Annual Quality Assurance Report (AQAR) - 2016-17

Submitted
To

National Assessment and Accreditation Council (NAAC)

राष्ट्रीय मूल्यांकन एवं प्रत्यायन परिषद्

विश्वविद्यालय अनुदान आयोग का स्वायत्त संस्थान

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

Submitted by

GURU NANAK INSTITUTIONS TECHNICAL CAMPUS
Ibrahimpatnam, R. R. District- 501506
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The Annual Quality Assurance Report (AQAR) of the IQAC
Part – A

AQAR for the year : 2016-17

1. Details of the Institution

1.1 Name of the Institution

> **GURU NANAK INSTITUTIONS TECHNICAL CAMPUS**

1.2 Address Line 1

> KHANAPUR (V)

Address Line 2

> IBRAHIMPATNAM,
> RANGA REDDY (Dist)

City/Town

> HYDERABAD

State

> TELANGANA STATE

Pin Code

> 501506

Institution e-mail address

> director.gnitc@gniindia.org

Contact Nos.

> 08414-202120, 201121

Name of the Head of the Institution:

> Dr M Ramalinga Reddy

Tel. No. with STD Code:

> 08414-202120, 201121

Mobile:

> +91 84979 00081

Name of the IQAC Co-ordinator:

Dr M A Khadar Baba

Mobile:

+91 80966 09843

IQAC e-mail address:

iqac@gniindia.org

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

TSCOGN14203

1.4 **NAAC Executive Committee No. & Date:**
)

NAAC/A&A/OC/EC-54/43/2011

1.5 Website address:

www.gnindia.org

Web-link of the AQAR:

http://www.gniindia.org//AQAR2016-17.doc

1.6 Accreditation Details

Sl. No.	Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1	1st Cycle	B	2.36	Jan`2011	Jan`2016

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

15/03/2004

1.8 AQAR for the year

2016-17

1.9 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 2013-14 submitted to NAAC on 30/07/2014
   ii. AQAR 2014-15 submitted to NAAC on 22/07/2015
   iii. AQAR 2015-16 submitted to NAAC on 24/07/2016

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)   .   PHARMACY

1.12 Name of the Affiliating University   Jawaharlal Nehru Technological University Hyderabad (JNTUH), Telangana.

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 ☑

(*UGC Autonomous*)

UGC-COP Programmes ☐

2. IQAC Composition and Activities

2.1 No. of Teachers | 06

2.2 No. of Administrative/Technical staff | 01

2.3 No. of students | 08

2.4 No. of Management representatives | 02

2.5 No. of Alumni | 02

2. 6 No. of any other stakeholder and

   Community representatives | 01

2.7 No. of Employers/ Industrialists | 03

2.8 No. of other External Experts | 01

2.9 Total No. of members | 24

2.10 No. of IQAC meetings held   :   02

☐   02

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

Non-Teaching Staff Students | 01 | Alumni | 01 | 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 | 02 | International [ ] National [ ] State | 01 | Institution Level | 02 |

(ii) Themes | Seminar on Internal System of Quality Assurance in Higher Education |

2.14 Significant Activities and contributions made by IQAC

1. Seminars were conducted for Faculty and Non-Teaching Staff to create awareness about quality aspects.
2. Quality Indices for departments and the Institute are generated and implemented.
3. Based on the indices, analysis is done in the areas of attendance, results, faculty publications, projects, faculty quality, placements, intake gender ratio etc..
4. Analysis of research publications was done. FDP conducted on Research Publication.
5. Periodical meetings are conducted to review the progress.

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 2016-17

Plan of Action	**Achievements**
Gap Analysis based on previous NAAC accreditation Report.	Improvement in publication, both in quality &number. Teaching & Learning process was improved to meet the autonomous standards. No. of placements are increased with the improvement in the placement training.
Regular analysis based on quality indices are prepared by IQAC.	The indices made a good impact in improving the attendance, research works and placements.
Preparation of a roadmap of NAAC work	Improvements are noticed in the criteria due to no. of review meetings and workshops.

Academic Calendar of the year as Annexure -I.

2.16 Whether the AQAR was placed in statutory body   Yes ☑   No ☐

Management ☐   Syndicate ☐   Any other body ☑

Provide the details of the action taken

The proposed plan of action has been placed before IQAC for discussion and approval. The AQAR has been scrutinised and approved for implementation

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	**9**	-	**9**	-
UG	**8**	-	**8**	-
PG 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 (UG :8, PG :9)**
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.

- Received conferment of Autonomous from UGC
- CBCS is introduced w.e.f the academic year 2016-17
- Earlier we followed JNTUH(Affiliating University) syllabus provided to the affiliated colleges. From 2016-17 onwards semester system is introduced in place of annual system for I year.
- Department advisory committee made a study on syllabus of several institutions and prepared a new course structure and syllabus and the same was deliberated upon with due discussions before approval by BOS and Academic Council.
- In syllabus open and subject electives were introduced. Zero credit courses, student-internship programs are also added in the curriculum.

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

No

Criterion – II

2. Teaching, Learning and Evaluation

2.1 Total No. of permanent faculty

Total	Asst. Professors	Associate Professors	Professors	Others
441	302	87	52	-

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
301	-	82	-	52	-	-	-	441	-

2.4 No. of Guest and Visiting faculty and Temporary faculty

00	04	NIL

2.5 Faculty participation in conferences and symposia:

No. of Faculty	International level	National level	State level
Attended	112	86	24
Presented papers	65	42	05
Resource Persons	04	14	-

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

- Class rooms are provided with LCD projectors

- e-learning resources to students.

- Computer aided teaching : ICT enabled teaching from 1st year

- Interactive sessions by conducting group discussions, quiz etc.

- Guest lectures by eminent academician /resource persons from reputed institutions/industry.

- Digital Library

- Technical paper, model presentations in conferences by students.

- Encouraging students for participating in internship programs in industry.

- 90% of students are working on their Mini & Main Projects in Various centres for excellence in the campus.

- Bridge courses are conducted for newly admitted International students. Encouraging students in ' Earn while Learn " Scheme.

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

| 181 |

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

| Bar Coding, Single valuation with OMR |

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

| 64 | 96 | 24 |

2.10 Average percentage of attendance of students

| UG: 80% PG: 85% |

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						
CIVIL	202	43	104	7	0	77.8
EEE	128	25	60	12	0	77
ME	245	61	123	15	0	81.2
ECE	414	177	158	14	0	85.1
CSE	268	80	120	15	0	81.1
IT	45	8	18	1	0	61.4
AE	34	7	14	3	0	72.7
B.Pharmacy	108	36	40	4	0	74.07
PG						
DSCE	7	5	0	0	0	71
SE	7	3	2	0	0	71
DECS	10	6	1	0	0	70
MD	11	7	0	0	0	64
CSE	11	6	3	0	0	82
HE	5	2	1	0	0	60
Pharm D	30	24	3	0	0	90
M.Pharmacy	54	21	9	0	0	55.55
MBA	57	7	18	1	0	47

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

IQAC has prepared a roadmap to improve the quality standards in Teaching and Learning. IQAC continually monitors and evaluates Teaching –Learning process by:

• Analysing results and suggesting measures for improvement.

• Analysing student's feedback and suggesting HODs to take measures.

 • Analysing stakeholders' feedback on curriculum and suggesting the Dept HODs to make appropriate changes in the curriculum.

• Monitoring the student and staff attendance on daily / monthly basis.

• Organizing Seminars / FDPs.

• Generating quality indices on diverse teaching-learning parameters in order to specify lag and lead indicators that help further improvement and corrections.

• Conducting regular internal meetings with the Management, Principal, and Heads of the Departments for continuous inputs and sharing the analysis reports.

• Periodical Internal Academic Audit

2.13 Initiatives undertaken towards faculty development

Faculty / Staff Development Programmes	*Number of faculty benefitted*
Refresher courses	24
UGC – Faculty Improvement Programme	0
HRD programmes	37
Orientation programmes	43
Faculty exchange programme	0
Staff training conducted by the university	2
Staff training conducted by other institutions	82
Summer / Winter schools, Workshops, etc.	96
Others	4

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	124	124	-	-
Technical Staff	98	98	-	-

Criterion – III

3. Research, Consultancy and Extension

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

The IQAC in coordination with Dean-R&D conducts meetings for sensitizing and promoting research climate in the Campus. The IQAC through Research, Development and Consultancy Centre has sensitized the faculty to obtain research grants for quality research and publishing research findings in peer reviewed and high impact fact journals.

3.2   Details regarding major projects

	Completed	Ongoing	Sanctioned	Submitted
Number	-	-	-	15
Outlay in Rs. Lakhs	-	-	-	531.94

3.3   Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number	7	13	12	20
Outlay in Rs. Lakhs	18.06	30.55	44.00	53.24

3.4   Details on research publications

	International	National	Others
Peer Review Journals	78	10	-
Non-Peer Review Journals	4	5	-
e-Journals	6	-	-
Conference proceedings	12	4	-

3.5 Details on Impact factor of publications:

Range [0.5 to 4.5] Average [2.5] h-index [4] Nos. in SCOPUS [1]

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	2 years	UGC	28.7	28.7
Minor Projects	3 year	UGC	8.05	6.75
	1 Year	UGC	1.0	0.9
	2 Years	UGC	4.5	3.5
	1 Year	CSIR	0.7	0.7
	1 Year	UGC	0.6	0.6
	1 Year	DST	1.0	1.0

Interdisciplinary Projects	-	-	-	-
Industry sponsored	-	-	-	-
Projects sponsored by the University/ College	1 Year	GNITC	0.5	0.5
Students research projects *(other than compulsory by the University)*	-	-	-	-
Any other(Specify)	1 Year	IEI	0.5	0.5
Total	-	-	45.55	43.95

3.7 No. of books published   i) With ISBN No. | 6 | Chapters in Edited Books | 1 |

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 | Rs 4.77 Lakhs |

3.11 No. of conferences organized by the Institution

Level	International	National	State	University	College
Number	2	2	-	-	2
Sponsoring agencies	GNITC,DST,	GNITC	-	-	GNITC

3.12 No. of faculty served as experts, chairpersons or resource persons | 42 |

3.13 No. of collaborations   International | 1 | National | - | Any other | - |

3.14 No. of linkages created during this year | 1 |

3.15 Total budget for research for current year in lakhs :

From funding agency | 45.55 | From Management of University/College | 2.43 |

Total | 47.98 |

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
01	-	1	-	-	-	-

3.18 No. of faculty from the Institution
     who are Ph. D. Guides $\boxed{-}$
     and students registered under them $\boxed{-}$

3.19 No. of Ph.D. awarded by faculty from the Institution $\boxed{-}$

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

    JRF $\boxed{-}$ SRF $\boxed{-}$ Project Fellows $\boxed{-}$ Any other $\boxed{-}$

3.21 No. of students Participated in NSS events:

    University level $\boxed{50}$ State level $\boxed{-}$

    National level $\boxed{-}$ International level $\boxed{-}$

3.22 No. of students participated in NCC events:

    University level $\boxed{-}$ State level $\boxed{-}$

    National level $\boxed{-}$ International level $\boxed{-}$

3.23 No. of Awards won in NSS:

    University level $\boxed{-}$ State level $\boxed{-}$

    National level $\boxed{-}$ International level $\boxed{-}$

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 by students and staff
- First Aid training programme to students and Transport Drivers
- Awareness Programme on Anti Ragging
- Conducted Harithaharam plantation program
- Awareness camps on social problems
- Mega Health camp
- Special camps in rural villages
- Technology learning programs in schools

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	26.13 Acres	_	GNITC	26.13 Acres
Class rooms	106	06	GNITC	112
Laboratories	94	08	GNITC	102
Seminar Halls	09	03	GNITC	12
No. of important equipments purchased (≥ 1-0 lakh) during the current year.	-	-		-
Value of the equipment purchased during the year (Rs. in Lakhs)	267.39	102.79	GNITC	370.18
Others (Drawing Halls)	6	-	GNITC	6

4.2 Computerization of administration and library

Computerisation of the GNITC- Library & Information Centre

GNITC Library & Information centre automated its housekeeping operations by using SOUL: an integrated Library automation software developed by INFLIBNET a unit of   UGC.

Library created its resources Database and provided Online Public Access Catalogue (OPAC) through which users can be accessed from any of the computer, connected in the LAN to know available resources and the status of the book.

Central Library is subscribing online e-books and e-journals databases as per the requirement of the institute and also AICTE. It has an exclusive Server with Content Management Software for e-learning. This facility enables the staff and students to access e-learning resources such as NPTEL Lectures, MIT Lectures etc..

GNITC Library & Information centre is part of Resources sharing Networks such as DELNET, NDL (National Digital Library) etc. Library has an exclusive Library Website: http://library.gniindia.org

4.3 Library services:

	Existing		Newly added		Total	
	No.	**Value**	**No.**	**Value**	**No.**	**Value**
Text Books	111793	18082871	3532	2224954	115325	20307825
Reference Books	23332	69501414	1205	361500	24537	69862914
e-Books	17000	1100000	1000	200000	18000	1300000
Journals	1184	1468872	213	356000	1397	1824872
e-Journals	11741	2972413	5429	1000000	17170	3972413
Digital Database						
CD & Video	2037		103		2140	
Others (Digital library server GDLC)		1152250		1252250		2404500

4.4 Technology up gradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Depart-ments	Others
Existing	1320	24	75 Mbps	02	01	05	09	
Added	180	07	25 Mbps	01	---	---	----	
Total	1500	31	100 Mbps	02	01	05	09	

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

- All computers in the campus are connected to Wi Fi.

- Antivirus software and Microsoft Licensed Software under Campus Agreement have been procured and supplied to departments of the College for installation in all desktop computers/ laptops purchased.

- Students and faculty are trained on upgraded application software and tools

4.6 Amount spent on maintenance in lakhs :

i) ICT
16.41

ii) Campus Infrastructure and facilities
70.45

iii) Equipments
45.4

iv) Others
25.49

Total:
157.75

Criterion – V
5. Student Support and Progression

5.1 Contribution of IQAC in enhancing awareness about Student Support Services

IQAC ensures the updating of website on student services like:

*Addition of New books, journals and periodicals in the library

* Placement cell up dates , Events, student's achievements, conferences

* Academic calendar, examination time tables, results, bus routes details, courses, programmes and intake details.

* Ensures all the important information is announced in the class rooms and placed in the notice board.

*Regular Meetings with Class Representatives, feedback is taken on the awareness on student support services and accordingly brings to the notice of the Heads of the department.

* Reports from EDC cell, Grievance Redress Cell, Women Support Cell etc are collected and an analysis report is sent to the Director to address the issues inorder toimprove the working of student support services

5.2 Efforts made by the institution for tracking the progression

- Timely intervention and counselling through Counsellors and Placement Officer by quality in the Academics .
- The mentoring system ensures progression of students into research careers.
- Every departments keeps the track of student progression.

5.3 (a) Total Number of students

UG	PG	Ph. D.	Others
1225	56	-	-

(b) No. of students outside the state

46

(c) No. of international students

65

Men

No	%
1219	

Women

No	%
356	

Last Year						This Year					
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
819	145	90	605	-	1659	696	149	98	642	-	1579

Demand ratio 1:3   Dropout % 1.2%

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

- Career Guidance Cell provides details of the competitive examinations and awareness about various career options to the students.
- Library is well equipped with periodicals, competitive examination books and other required materials for preparation.
- Computer labs with internet and Wi-Fi are provided to students to utilize beyond the class hours and prepare for competitive exams
- Advance English Lab , Comprehensive Viva , Technical seminar are added in the curriculum.
- Suggestions and support is provided by the faculty, to prepare for competitive exams
- Activities like mock group discussions, quizzes, spoken English exercises also help the students for preparation.

 No. of students beneficiaries | 482 |

5.5 No. of students qualified in these examinations

NET | - | SET/SLET | - | GATE | 16 | CAT | 2 |

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

5.6 Details of student counselling and career guidance

- One Mentor is allotted for 20 students and he/she regularly interacts with every student
- Each mentor takes care of the academics and welfare of the students assigned.
- Mentor updates the Parents   about their ward academic performance, attendance etc by Phone. SMS, post and Mails.
- Mentors does SWOC analysis of each and every student assigned to him .

No. of students benefitted

516

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
91	909	480	32

5.8 Details of gender sensitization programmes

- Gender sensitization is taken into account right from admission to equity action plan so as to ensure a balanced ratio between male-female.
- Institutional Women Cell is instrumental in dealing with issues if any
- The equity factor is evident at objective of the institution in treating everyone equally
- Gender Sensitization is included as a subject in curriculum.

5.9 Students Activities

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

State/ University level 60 National level 26 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 60 National level - International level -

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

5.10 Scholarships and Financial Support

	Number of students	Amount in Lakhs
Financial support from institution	-	-
Financial support from government	**3492**	**1415.08**
Financial support from other sources	-	-
Number of students who received International/ National recognitions	-	-

5.11   Student organised / initiatives

Fairs   : State/ University level | 2 | National level | 2 | International level | 2 |

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

5.12   No. of social initiatives undertaken by the students | 4 |

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

> **Vision**: To be a world–class Educational and Research Institution in the service of humanity by promoting high quality Engineering, Management and Pharmacy Education.
>
> **Mission**
> M1: Imbibe Soft Skills and Technical skills.
> M2: Develop the Faculty to reach the International Standards.
> M3: Maintain high academic standards and teaching quality that promotes the analytical thinking and independent judgment.
> M4: Promote Research, Innovation and Product Development   by collaboration with reputed Foreign Universities.
> M5: Offer Collaborative Industry Programs in emerging areas and spirit of enterprise.

6.2 Does the Institution has a management Information System :

<div style="border:1px solid black; display:inline-block; padding:10px 40px;">Yes</div>

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

6.3.1 Curriculum Development

Department advisory board is constituted with senior faculty to analyses the student's feedback on curriculum and also study the curriculum implemented in various institutions. The committee will submit a brief report to BOS Chairman.

BOS committee suggests changes for improvement and up gradation of the curriculum after discussions. The syllabi is prepared, with an objective of –

1. Making the curricula to meet the industry requirement
2. Making it sustainable in the international scenario.

A course end survey is conducted at the end of every course and necessary measures are taken. The results of mid exams are mapped with Course Outcomes and the achievement levels are indexed. It has been made mandatory to map every course objective with the course outcome.

6.3.2 Teaching and Learning

Active Learning methods are implemented to bring innovation within classrooms. Continuous seminars/ lectures / workshops are arranged for the faculty to enable them to create a learner centric environment.
The new approaches include:-

- Learning by Doing (LBD)

- Videos / Visuals

- Group Discussion

- Student Presentations

- Flipped Classroom

- Blended Learning

- Projects by Students

- Role Play

- Inquiry based learning

- Lab Protocol

- Story Board and LAB Management posters in the Laboratories

- Extensive use of ICT in teaching learning is incorporated

- Regular Knowledge sharing meetings/seminars among faculty

- Tutorials

- Assignments

- SDT

- Mid Exams

- Remedial classed for slow learn

- Guest Lectures

- Course file preparation

- Continuous Evaluation in Laboratories

6.3.3 Examination and Evaluation

Reforms in examination & Evaluation
- Continuous assessment is done through tests, Assignments, Mini Projects, Presentations in 'Show and Tell' and Project Demonstration.
- Assignment Tests are introduced
- Question paper is prepared on the lines of Blooms Taxonomy method in order to test the students in their overall understanding of the subject.
- Questions for 1, 2 and 3 & 5 marks are introduced both in mid and Final examinations.
- Pre-auditing of question papers and post auditing of answer scripts is in practice.

6.3.4 Research and Development

Research and Development is continually promoted through –

- Research & Consultancy Cell
- Periodical FDPs are organized to encourage in research work.
- Faculty members are encouraged and supported to publish papers and also present papers in conferences through incentives like travel reimbursement, funding and awards
- Incentives are given for good project proposals.
- Incentive are given for paper published in Journals.

6.3.5 Library, ICT and physical infrastructure / instrumentation

- Library created its resources Database and provided Online Public Access Catalogue (OPAC) through which users can be accessed from any of the computer connected in the LAN can know the status of the book.
- Institute Library & Information is subscribing online e-books and e-journals databases as per the requirement of the institute and fulfilling AICTE norms. IP based access is given to all computers connected on campus LAN to access e journals.
- An exclusive Server with Content Management Software for e-learning is provided in the Library. This provides access to staff and students to e-learning resources such as NPTEL Lectures, MIT Lectures etc..
- For the effective utilisation of resources, Information Literacy training programs are conducted to the staff and students. Every year 3 to 4 programs are conducted for the users.
- GNITC Library & Information centre is one of the members of Resources sharing Networks such as NLIST-INFLIBNET and AICTE-INDEST.

6.3.6 Human Resource Management

- Self Performance appraisal system is followed
- HR rule book is followed.
- Salaries are paid as per norms
- Annual Increments are based on self appraisal and Merit.
- Staff attendance is monitored on daily basis
- FDPs are Conducted to train the newly recruited faculty and also for existing faculty
- Workshops are organized to train the faculty and staff to update their knowledge.
- IQAC creates awareness among faculty on quality in teaching learning etc…
- Grievance cell address issues for both staff and students

6.3.7 Faculty and Staff recruitment

- Advertisements are given in leading newspapers
- Applications will be screened and shortlisted.
- Written test and interviews are conducted for the above short listed candidates for the post of Assistant professor.
- Associate and Professors are directly interviewed by the expert committee.
- Selected ffaculty will be ratified by the university selection committee
- Staff recruitment is done as per AICTE/UGC norms.

6.3.8 Industry Interaction / Collaboration

With constant encouragement by the management, the departments constantly strive to enter into MoUs with the industries to provide summer internships, main projects for students. Industry experts are invited to give seminars on the advanced technology. Interaction with industry helps to provide industrial visits, arranging training programmes to students. Interaction with industry is providing opportunities for consultancy works and research .

6.3.9 Admission of Students

Students are admitted on the basis of merit through state wide entrance examinations EAMCET / PGCET / ECET and / ICET conducted by State Government.

6.4 Welfare schemes for

Teaching	Medical Assistance
Non teaching	Group Insurance
Students	Insurance

6.5 Total corpus fund generated   Rs 520,660,350.23

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	ISO	Yes	Academic Audit cell
Administrative	Yes	ISO		

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?

- Bar Coding is used on answer scripts
- Recounting and Revaluation facility is provided to the student.
- CGPA system is introduced for the award of division.

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

Promoting academic freedom in autonomous college by encouraging lab linked theory courses in the curriculum.
- Providing more options for elective courses & open elections
- Providing options like Finishing School to take value added courses for better employability.
- Bringing in a change by introducing Choice based Curriculum
- Making conscious efforts towards supporting the socially disadvantaged section through learning and financial support.

6.11 Activities and support from the Alumni Association

GNITC has an active Alumni Association plays an important role in the

holistic development of institution. Some of the activities from the Alumni Association

are:

- Feedback is provided to update / introduce the training modules to the placement cell with various training and industry inputs.
- An online portal of the alumni is available.
- Alumni Association also supports by providing financial help to the economically back ward students and providing constructive feedback on curriculum development, teaching-learning, research and infrastructural facilities, library, sports and canteen facilities, etc, which contributes to the overall development of Institute.

6.12 Activities and support from the Parent – Teacher Association

- The parent-teacher associations are in place in the college. PTA meetings are conducted to get inputs for improving the teaching and learning environment.
- Head of the Institution, HOD's and teachers interact with the parents as and when required to communicate academic progress, attendance and their behavioral issues, if any.
- Distinguished parents provide valuable feedback on curriculum development, teaching-learning, research and infrastructural facilities, library, sports and canteen

6.13 Development programmes for support staff

1. Training / Workshop/Seminars / FDP are conducted.
2 .Academic / Study leaves are granted to encourage higher education.
3. Financial support is given for acquiring higher qualification

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

Some of the initiatives taken by the institution to make the campus eco-friendly are
- Plantation
- Rain harvestings
- Save energy campaigns
- Save water campaigns
- Swachh Bharat programmes
- Generation and use of solar energ
- Construction of check dams, etc.

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.

Best Practices:

1. Training Programmes for students First-Rate Placements

2. Shadow Engineering

3. Institute Calendar

4. GNI Lab Protocol (TM)

5. Career Vision Approach (TM)

6. Engineer in Mirror Approach

7. Continuous evaluation of students

8. Skill Development

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

IQAC has developed quality indices to monitor and improve attendance, results, placement, classroom and lab quality etc.

- The Curricula / Syllabi of courses are oriented to ensure program outcome

- Extensive training programs are conducted for faculty members for enhancing Pedagogical approaches

- Departments have imbibed quality research culture

- Active learning methods are implemented

- The curricula is revised and improved towards a learner centric approach.

- Faculty are encouraged to submit project proposals

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

1. Improving Teaching and Learning Process

2. Promotion of Research

Details are kept in annexure II

7.4 Contribution to environmental awareness / protection

- An environmental club is formed within the institute and it creates awareness about the issues of environment among the students and the need to protect it. It also sensitizes the students to take part in Environment and Sustainability related activities.
- The institution is very much committed to preserve and protect environment in its entirety. A qualified and experienced horticulturist takes care of developing and maintaining greenery. The green cover encompasses 40% of the campus land area with various shady trees. The college has taken its share of social responsibility in reducing carbon emission through renewable energy source like solar energy for lamps in the entire GNITC campus. The conventional lighting is steadily replaced with CFL and LED lamps. There is an adequate mechanism prevails in the institute for maintaining and protecting the green environment.

7.5 Whether environmental audit was conducted?   Yes   ✓   No ☐

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

SWOC ANALYSIS

STRENGTHS:

Recognition:
- GNITC is one of the best self-financing Institute in the State of Telangana.
- Twenty two students of Mechanical Engineering participated in an event organized by ATA Formula Society for Mechanical Engineering (FSAE) held at "ITALY" on Race Car building in the month of September '2015

Accreditation:
- Accredited by NBA (AICTE) in 2007, and 2015.
- Accredited by NAAC (UGC) in 2011.
- ISO 9001:2008 certified Institutions

Placements:
It has credibility of achieving campus placements for most of the eligible and interested students during the past 5 years.

Human resource:
It has qualified, competent, well experienced and young dynamic faculty and is known for its high retention factor.

Students Outcome:
The pass percentage is consistent with 95% on an average out of which 87% of the students are passing either in distinction or in first class. More than 75% of the students are being placed in highly reputed companies through campus placements. The remaining students are pursuing their higher education, seeking public sector jobs or becoming entrepreneurs.

Autonomous Status:
Autonomous status confirmed by the UGC (w.e.f academic year 2016-17) enabled the Institute flexibility in starting new programmes and new courses in existing programmes to meet ever changing needs of the industry.

Alumni:
Strong and active Alumni Association is the strength of the Institution

Research and Consultancy:
Institute has good number of research projects funded by various funding agencies like DST, UGC, AICTE, DRDO, BHEL, etc., and the college is encouraging its faculty and students to carry out research projects by extending financial support. Good number of consultancy projects are undertaken by the Institute.

WEAKNESSES:

Research and Consultancy:
Even though good number of research and consultancy projects is undertaken by the institute, there is unequal contribution from all the departments.

Limited Facilities:
In spite of having good number of well qualified faculty, there is still a shortage of PhD qualified faculty in some of the departments. Quality Improvement Programme (QIP) for faculty to pursue PhD is not active.

OPPORTUNITIES:

Financial Resources:
Financial resources are available for growth in the potential areas. The acts of UGC/AICTE/CSIR are providing enough financial resources to promote faculty development and research.

Collaborations:
Collaborations with Foreign Universities is in progress to get admission for further studies.

Continuous learning:
Continuous learning facilities are available for faculty and students. The employability skills of the students can be improved..

Development Centre:
Skills and Personality development centre is available and opportunity is available for further enhancement.

Enhance Industry-
Academia Interface: Practical exposure

CHALLENGES
Facing Competitors:
It will be a challenge to attract the top ranking students in future because of increasing Competition by deemed universities

Changing Trends:
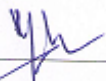Fast changing in national and global trends in technology and marketing policies.

Demand and Supply Gap:
Mismatch between demand and supply of good faculty in terms of quality and quantity.

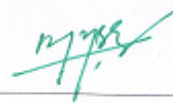## 8. Plans of institution for next year

- To complete the 2nd Cycle of Accreditation by the NAAC
- To implement CBCS at UG level
- To take action to for the deployment of closed circuit cameras on entire campus
- To initiate and strengthen the green initiatives and conduct energy and green Audit
- To strengthen the teaching-learning process
- Initiatives towards Deemed University Status
- To setup Incubation Centers
- Strengthening the department Research Centers to get university recognition
- Improving Placements in Core Sectors
- Strengthening EDC & IIPC.
- More collaborative programmes with Foreign Universities.
- To improve Industry Institute Interactions.
- To obtain NBA accreditation for the remaining eligible UG & PG programmes
- Organizing International conferences by Mechanical and Civil departments.
- Starting International journal in Pharmacy.
- Modernizing and updating laboratories as per Autonomous syllabus

Dr. M A Khadar Baba

Signature of the Coordinator, IQAC

Dr. M. Ramalinga Reddy

Signature of the Chairperson, IQAC

Best Practice - I

Improving Teaching and Learning Process

The teaching /learning process starts with designing of a lecture plan by the facilitator. The lecture plan is given in advance to the learners. The facilitator initiates a discussion or tells a story or questions the learners before defining the objectives. The objectives of the lectures are defined to specify to the learner the learning outcomes. During the lecture, discussions and questioning is encouraged.

Holistic learning is encouraged through the continuous evaluation system. Various forms of assessment are used for continuous evaluation such as group discussions, assignments, PowerPoint presentations, class test to name a few. Various co-curricular activities are also organized for the learners. These activities give an opportunity to the students to put their knowledge into application.

An aspect very unique about our teaching /learning process is the freedom given to learners to share their views and ideas. Even ideas that sound impractical are discussed and a proper explanation is given to the learners why they cannot be implemented. The learner is the part of the learning process rather than just a spectator of the same.

A major limitation of the teaching /learning process is the time constraint. The facilitators have various ideas which they would like to implement in their class, however due to paucity of time all of them cannot be implemented.

Best Practice – II

Promotion of Research

Describe the practice and its uniqueness in the context of Indian higher education. What were the constraints/ limitations, if any, faced (in about 400 words)?

The institution provides opportunities to the faculty to do Ph. D. under FIP or Part Time research privately. The College also motivates for doing major and minor projects through UGC and other funding agencies.

A Research Committee under the Chairmanship of the Principal actively involves in promoting research culture among the staff and students in the campus. It sets the target for achievement in the action plan presented and submitted in the Planning and Evaluation Committee meeting every year. The attainment of the target is reviewed at the end of the academic year.

Support facilities for research

- Special consideration in the form of leave is given to the staffs that are on the verge of completing their research work.

- The visits to various Universities and libraries for data collection have enriched their research.

- The management extends co-operation to the staff to go abroad for paper presentation and send proposals to UGC to avail travel grant.

- The management has decided to give financial assistance to the self-finance faculty who make research publications in the journals with high impact factor.

- Rewards of faculty are based on their achievements in research.

Constraints faced in the pursuit of research

- Owing to time constraint and interface, the gap between academia and industries is not adequately bridged to fulfill the needs of industries.

- The students can be further motivated to explore new areas of research and procure funds from various funding agencies.

- Students can be provided hands-on activity based research in the industries to address challenges faced in the job market.

- Extension Programme can focus on neighborhoods oriented research to solve real life problems.

- Interdisciplinary and socio- economic developmental research can be encouraged among the students and the faculty.

- Ph.D. holders can be motivated to publicize their research in the form of books.

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