registered Alumni association
- Alumni meeting once in a year

6.12 Activities and support from the Parent – Teacher Association

- Every academic year Parent and Teacher meeting is being organized by all the departments.
- Parents also extend their cooperation and support towards the meeting.

6.13 Development programmes for support staff

- Training programmes are organized once in a semester for Updation of knowledge.
- Recently National Teacher Training Institute faculty conducted course for our faculty.

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

- Rain Water harvesting structure
- Green campus initiative
- Battery operated car inside the campus
- Litter Free Zone campus

## 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.

- Online feedback system successfully installed in campus
- ICT based teaching method was adopted

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

- Created separate computer lab for corporate relation cell
- Bio-metric attendance is well structured in the campus for all staff.

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

1. Fee Concession to meritorious students
2. Value Added Course

7.4 Contribution to environmental awareness / protection

- Green Campus
- Solar lighting
- Litter Free Zone
- Battery operated car inside 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)

Strength:

- Autonomous Institution
- Good Students Enrolment ratio
- All faculty members are with PG degree
- Good faculty retention

Weakness:

- No patent
- No Professor Emeritus

Opportunities:

- Expand to start new courses
- Collaboration with Industries

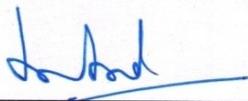
Challenges:

- Best practice of foreign university
- Exposure to faculty on industry culture

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

- Introduce new courses
- To get more research funding
- To get more programme accredited

Name Dr.B.ANAND



Signature of the Coordinator, IQAC

Name Dr.T.KANNADASAN



Signature of the Chairperson, IQAC