Hindusthan College of Engineering and Technology Coimbatore – 641 032

The Annual Quality Assurance Report (AQAR) of the IQAC 2015-16

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)

Othakkalmandapam (po), Coimbatore – 641 032, Tamil Nadu, INDIA

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www.hindusthan.net

Part – A

AQAR for the year *(for example 2013-14)* | 2015-16

1. Details of the Institution

1.1 Name of the Institution | Hindusthan College of Engineering and Technology

1.2 Address Line 1 | Othakkalmandapam (po),

Address Line 2 | Pollachi Mani Road, Coimbatore

City/Town | Coimbatore

State | Tamil Nadu

Pin Code | 641 032

Institution e-mail address | hicetprincipal@hindusthan.net

Contact Nos. | 0422 - 2611833

Name of the Head of the Institution: | Dr.T.KANNADASAN

Tel. No. with STD Code: | 0422-2611844

Mobile: | 09894100454

Name of the IQAC Co-ordinator: | Dr.B.ANAND

Mobile: 09843048080

IQAC e-mail address: hicetiqac@hindusthan.net

1.3 **NAAC Track ID** *(For ex. MHCOGN 18879)*   TNCOGN23258

OR

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: www.hindusthan.net

Web-link of the AQAR: www.hindusthan.net/hicet/aqar1516.pdf

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	1st Cycle	A	3.07	2015	2020
2	2nd Cycle				
3	3rd Cycle				
4	4th Cycle				

1.7 Date of Establishment of IQAC :   DD/MM/YYYY   08/12/2014

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 __10.1.17_____ _____ (DD/MM/YYYY)
   ii. AQAR_____ _____ (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)*   ANNA UNIVERSITY, CHENNAI

1.12 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*)	Autonomous by UGC
UGC-COP Programmes			

2. IQAC Composition and Activities

2.1 No. of Teachers

8

2.2 No. of Administrative/Technical staff

2

2.3 No. of students

1

2.4 No. of Management representatives

1

2.5 No. of Alumni

1

2. 6 No. of any other stakeholder and

   community representatives

2

2.7 No. of Employers/ Industrialists

2

2.8 No. of other External Experts

2

2.9 Total No. of members

19

2.10 No. of IQAC meetings held

2.11 No. of meetings with various stakeholders: No.   6   Faculty   2

       Non-Teaching Staff Students   2   Alumni   1   Others   1

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. [1]   International [ ]   National [ ]   State [ ]   Institution Level [1]

   (ii) Themes   Quality Sustenance

2.14 Significant Activities and contributions made by IQAC

- IQAC maintains Green campus.
- The IQA Cell encourages the faculty members to attend seminars, workshops, FDPs, and to publish papers in referred conferences/journals.
- The IQA Cell monitors the overall performances of the institution

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
Motivate more number of research publications	Total publications increased by two fold
Green Campus	Plant more number of saplings

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 suggest regarding carbon neutrality in the campus, IQAC accept and act accordingly.

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	4	-	-	-
PG	7	-	-	-
UG	10	-	-	-
PG Diploma	-	-	-	-
Advanced Diploma	-	-	-	-
Diploma	-	-	-	-
Certificate	-	-	-	-
Others	-	-	-	-
Total	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.

   2015-16 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
349	261	58	26	10

2.2 No. of permanent faculty with Ph.D.

39

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
96	2	18	6	12	5	6	5	132	18

2.4 No. of Guest and Visiting faculty and Temporary faculty

-	-	-

2.5 Faculty participation in conferences and symposia:

No. of Faculty	International level	National level	State level
Attended	51	70	02
Presented papers	137	31	-
Resource Persons	10	57	04

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

- Institution academic activities are automated through 'e-Campus' portal.

- Value Added Courses and Career Development Programmes are regularly conducted.

- Teaching-Learning is strengthened through e-learning facilities.

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)

- Centralized Internal Exam

- University Examinations are as per University norms

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

21	12	14

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

2.10 Average percentage of attendance of students

88.19%

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.E-Aeronautical Engineering	137	3.6	51.09	9.5	-	64
B.E-Automobile Engineering	Currently III year					
B.E.Civil Engineering	72	1.39	43.06	13.89	-	58.33
B.E-Computer Science Engineering	125	1.6	79.2	1.6	17.6	82.4
B.E-Electronics and Communication Engineering	201	1.5	68	9.5	-	79
B.E-Electrical and Electronics Engineering	130	0.9	81	18.1	-	85.4
B.E-Electronics and Instrumentation Engineering	71	1.9	84.3	13.7	28.2	71.8
B.Tech-Information Technology	104	0.038	56	0.15	-	75.96
B.E-Mechanical Engineering	213	0.46	50.7	3.8	-	78.4
B.E.Mechatronics engineering	70	-	60	5.71	-	65.71
M.E-Applied Electronics	8	-	100	-	-	100
M.E-Communication System	15	-	100	-	-	100
M.E- Computer Science Engineering	21	9.52	90.47	-	-	100
M.E-CAD/CAM	9	-	100	-	-	100
Master of Business Administration (MBA)	58	0	77.8	17.2	-	95

Master of Computer Applications	66	6.06	84.84	1.5	-	92.42

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

1. Class room visit by Principal/Vice-Principal/HoD real time assessment of teaching quality.
2. Performance appraisal of individual faculty member is analyzed based on the various criteria such as University / Internal exam results, students' feedback, punctuality and cooperation in college/department activities.

2.13 Initiatives undertaken towards faculty development   177

Faculty / Staff Development Programmes	*Number of faculty benefitted*
Refresher courses	04
UGC – Faculty Improvement Programme	01
HRD programmes	-
Orientation programmes	-
Faculty exchange programme	01
Staff training conducted by the university	18
Staff training conducted by other institutions	31
Summer / Winter schools, Workshops, etc.	76
Others	46

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	8	1	1	-
Technical Staff	37	1	9	-

Criterion – III

3. Research, Consultancy and Extension

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

> 1. IQAC encourages the staff members to apply grants for conducting events.
>
> 2. IQAC monitors these activities through research committee.
>
> 3. IQAC plays vital role to improve teaching-learning process.

3.2   Details regarding major projects

	Completed	Ongoing	Sanctioned	Submitted
Number	1	-	-	11
Outlay in Rs. Lakhs	8.0	-	-	106.02

3.3   Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number	1	1	-	09
Outlay in Rs. Lakhs	1.95	1.0	-	1.2

3.4   Details on research publications

	International	National	Others
Peer Review Journals	76	-	-
Non-Peer Review Journals	14	01	-
e-Journals	68	-	-
Conference proceedings	134	36	-

3.5 Details on Impact factor of publications:

Range | 0.001-20.090 | Average | 4.178 | h-index | 69 | Nos. in SCOPUS | 93

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	2015-16	Venkateshwara Modern Dairy Farm	40,000	40,000
Interdisciplinary Projects				
Industry sponsored				
Projects sponsored by the University/ College				
Students research projects *(other than compulsory by the University)*	2015-16	Institution of Engineers (India)	35,000	35,000

Any other(Specify)	2015-16	IEEE Madras Section	5,000	5,000
Total			80,000	80,000

3.7 No. of books published   i) With ISBN No.   9   Chapters in Edited Books   -

ii) Without ISBN No.   11

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   Rs.4,62,825/-

3.11 No. of conferences

organized by the Institution

Level	International	National	State	University	College
Number	6	5	-	-	3
Sponsoring agencies	IEEE,CSI	-	-	-	-

3.12 No. of faculty served as experts, chairpersons or resource persons   35

3.13 No. of collaborations   International 12   National 12   Any other -

3.14 No. of linkages created during this year   41

3.15 Total budget for research for current year in lakhs :

From Funding agency 1.55   From Management of University/College 25.69

Total 27.24

3.16 No. of patents received this year

Type of Patent		Number
National	Applied	03
	Granted	-
International	Applied	-
	Granted	-
Commercialised	Applied	01
	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
10	08	02	-	-	-	-

3.18 No. of faculty from the Institution
        who are Ph. D. Guides

23

      and students registered under them

63

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

9

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 8   State level   -

National level 2   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 1   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 [08]

NCC [-] NSS [10] Any other [02]

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

- Computer Awareness and Communicative English for Government School Teachers has been organized.

- The World record contest on creating national Flag by thump impression of school students organises by Elite Circle associated with the college

- Reducing waste with the help of waste by ECO club of the college.

- Blood donation camp by Shanthi Social Service through college.

- Awareness Programme about preventing kidney disease on The World Kidney Day.

- Computer awareness to kids & Fun activities by Families for children Orphan Centre
- Basic Computer Course(BCC) by Elctro meck Industries, Coimbatore

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	121406 m	2428 m	Management	123834
Class rooms	65	2	Management	67
Laboratories			Management	
Seminar Halls	4	2	Management	4
No. of important equipments purchased (≥ 1-0 lakh) during the current year.	20	3	Management	23
Value of the equipment purchased during the year (Rs. in Lakhs)		4.5 L	Management	
Others				

4.2 Computerization of administration and library

> 1. eCampus Software – Attendance / Academic
>
> 2. LIPSinet – Library Automation

4.3 Library services:

	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
Text Books	51325	28,028,947/-	4588	5,45,225/-	55913	28,574,172/-
Reference Books	4175	4,80,295/-	1612	2,30,925/-	5787	7,11,220/-
e-Books	9780	Delnet Membership	11	Delnet Membership	9791	Delnet Membership
Journals	179	8 Lakhs	-	-	179	8 Lakhs
e-Journals	1775	7 Lakhs	-	-	1775	7 Lakhs
Digital Database	3	9 Lakhs	-	-	3	9 Lakhs
CD & Video	3170	95,000/-	275	15,000/-	3445	1,10,000/-
Others (specify)	-	-	-	-	-	-

4.4 Technology up gradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Depart-ments	Others
Existing	1460	21	All system	4	3	12		
Added	140	3	All system	1	1	2		
Total	1600	24		5	4	14		

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

> eCampus software is used for all purpose

4.6 Amount spent on maintenance in lakhs :

  i) ICT   12.5

  ii) Campus Infrastructure and facilities   95

  iii) Equipments   6.2

iv) Others

| 10 |

Total : | 123.7 |

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
>
> 2. Inplant/Internship training
>
> 3. Project demonstration

5.3 (a) Total Number of students

UG	PG	Ph. D.	Others
4889	290	28	-

(b) No. of students outside the state | 322 |

(c) No. of international students | - |

Men
No	%
3324	68

Women
No	%
1565	32

2014-15						2015-16					
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
4478	412	3			4893	4647	426	5			5078

Demand ratio   0.92   Dropout % 4

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

> 1. Free IAS Coaching Academy
>
> 2. Coaching classes for GATE exam etc

No. of students beneficiaries | 569 |

5.5 No. of students qualified in these examinations

| NET | - | SET/SLET | - | GATE | 06 | CAT | - |

| IAS/IPS etc | - | State PSC | 01 | UPSC | - | Others | 20 |

5.6 Details of student counselling and career guidance

> 1. Career guidance coaching given to students
>
> 2. Coaching for competitive examinations
>
> 3. Placement related coaching

No. of students benefitted | 1123 |

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
22	630	258	101

5.8 Details of gender sensitization programmes

> 1. Orientation programme through women Empowerment Cell
>
> 2. POSH cell activities

5.9 Students Activities

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

State/ University level | 4 | National level | 2 | 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 | 4 | National level | 1 | International level | -

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

5.10 Scholarships and Financial Support

	Number of students	Amount INR
Financial support from institution	32	6.5 L
Financial support from government	385	41.94 L
Financial support from other sources	20	5 L
Number of students who received International/ National recognitions		

5.11   Student organised / initiatives

Fairs   : State/ University level | 11 | National level | 4 | International level | 1

Exhibition: State/ University level | 1 | National level | 2 | International level | -

5.12   No. of social initiatives undertaken by the students | 24

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

Criterion – VI

6. Governance, Leadership and Management

6.1 State the Vision and Mission of the institution

VISION: To become a premier institution by producing professional with strong technical knowledge, innovative research skills and high ethical values.

MISSION:

➢ To provide academic excellence in technical education through novel teaching methods.
➢ To empower students with creative skills and leadership qualities.

➢ To produce dedicated professionals with social responsibility.

6.2 Does the Institution has a management Information System

Yes, our Institution adopts eCampus software which monitors daily student attendance, internal marks, study materials, student project details etc and for faculty, profile, timetable, and workload etc.

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

6.3.1 Curriculum Development

As per the Anna University curriculum

6.3.2 Teaching and Learning

Lecture plan is prepared well in advance and give to students

Chalk and Talk, LCD projector etc

6.3.3 Examination and Evaluation

Internal Examination: Three Internal examination and one Model exam conducted

University Examinations: As per Anna University

6.3.4 Research and Development

> 45 faculty members are Ph.D holders. Faculty members are motivated to publish their article in referred journal. Four 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, Magazine and Ph.D. thesis.

6.3.6 Human Resource Management

> The institution has a well written documented policy on appointment of staff, training and development.. Secretary and Joint Secretary of the college are providing leadership and able administration to carry out various requirements of the institution.

6.3.7 Faculty and Staff recruitment

> Faculty and staff requirement advt given In the leading news paper. Applications are scrutinized and call for interview. Principal, HoD and Expert member will conduct interview.

6.3.8 Industry Interaction / Collaboration

> Industry Institute Interaction will take care the technical collaboration with Industry in turns conducting seminars, MoUs.

6.3.9 Admission of Students

> Admission is based on merit by counselling by Government.

6.4 Welfare schemes for

Teaching	PF, Insurance, Concession in College bus
Non teaching	PF, Insurance, Concession in College bus
Students	Scholarships and Fee waiver

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	Y	Rehinland, TUV	Y	M.R.
Administrative	Y	Rehinland, TUV	Y	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?

eCampus software has been extensively used for internal marks and attendance report

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

Autonomous Committee Visited our campus.

6.11 Activities and support from the Alumni Association

Alumni Association is formed in the institution. Yearly once Meeting is organized and deliberations are recorded.

6.12 Activities and support from the Parent – Teacher Association

1. Every academic year Parent and Teacher meeting is being organized by all the departments.
2. 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.

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

1. Rain Water harvesting structure created

2. Green campus initiative

3. Battery operated van inside the 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.

> 1. Evaluation strategies were introduced for various aspects of academic development.
> 2. Academic and administrative audit system were introduced and carried out once in a semester.
> 3. ICT training were introduced to all teaching and non-teaching staff.

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

> Value Added Courses are organized as per plan of action.

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

> 1. Regular Value Added Course conducted
>
> 2. Usage of Computers – Hands on for Housewives

7.4 Contribution to environmental awareness / protection

> 1. Solar powered light
>
> 2. Rain water Harvesting
>
> 3. Battery operated van
>
> 4. Green campus

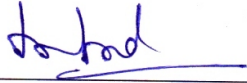7.5 Whether environmental audit was conducted?   Yes √   No ☐

7.6 Any other relevant information the institution wishes to add.

> 1. Bio-metric attendance introduced for faculty and staff members.
>
> 2. Separate class rooms for corporate relation cell was created

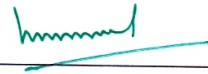## 8. Plans of institution for next year

1. To get NBA Accreditation

2. To increase R & D activities in the next academic year

Name: Dr.B.ANAND

Signature of the Coordinator, IQAC

Name : Dr.T.KANNADASAN

Signature of the Chairperson, IQAC