Internal Quality Assurance Cell (IQAC) and Submission of Annual Quality Assurance Report (AQAR) for 2017-18

To

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

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

India

By

Siddharth Institute of Engineering & Technology

(Autonomous)

Siddharth Nagar, Narayanavanam Road

Puttur - 517 583

Andhra Pradesh.

Cycle: First   **Report for: 2017 -18**

Part – A

1. Details of the Institution

1.1 Name of the Institution

Siddharth Institute of Engineering & Technology

1.2 Address Line 1

Siddharth Nagar

Address Line 2

Narayanavanam Road

City/Town

Puttur

State

Andhra Pradesh

Pin Code

517 583

Institution e-mail address

principal.f6@siddharthgroup.ac.in

Contact Nos.

9396932888

Name of the Head of the Institution:

Dr. K. Chandrasekhar Reddy

Tel. No. with STD Code:

08577-264999 & 08577- 264888

Mobile:

9396932888

Name of the IQAC Co-ordinator:

Dr. M. Janardhana Raju

Mobile: 8297114999

IQAC e-mail address: **info@iqac.sietk.org**

1.3 NAAC Track ID **APCOGN21808**

1.4 NAAC Executive Committee No. & Date: **EC(SC-9)/DO/2015/16.1 Dated 15-09-2015**

1.5 Website address: **www.sietk.org**

Web-link of the AQAR: **iqac.sietk.org/AQAR17 -18**

1.6 Accreditation Details

Sl. No.	Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1	1st Cycle	A	3.07	14-09-2015	5 Years

1.7 Date of Establishment of IQAC: **02-09-2013**

1.8 Details of the previous year's AQAR submitted to NAAC after the latest Assessment and
   Accreditation by

   i. AQAR _____**First Report (2015 - 16)** _____ **(31/12/2016)**
   ii. AQAR_____ **Second Report (2016 - 17)** _____ **(23/12/2017)**
   iii. AQAR_____**Third Report (2017-18)** _____ **(27/12/2018)**
   iv. AQAR_____ _____ (DD/MM/YYYY)

1.9 Institutional Status

   University   State - Central - Deemed - Private -

   Affiliated College   Yes √ No -

   Constituent College Yes - No -

3

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   **Jawaharlal Nehru Technological University, Anantapur, Ananthapuramu.**

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

Autonomy by State/Central Govt. / University   **UGC, JNTUA**.

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   **08**

2.2 No. of Administrative/Technical staff   **02**

2.3 No. of students   **01**

2.4 No. of Management representatives   **01**

2.5 No. of Alumni   **01**

2.6 No. of any other stakeholder and Community representatives   **01**

2.7 No. of Employers/ Industrialists   -

2.8 No. of other External Experts   -

2.9 Total No. of members   **14**

2.10 No. of IQAC meetings held   -   **04**

2.11 No. of meetings with various stakeholders: No. **02**   Faculty **08**

    Non-Teaching Staff & Students **03**   Alumni **01**   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 No. **32**   International -   National **09**   State **10**   Institution Level **13**

   (ii) Themes

> - National Level Technical Symposium SIDDHARTH Quest-2K18
>
> - Interview Skill Development
>
> - Faculty Development Programme on Fundamentals & Java Programming
>
> - Search Engine Optimization with NLP On Bigdata

> ➢ One Day Workshop on Personality Development
>
> ➢ One Day workshop on Maintaining Good Health
>
> ➢ One Day workshop on Machine Learning
>
> ➢ Embedded Systems and IOT Applications
>
> ➢ Embedded Systems fundamentals
>
> ➢ Real Time PCB design & fabrication Techniques
>
> ➢ Embedded systems
>
> ➢ Get ready to face interviews for placements
>
> ➢ Simulation of Power Electronics and Drives using MATLAB

2.14 Significant Activities and contributions made by IQAC

- All the departments conducted National seminars/workshops/association activities.

- The proposal of the IQAC was approved by the management and funds were allocated for the upgradation and beautification of the campus

- We got a NBA accreditation.

- Faculty members of various disciplines Published research articles and conference proceedings.

- Extending the Internet access up to 120mbps

- Extending the Wi-Fi to entire campus.

- Proposals are submitted to the UGC and State Higher Education Council.

- Conducted a one-day meeting for the teachers to prepare proposals to be submitted to the UGC and State Higher Education Council.

- Provided financial assistance to buy new books and furniture for the new courses.

- Updated all class room with LCD Projectors and e-learning facilities

- Conducted remedial classes for backward students to enhance their learning capability.

- Encouraged the faculty members to pursue research in their respective field of study.

- Equipped the students of the college with the knowledge of the latest trends in their

respective field and to prepare them to meet the requirement of the competitive world.

- Many of the students are participated various sports and games events and bagged prizes.

- Provided Intercom facility to all staff rooms and labs.

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 during 2017-18
To encourage all the departments to conduct National Seminars/Workshops/Association activities.	- The departments have conducted national level seminars and workshops. - Every department conducted association activities for the students as annual activity, where majority of the students have participated and shown talents.
To request the management to allocate fund for the up-Gradation and beautification of the campus	The management allocated fund for the beautification of the campus
Eco friendly practices	As energy conservation measure, Solar panels have been installed in the campus with 50KW capacity.
Accreditation by NBA	The following programmes are accredited by NBA – New Delhi: B.Tech – Mechanical Engineering B.Tech – Civil Engineering B.Tech – Electrical & Electronics

	Engineering B. Tech – Electronics & Communication Engineering B.Tech – Computer Science Engineering
To Provide Internet facility up to 120mbps, Extend the Wi-Fi to entire campus, Provide Intercom facility to all staff rooms and labs.	The Siddharth Institute of Engineering & Technology has established Networking & Communications with the primary aim of enabling the College community utilize technology to keep pace with the changing educational scenario and to create a synergy of knowledge and skills through networks across the globe. The institute has interactive video conferencing facilities in two halls.
To update all class room with LCD Projectors and e-learning facilities	All the class rooms in the campus are updated with LCD projectors and e-learning facilities to improve learning capability of students.
Strengthening a department of R&D activities.	• Conducted a meeting for the teachers to prepare a Major & Minor Project proposal to be submitted the UGC and State Higher Education Council.
To encourage the students to participate in the college, university, state and national level sports and games events.	Students actively participated in the college, university, state and national level sports and games events and bagged several medals and awards
To conduct remedial classes for backward students to enhance their learning capability.	Departments have scheduled and conducted remedial classes to improve pass percentage of Students.

To enter into MoU to offer National knowledge Commission value added and Skill Development Programmes.	The college as entered into MoU's to fulfil the requirements of Skill Development Programmes. Further, to achieve this, many departments have MoU's with leading industries, Research centres.
To apply for add-on courses in various departments.	We are concentrated the average student to improve the performance of University exam.
To encourage the various departments to conduct invited talks by experts from respective field.	The departments conducted Guest lectures by external experts

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 AQAR was placed before the Management and got approved.

Criterion – I

1. Curricular Aspects

1.1 Details about Academic Programmes

Level of the Programme	Number of existing Programmes	Number of programmes added during the year	Number of self-financing programmes	Number of value added / Career Oriented programmes
PhD	-	-	-	-
PG	**11**	-	**11**	-
UG	**5**	**2**	**7**	-
PG Diploma	-	-	-	-
Advanced Diploma	-	-	-	-
Diploma	**4**	**1**	**5**	-
Certificate	-	-	-	-
Others	-	-	-	-
Total	**20**	**3**	**23**	-

Interdisciplinary	-	-	-	-
Innovative	-	-	-	-

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

(ii) Pattern of programmes:

Pattern	Number of programmes
Semester	**23**

Trimester	-
Annual	-

1.3 Feedback from stakeholders   Alumni [√]   Parents [√]   Employers [√]   Students [√]

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

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

Yes, Department-wise details below

Modifications in curriculum/syllabus Department –wise as follows:

Department of Civil Engineering

 - Computer aided drawing lab is introduced in the second year.
 - Open Elective-I is introduced in which choice of any one from other department subjects to be learnt by the students.
 - Five MOOCS subjects are introduced in which two different subjects can be opted by students based on their choice.

Department of Mechanical Engineering

 - Students are make Familiarized to Functional English
 - Human values and professional ethics
 - Introduced applied mechanics lab for the first year.
 - Data structure through 'C' as an Audit course
 - Comprehensive online examinations
 - Comprehensive soft skills as audit course

Department of Electrical and Electronics Engineering

 - Smart grid technologies subject has been introduced.

Department of Computer Science & Engineering (CSE)

 - Cyber Security subject has been introduced as core subject.
 - Open Elective-I is introduced in which choice of any one from other department subjects to be learnt by the students.

➢ Five MOOCS subjects are introduced in which two different subjects can be opted by students based on their choice.

Department of Master of Computer Applications

➢ Big data Analytics is introduced in Elective paper

➢ Cloud Computing is introduced in Elective paper

➢ Cognitive Computing is introduced in Elective paper

➢ Geological Information system is introduced in Elective paper

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

Yes, the institution has started two courses.

- **Computer Science & Information Technology Engineering.**

- **Agricultural Engineering**

Criterion – II

2. Teaching, Learning and Evaluation

2.1 Total No. of permanent faculty

Total	Asst. Professors	Associate Professors	Professors	Others
293	195	66	31	1(Physical Director)

2.2 No. of permanent faculty with Ph.D. **40**

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
17	0	0	0	2	0	-	-	19	0

2.4 No. of Guest and Visiting faculty and Temporary faculty

Guest	Visiting	Temporary
10	04	-

2.5 Faculty participation in conferences and symposia:

No. of Faculty	International level	National level	State level
Attended	12	25	17
Presented papers	35	22	12
Resource Persons	-	-	-

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

> ➢ Conduct to the student Soft Skill Training Programmes.
>
> ➢ Use of ICT in teaching learning process.
>
> ➢ Establishing the Lesson plan for every subject well before the commencement of each semester along with the course hand outs which are made available to all students on the start of the academic year.
>
> ➢ Teacher's study material share with the student. Teaching faculty and students are encouraged to use latest technology such as LCD, Internet, etc. In the teaching learning process.
>
> ➢ Introducing new teaching methods such as Mind mapping etc.
>
> ➢ Identification of challenging learners and provision of tutorial classes.
>
> ➢ Strengthening of Curricular activities (Co/Intra/Inter)
>
> ➢ Conducting the Value Added Programmes
>
> ➢ Organising the orientation programme for fresh engineering students.

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

201

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

Bar Coding & Photocopy

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

S. No.	Name of the Department	No. of Faculty members involved
1.	Civil Engineering	8
2.	Mechanical Engineering	10
3.	Electrical & Electronics Engineering	5
4.	Electronics & Communication Engineering	5

5.	Computer Science Engineering	5
6.	Computer Science & Information Technology Engineering	4
7.	Agriculture Engineering	4
8.	Master of Business Administration	4
9.	Master of Computer Applications	4
10.	Bachelor of Science & Humanities	12

2.10 Average percentage of attendance of students **95%**

2.11 Course/Programme wise distribution of pass percentage:

Title of the Programme	Total no. of students appeared	Division Distinction %	I%	II%	III%	Pass %
B. Tech.- CIVIL	91	57.58	40.91	1.52	-	72.52
B. Tech.- EEE	72	21.4	78.6	-	-	76.38
B. Tech. - MECH	131	33.96	66.04	-	-	80.91
B. Tech. - ECE	202	26.91	73.09	-	-	84.65
B. Tech. - CSE	95	32.39	67.61	-	-	74.73
MBA	74	100	-	-	-	90.54
MCA	16	87.5	12.5	-	-	100
M.Tech.- CSE	1	100	-	-	-	100
M.Tech. - VLSI	1	100	-	-	-	100
M.Tech. - EMB. SYS	2	100	-	-	-	100
M.Tech. - DECS	1	100	-	-	-	100
M. Tech. - POWER ELEC.	3	100	-	-	-	100
M. Tech. - THERMAL ENGG	4	100	-	-	-	100
M. Tech. - Structural Engineering	9	71.42	28.58	-	-	77.77

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

The Teaching plan is prepared taking into the account of the following aspects:

- In case of theory subjects, the syllabus is prescribed by the university and additional topics to be discussed based on the specific requirements.

- In case of practical subjects, the number of experiments is prescribed by the university and the additional experiments and design experiments are to be conducted based on the specific requirements.

- Prescribed syllabus has to be completed before conducting the Unit Exam, Internal and External examinations.

- Awards & Rewards, based on the performance of toppers to be appreciated during annual celebrations.

- Feedback from all stake holders, implementation of suggestions and action taken report.

- For assisting the weak students, remedial classes are to be conducted.

- Organizing Seminars and Workshops

- Orientation Programmes for first year students

- Social awareness programmes

Learning Process:

The institution encourages the faculty to involve the students actively in the process of learning. Following support structures are available for the develop of various learning skills among the students:

Interactive Learning:

- Besides traditional classrooms with a blackboard, every department is equipped with an e-classroom with an LCD projector and internet connectivity.

- Faculty regularly uses presentations and videos as teaching tools and encourages interactive learning among the students.

- Respective departments organize guest lectures and seminars regularly.

Collaborative Learning:

- Faculties facilitate discussions on important concepts within the classroom to encourage combined learning.

- Departmental associations are highly active in the institution.

- These associations regularly organize seminars, discussions and competitions to encourage collaborative learning among the students.

Independent Learning:

- The Central Library has a vast collection of books, journals, project reports, etc.

- A library hour is made compulsory for all the students to encourage the students to learn independently.

- Internet facility is available to the students to learn on their own.

- Further, assignments also encourage the students to learn on their own.

2.13 Initiatives undertaken towards faculty development

Faculty / Staff Development Programmes	Number of faculty benefitted
Refresher courses	8
UGC – Faculty Improvement Programme	43
HRD programmes	-
Orientation programmes	10
Faculty exchange programme	-
Staff training conducted by the university	29
Staff training conducted by other institutions	71
Summer / Winter schools, Workshops, etc.	151
Others	16

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	45	-	-	-
Technical Staff	30	-	-	-
Non-Technical Staff	104	-	-	-

Criterion – III

3. Research, Consultancy and Extension

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

> - **Analyzing the various Research areas to gather the information. Idea to share staff and student for further innovation.**

3.2 Details regarding major projects

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

3.3 Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number	-	-	-	2
Outlay in Rs. Lakhs	-	-	-	8.24

3.4 Details on research publications

	International	National	Others
Peer Review Journals	35	-	-
Non-Peer Review Journals	17	-	-
e-Journals	04	-	-
Conference proceedings	25	22	-

3.5 Details on Impact factor of publications:

Range | - | Average | Y | h-index | - | Nos. in SCOPUS | **05** |

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

Nature of the Project	Duration Year	Name of the funding Agency	Total grant sanctioned	Received
Major projects	-	-	-	-
Minor Projects	-	-	-	-
Interdisciplinary Projects	-	-	-	-
Industry sponsored	4	1. Nithi Seed Support systems 2. Nithi Accelerate	10 Crore 50 Lakhs 2 Crore 50 Lakhs	2 Crore 10 Lakhs 1 Crore 50 1 Lakhs
Projects sponsored by the University/ College	-	-	-	-

Students research projects *(other than compulsory by the University)*	-	-	-	-
Any other(Specify)	-	-	-	-
Total	-	-	13 Crore	3 Crore 60 Lakhs

3.7 No. of books published   i) With ISBN No.   **01**   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   15 Lakhs

3.11 No. of conferences organized by the Institution

Level	International	National	State	University	College
-	-	-	-	-	-
-	-	-	-	-	-

3.12 No. of faculty served as experts, chairpersons or resource persons   **3**

3.13 No. of collaboration   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   15 Lakhs   From Management of University/College   -

Total   **15 lakhs**

3.16 No. of patents received this year

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

3.17 No. of research awards / recognitions received by faculty and research fellows
Of the institute in the year: **03**

3.18 No. of faculty from the Institution who are Ph. D. Guides   **2**

And students registered under them   1

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

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   **100**   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 | **10** | Any other | |

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

Extension Activities:

S. No.	Extension Activities	No. of Extension Activities
1	Health Awareness lectures	02
2	Blood Donation Camps	02
3	Motivational programmes	02
4	Orientation programmes	02
5	Awareness Rallies	02

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	28.63 acres	-	-	
Class rooms	62	4	College Trust	66
Laboratories	36	-	College Trust	36
Seminar Halls	04	01	College Trust	05
No. of important equipments purchased (≥ 1-0 lakh) during the current year.	587	32	College Trust	619
Value of the equipment purchased during the year (Rs. in Lakhs)	28628500	2000000	College Trust	30628500
Others	-		-	-

4.2 Computerization of administration and library

> Administration: Tally-ERP
>
> Library: Bar-Coding Facility, Digital Library

4.3 Library services:

	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
Text Books	32063	7974571	1903	570900	33966	8545471
Reference Books	6005	1607799	309	108150	6314	1715949
e-Books	2520	-	148	-	2668	-
Journals	140	255000	-	-	140	255000
e-Journals	Tie-Up with IEEE, J-Gate, DELNET					
Digital Database	Tie-Up with IEEE, J-Gate, DELNET & NPTEL					
CD & Video	1450	-	270	-	1720	-
Others (specify)	-	-	-	-	-	-

4.4 Technology up gradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Depart ments	Others
Existing	1140	15	120Mbps	2	1	25	16	1140
Added	50	-	-	-	-	-	07	-
Total	1190	15	120Mbps	2	1	25	23	1140

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

- Wi-Fi campus.

- State- of- the- art automation software has immensely improved the quality of the documentation process.

- ICT enabled Teaching Learning process.

4.6 Amount spent on maintenance in lakhs:

i) ICT

| 1, 00,000 |

ii) Campus Infrastructure and facilities

| 7, 53, 35,211 |

iii) Equipments

| 62, 30,243 |

iv) Others

| - |

Total:

| **816.65454 lakhs** |

Criterion – V

5. Student Support and Progression

5.1 Contribution of IQAC in enhancing awareness about Student Support Services

- Effective functioning of IQAC Cell
- Active participation of Teaching and Non-Teaching staff
- Organized Seminars and Workshops
- Orientation Programmes for first year students
- Feedback from all stake holders, implementation of suggestions and action taken report
- Awareness programmes
- Programmes on ethics, values and morals
- Social awareness programmes
- Continuous monitoring of activities by the IQAC cell

5.2 Efforts made by the institution for tracking the progression

- Alumni association to have at least one meeting in an academic year
- Counselling and Guidance
- Meeting with parents
- Sending Monthly reports to parents
- Continuous monitoring of activities by the IQAC cell

5.3 (a) Total Number of students

(2017-2018)

UG	PG	Ph. D.	Others
2609	372	-	-

(b) No. of students outside the state

| 26 |

(c) No. of international students

| 01 |

Men

No	%
2117	71.01

Women

No	%
864	28.98

Last Year(2016-2017)						This Year (2017-2018)					
General	**SC**	**ST**	**OBC**	**Physically Challenged**	**Total**	**General**	**SC**	**ST**	**OBC**	**Physically Challenged**	**Total**
1310	272	77	880	-	2539	1367	370	40	1204	-	2981

Demand ratio: Students are allotted by AP-counselling　　　**Dropout %:** -Nil-

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

       The Institution is having exclusive Training and Placement Cell for improving students by conducting Mock tests, aptitude tests, training for competitive exams, expert lectures and seminars, GATE coaching for the students are conducted on regular basis.

5.5 No. of students qualified in these examinations

NET 　[-]　　SET/SLET [-]　　GATE [**2**]　　CAT [-]

IAS/IPS etc [-]　　State PSC [-]　　UPSC [-]　　Others [**28**]

5.6 Details of student counselling and career guidance

- During the course of study, counselling and career guidance sessions are carried out regularly. In these sessions guidelines and timeline tips are being provided.
- Each counsellor allots the 20 students to make a counselling.
- Entrepreneurship Development Cell:
  1. Our institution to create an awareness of student to become an entrepreneur.
  2. Separate EDC running our institution.
  3. EDC conduct the awareness programme to invite various company CEO.

No. of students benefitted　　**All Year students are benefitted**

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
12	**552**	**354**	**58**

5.8 Details of gender sensitization programmes

> The duly constituted Women Empowerment Cell, National Service Scheme and Grievance Redressal Cell of the college continuously organize gender sensitization programmes like
> - International Women's Day
> - Health Awareness Programme
> - Awareness programme on women entrepreneurship
> - Prevention of female foeticide

5.9 Students Activities

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

State/ University level **120**   National level **15**   International level -

No. of students participated in cultural events

State/ University level **4**   National level -   International level -

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

Sports: State/ University level **15**   National level **4**   International level -

Cultural: State/ University level **1** National level -   International level -

5.10 Scholarships and Financial Support

	Number of Students	Amount
Financial support from institution	34	3,45,000
Financial support from government	410	2,27,87,500
Financial support from other sources	-	-
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   [**10**]

S. No.	Extension Activities	No. of Extension Activities
1	Health Awareness lectures	02
2	Blood Donation Camps	02
3	Motivational programmes	02
4	Orientation programmes	02
5	Awareness Rallies	02

5.13 Major grievances of students (if any) redressed:

- Considered the arrangements for training programmes.
- Considered the SMS way of informing the parents for most effective and speedy communication.

Criterion – VI

6. Governance, Leadership and Management

6.1 State the Vision and Mission of the institution

> **Vision:**
>
> "To be one among the premier institutions of the country in producing ethically strong and technically sound engineers and managers to serve the nation."
>
> **Mission:**
>
> "To create sacred environment for the students to acquire knowledge through innovative and professional approach and utilize it for the welfare of the mankind."

6.2 Does the Institution has a management Information System

> Yes, the Institute has a Management Information System
>
> - Admission process
> - Student's profile
> - Accounts and financial process
> - Student's attendance report
> - Student's Profile updating
> - Continuous academic audit report
> - Examination and Evaluation process

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

6.3.1 Curriculum Development

> The duly constituted Boards of Studies and Academic Council critically review the Curriculum and periodically update the same to cope up for the current technology and industry expectation. All stake holder views are taken into account for review and reformation.

6.3.2 Teaching and Learning

- ICT enabled teaching.
- Demo based teaching.
- Coaching classes conducted to hone the communicative skills of the students.

6.3.3 Examination and Evaluation

Distribution and Weightage of Marks:

➢ The performance of a student in each semester shall be evaluated through internal evaluation and /or an external evaluation conducted semester wise.

➢ Performance evaluation in each course (theory/ practical) shall be based on a total of 100 marks, of which the relative weightage for internal evaluation and end semester examination shall be 40% and 60% respectively.

➢ **Internal Evaluation:**

The total internal weightage for theory courses is 40 marks with the following distribution.

a) 25 marks for Mid-term tests.

b) 15 marks for Blended Tasks [Assignments (10) & Unit Tests (5)]. For all theory courses there shall be two mid-term tests in each semester. The duration of mid-term test shall be 1hr 50 minutes. In that, 90 minutes will be for descriptive test and 20 minutes for objective test. The descriptive test consists of 3 questions with individual choice ('either', 'or' type) for 10 marks each. The total marks (30) shall be scaled down to 15 marks. The objective test consists of 20 objective questions for 10 marks in 20 minutes duration. Together, the maximum marks for each mid-term test shall be 25. First midterm test shall be conducted for 50% of the syllabus and second mid-term for the remaining syllabus. Among the two midterm examinations 80% weightage will be given for the better performance and 20 % for the other. The final mid-term marks will be the addition of these two.

➢ Student performance in blended tasks shall be evaluated for 15 marks as below:

10 marks allotted to assignments in each theory course shall be based on evaluation of 2 assignments (5 marks each) relevant to that particular course. 5 marks allotted to unit tests in each theory course shall be based on evaluation of 5 unit tests (1 mark each), on each unit relevant to that particular course.

➢ **Practical Courses**:

The total internal weightage for Practical courses is 40 marks with the following distribution.

a) 40 marks for Day to Day Evaluation.

➢ The end semester examination shall be conducted for 60 marks by the laboratory faculty concerned and one senior faculty of the same department nominated by the Principal. In a practical course consisting of two parts (ex: Engineering and IT workshop Lab), the internal examination shall be evaluated for 40 marks in each part and final internal marks shall be arrived by considering the average of marks obtained in the two parts. End semester examination shall be conducted for 60 marks in each part and final marks shall be arrived by considering the average of marks obtained in the two parts.

➢ For the subjects having design and /or drawing, such as Engineering drawing, Machine drawing, Estimation, Design and Drawing of Irrigation Structures, etc., the distribution will be 40 marks for internal evaluation and 60 marks for the end semester examination.

- Within internal evaluation, 15 marks will be for day to day work in the class that shall be evaluated by the concerned subject teacher based on the reports / drawing sheets submitted in the class.

- The remaining 25 marks will be based on the student's performance in two mid-term tests of 2 hours duration each. Among the two mid-term examinations 80% weightage will be given for the better performance and 20% for the other. The final mid-term marks will be the addition of these two.

- The duration of external examination for Machine Drawing will be 4 hrs.

➢ The laboratory records shall be preserved in the respective department as per the institution norms and should be produced to the committee as and when the same is asked for.

➢ The student has to complete audit courses with a minimum of 40% of marks in internal examination to award the degree and there will be no external examination. The student has to complete Comprehensive Online Examinations with a minimum of 40% of marks.

➢ **End Semester Examination:**

End semester examination of theory courses shall have the following pattern: · There shall be 5 questions (1 question from each unit) with individual choice ('either', 'or' type) for 12 marks each. · The duration of theory/practical end semester examination shall be 3 hours. · End semester examination for theory courses consisting of two parts of different courses, for ex: Electrical & Mechanical Technology shall have the following pattern:

a. Question paper shall be in two parts viz., Part A and Part B with equal weightage.

b. In each part there shall be 3 questions with individual choice ('either', 'or' type) for 10 marks each (totalling to 60 marks for two parts).

Seminar:

There shall be a seminar presentation in IV B.Tech II Semester. Each student should collect information on a specialized topic and deliver a Seminar on the same. The student should also prepare a technical report, showing his/her understanding of the topic, and submit to the department before the seminar. The report and the presentation shall be evaluated for 100 marks by a departmental committee consisting of Head of the Department, seminar supervisor and a senior faculty member. The seminar shall be conducted any time during the semester as per the convenience of the department committee and students. There shall be no external examination for seminar.

Project:

Out of the total 200 marks for the project work, 80 marks shall be for internal evaluation and 120 marks for the external evaluation (Viva-voce)**.** The evaluation method of the project is as follows.

Internal Evaluation:

(i) Review-I (20 Marks)

Supervisor: 10 Marks

IDC Committee: 10 Marks

(ii) Review- II (20 Marks)

Supervisor: 10 Marks

IDC Committee: 10 Marks

(iii) Project Report Evaluation (40 Marks)

Supervisor: 20 Marks

IDC Committee: 20 Marks

Internal Departmental Committee (IDC) consist Head of the department (HOD), Project Coordinator and senior faculty of the department nominated by the HOD. The project works are to be reviewed and evaluated by IDC along with supervisor as mentioned above.

External Evaluation:

Thesis Evaluation: 50 Marks

Presentation: 35 Marks

Viva-Voce: 35 Marks

The external project viva-voce will be conducted by the committee consisting of HOD, Project Supervisor and External examiner nominated by the principal. The project evaluation is to be done at the end of IV year II semester. **Note:** In case a student fails in seminar and project viva voce he /she shall reappear as and when supplementary examinations are conducted.

Supplementary Examinations:

At the end of each Semester there will be regular examinations for the current Semester. Those students who could not clear their courses in their previous attempt can appear for the examinations under supplementary category along with the regular students after registering themselves at the examination branch. Supplementary examinations for the all the other Semesters other than the current one will also be conducted at the same time. However, Advanced Supplementary examinations will be conducted for IV-II semester examinations.

Grading:

After each subject is evaluated for 100 marks, the marks obtained in each subject will be converted to a corresponding letter grade as given below:

Range in which the marks in the subject fall	Grade	Grade Points (GP) Assigned
≥ 90	S (Superior)	10
80–89	A (Excellent)	9
70–79	B (Very Good)	8
60–69	C (Good)	7
50–59	D (Average)	6
40–49	E (Below Average)	4
< 40	F (Fail)	0
Absent	Ab (Absent)	0

Table – Conversion into Grades and Grade Points assigned

i. A student obtaining Grade F shall be considered failed and will be required to reappear for that subject when the next supplementary examination offered.

ii. For audit courses "Satisfactory" or "Unsatisfactory" shall be indicated instead of the letter grade and this will not be counted for the computation of SGPA/CGPA.

Award of Class:

After a student has satisfied the requirement prescribed for the completion of the program and is eligible for the award of B.Tech. Degree he/she shall be placed in one of the following four classes:

Class Awarded	CGPA Secured
First Class with Distinction	≥ 7.5
First Class	$\geq 6.5 < 7.5$
Second Class	$\geq 5.5 < 6.5$
Pass Class	$\geq 4.0 < 5.5$

6.3.4 Research and Development

- Published a compilation of research articles and conference proceedings of the teachers belonging to various disciplines.
- Classes are engaged with the help of smart class room, multi-media classroom and audio visual theatre.
- Automation software implemented to augment academic audit.
- Teachers are encouraged to write in national and international journals and books.
- Teachers are encouraged to pursue research degrees.

6.3.5 Library, ICT and physical infrastructure / instrumentation

The college has state-of-art physical infrastructure, library, ICT facility, laboratories facility.

Land - 28.63 Acres

Hostel – 04

Canteen - 01

Other facility – UBI ATM, Stores.

Sports & Games - Outdoor & Indoor facility with stadium

Library – 8545471 Text Books, 1715949 Reference Books, 2668 E-Books, 140 Journals, NPTEL Videos, DELNET & INFLIBNET facility

ICT facility - 1238 Computers - 100% networked - 120 Mbps internet connectivity - System and Application soft wares, Virtual class rooms fitted with LCD

6.3.6 Human Resource Management

- A well laid down Organization Chart is drawn up. The duties and responsibilities for all cadres are clearly defined. Due delegation with responsibility and accountability is also well drawn up. This hierarchical transparency facilitates the administrative process.

- Teachers are given additional charges for various extra-curricular and co-curricular activities.

- The College has an administrative office with a team of staff. The functioning of the office is very transparent and students are well informed about the functioning and services of the administrative office.

6.3.7 Faculty and Staff recruitment

Faculty and staff recruitments are done as per the rules and regulations of the University of JNTUA.

6.3.8 Industry Interaction / Collaboration

> College support to Departments maintains continuous interaction with industries through MoU's. Through this the departments can get acquainted with industries for students' project, Guest lectures, visiting lectures, Industrial visit, internship, recruitment and other activities.

6.3.9 Admission of Students

> **Admission of students for the programmes offered is by the Government under two modes**
> 1. Government Quota
> 2. Management Quota
>
> **Government Quota:**
>
> - For B.Tech. To join student based on EAMCET. For M.Tech.to join student based on PGCET. For MBA / MCA to join student based on ICET.
>
> **Management Quota:**
>
> - For B.Tech. - 30%
> - For M.Tech./MBA/MCA. - 30%

6.4 Welfare schemes for

Teaching	EPF, Group Insurance, Medical care
Non teaching	EPF, Group Insurance, Medical care
Students	1. Merit Scholarship by the Management & Government schemes. 2. Sports scholarship by Management, Medical care.

6.5 Total corpus fund generated   **6.05 Crore**

6.6 Whether annual financial audit has been done   Yes √   No

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

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	University Nominees	Yes	HOD
Administrative	Yes	P. Murali & Co., Hyderabad	Yes	Internal Auditors

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

For UG Programmes   Yes [√] No [ ]

For PG Programmes   Yes [√] No [ ]

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

- Examinations are conducted as per the University norms and regulations

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

- The University nominates members for Board of Studies, Academic Council, Governing Body and Result Passing Board.

6.11 Activities and support from the Alumni Association

ACTIVITIES & SUPPORT FROM THE ALUMNI:

- To promote good fellowship, goodwill and contact
- To promote personal and profession growth
- To co-ordinate for co-curricular activities i.e. industrial visits, tours, student's projects, R&D projects, placements, etc
- To conduct off-shore alumni meet

6.12 Activities and support from the Parent – Teacher Association

> The Parent-Teacher Association of the College provides active support for the academic and physical development of the college.
>
> - Awards are conferred to the winners of the cultural events participated in the University and state-level.
>
> - All departments conduct class wise open forums after internal examinations.
>
> - The Proficiency awards and Scholarships given by the PTA every year, helped to generate a healthy competition among the students and enthuse them to excel in studies

6.13 Development programmes for support staff

> - To give a Training on transformation, adaptability & flexibility.
> - To provide a path improve the knowledge of various skills.

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

> - Training is imparted to the students to make eco-friendly paper bags.
>
> - Green clean campus drive is continuing to make the campus eco-friendly.
>
> - Various awareness programmes relating to environmental protection has been conducted.

Criterion – VII

7. <u>Innovations and Best Practices</u>

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

> Classes are engaged with the help of smart class room, multi-media classroom and audio visual theatre.
> - Continuous environment monitoring to make the campus study atmosphere.
> - Automation software implemented to augment academic audit.

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

> The plan of action conceived during the beginning of the academic year has been successfully initiated and completed accordingly.

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

> - UG, PG & Ph.D., project/research on emerging and thrust areas.
> - Continuous environment monitoring to make the campus study atmosphere.

7.4 Contribution to environmental awareness / protection

> - Awareness programmes on environmental issues.
> - Strengthening of Academic merit & Sports awards by the management.

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:

- Parents teachers Association (PTA).
- Additional Skill Acquisition Programme (ASAP).
- Permanent appointments conducted regularly to fill the vacant positions.
- Easy accessibility to college.
- Women's Development Centre
- Infrastructural facilities of the college extended to the local community as a service.
- Women friendly campus.
- Eco-friendly campus.
- Active participation of students in club activities.
- Updated library software.

Weakness:

- Maximum number with regional language background
- Maximum number of students from rural background

Opportunities:

- To form a placement cell with the help of ASCOSA- alumni Association for jobs abroad.
- Support financially weak deserving students.
- Take keen interest in the welfare of the PWD students.
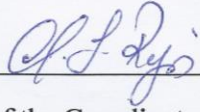- Guidance for interested and deserving students for jobs and higher education. Threats
- More opportunity to learn practical way of life.

8. Plans of institution for next year

1. Additional canteen is to be constructed.
2. CCTV cameras are extended to all the areas.
4. Extend the ATM facility for other Bank.

Name Dr. M. Janardhana Raju

_____

Signature of the Coordinator, IQAC

Name Dr. K. Chandrasekhar Reddy

_____

Signature of the Chairperson, IQAC

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