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

Siddartha Institute of Science and Technology

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

Siddartha Institute of Science and 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.4e@jntua.ac.in

Contact Nos.

9396937888

Name of the Head of the Institution:

Dr. P.Sangameswara Raju

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08577-264999 & 08577- 264888

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Name of the IQAC Co-ordinator:

M. Vijaya Lakshmi

Mobile:

7702956668

IQAC e-mail address:

info@iqac.sistk.org

1.3 **NAAC Track ID**

APCOGN23830

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

F.19.26/ EC(SC-14)/DO/2016/26.1

1.5 Website address:

iqac.sistk.org

Web-link of the AQAR:

iqac.sistk.org/AQAR17-18.pdf

1.6 Accreditation Details

Sl. No.	Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1	1st Cycle	A	3.03		5 Years

1.7 Date of Establishment of IQAC: DD/MM/YYYY   6/08/2015

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

Accreditation by NAAC ((for *example AQAR 2010-11submitted to NAAC on 12-10-2011) - NA*

   i. AQAR _____ _____ (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 | **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 - **08**

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

Non-Teaching Staff Students **-** Alumni **08** Others **-**

2.12 Has IQAC received any funding from UGC during the year? Yes ☐ No **√**

If yes, mention the amount **-**

2.13 Seminars and Conferences (only quality related)

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

Total Nos. **44** International **-** National **01** State **-** Institution Level **43**

(ii) Themes

➢ Construction Technology and Project Management: "Cement and Concrete Technology"

➢ Advanced Technology in Total Station

➢ Rivet Architecture

➢ Principles of Town Planning

➢ Electrical Design Engineering

➢ AC Drives Design

➢ Operation and maintenance of substation

➢ Energy security through Renewable sources

➢ DSP Architecture &its Applications

➢ PCB design

➢ PCB design & fabrication Techniques

➢ Android platform

➢ Digital India

➢ Advanced VLSI Design

➢ Personality Development & Writing Skills

➢ A Seminar on Non Destructive Testing Methods.

➢ A Seminar on 3-D analysis of heat Transfer Gas radiation

➢ A Seminar on Advanced trends in Automobiles

➢ A Workshop on AUTOCAD

➢ Two days workshop on robotics

➢ A work shop on "Personality and Excellency

➢ IBM Workshop

➢ IBM Blue Mix

- Trends in Data Mining
- Trends in Compiler Design
- Trends in Current Industry needs
- IBM Mobile Computing
- Database Management system
- Web testing tools
- Web services
- Education is a progressive discovery of our own ignorance
- National and International Financial Environment
- Financial Education for Young Investors
- Entrepreneurship awareness programme
- Learn to Speak
- IBM Mainframe Technologies
- Motivation - Real time experiences
- Goal setting - Role of Mediation
- Advanced Data structures
- Authentication issues and security
- Big Data Analytics

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

Started process for renewal of NBA accreditation of the institution.

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 2015-16
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.

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.
Initiation to begin the process renewal for NBA accreditation of the institution in the following academic year.	The process of renewal of NBA accreditation and filling Self Assessment Report online begun. Sessions were organised to disseminate information on SAR and the different criteria for assessment. The writing process was carried out by the different committees, constituted by the Head of the Institution. The completed report was reviewed by the Steering Committee and the Self Assessment Report was uploaded on the website on 12th May, 2016.
To publish a compilation of research articles and conference proceedings of the teachers belonging to various disciplines	Published a compilation of research articles and conference proceedings of the teachers belonging to various disciplines.
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.
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.	Conducted a meeting for the teachers to prepare a Major & Minor Project proposal to be submitted the UGC and State Higher Education Council. Proposals are submitted to the UGC and State Higher Education Council
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
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 apply for add-on courses in various departments.	We are concentrated the average student to improve the performance of University exam.
Encourage the various departments to conduct invited talks by experts from respective field.	The departments conducted lectures by external experts

Attach the Academic Calendar of the year as Annexure.

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.

Part – B

Criterion – I

1. Curricular Aspects

1.1 Details about Academic Programmes

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

Interdisciplinary	-	-	-	-
Innovative	-	-	-	-

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

options (ii) Pattern of programmes:

Pattern	Number of programmes
Semester	**08**
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.

JNTUA, Ananthapuramu revised syllabus-Regulations (R13 & R 15)

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

Yes, the institution has very good interaction with the various industries.

The various innovative centres are established like Microsoft innovation centre, IBM centre of excellence, IEG JKC, start-up incubation centre, skill development centre etc.

i)Central Institute of Tool Design:CITD is established in 1968 by the Govt. of India with the assistance of UNDP and ILO, is a pioneering Institution in the field of Tool engineering in the Coun

The Institute was initially established as a United Nations Development Program

(UNDP) Project and was executed by International Labor Organization (ILO).

The Precision machinery and equipment was donated by UNDP and the faculties were trained abroad in the area of Tool Engineering. The UNDP Experts stayed at CITD for about 5 years and trained officers, faculty & staff of CITD in manufacture and design of tooling.

The main objectives of the institute are:

➢ CITD conducts several regular and part-time training programs in the field of Embedded Systems and VLSI System Design.

➢ 49 students from ECE Dept has done their Final year Projects in CITD, Hyderabad.

In the part of MoU the CITD offering summer internship and training programs to the interested students at its office / project locations to get hands on experience of live projects.

Depending on requirements, CITD offering specific projects with identified deliverables to be executed.

ii) Microsoft Innovation Centre:

Our institution is one among 45 institutions in India to have Microsoft EdVantage Platinum level status and also the Microsoft Innovation Centre (MIC).

This initiative has helped more than 500 students to get certified on Microsoft technologies.

Many students are honing their skills on Microsoft technologies in MIC.

Students are even developing projects and apps for mobile devices in MIC.

This initiative has created a vast awareness of latest technologies among the students and the staff.

The institution has – Microsoft Innovation Centre established within the campus to foster critical thinking and innovation among the students.

Students are encouraged to work on Microsoft technologies and create new products and services using the same.

Hackathon program conducted on 31st Jan 2015 by the institution and more than 500 apps are uploaded in online.

MIC is trains our students as per requirements of MNCs.

iii) IBM centre of excellence:

The IBM centre of excellence is signed on MOU with our institution on 6th July 2015.
The Objective of the collaboration is

To enables train to the faculty and students on crush technologies and tools.

This initiative has created a vast awareness of latest technologies among the students and the staff.

The institution has to foster critical thinking and innovation among the students. Students are encouraged to work on IBM technologies and create new products and services using the same.

The benefits of the collaboration are

Opportunity to emerge as one of the competent entities in the academic circles in various areas of information technologies.

Opportunity to be recognized by the industry and academic circles as one of the preferred location / institution for acquiring training and skills latest technology and software.

Opportunity to students and faculty members to increase their knowledge and acquire skills on best-in-clause IBM software.

Opportunity to design innovative curriculum and on various industry specialization us9ing relevant IBM software

Opportunity to learn from the practitioners in the industry from IBM or business partners.

Opportunity for students and faculty members to avail professional and global certification on IBM software

Opportunity to setup a joint and co-branded Lab on the campus with IBM, focused on various speciality areas like Big Data, Analytics, Mobility, Security, SW Engg.etc.,

Opportunity to conduct independent non-commercial research by faculty members as per guidelines from IBM time to time.

Opportunity to receive courseware from IBM designed by professionals in IBM software Labs.

Opportunity to conduct various seminar and workshops with IBM in the institution Opportunity to co-market with IBM to promote Programs.

iv) IEG Jawahar Knowledge Centre (IEG JKC):

Jawahar knowledge centre is a Career Development and job oriented program organized by Institution of Electronic Governance (IEG), Govt. of A.P. The main objective of the JKC is to ensure the career opportunities for students.

JKC is one of the job sources for the students, having collaboration with our institution. Most of the top leading Recruiters are visiting the institution for on-Campus drives through JKC.

Our institution has the highest number of registered students in JKC in the district, with Star Category Status.

v) Start up Incubation centre:

The start up Incubation Centre to our institution has been sanctioned by the A.P. State Government, as a part of Sunrise Start-up programs for students on Jan 2015.

A.P. State government has sanctioned total 38 incubation centres in state (5 for Chittoor district) through this. Among those one is our institution.

It is a privilege to our institution to run incubation functionality for the development of student Entrepreneurs.

Student committee has been formed and approved by start up village, Visakhapatnam. This committee is working on incubator functionalities under the guidance of Coordinator and Head of the Institution.

vi) Skill Development Centre:

Aiming to promote innovation among students, the Andhra Pradesh government launched 17 skill development centres across the state where students from colleges and universities would take part in developing mobile apps and other skills.

It is proud that among those one is our institution throughout the state. It is started with a batch of 48 students in Phase – I.

They developed 52 Android Apps in the duration of 2 weeks (5-1-2015 to 17-1-2015).

Two students of phase – I were awarded two android mobiles by our honourable Chief Minister for their apps development.
4 students had got placements in Logic shore, vizag.

Phase – II started in the same year with 50 students, divided into 10 batches with 150 numbers of sessions.

In Phase-II, 10 projects have been developed and the same submitted as Final year projects.

Among these 10 projects 7 are mobile applications and 3 are web apps.

vii) MoU with Unitechtransfer

Unitechtransfer GmbH – German Centre for Automation and Robotics:

For students' career development the institution undersigned a MoU with Unitechtransfer GmbH – German Centre for Automation and Robotics.

Company responsible for following activities in organisation   of Internship/Project and Placement execution and all related maters.

The main activity includes remote theoretical and practical training from German and remote student assistance.

Designing the tasks according to the current Industry needs for Indian students which can be executable within 2-3 months according to the current Industry needs for Indian students.

Providing the technical infrastructure at the institute: Software to operate from India.

German experts to support the Indian universities during the complete period of task execution.

Sr. No.	Name of the centre	Program	Resource person (Mr/Dr/Mrs/Ms)	Date(s)	No. of student/faculty benefited
1	Unitechtransfer	Awareness of Automation and Robotics	Goutham. M MD, Unitechtransfer.	05th&6th Jan 2016	200

Vii) MoU with INTEL Technology India Private Limited, Bangalore

FICE is a Social Enterprise that believes that lasting changes to society can only come from ubiquitous, high quality, market relevant educational interventions to youth around the world. FICE promotes market relevant education. It strives to create a coherent innovation and entrepreneurship oriented ecosystem for Indian youth. FICE was founded in 2008 and currently operates in India and the United States of America. FICE will leverage its corporate, academic and federal networks to provide career oriented experiential learning opportunities to youth in India with specific focus on enhancing the innovation and entrepreneurship quotient of young adults from information technology, business management and science backgrounds.

Interaction with industry:

1. The college has entered into MoUs with leading industries, which are being pursued actively.

2. An active Entrepreneurship Development Cell is headed by a senior Professor to mould the students to become Entrepreneurs.

MoU's by JNTUA

MoU was signed between JNTUA and CIHL on behalf of Carnegie Mellon University USA to conduct MS (IT) Program from the academic year 2013-14. Registrar JNTUA and Director, Consortium of Institutions of Higher Learning (CIHL) Hyderabad had signed on it on 14-02-2013.

MoU was signed by JNTUA-Seer Academi- IIT Madras for ESDM Empowerment Program and E Learning on 26-03-2013 and to conduct M. Tech. Programs in Embedded Systems and VLSI Design. JNTUA signed MoU with INFLIBNET (Shodhganga) on 12/03/2013. This MoU comes in to force with effect from 25th March, 2013 and it facilitates online availability of Ph.D. thesis through centrally maintained digital repositories.

MoU was signed by JNTUA and National Board of Accreditation (NBA) on 12 th May, 2013 towards improvement in the quality and relevance of Technical Education and is the prime mover in accreditation of programs in Engineering and Technology.

MoU in signed by JNTUA-EdCIL (INDIA) Limited, New Delhi on 19th July, 2013 towards arranging admissions and placement of International Students. Students

belonging to Foreign Nationals, Persons of Indian Origins (PIO) & Non Resident Indians can pursue study & training at JNTUA.

Jawaharlal Nehru Technological University Anantapur entered into a MoU with the USA based Eastern Illinois University on 15.10.2013. Also discussed the possibility of offering a five-year course which would involve a bachelor's degree in Engineering in India and a one year study at the EIU for the masters' degree in management.

JNTUA Vice-Chancellor Prof. K. Lal Kishore has exchanged MoU with Kevin P. vicker, Director of the office of International Students and scholars at EIU.

JNTUA partnered with IBM on 06/05/2014 to train and educate students for more skilled and competitive Information Technology (IT) workforce. Under the IBM Academic Initiative, IBM will provide consultancy services and software to JNTUA to

develop curriculum in the emerging IT areas, such as Big Data and Analytics, Software Development and Collaboration.

Prof. K. Lal Kishore, Vice Chancellor, JNTUA, and Mr. V. Rajanna Vice President & Regional Head, TCS Hyderabad, signed the MoU on Saturday, March 22, 2014 in the presence of Prof. K.S.R. Anjaneyulu, Principal, JNTUA, and the TCS Academic Interface Program (AIP) Manager, Mr. Richardking. The MoU will be in force for a period of three years. On this occasion, Prof. K. Lal Kishore said that the MoU will enable strengthening of relationship between TCS, Hyderabad and JNTUA. He further stated that as a result of this MoU many faculty development programs, workshops and student exchange programs can be organized that help in collaborative learning and mutual growth. Further, student excellence awards can be instituted as a part of this MOU, he stated.

Criterion – II

2. Teaching, Learning and Evaluation

2.1 Total No. of permanent faculty

Total	Asst. Professors	Associate Professors	Professors	Others
192	129	40	23	1(Physical Director)

2.2 No. of permanent faculty with Ph.D.

20

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
20	-	2	-	6	-	-	-	41	-

2.4 No. of Guest and Visiting faculty and Temporary faculty

Guest	Visiting	Temporary
20	2	-

2.5 Faculty participation in conferences and symposia:

No. of Faculty	International level	National level	State level
Attended	6	20	-
Presented papers	3	18	-
Resource Persons	-	-	-

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

Innovations by the Faculty in teaching and learning shall be summarized as per the following description. Contributions to teaching and learning are activities that contribute to the improvement of student learning. These activities may include innovations not limited to, use of ICT, instruction delivery, instructional methods, assessment, evaluation and inclusive class rooms that lead to effective, efficient and engaging instruction. Any contributions to teaching and learning should satisfy the following criteria:

The work must be made available on Institute website

The work must be available for peer review and critique

The work must be reproducible and developed further by other scholars

The department/institution may set up appropriate processes for making the contributions available to the public, getting them reviewed and for rewarding. These may typically include statement of clear goals, adequate preparation, use of appropriate methods, significance of results, effective presentation and reflective critique

Innovations by the Faculty in teaching and learning are follows:

1. Instruction delivery and Instructional methods:

The faculty uses the chalk and board to teach the curriculum in the classroom The courses also are delivered using the LCD Projectors.

The members of the Faculty use the e-learning resources from National Programme on Technology Enhanced (NPTEL).

Demonstration with the working models, charts, components etc in the class room for better understanding.

Open course ware, webinars from national and international organizations are presented to the students.

Animation videos which explain in the E-class room for the effective teaching.

Conducting the seminars, group discussions, quiz etc., in the class rooms.

Each faculty teaches the content beyond the syllabus on advanced topics of the subject.

Guest lecturers, workshops, seminars by the eminent people from Industry, Academic

and Research Institutions are arranged by the Department.

Symposiums and conferences are organized to share their innovative ideas with others.

2. Printed Lab manuals and lab observation books:

Lab manuals with sample readings are available in the laboratories for the students reference.

All the lab manuals are revised and updated every year and whenever syllabus is revised.

The printed observations are provided to the students with all the experiments.

Conducting 2 or 3 design/additional experiments in addition to the university curriculum to fill the gap and improve their practical knowledge.

The students are encouraged to do the mini projects in the laboratory.

Charts, lab information posters are placed in each lab for reference.

3. Lecture notes and Question bank:

The lecture notes and power point presentations of each course are prepared by the faculty.

The printed objective and descriptive questions are circulated to the students.

Lecture notes and Question bank of each course are available in the college website

for peer review of students as well as the faculty who is handling the new course

4. Industrial Visits:

Industrial visits are frequently conducted to enhance the real time exposure of technology.

Our students have recently visited Doordarshan Chennai, Regional Telecom Training Centre Mysore etc.

5. Assessment:

I. Mandatory Assessment

As per the University examination pattern, two mid-term test and one final

examination are conducted for each subject.

Mid-term tests are evaluated by the internal faculty and final examination is evaluated by the University.

In the case of a practical course, students are evaluated on an on-going basis internally and then a final external examination.

II. Additional Assessment

Informal quiz, assignments, seminars etc at the end of each unit to ensure proper understanding of the concepts by the students.

Additional unit tests, slip tests are conducted after completion of each unit.

III. Evaluation:

Formative Evaluation

In the case of theory subjects, cumulative evaluation is based on the class tests, unit tests, assignments and seminars that are conducted soon after completion of specific number of units of the syllabus.

In the case of practical subjects, the students are continuously evaluated. Soon after performing an experiment, the students have to prepare the record of observations and submit the same for review by concerned faculty, before attending the next laboratory session.

Internal evaluation of project work is done periodically by conducting reviews.

Summative Evaluation

The institution has a policy of announcing the results of mid-term examinations within two days after the last exam.

All the faculties should strictly adhere to this policy and the same is ensured by the HODs and the Principal by conducting periodical reviews.

Evaluation of end-semester examinations (theory and practical subjects) is conducted by the University.

Evaluation of project work is also done by the university.

2.7 Total No. of actual teaching days during this academic year   201

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

Online Multiple Choice Questions

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.	B.Tech. Civil Engineering	-
2.	B.Tech. Electrical & Electronics Engineering	-
3.	B.Tech. Mechanical Engineering	-
4.	B.Tech. Electronics & Communication Engineering	-
5.	B.Tech. Computer Science Engineering	-
6.	Master of Business Administration	-
7.	Master of Computer Applications	-
8.	Bachelor of Science & Humanities	-

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

Course/Programme wise distribution of pass percentage:

Title of the Programme	Total no. of students appeared	Division					
		Distinctio %	%	I%	II%	III%	Pass %
BS & H	411	45.72		15.2	0.2	-	71.29
B. Tech.- CIVIL	53	15.09		67.92	-	-	83
B. Tech.- EEE	39	21		9	3	-	84.61
B. Tech. - MECH	53	11.3		22.6	33.96	-	67.9
B. Tech. - ECE	79	36.70		53.16	-	-	89.87
B. Tech. - CSE	21	13		2	2	-	80.95
M.TECH-DECS	-	-		-	-	-	-
M.TECH-SE	-	-		-	-	-	-

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, Internal and External examinations.

The number of instructional and tutorial hours which is required for completing the syllabus of each subject based on the previous experience of the faculty.

Diverse Assignments, for encouraging bright students, advanced topic assignments are imposed, giving awards to toppers in each class during annual celebrations.

Awards & Rewards, based on the performance, toppers are appreciated during annual celebrations.

Counselling, in the view of the student career, counsellors guide and motivate them towards their success.

For assisting the weak students, remedial classes are conduced based on their performance in internal and external examinations, special classes are also conducted to enhance the performance by giving more practice on important concepts.

Learning Process:

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

1. 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.

2. 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.

3. 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	4
UGC – Faculty Improvement Programme	-
HRD programmes	-
Orientation programmes	24
Faculty exchange programme	-
Staff training conducted by the university	14
Staff training conducted by other institutions	23
Summer / Winter schools, Workshops, etc.	105
Others	-

2.14 Details of Administrative and Technical staff

Category	Number of Permanent Employees	Number of Vacant Positions	Number of permanent positions filled during the Year	Number of positions filled temporarily
Administrative Staff	45	-	-	-
Technical Staff	30	-	-	-

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	-	-	-	-
Outlay in Rs. Lakhs	-	-	-	-

3.4 Details on research publications

	International	National	Others
Peer Review Journals	75	4	-
Non-Peer Review Journals	8	-	-
e-Journals	30	-	-
Conference proceedings	-	-	-

3.5 Details on Impact factor of publications:

Range [-]   Average [Y]   h-index [-]   Nos. in SCOPUS [7]

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				
Projects sponsored by the University/ College				
Students research projects (other than compulsory by the University)				
Any other(Specify)				
Total				
	-	-	-	-

3.7 No. of books published i) With ISBN No. | 7 | Chapters in Edited Books | - |

ii) Without ISBN No | 3 |

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.21, 939** |

3.11 No. of conferences organized by the Institution

Level		National	State	University	College
Number		-	-	-	-
Sponsoring agencies		-	-	-	-

3.12 No. of faculty served as experts, chairpersons or resource persons | **5** |

3.13 No. of collaboration   International | **6** | National | **1** | Any other | - |

3.14 No. of linkages created during this year | **6** |

3.15 Total budget for research for current year in lakhs:

From funding agency | - | From Management of University/College | **17.50 lakhs** |

Total | **17.50 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 -NIL-

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

And students registered under them | - |

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 | 27 | 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 | 4 | 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	01
3	Motivational programmes	03
4	Orientation programmes	03
5	Awareness Rallies	01

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	11.63 acres	-	-	11.63 acres
Class rooms	48	-	College Trust	48
Laboratories	38	-	College Trust	38
Seminar Halls	3	-	College Trust	3
No. of important equipments purchased (≥ 1-0 lakh) during the current year.	450	-	College Trust	450
Value of the equipment purchased during the year (Rs. in Lakhs)	69.52	45.07	-	114.59
Others	-	-	-	-

4.2 Computerization of administration and library

Administration: Library: Bar-Coding Facility, Digital Library

4.3 Library services:

	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
Text Books	28083	759826	2081	754000	30164	1513826
Reference Books	3534	1404000	316	10400	5688	1508000
e-Books	88 88	-	-	11500	2250	-
Journals			140	250000	-	-
e-Journals	Tie-Up with IEEE, J-Gate, DELNET					
Digital Database	Tie-Up with IEEE, J-Gate, DELNET & NPTEL					
CD & Video	1000		200		1200	
Others (specify)		-	-	-	-	-

4.4 Technology up gradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Depart ments	Others
Existing	720	08	50 Mbps	1	1	10	16	-
Added	240	02	70 Mbps	1	-	05	-	-
Total	960	10	120 Mbps	2	1	15	16	-

4.5 Computer, Internet access, training to teachers and students and any other programme for technology upgradation (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 | 0.50 |

ii) Campus Infrastructure and facilities | 236.20 |

iii) Equipments | 45.07 |

iv) Others | - |

Total : | **281.77lakhs** |

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

(2016-2017)

UG	PG	Ph. D.	Others
1350	-	-	0

(b) No. of students outside the state ☐ -

(c) No. of international students ☐ -

Men

No	%	Women
1016	75.25	

No	%
392	29.04

Last Year(2016-2017)						This Year (2017-2018)					
General	SC	ST OBC		Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
						791	128	07	364	-	1290

Demand ratio: Students are allotted by 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.

No. of students beneficiaries | **124** |

5.5 No. of students qualified in these examinations

NET | - | SET/SLET | - | GATE | 9 | CAT | - |

IAS/IPS etc | - | State PSC | - | UPSC | - | Others | 72 |

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 students** |

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
26	550	250	148

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
- Conducted a medical camp

5.9 Students Activities

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

State/ University level   **82**   National level   -   International level   -

No. of students participated in cultural events

State/ University level   300   National level   -   International level   -

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

Sports : State/ University level   **9**   National level   -   International level   -

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

5.10 Scholarships and Financial Support

	Number of Students	Amount
Financial support from institution	-	-
Financial support from government	-	-
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	01
3	Motivational programmes	03
4	Orientation programmes	03
5	Awareness Rallies	01

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

Curriculum is planned by the University. The college implements it
in strict accordance with the existing rules and norms.

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

following: 6.3.1 Curriculum Development

Curriculum is planned by the University. The college implements it
in strict accordance with the existing rules and norms

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

Internal Examinations are conducted as per the instructions

of the University. (Academic calendar attached).

University Examinations are conducted as per the
norms and regulations of the University of JUNTA

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

> Books were bought for the new courses commencing from this academic year.
> ICT enabled teaching

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.50% and for M.Tech./MBA/MCA 50%

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 **5.25 crores**

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

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

'CHETTU & NEERU' project was initiated in which the student volunteers

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. 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.

> 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
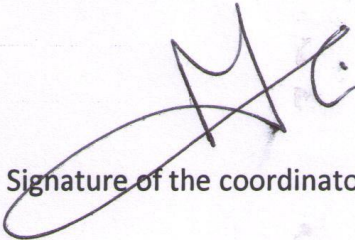education. Threats

More opportunity to learn practical way of life.

Lack of adequate campus placement

8.Plans of institution for next year:

1.Additional canteen to be constructed.
2.AC busess with Audio and Video systems are provided for all routes.
3.Additiona seminar hall is to be constructed.
4.CCTV cameras should be extended to all areas.
5.additional play ground(volley ball , foot ball)is to be constructed.
6.AC auditorium with Audio and Video system is constructed.

Name :M.Vijaya Lakshmi

Name:Dr.P.Sangameswara Raju

Signature of the coordinator,IQAC,

Signature of the Chairperson,IQAC,