



## Yearly Status Report - 2018-2019

### Part A

#### Data of the Institution

<b>1. Name of the Institution</b>		RAGHU INSTITUTE OF TECHNOLOGY
Name of the head of the Institution		Dr S.SATYANARAYANA
Designation		Principal
Does the Institution function from own campus		Yes
Phone no/Alternate Phone no.		08922248003
Mobile no.		9177779081
Registered Email		principal@raghuinstech.com
Alternate Email		ritprincipal3j@gmail.com
Address		RAGHU INSTITUTE OF TECHNOLOGY, DAKAMARRI, BHEEMUNIPATNAM, VISAKHAPATNAM, AP
City/Town		Viskhapatnam
State/UT		Andhra Pradesh
Pincode		531162

<b>2. Institutional Status</b>					
Autonomous Status (Provide date of Conformant of Autonomous Status)			28-May-2018		
Type of Institution			Co-education		
Location			Rural		
Financial Status			Self financed and grant-in-aid		
Name of the IQAC co-ordinator/Director			Dr.V.Nagabhushana Rao		
Phone no/Alternate Phone no.			08922248013		
Mobile no.			9177147058		
Registered Email			vnbrao24ster@gmail.com		
Alternate Email			ritprincipal3j@gmail.com		
<b>3. Website Address</b>					
Web-link of the AQAR: (Previous Academic Year)			<a href="http://www.raghuinstech.com/wp-content/uploads/2020/10/AQAR-Report-2017-18.pdf">http://www.raghuinstech.com/wp-content/uploads/2020/10/AQAR-Report-2017-18.pdf</a>		
<b>4. Whether Academic Calendar prepared during the year</b>			Yes		
if yes,whether it is uploaded in the institutional website: Weblink :			<a href="http://www.raghuinstech.com/wp-content/uploads/2020/09/academic_calender.pdf">http://www.raghuinstech.com/wp-content/uploads/2020/09/academic_calender.pdf</a>		
<b>5. Accrediation Details</b>					
Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
1	A	3.02	2017	12-Sep-2017	31-Dec-2023
<b>6. Date of Establishment of IQAC</b>			22-Jun-2015		
<b>7. Internal Quality Assurance System</b>					
Quality initiatives by IQAC during the year for promoting quality culture					
Item /Title of the quality initiative by	Date & Duration		Number of participants/ beneficiaries		

IQAC		
IOT- Raspberry PI	03-Aug-2018 5	30
Introduction to wavelets	20-Jul-2018 1	30
Adaptive and distributed learning	04-Aug-2018 1	30
Machine learning applications to data mining	29-Dec-2018 1	40
III/IV B.TECH Students Industrial Visit At	23-Feb-2019 2	110
IV/IV IV B.Tech. Students Industrial Visit AT	25-Feb-2019 1	120
III/IV B.Tech. Students Industrial VISIT at Zonal workshop , APSRTC, VZM	24-Sep-2018 2	240
SAE INDIA Collegiate Club inauguration	20-Sep-2018 1	285
Guest Lecture on Advances In Manufacturing Technologies	11-Feb-2019 2	245
Science Day	28-Feb-2019 1	421
<a href="#">View File</a>		

**8. Provide the list of Special Status conferred by Central/ State Government-UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.**

Institution/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
RIT/ECE// Dr.V.V.S.S.S. Chakravarthy	AQIS/FDP	AICTE	2018 1	550000
RIT /CSE/V SANGEETHA	AQIS/FDP	AICTE	2018 1	424000
RIT /MECH/Dr P VIJAYA KUMAR	AQIS/MODROBS	AICTE	2018 2	1275000
<a href="#">View File</a>				

**9. Whether composition of IQAC as per latest NAAC guidelines:**

Yes

Upload latest notification of formation of IQAC

[View File](#)

**10. Number of IQAC meetings held during the year :**

4

The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website	Yes
Upload the minutes of meeting and action taken report	<a href="#">View File</a>
<b>11. Whether IQAC received funding from any of the funding agency to support its activities during the year?</b>	No

**12. Significant contributions made by IQAC during the current year(maximum five bullets)**

- The Internal Quality Assurance Cell (IQAC) of the Raghu Institute of Technology has taken initiatives in preparing the perspective plan by collecting input data from all stakeholders, their expectations, management policies, goals and objectives of the Institution.
- Internal Quality Assurance Cell ensures the quality of the teaching learning process and its outcome through internal and external audits conducted at regular intervals.
- Internal Quality Assurance Cell has taken efforts to improve the quality of teaching by involving students and faculty for NPTEL lectures.
- Periodical meetings with staff members are initiated to formulate the plan of action and the implementation of action plans are reviewed in the subsequent meetings.
- Monitor and ensure the quality of student's activities, departmental activities and staff members for periodic assessment for timely, efficient and progressive performance of academic task.
- Finally, IQAC strengthened the campus placement process through by conducting training classes.

[View File](#)

**13. Plan of action chalked out by the IQAC in the beginning of the academic year towards Quality Enhancement and outcome achieved by the end of the academic year**

Plan of Action	Achivements/Outcomes
To conduct Internal IQAC Audit for all the departments and other Cells for the effective functioning.	Exams are conducted systemaically without any disturbance
A common and specific format may be designed to collect the feedback from different stake holders associated with the institution.	Measures are taken and framed a common format to acquire the feedback from Students Parents Alumni
To encourage staff members for registering Ph.D programs.	Improved the number of Ph.D holders in the Institution.
Encouraging the faculty to enroll the NPTEL courses to improve the quality of teaching	Large no of faculty and students are motivated succeeded with good performance. Many are secured Gold medals
Encouraging the faculty to attend training programs such as FDPs, STTPs, Workshops, Seminars etc	Large no of Faculty have attend the training programs and they are able to deliver the content beyond the syllabus that created more interest among the students

Campus recruitment training classes were planned to increase percentage of campus recruitment.	Campus recruitment training classes are conducted in third year first semester and now large no students are ready for the placements with more confidence
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<b>14. Whether AQAR was placed before statutory body ?</b>	Yes
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Name of Statutory Body	Meeting Date
IQAC Body	12-Apr-2019

<b>15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?</b>	Yes
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Date of Visit	07-Jul-2017
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<b>16. Whether institutional data submitted to AISHE:</b>	Yes
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Year of Submission	2019
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Date of Submission	31-Jan-2019
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<b>17. Does the Institution have Management Information System ?</b>	Yes
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If yes, give a brief description and a list of modules currently operational (maximum 500 words)	<p><b>MANAGEMENT INFORMATION SYSTEM</b> The Institution has a management Information System using raghuerp.in portal. The following are some of the important modules</p> <ul style="list-style-type: none"> <li>• Staff attendance biometric.</li> <li>• Staff daily activity report.</li> <li>• Staff leave</li> <li>• Staff workload</li> <li>• Library details</li> </ul> <p><b>Staff attendance biometric:</b> All the staff members are instructed use biometric machines for attendance purpose. Staff use biometric during morning (while entering institution) and evening (while leaving the institution). Principal will check the data on no of staff members attended , no of faculty on leaves and the total no of staff members.</p> <p><b>Staff daily activity report:</b> All the teaching staff are instructed to fill the daily activity report in the same day itself. This involves different works carried out by teaching staff i.e. no of classes taken, lab works, record correction, writing the journal paper,</p>
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discussion with the students regarding the subject or project work, mentoring, counselling. Invigilation, paper correction etc. Staff leave: All the staff are instructed avail the leaves only through erp portal. Laves are sanctioned to the staff on after assigning the duties. This task is taken care by the concerned Head of the department. Final approval of the leave is done by the Principal. ERP displays the leave details like no of leaves available, no of leaves taken etc. There is also option for cancelling the leaves if leaves are not needed. Staff workload: Work load of the faculty members for the current semester is available in the erp and all the faculty members are strictly instructed to take load as per time table mentioned in the erp portal. The same is monitored by the concerned head of the department and sometimes the Principal. Memos will be issued to the faculty members if instructions given are violated. Library details: The faculty members and the students can see the no books available on erp. If any faculty member or student wants books library, can take the books through erp if the books are available. The following options are available in library erp module. ? The no of books to be taken ? No of books taken ? Due date

## Part B

### CRITERION I – CURRICULAR ASPECTS

#### 1.1 – Curriculum Design and Development

1.1.1 – Programmes for which syllabus revision was carried out during the Academic year

Name of Programme	Programme Code	Programme Specialization	Date of Revision
BTech	AR18	Civil Engineering	11/06/2018
BTech	AR18	Electrical & Electronics Engineering	11/06/2018
BTech	AR18	MECHANICAL Engineering	11/06/2018
BTech	AR18	Electronic and Communication Engineering	11/06/2018
BTech	AR18	Compuetr Science Engineering	11/06/2018

Mtech	AR18	Power electronics	11/06/2018
Mtech	AR18	Machine Design	11/06/2018
Mtech	AR18	ES& VLSI	11/06/2018
Mtech	AR18	Computer Science Engineering	11/06/2018
<a href="#">View File</a>			

1.1.2 – Programmes/ courses focussed on employability/ entrepreneurship/ skill development during the Academic year

Programme with Code	Programme Specialization	Date of Introduction	Course with Code	Date of Introduction
BTech	ALL	19/07/2018	English Communication Skills Lab, 18EG111	19/07/2018
BTech	ALL	19/07/2018	Seminar on Current Affairs, 18EG121	19/07/2018
BTech	ALL	19/07/2018	Seminar on Science and its impact, 18HS221	19/07/2018
<a href="#">View File</a>				

## 1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the Academic year

Programme/Course	Programme Specialization	Dates of Introduction
Mtech	Power electronics	27/08/2018
Mtech	ES& VLSI	27/08/2018
<a href="#">View File</a>		

1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective Course System implemented at the College level during the Academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
BTech	CIVIL ENGINEERING	19/07/2018
BTech	EEE	19/07/2018
BTech	MECHANICAL ENGINEERING	19/07/2018
BTech	ECE	19/07/2018
BTech	CSE	19/07/2018
Mtech	MACHINE DESIGN	27/08/2018
Mtech	ES& VLSI	27/08/2018
Mtech	Power electronics	27/08/2018
Mtech	Computer Science Engineering	27/08/2018

## 1.3 – Curriculum Enrichment

### 1.3.1 – Value-added courses imparting transferable and life skills offered during the year

Value Added Courses	Date of Introduction	Number of Students Enrolled
MATLAB	21/07/2018	150
C Programming through Code Tantra	01/10/2018	170
Solar Wind Energy Estimation and Forecasting Application	15/09/2018	98
Skill Development program on ANSYS and MAT Lab	21/09/2018	127
3 Days Training Programme for students on Total Station	24/08/2018	40
<a href="#">View File</a>		

### 1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BTech	Hast Alloys	70
BTech	CEMS(Centre of Excellency in Marine and Ship building	65
BTech	Samkarg Pistons rings and LTD	119
BTech	APSRTC Zonal workshop	97
BTech	Industrial visits, Visakhapatnam Port Trust	103
BTech	Industrial visits, Steel Plant	112
BTech	Industrial visits, Centre of Excellence in maritime & ship Building	114
BTech	AP Innovation Centre	120
BTech	ISRO, Srihari kola	4
BTech	Industrial visits-Sub station	95
<a href="#">View File</a>		

## 1.4 – Feedback System

### 1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	Yes
Alumni	Yes
Parents	Yes



1.4.2 – How the feedback obtained is being analyzed and utilized for overall development of the institution?  
(maximum 500 words)

#### Feedback Obtained

Feedback is an essential element of the teaching and learning process. The Institution collects the feedback on various curriculum aspects and courses from different stakeholders such as the Students, Alumni, Faculty and Parents.

**Students' Feedback** The Students' Feedback on curriculum and teaching learning process at RAGHU INSTITUTE OF TECHNOLOGY campus is designed to get formative feedback from students that can be used towards the improvements in the quality of course design and delivery. Feedback analysis report

- The analysis of the students' feedback clearly depicts that they are well satisfied with the curriculum development and revision.
- The students highly appreciated the academic related infrastructural facilities such as library, laboratories, playground and other facilities.

**1. Faculty Feedback** Feedback on various aspects of curriculum is sought from senior faculty members. The aspects such as provision of adequate time and resources for framing syllabus, coverage of both theoretical and practical components in the syllabus, the coherence of the syllabus with Course objectives, Program outcomes and involvement of the field experts while designing the syllabus. Feedback analysis report

- The analysis of the teachers' feedback reflects the adequacy and availability of teaching-learning facilities.
- The feedback from the teachers revealed the validity and adequacy of the syllabus. Also, it is quite helpful in reframing the course content according to the societal needs.
- Parents Feedback

Feedback obtained from the parents is considered as vital for the development of any educational institution. Parents' feedback is taken from parents about the curriculum and the institution. Feedback analysis report

- The feedback analysis reports that from the parents clearly depicts their satisfaction towards the curricular and non-curricular activities rendered by the Institution.
- From the analysis it is evident that the parents believe that their wards develop good soft skills and ethical values during their course of study.

**2. Alumni Feedback** The contribution of alumni to the activities of the Institution is substantial especially in the development of the curriculum. Feedback analysis report

- The alumni feedback analysis report reveals that majority (100) of the alumni are happy and proud to be a part of this institution and they agreed that they would recommend their friends and relatives to enroll in this institution.
- • The alumni appreciated the academic initiatives taken by the Institution to restructure and update the curriculum as per the current needs.

**3. Employer's Feedback** Our employers are our major stakeholders, feedback of whom gives us input regarding enhancing the employability of our students. Feedback analysis report

- In general the employers are happy with the student of the our institute and they rated the performance of our students as "Good" and "Satisfactory"
- The employs reported that they would like to employ more students from our institute
- The feedback suggested the need for more practical lab for coding algorithm and design pattern.
- The feedback suggested the need for more practical lab for coding algorithm and design pattern.

## CRITERION II – TEACHING- LEARNING AND EVALUATION

### 2.1 – Student Enrolment and Profile

#### 2.1.1 – Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
Mtech	Compuetr Science Eng	18	Nill	Nill
Mtech	Power Electronics	18	2	2

Mtech	ES& VLSI	18	3	3
Mtech	Machine Design	18	10	10
BTech	Civil Engineering	60	21	21
BTech	Electrical & Electronics Engineering	60	19	19
BTech	MECHANICAL Engineering	120	87	87
BTech	Electronic and Communication Engineering	180	158	158
BTech	Computer Science Engineering	180	170	170
<a href="#">View File</a>				

## 2.2 – Catering to Student Diversity

### 2.2.1 – Student - Full time teacher ratio (current year data)

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2018	455	15	126	8	134

## 2.3 – Teaching - Learning Process

### 2.3.1 – Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc. (current year data)

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Number of smart classrooms	E-resources and techniques used
134	111	111	39	39	3

[View File of ICT Tools and resources](#)

[View File of E-resources and techniques used](#)

### 2.3.2 – Students mentoring system available in the institution? Give details. (maximum 500 words)

Mentoring System The process of Mentoring is a form of counseling and guidance activities. It addresses the needs of the students. The practice is aimed at fostering a better rapport between the students and the teachers at a personal level. Effective mentoring begins with the faculty and depends upon the healthy relationship between faculty and students. Mentor A mentor is a teacher acting both as a friend and a role model who supports and encourages a student in his/her academic and personal growth. The mentor guides a student in his /her academic pursuits and emotional and psychological development, particularly in the latter's' transition phase. Raghu Institute of Technology has adopted and implemented a Mentoring System as a student support measure. Each faculty member is the mentor of a group of 20 to 25 students allocated to him/ her by the Head of the Department. The teacher mentor collects personal information from the ward and then provides the needed counseling. Critical issues are brought to the notice of the Head of the Department. The teacher meets the wards regularly and guides them regarding their career options. A documented record of the mentoring process is

maintained by the mentor teacher and the Head of the Department for reference purposes. Types of Mentoring: • Professional Guidance – regarding professional goals, selection of career, higher education. • Career advancement – regarding self-employment opportunities, entrepreneurship development, morale, honesty, and integrity required for career growth. • Course-specific – regarding attendance and performance in the present semester and overall performance in the previous semester. • Lab-specific – regarding Do's and Don'ts in the lab. Responsibilities: The Mentor • Meets the group of students at least twice a month. • Continuously monitors, counsels, guides and motivates the students in all academic matters. • Advises students regarding choice of electives, project, summer training etc. • Contacts parents/guardians if situation demands e.g. academic irregularities, negative behavioral changes and interpersonal relations, detrimental activities etc. • Advises students in their career development/professional guidance. • Intimates HOD and suggest if any administrative action is called for. • Maintains a detail progressive record of the student. • Maintains a brief but clear record of all discussions with students. The HOD • Meets all mentor of his/her department at least once a month to review the proper implementation of the system • Advises mentors wherever necessary. • Initiates administrative action on a student when necessary. • Keeps the head of the institute informed. The Academic Council The academic council of the institution discusses mentoring related issues at least once a semester during its meetings and revises/upgrades the system if necessary. Targets achieved The practice of Mentoring System has considerably enhanced the campus environment and brought about: a) Enhanced contact hours between Mentors with their respective students b) Improvement in students' attendance records c) Minimised student drop-out rates (apparently due to Mentors' intervention before a student falls short of attendance or has been regularly abstaining from classes) d) Identification of slow learners for conducting Remedial Classes

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
2090	134	1:16

## 2.4 – Teacher Profile and Quality

### 2.4.1 – Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
134	134	Nil	2	18

### 2.4.2 – Honours and recognition received by teachers (received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the year )

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2019	Mrs S. RAMA LAKSHMI MALLADI	Assistant Professor	ANVESHANA
2018	Dr P Vijaya Kumar	Professor	Certificate of reviewer, Journal of "Materials Performance and Characterization
2018	Dr P Vijaya Kumar	Professor	Certificate of reviewer, Journal of "High Temperature Materials and Processes.
2018	Dr V Naga Bhushana Rao	Professor	Certificate of Excellence in Reviewing, Journal of Material Science Research and Reviews

2018	Dr V Naga Bhushana Rao	Professor	Elite certificate (Top 2 and 4th Rank)" for the course "Engineering Thermodynamics" conducted by NPTEL in Oct 2018. Marks secured are 86/100.
2019	Dr V Naga Bhushana Rao	Professor	Elite Gold certificate (Top 1 and 1st Rank)" for the course "Conduction and Convection Heat Transfer" conducted by NPTEL in April 2019. Marks secured are 100/100.
2019	Mr P. Nagabushanam	Associate Professor	Elite Gold certificate (Top 2)" for the course "Waste water Treatment and Recycling" conducted by NPTEL in Oct 2019. Marks secured are 92/100.
2019	Mr. M.K. Sumanth	Assistant Professor	Elite Silver certificate (Top 1 and 1st Rank)" for the course "Digital land survey and Mapping" conducted by NPTEL in Oct 2019. Marks secured are 80/100.
2019	Ms. P.Sumanjali	Assistant Professor	Elite Silver certificate (Top 5)" for the course "Geotechnical engineering - I" conducted by NPTEL in Oct 2019. Marks secured are 87/100.
<a href="#">View File</a>			

## 2.5 – Evaluation Process and Reforms

2.5.1 – Number of days from the date of semester-end/ year- end examination till the declaration of results during the year

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
BTech	05	I/I	14/12/2018	28/01/2019

BTech	04	I/I	14/12/2018	28/01/2019
BTech	03	I/I	14/12/2018	28/01/2019
BTech	02	I/I	14/12/2018	28/01/2019
BTech	01	I/I	14/12/2018	28/01/2019
BTech	01	II/1	10/05/2019	10/06/2019
BTech	02	II/I	10/05/2019	10/06/2019
BTech	03	II/I	10/05/2019	10/06/2019
BTech	04	II/I	10/05/2019	10/06/2019
BTech	05	II/I	10/05/2019	10/06/2019

[View File](#)

2.5.2 – Average percentage of Student complaints/grievances about evaluation against total number appeared in the examinations during the year

Number of complaints or grievances about evaluation	Total number of students appeared in the examination	Percentage
Nill	2090	00

## 2.6 – Student Performance and Learning Outcomes

2.6.1 – Program outcomes, program specific outcomes and course outcomes for all programs offered by the institution are stated and displayed in website of the institution (to provide the weblink)

<https://www.raghuinstech.com/pos-and-psos/>

2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
01	BTech	Civil Engineering	66	48	72.7
02	BTech	Electrical & Electronics Engineering	49	42	85.7
03	BTech	MECHANICAL Engineering	136	89	65.44
04	BTech	Electronic and Communication Engineering	180	126	70
05	BTech	Computr Science Engineering	110	93	84.5

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## 2.7 – Student Satisfaction Survey

2.7.1 – Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design the questionnaire) (results and details be provided as weblink)

<http://www.raghuinstech.com/wp-content/uploads/2020/11/Student-Satisfaction->

### CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

#### 3.1 – Promotion of Research and Facilities

3.1.1 – The institution provides seed money to its teachers for research

<b>Yes</b>
Name of the teacher getting seed money
Prof P S R Chowdary
<a href="#">View File</a>

3.1.2 – Teachers awarded National/International fellowship for advanced studies/ research during the year

Type	Name of the teacher awarded the fellowship	Name of the award	Date of award	Awarding agency
National	Dr B Govindh	CO-PI	12/04/2019	CFEES-DRDO
<a href="#">View File</a>				

#### 3.2 – Resource Mobilization for Research

3.2.1 – Research funds sanctioned and received from various agencies, industry and other organisations

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
Minor Projects	180	Visakha Dairy	0.5	0.5
Minor Projects	365	Akrivia Automation Pvt.Ltd	3.27	3.27
Industry sponsored Projects	365	AKRIVIA AUTOMATION PVT.LTD	10	10
Industry sponsored Projects	150	AKRIVIA AUTOMATION PVT.LTD	2.5	2.5
Any Other (Specify)	15	AICTE	5.5	5.5
<a href="#">View File</a>				

3.2.2 – Number of ongoing research projects per teacher funded by government and non-government agencies during the years

1
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#### 3.3 – Innovation Ecosystem

3.3.1 – Workshops/Seminars Conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the year

Title of workshop/seminar	Name of the Dept.	Date
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C104-IPR PROFESSIONAL PRIMER COURSE	Department of Electronics and Communication Engineering	23/04/2019
Intellectual property - A knowledge Gateway for Business	Department of Electronics and Communication Engineering	10/01/2019
Empowering Women in Entrepreneurship	RIT	16/02/2019
Power Distribution and Measurement	Electrical Electronics Engineering	12/12/2018
Essential Aspects of Power system Planning And Development	Electrical Electronics Engineering	20/02/2019
Seminar on Entrepreneurship and Business Development	Electrical Electronics Engineering	15/11/2018
Cooling technologies of gas turbine blades	Mechanical Engineering	09/11/2019
SAE INDIA INAGURAL FUNCTION	Mechanical Engineering	20/09/2019
RECENT TRENDS IN STEEL MANUFACTURING	Mechanical Engineering	09/11/2019
ADVANCES IN MANUFACTURING TECHNOLOGIES	Mechanical Engineering	11/02/2019
Technical session on MATLAB for mechanical engineers by Dr.Dhruv Chandel	Mechanical Engineering	26/06/2019
GUEST LECTURE ON INTER-DISCIPLINARY RESEARCH-PROBLEMS RELATED TO ADAPTIVE AND DISTRIBUTED LEARNING APPLICATIONS	CSE ECE	08/08/2018
ONE WEEK WORKSHOP ON "UI DEVELOPMENT"	CSE	05/09/2018
GUEST LECTURE ON MACHINE LEARNING APPLICATIONS TO DATA MINING	CSE ECE	29/12/2018
WEBINAR ON INDIA FIRST LEADERSHIP TALK SERIES	CSE ECE	08/01/2019
SEMINAR ON EMPOWERING WOMEN IN ENTREPRENEURSHIP	CSE ECE	16/02/2019
SEMINAR ON DENTAL CARE	CSE ECE	19/02/2019
GUEST LECTURE ON ACHIEVING EXCELLENCE IN TECHNICAL EDUCATION	CSE ECE	26/02/2019
SEMINAR ON WOMEN EMPOWERMENT	CSE ECE	08/03/2019

GUEST LECTURE ON CURRENT TRENDS IN DATABASE MANAGEMENT	CSE	13/03/2019
TECHNICAL TALK ON DATA ANALYTICS	CSE	04/04/2019
<a href="#">View File</a>		

### 3.3.2 – Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
Green Energy - Energy Generated from Plants	ANVESHANA(BUILDING BRIDGES TO DISCOVER)	AGASTYA	27/01/2019	FRIST PRIZE
Research Methodology	DVN Ananth	DK International Research Foundation	30/12/2018	Research
<a href="#">View File</a>				

### 3.3.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsered By	Name of the Start-up	Nature of Start-up	Date of Commencement
Nil	NIL	NIL	Nil	NIL	Null
No file uploaded.					

## 3.4 – Research Publications and Awards

### 3.4.1 – Ph. Ds awarded during the year

Name of the Department	Number of PhD's Awarded
Humanities Sciences	1
Electronic and Communication Engineering	1
Compuetr Science Engineering	1
Electrical Electronics Engineering	1

### 3.4.2 – Research Publications in the Journals notified on UGC website during the year

Type	Department	Number of Publication	Average Impact Factor (if any)
International	Electrical Electronics Engineering	19	3.6
<a href="#">View File</a>			

### 3.4.3 – Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	Number of Publication
Mechanical Engineering	7
Electronic and Communication Engineering	3
<a href="#">View File</a>	



### 3.4.4 – Patents published/awarded during the year

Patent Details	Patent status	Patent Number	Date of Award
<p>“Novel synthetic methodology for Perfluoro Iso-propyl ethyl ketone in a single step” Filed by CFEES-DRDO. Dr B Govindh is one of the Members in the Patent.</p>	Filed	Nil	Nil
<a href="#">View File</a>			

### 3.4.5 – Bibliometrics of the publications during the last academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
Analysis of grid connected dfig with variation in generator speed and stator reactive power demand using reference power based improved field oriented control	Joga Rao, G., Ananth, D.V.N., Kiran Kumar, P.,	International Journal of Innovative Technology and Exploring Engineering	2018	0	Raghu Institute of Technology	Nil
Performance enhancement of PMBL DC motor drive by multi-carrier modulation technique	Joga Rao, G., Ananth, D.V.N., Kiran Kumar, P.,	International Journal of Innovative Technology and Exploring Engineering	2018	0	Raghu Institute of Technology	Nil
Design of DFIG Converters to Overcome	Ananth, D. V. N.,	Technology and Economics of Smart	2018	0	Raghu Institute of Technology	Nil

Grid Faults Using Improved Stator Flux Based Field Oriented Control and STATCOM Controller		Grids and Sustainable Energy				
Inter connection of wind and photovoltaic systems: modelling, conversion and control	S. Satya narayana, .	International Journal of Ambient Energy	2019	21	Raghu Institute of Technology	5
Design and analysis of variable switching frequency controlled integrated switched mode power converter for class C class D appliances	S. Satya narayana, .	Ain Shams Engineering Journal	2018	32	Raghu Institute of Technology	Nil
Digital Fuzzy Current Mode Controlled Integrated PFC Converter with External Ramp Compensation	S. Satya narayana, .	Journal of Circuits, Systems and Computers	2018	24	Raghu Institute of Technology	1
Design of hybrid solar wind energy system in a microgrid	S. Satya narayana, .	International Journal of Electrical and Computer Engineering	2018	14	Raghu Institute of Technology	5

with MPPT techniques						
Fuzzy Controller-Based Intelligent Operation of Grid-Connected DFIG During Recurring Symmetrical Faults	D. V. N. Ananth,	Artificial Intelligence and Evolutionary Computations in Engineering Systems	2018	0	Raghu Institute of Technology	Nil
A review of different optimisation techniques for solving single and multi-objective optimisation problem in power system and mostly unit commitment problem,	D. V. N. Ananth,	International Journal of Ambient Energy	2019	21	Raghu Institute of Technology	Nil
Efficient time reducing and energy saving routing algorithm for wireless sensor network	Dr V V S S S Chakravarthy et. al.,	Journal of Physics	2018	2	Raghu Institute of Technology	1
<a href="#">View File</a>						

3.4.6 – h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
Gray level run length matrix	Sonali Dash. et. al.,	Evolutionary Intelligence, Springer	2018	5	3	Raghu Institute of Technology

based on various illumination normalization techniques for texture classification						
On the Convergence of synthesis of desired nulls from circular arrays using flower pollination algorithm	Dr P S R Chowdary et. al.,	Microelectronics, Electromagnetics and Telecommunication, Springer	2018	7	2	Raghu Institute of Technology
Antenna Array Synthesis Using Social Group Optimization	Dr V V S S S Chakravarthy et. al.,	Microelectronics, Electromagnetics and Telecommunication, Springer	2018	7	8	Raghu Institute of Technology
Image Denoising using Wavelet Transform Based flower pollination algorithm	Dr P S R Chowdary et. al.,	Advances in Intelligent systems and computing	2018	7	2	Raghu Institute of Technology
Efficient time reducing and energy saving routing algorithm for wireless sensor network	Dr V V S S S Chakravarthy et. al.,	Journal of Physics	2018	7	1	Raghu Institute of Technology
Inter connection of wind and photovoltaic systems:	Satyanarayana Sampalli	International Journal of Ambient Energy	2019	21	Nil	Raghu Institute of Technology

modelling, conversion and control						
Design and analysis of variable switching frequency controlled integrated switched mode power converter for class C class D appliances	S Satyan arayana	Ain Shams Engineering Journal	2018	32	Nil	Raghu Institute of Technology
Digital Fuzzy Current Mode Controlled Integrated PFC Converter with External Ramp Compensation	S Satyan arayana	Journal of Circuits, Systems and Computers	2018	24	1	Raghu Institute of Technology
Design of hybrid solar wind energy system in a microgrid with MPPT techniques	S.Satyan arayana	International Journal of Electrical and Computer Engineering	2018	14	3	Raghu Institute of Technology
A review of different optimisation techniques for solving single and multi-objective optimisation problem in power system and mostly	D. V. N. Ananth K. S. T. Vineela	International Journal of Ambient Energy	2019	21	Nil	Raghu Institute of Technology

unit commitment problem					
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### 3.4.7 – Faculty participation in Seminars/Conferences and Symposia during the year

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	57	51	2	25
Presented papers	36	6	1	Nil
Resource persons	Nil	2	Nil	Nil
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### 3.5 – Consultancy

#### 3.5.1 – Revenue generated from Consultancy during the year

Name of the Consultan(s) department	Name of consultancy project	Consulting/Sponsoring Agency	Revenue generated (amount in rupees)
AKRIVIA	Design and Development of 32 channel data logger system with wireless interface	AKRIVIA	128620
AKRIVIA	Design and Development of Door Interlocking System	AKRIVIA	48380
AKRIVIA	Design and Development of clean Room Indicator	AKRIVIA	60180
Mechanical Engineering	Performance testing of Bio diesel	Veda Bio fuels limited	5000
Mechanical Engineering	Mechanical testing of welds	Sri Nagavalli railing works	10000
Mechanical Engineering	Mechanical testing of wrought products	Beekay Radice, Ispat India PVT, Vizag	16000
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#### 3.5.2 – Revenue generated from Corporate Training by the institution during the year

Name of the Consultan(s) department	Title of the programme	Agency seeking / training	Revenue generated (amount in rupees)	Number of trainees
NIL	NIL	NIL	0	0
No file uploaded.				

### 3.6 – Extension Activities

3.6.1 – Number of extension and outreach programmes conducted in collaboration with industry, community and Non- Government Organisations through NSS/NCC/Red cross/Youth Red Cross (YRC) etc., during the year

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
Tribute rally for the pulwama attack	Raghu Engineering college	5	800
Dental seminar conducted by Dr.U.Lakshman Varma	Dr.U.Lakshman Varma	5	300
Special camp Conducted in Dhakamarri village	Village secretary, Govt school	5	100
Titli Cyclone relief donation in Srikakulam	AP police department	5	50
ENGINEERS DAY	Sri. U.A.N.Raju, Former superintending Engineer, AP water source department	2	150
NSS unit organized the "Blood donation camp " at RIT in collaboration with NVN BLOOD BANK ,Vizianagaram	NVN BLOOD BANK ,Vizianagaram	5	107
NSS unit organized "SWACHTA PAKHWADA" camp at KORADA VILLAGE	Village president, Govt school, Premasamajam old age home vizianagaram	2	100
Yoga day	Raghu Institute of Technology	2	100
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3.6.2 – Awards and recognition received for extension activities from Government and other recognized bodies during the year

Name of the activity	Award/Recognition	Awarding Bodies	Number of students Benefited
Blood donation	Certificate of appreciation	District Aids prevention control unit, vizianagaram	107
NSS	Blood Donation Camp	District AIDS Prevention Control Unit, Vizianagaram	500
<a href="#">View File</a>			

3.6.3 – Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/Agen cy/collaborating	Name of the activity	Number of teachers participated in such	Number of students participated in such
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	agency		activites	activites
JANMA BHOOMI program	Andhra Pradesh Government	JANMA BHOOMI MA VURU	2	50
NSS	NSS	Swacchta Pakhwada	1	100
NSS	NSS	Cyclone Relief Donation in Srikakulam	1	50
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### 3.7 – Collaborations

#### 3.7.1 – Number of Collaborative activities for research, faculty exchange, student exchange during the year

Nature of activity	Participant	Source of financial support	Duration
Paper Publication	Dr V V S S S Chakravarthy et. al	self	2018
Paper Publication	Dr V V S S S Chakravarthy et. al	self	2018
Paper Publication	Dr V V S S S Chakravarthy et. al	self	2018
Paper Publication	Dr V V S S S Chakravarthy et. al	self	2018
Paper Publication	Dr V V S S S Chakravarthy et. al	self	2018
Paper Publication	Dr V V S S S Chakravarthy et. al	self	2018
Paper Publication	Dr V V S S S Chakravarthy et. al	self	2018
Paper Publication	V Nagabhushana Rao	Raghu Institute of Technology	2018
Paper Publication	V Nagabhushana Rao	Raghu Institute of Technology	2018
Paper Publication	V Nagabhushana Rao	Raghu Institute of Technology	2019
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#### 3.7.2 – Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
INTERNSHIP	IoT ml	Inventrom	27/05/2019	26/07/2019	D Harsha Manoj
INTERNSHIP	IoT ml	BOLT IoT ml	01/06/2018	31/08/2018	K.SAI PRASANTH, S.YESWANTH,



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3.7.3 – MoUs signed with institutions of national, international importance, other institutions, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
KVS Engineering Works	13/08/2018	Industry Internships	15
IND-CHEM	18/06/2018	Consultancy Service, Fabrication, Training Classes	12
Prominent Teknologies	06/02/2019	Technology Development	12
MOOTEK Technology	25/09/2018	Internships and Placements	12
Akrivia Automation Pvt. Ltd	15/10/2018	Research Development	12
VTC surface technologies	12/11/2018	Internships and Technology Development	13
Brain O Vision	16/07/2018	Skill enhancement of the students and to organize Technical workshops, seminars and hackthon etc	12

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## CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

### 4.1 – Physical Facilities

4.1.1 – Budget allocation, excluding salary for infrastructure augmentation during the year

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
85	81.14

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Campus Area	Existing
Class rooms	Existing
Laboratories	Existing
Seminar Halls	Existing
Classrooms with LCD facilities	Existing
Seminar halls with ICT facilities	Existing
Number of important equipments purchased (Greater than 1-0 lakh)	Existing

during the current year	
Laboratories	Newly Added
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Newly Added
Value of the equipment purchased during the year (rs. in lakhs)	Newly Added
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#### 4.2 – Library as a Learning Resource

##### 4.2.1 – Library is automated {Integrated Library Management System (ILMS)}

Name of the ILMS software	Nature of automation (fully or patially)	Version	Year of automation
BEES	Fully	x	2009

##### 4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
	Text Books	6366	1982123	Nil	Nil	6366
Reference Books	1623	725582	Nil	Nil	1623	725582
e-Books	Nil	Nil	2043	177030	2043	177030
Journals	60	105000	60	105000	120	210000
e-Journals	1125	1109031	850	213446	1975	1322477
Digital Database	30	Nil	3	Nil	33	Nil
CD & Video	998	Nil	Nil	Nil	998	Nil
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4.2.3 – E-content developed by teachers such as: e-PG- Pathshala, CEC (under e-PG- Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
NIL	NIL	NIL	Nil
No file uploaded.			

#### 4.3 – IT Infrastructure

##### 4.3.1 – Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MBPS/GBPS)	Others
Existing	538	8	0	0	1	1	6	100	0

Added	90	1	0	0	0	0	0	0	0
Total	628	9	0	0	1	1	6	100	0

4.3.2 – Bandwidth available of internet connection in the Institution (Leased line)

100 MBPS/ GBPS
----------------

4.3.3 – Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
NIL	<a href="#">NIL</a>

#### 4.4 – Maintenance of Campus Infrastructure

4.4.1 – Expenditure incurred on maintenance of physical facilities and academic support facilities, excluding salary component, during the year

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurred on maintenance of physical facilities
222.5	194.3	66	35.29

4.4.2 – Procedures and policies for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc. (maximum 500 words) (information to be available in institutional Website)

The college has established policies and procedures for maintaining and utilizing Physical, Academic and support facilities. The college has regular maintenance and periodic replenishment of essential facilities. The college policy is to have effective mechanism for the upkeep of the infrastructure and other facilities as to have optimum utilization of the facilities in order to have effective college functioning and upkeep of different facilities by holding regular meetings of various committees constituted for this purpose and using the grants received the college as per the requirements in the interest of students. Laboratory-Record of maintenance account is maintained by lab technicians and supervised by HODs of the concerned departments. Other measures to maintain laboratories are as follows: • The calibration, repairing and maintenance of sophisticated lab equipments are done by the technicians of related owner enterprises. • The laboratories are cleaned and maintained by the concerned departments and record of maintenance is maintained by lab technicians and supervised by HODs. • Laboratory rules and regulations are prepared and displayed for students in respective labs. Library-The requirement and list of books is taken from the concerned departments .The finalized list of required books is duly approved and signed by the Principal. • Every year in the beginning of session, students are motivated to register themselves in library to use INFLIBNET. • Suggestion box is installed inside the reading room to take users feedback. Their continuous feedback helps a lot in introducing new ideas regarding library enrichment. • To ensure return of books, 'no dues' from the library is mandatory for students before appearing in exam. • The proper account of visitors (students and staff) on daily basis is maintained. • Other issues such as weeding out of old titles, schedule of issue/ return of books etc are chalked out / resolved by the library committee. Sports: Regarding the maintenance of indoor Badminton/ Volley Ball court / TT Courts /Gym on the college sports in charge consult coaches. In their guidance accommodates are arranged. Computers- The college has adequate number of computers with IT facilities. The computer maintenance continuously monitoring by the system administrators and non-repairable systems are disposed off. Classrooms-The college has a maintenance committee for maintenance and upkeep of infrastructure. At the departmental level, HoDs submit their requirements to

the Principal regarding classroom furniture and other. The cleaning and the maintenance of the classrooms and laboratories are done by the non-teaching staff as per cleaning schedule which is monitored by head of the department. •

With the help of the full time sweepers cleanliness of class rooms is maintained. They are well equipped with modern tools of cleaning such as mops, gloves and vacuum cleaner. • A complaint register is maintained in office in which students as well as faculty can register their problems. There are technicians, masons, plumbers, carpenters deputed by management who ensure the maintenance of classrooms and related infrastructure. The Heads of Departments takes a periodical review of repairs and maintenance requirements of their respective Department

<https://www.raghuinstech.com/procedures-and-policies/>

## CRITERION V – STUDENT SUPPORT AND PROGRESSION

### 5.1 – Student Support

#### 5.1.1 – Scholarships and Financial Support

	Name/Title of the scheme	Number of students	Amount in Rupees
Financial Support from institution	NIL	0	0
Financial Support from Other Sources			
a) National	NIL	Nil	0
b) International	NIL	Nil	0
No file uploaded.			

#### 5.1.2 – Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implementation	Number of students enrolled	Agencies involved
Soft skill development	14/02/2019	104	Pega Training
Soft skill development	28/01/2019	280	Omega, Campus Recruitment Training
Soft skill development	21/01/2019	280	Omega, Campus Recruitment Training
Soft skill development	07/01/2019	280	Cognizant Specific Training by Six Phase(Chennai)
Soft skill development	07/01/2019	280	Omega, Campus Recruitment Training
Soft skill development	18/12/2018	280	CRT Training by Elephos (Hyderabad)
Soft skill development	10/12/2018	280	CRT Training by Elephos (Hyderabad)
Soft skill development	03/12/2018	280	CRT Training by Six Phase(Chennai)

Soft skill development	27/09/2018	280	Infosys specific Training by Talentio Hyderabad
Soft skill development	27/09/2018	280	Mock Interviews for Infosys Eligible students
<a href="#">View File</a>			

5.1.3 – Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passed in the comp. exam	Number of students placed
2019	competitive examinations career counseling	250	250	205	205
<a href="#">View File</a>					

5.1.4 – Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year

Total grievances received	Number of grievances redressed	Avg. number of days for grievance redressal
2	2	7

## 5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Name of organizations visited	Number of students participated	Number of students placed	Name of organizations visited	Number of students participated	Number of students placed
Open Text	20	4	TCS	50	27
<a href="#">View File</a>					

5.2.2 – Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of programme admitted to
2018	1	B.Tech	Civil Engineering	Gayatri Vidya Parishad, VSKP	M.Tech
2018	1	B.Tech	Computer Science Engineering	Eastern Kentucky University, USA	MS
2018	1	B.Tech	Electronic	Raghu	M.Tech

			and Communication Engineering	Institute of Technology, VSKP	
2018	1	B.Tech	MECHANICAL Engineering	Vignan, RIT, VSKP	M.Tech
2018	1	B.Tech	Electrical & Electronics Engineering	Raghu Institute of Technology, VSKP	M.Tech
2018	1	B.Tech	Civil Engineering	National Academy of Construction, Hyd.	M.Tech
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5.2.3 – Students qualifying in state/ national/ international level examinations during the year (eg:NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

Items	Number of students selected/ qualifying
GATE	1
Any Other	1
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5.2.4 – Sports and cultural activities / competitions organised at the institution level during the year

Activity	Level	Number of Participants
Competitions	College Level	250
Cultural Events	College Level	600
Sports-Cricket	JNTUK-Inter college at zone -A	32
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### 5.3 – Student Participation and Activities

5.3.1 – Number of awards/medals for outstanding performance in sports/cultural activities at national/international level (award for a team event should be counted as one)

Year	Name of the award/medal	National/ International	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2019	Inter University Representatives	National	1	Nil	173J5A0232	K.Srinadh
2018	Inter University Representatives	National	1	Nil	183J1D1501	A Manoj Kumar
2018	Inter University Representatives	National	1	Nil	153J1A0391	Abdul Salam Harshad
2018	Inter University	National	1	Nil	183J1A05B3	M Nirosha

	Representatives					
2019	Won 1st Place	National	1	1	153JA0401	M Narendra Eswar Kumar
<a href="#">View File</a>						

5.3.2 – Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

Student council activity The process of election for framing student's council at collegial level started in year 2007-2008. The institution has a well functional student council which takes care for augmentation of various infrastructural, academic and administrative activities for student benefit and welfare. The council organized a successful oath taking ceremony for various elected student representative of different committees. The student's council along with the college administration has actively solved many problems of the student's. The clubs both technical and non technical were formed by student council with help of the staff for smooth running of the tasks. The national fests and other events were organized in the institution by the student council and the college management in which various cultural activities were organized and the students were selected to represent the college at university level. The council actively participated in organizing and conducting programs like tree plantation, cleaning of college premises, swach bharat abhiyan, blood donation camp, NSS and NCC etc. In the blood donation camp organize by student council, the staff and students donated blood for which they were given certificate. The student council have also successfully conducted seminars, workshops and awareness camps for the students. The students council also organize annual sports with help of sports committee in which many team and individual events were conducted and the winner were given mementos and trophies. Thus, the college student council has shown an active participation along with the college management for enhancing the name and fame of the institution. Contribution of the Student Council in Academic Administration 1. Coordination in day to day academic activities at their level 2. Coordination in communicating the information between students and Teaching faculty 3. Coordination in conducting special events like student clubs etc. 4. Coordination in organizing Cultural events and Technical fests 5. Coordination in organizing Sports Games for the students 6. Coordination in arranging Industrial Visits for the students 7. Coordination in inviting the external guest speakers and organizing the Seminars Workshops etc RIT provides necessary support to the council members in organizing coordinating the events. It encourages the students to develop their leadership skills through these activities. Student members in this council can become real heroes and competent managers in future by learning all these skills

#### 5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

No

The Alumni association acts as a bridge between the nostalgic past and the hopeful future. The association envisages a handful of initiatives that bring together our alumni and students under different mentoring schemes. The successfully placed alumni act as mentors and a connecting link for the professional aspirations of our students. The 'Meet the Alumni series' that stretches over the entire year is one of our long standing and signature programmes. Batch wise reunions, facilitation of old teachers, providing financial assistance and scholarships to the students etc. are a few of the

activities that our alumni association is involved in In order to maintain the good will and to establish rapport amongst the peers, faculty and their juniors, Raghu Institute of Technology has formally inaugurated the Alumni Association in our college. The following alumni are nominated as Board of Studies members for each department Ms.A.Padmapriya, System Administrator, INFOSYS, Hyderabad - ECE - Alumni Mr.M.Saikiran, System Administrator, Broadridge, Hyderabad- CSE - Alumni Mr.V.Vinaykanth, System Administrator, IBM, Bengaluru - Mech - Alumni Mr.Y.Chandrasekar, Assistant General Manager, Coal India Ltd., Talcher, Orissa.-EEE-Alumni Mr.K. Achuth Senior System Administrator, TCS, Hyderabad- Civil - Alumni Activities and support from the Alumni Association Its activities and major contributions for institutional, academic and infrastructure development are as follows: • Mock interviews are conducted by Alumni • Placements are arranged through them • Special lectures by alumni • Alumni association meetings are held every year and the alumnus are invited for interaction. • Curriculum Development Many of them take part and help in the grooming of students by sharing their experiences and technical knowledge in the form of guest lectures and help in placement trainings

5.4.2 – No. of registered Alumni:

0

5.4.3 – Alumni contribution during the year (in Rupees) :

0

5.4.4 – Meetings/activities organized by Alumni Association :

1. Alumni actively participate in BoS meetings for curriculum development. 2. Deliver guest lectures 3. Support for placement internships 4. Support student projects 5. Students mentoring 6. Alumni chapter meet at regular intervals at different locations.

## CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT

### 6.1 – Institutional Vision and Leadership

6.1.1 – Mention two practices of decentralization and participative management during the last year (maximum 500 words)

Decentralization management: The Institute supports a trend of decentralized governance system with proper well defined inter-relationships. • There are three levels of administrative structure under which all the activities of the institute are carried out. 1) Society level - The management of the institute is directed by Governing Body, whose members, are appointed in accordance with the guidelines provided by the AICTE. 2) Institute level - All the main decisions related to the institute are taken by the Principal in consultations with the Head of departments. Principal is the academic and administrative head of the Institute and the Member of the Governing Body. Some financial power is given to principal for the development of the institution. 3) Department level - The Department Heads are responsible for to look day-to-day administration of the department and report to the Principal. In addition, any institute staff member can give suggestions and idea for improvement. Students also participate through different formal and informal feedback mechanisms. Suggestion box is kept in every department for suggestions from students. Management and Trustees are approachable and accept all suggestions. Participative management The institute always promotes the culture of participative management by involving staff and Students in various activities. All decisions of the institution are governed by management. The students and faculties are allowed expressing themselves for any suggestions to improve the excellence in any aspect of the Institute. 1) Strategic Level: The Principal, HODs, dean academics and staff members are involved in defining the policies and procedures, and



rules/regulations related to admission, placement, discipline, grievance, counselling, training development, and library services etc. 2) Functional Level: At functional level the faculty members participate in sharing the knowledge by discussing on latest trends/technology during faculty meeting.

Some Staff members are involved in preparation of annual budget of the department and institute. Operational level: The Principal of the institution is a member of the governing body. The governing body gives suggestions and monitors the procurement, introduction of new programs and welfare activities. All the staff members actively participate in implementing the policies, procedures, and framework designed by the management in order to maintain and achieve the quality standards and Achieve vision and mission of the institution. Office staff gets involved in executing day to day support services for the management, Principal, students, faculty members and for the smooth running of the institution.

6.1.2 – Does the institution have a Management Information System (MIS)?

Yes

## 6.2 – Strategy Development and Deployment

6.2.1 – Quality improvement strategies adopted by the institution for each of the following (with in 100 words each):

Strategy Type	Details
Admission of Students	? Admission of Students This institute is offering 5 UG and 4 PG professional courses. As per AP State Council of Higher Education (APSCHE) norms 70 students of UG and PG programmes are admitted through centralized admissions organized by the government (EAMCET for UG and GATE/PGECET for M.Tech.). The remaining 30 seats (B Category i.e. Management/NRI) are filled by the Institute duly following the guidelines. Notification is given by the institute in the popular News Papers calling for applications for B Category seats. Application form for B Category seats is made available in college website and can be downloaded. Merit list is prepared from the applications received and placed in college website and notice boards.
Industry Interaction / Collaboration	? Industry Interaction / Collaboration • Industry interaction has provided opportunity for the students to undergo in-plant training, industrial visit, etc. • Guest lectures by experts from industry.
Human Resource Management	• Our institution is very much concerned of its human resources. Employees are given highest importance and their desires are recognized well. • The recruitment procedures, service rules and promotion policies are made transparent and employees are benefitted with CL, ML and EPF. •

Employee's salary will be credited in the bank account directly and bank ATM facility is provided inside the campus.

- Non-Teaching staff have ESI facility for their family members.
- The institution encourages the employees to their promotional activities in the form of higher education, presenting research papers in National/International conferences with financial assistance.

Library, ICT and Physical Infrastructure / Instrumentation

? Library, ICT and Physical Infrastructure / Instrumentation

- Student records/ attendance/ internal marks/ fee payments are fully computerized.
- Purchase / salary / leave records of faculty fully computerized.
- Wi-Fi enabled campus.
- Maintenance of computational systems by internal systems administration team.
- Regular updating of Library facilities and Physical infrastructure
- Availability of text books, reference books and journals in the library is ensured for the effective course delivery.
- In central library, there are ample volume of books, magazines and journals for easy access of reference books for faculties and research scholars.

Curriculum Development

? Curriculum Development:

- Our institution is affiliated to JNTUK, Kakinada, it abides by the changes in curriculum as prescribed by the university.
- As per autonomous status acquired in September 2018, our faculties are members of Board of studies and curriculum development.

Teaching and Learning

? Teaching and Learning:

- To provide adequate, good, airy academic and supporting spaces for effective teaching and learning.
- To have conference/seminar halls, meeting rooms, faculty cabins, library and digital library for effective teaching and learning.
- To use Information Communication Technology for all academic processes and procedures including Teaching Learning.
- To provide round the clock access to internet and e-services to students and faculty members.
- To develop class rooms, AV classrooms, incubation centres and central library and contents to meet the dynamic and ever-changing requirements of teaching and learning.
- To develop laboratories not

merely as per JNTUK curriculum requirement but also beyond the curriculum to meet the research needs of faculty and students. • To promote learning materials like AV classes, Write Ups, PPTs, Multimedia Content, Working Models, Virtual labs for enhancing the effectiveness of teaching learning process. • To provide amenities like drinking water, canteen, transport, playgrounds, dispensary etc.

Examination and Evaluation

? Examination and Evaluation • The college conducts two internal assessment tests during the semester through a centralised examination cell. • Each subject handing staff gives at least three assignments per semester. • A tutorial plan is also prepared and followed for enhanced learning of the subjects. • Two internal assessment tests were conducted per semester for 30 marks. • End semester examinations are conducted as per JNTUK, Kakinada, the question papers are set for 3 hours duration, and 70marks. • For students admitted after the institute's autonomous status, ? Two internal assessment tests were conducted per semester for 40 marks. ? End semester examinations are conducted for 3 hours duration and 60 marks.

Research and Development

? Research and Development • All the departments of the Institute have well equipped laboratories with adequate infrastructural facilities. • The institute has both wired Wi-Fi internet facilities for the fast access of online resources. • The faculty members are encouraged to publish their research contributions in various National International Journals and conferences. • The institute encourages the research scholars by providing on-duty leave to succeed in their research. • The institute motivates the faculty members to attend research oriented seminars/workshops/conferences, etc., by providing special on-duty leave. • Encouraging faculty members to pursue Ph.D. programs in reputed universities. • The institute supports the researchers by providing high end computing facility with necessary software and with modern equipment's. • The institute central library facilitates research oriented books, journals e-journals for research

reference. • Up grading of M.Tech Labs in the department of ECE and EEE

6.2.2 – Implementation of e-governance in areas of operations:

E-governance area	Details
<p>Planning and Development</p>	<p>? Planning and Development: RIT actively uses online source of operations. In Placement, PB Works and High rise are used astwo sources of controlling and updating the campus placement activities. For salary and leave, Paybooks are used to prepare salary and upload salary slips. It keeps the track of all personnel details of employees. Institute has its own LAN connection to communicate it with internal stakeholders. Institute maintains its website <a href="https://www.raghuinstech.com">https://www.raghuinstech.com</a> to communicate its philosophy and updates to external stakeholders.</p>
<p>Administration</p>	<p>? Administration: The administrative activities involve maintenance of infrastructure, upkeep of the flora and fauna of the estate and administrative issues. Internal admin team reviews and audit all the functions every quarter. The team further suggest the changes and implement.</p>
<p>Finance and Accounts</p>	<p>? Finance and Accounts: The Institute has already taken various steps for implementation of E-Governance in Finance Accounts: • On line salary payment. • On line deposit of PF/ESI • On line deposit of TDS • On line payment of LTA and other reimbursements to staff • On line leaves approvals. • On line pay slips and leave records of staff.</p>
<p>Student Admission and Support</p>	<p>? Student Admission and Support: Raghu Institute of Technology provide support to students from entry to exit in various forms: • Scholarships - Merit cum Mean • Tie up with nationalised banks like SBI, PNB, UBI, and IOC for Loan facilities for fee payment. • Welfare Activities - in campus doctor, state of the art hostel, library. • Club - societies like NGO, Area Specific, Blogging, Photography, Literary, and Cultural for all-round development of students. • Sports facilities in hostel. • Career Counseling</p>
<p>Examination</p>	<p>? Examination: The JNTU - Kakinada sends the soft copy of the question</p>

paper before an hour of the exam and the examination department of the college gets its Xerox as per the required number of the students appearing for that exam. This system is very safe and secure. Similarly the results are displayed on the university website and students get the online copy of it.

### 6.3 – Faculty Empowerment Strategies

6.3.1 – Teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
2018	Dr P VIJAYA KUAMR	"Quality Enhancement in Curriculum Design and Development for Higher Education Institutions	IQAC	1000
2018	Dr S SRINIVASAN	"Quality Enhancement in Curriculum Design and Development for Higher Education Institutions	IQAC	1000
2019	P. Kusuma Vani	Recent Advances in Electronics Communication Engineering (RAECE)	IEEE	5000
2018	Sonali Dash	Smart Computing and Informatics (SCI)	IEEE	9000
2018	P.V.K. Durga Prasad	Smart Computing and Informatics (SCI)	IEEE	9000
2018	A.V.Satya Swathi	Smart Computing and Informatics (SCI)	IEEE	9000
2018	M. Pavan Kumar	Smart Computing and Informatics (SCI)	IEEE	9000

2018	Dr. V.V.S.S.S Chakravarthy	Computing Vision Machine Learning	IEEE	5000
2018	B.S.S.V Ramesh Babu	Smart Computing and Informatics (SCI)	IEEE	9000
2018	Dr. P.S.R Chowdary	INDIA-2018	IEEE	25000
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6.3.2 – Number of professional development / administrative training programmes organized by the Colleges for teaching and non teaching staff during the year

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
2018	6 days faculty development program on data science big data analytics	NA	04/06/2018	09/06/2018	40	Nil
2018	Seven Day FDP Programme on "Real Time Embedded Systems and IoT and its applications"	NA	02/08/2018	08/08/2018	30	3
2018	Applications Of Finite Element Analysis Using Ansys	NA	18/06/2018	22/06/2018	20	2
2018	Recent Trends In Steel Manufacturing	NA	09/11/2018	09/11/2018	20	Nil
2019	Advances In Manufacturing Technologies	NA	11/02/2019	11/02/2019	24	Nil

2019	Two day Workshop on TOTAL STATION	NA	26/01/2019	27/01/2019	8	2
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6.3.3 – No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
Programming Data Structures Algorithms Using Python	1	06/08/2018	29/09/2018	56
Programming In Java	3	28/01/2019	19/04/2019	84
Joy of Computing Using Python	3	30/07/2018	19/10/2018	84
Discrete Mathematics	1	30/07/2018	19/10/2018	84
Discrete Structures	1	28/01/2019	19/04/2019	84
Introduction To Automata ,Languages Computation	2	28/01/2019	19/04/2019	84
Programming In C	1	06/08/2018	28/09/2018	56
Programming In Co	1	27/08/2018	19/10/2018	56
Problem Solving Through Programming In C	5	28/01/2019	19/04/2019	84
Data Mining	1	25/02/2019	19/04/2019	56
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6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
139	139	30	30

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
<ul style="list-style-type: none"> <li>The management contributes an amount equal to the employee share for EPF with</li> </ul>	<ul style="list-style-type: none"> <li>EPF</li> <li>Maternity leave</li> <li>Transport facility</li> </ul>	<ul style="list-style-type: none"> <li>Fees concession for the students having good academic background</li> <li>Scholarship provided by</li> </ul>

Pension scheme. • EPF paid to all employees as per PF act. • ESI Scheme - Employees drawing less than Rs.15000/- PM. They are covered under ESI and can avail this benefit directly with ESI Clinic/Hospitals • Maternity Leave • Group Insurance for all staff members.

state government. • Skill development (Spoken English, Computer Literacy, etc.,) Practical Knowledge Training.

## 6.4 – Financial Management and Resource Mobilization

6.4.1 – Institution conducts internal and external financial audits regularly (with in 100 words each)

At the end of each financial year the institution undertakes internal audit of the college accounts, which consists of various fund heads. The preparation of the internal audit of 2018-19 entrusted to a reputed Chartered Accountant firm, has been completed. After the internal audit report is ready, it will be placed before the Governing Body (GB) meeting. All Audit Reports of the college are uploaded in the institutional website

6.4.2 – Funds / Grants received from management, non-government bodies, individuals, philanthropies during the year(not covered in Criterion III)

Name of the non government funding agencies /individuals	Funds/ Grnats received in Rs.	Purpose
College Management	18000	Workshop on IoT Boot camp-2018
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6.4.3 – Total corpus fund generated

0

## 6.5 – Internal Quality Assurance System

6.5.1 – Whether Academic and Administrative Audit (AAA) has been done?

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	AICTE	Yes	IQAC
Administrative	Nil	Nil	Yes	Management

6.5.2 – Activities and support from the Parent – Teacher Association (at least three)

• Providing valuable suggestion for development of the institution. • Pointing out the weaknesses of the college related to Departments and suggesting rectification. • Communicating views which the students feel shy to communicate directly to the teachers about the college and the department.

6.5.3 – Development programmes for support staff (at least three)

• Institution provides training to staff members for effective implementation of quality assurance procedure. • Regular Staff meetings to address their need and upgrade their skills are conducted. • The supporting staff are encouraged to attend technical development seminars conducted by external agencies.

6.5.4 – Post Accreditation initiative(s) (mention at least three)



• Energy Conservation • Use of Renewable Energy • Water Harvesting • Efforts for Carbon neutrality • Plantation • 1000 litres capacity Reverse Osmosis water plant for drinking water. • Solar power generation system in each department block

6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b) Participation in NIRF	Yes
c) ISO certification	Nil
d) NBA or any other quality audit	Yes

6.5.6 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2019	Science Day	28/02/2019	28/02/2019	28/02/2019	421
2019	Guest Lecture on Advances In Manufacturing Technologies	11/02/2019	11/02/2019	12/02/2019	245
2018	SAE INDIA Collegiate Club inauguration	20/09/2018	20/09/2018	20/09/2018	285
2019	IV/IV IV B.Tech. Students Industrial Visit AT "Center of Excellence for Maritime and Shipbuilding" At Visakhapatnam	23/02/2019	23/02/2019	26/02/2019	110
2019	II/IV B.Tech. Students Industrial Visit At "Hastalloy India Ltd" Near Anakapalli.	19/02/2019	19/02/2019	19/02/2019	125
2018	Machine learning applications to data mining	29/12/2018	29/12/2018	29/12/2018	40
2018	Adaptive and	04/08/2018	04/08/2018	04/08/2018	30



	advantages and disadvantages	and contribute to local community					
2018	4	4	01/08/2018	15	SWACCHTA PAKHWADA	Cleaning, plantation , Awareness in diseases, conducting games to school children , fans and dryfruits distributed to orphanage	106
2018	2	2	14/10/2019	2	Cyclone relief donation in Srikakulam	Donation of daily needs	106
2019	2	2	03/01/2019	10	Special camp Conducted in Dhakam arri village	Creating awareness regarding cleaning ,diseases by conducting rallies and door to door campaign , Plantation, creating awareness regarding child marriages, abuses in the school children, conducting games and prize distribution	106
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Title	Date of publication	Follow up(max 100 words)
NIL	Nil	Nil

#### 7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Importance of golden hour during emergency y Dr. Satish, Queens NRI Hospital, Vizaaagaram.	03/02/2019	03/02/2019	330
Life Transformational Talk by Venugopal Laksmipuram, International Speaker.	22/02/2019	22/02/2019	345
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#### 7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

<ul style="list-style-type: none"> <li>• Installed solar panels on each building of the Institute to fulfill power requirements</li> <li>• Use solar water heaters in the hostel campus</li> <li>• Prepared vermicomposting from the tree foliage</li> <li>• Planted trees in the college campus</li> <li>• Replaced additional tube lights with LED lamps</li> </ul>
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### 7.2 – Best Practices

#### 7.2.1 – Describe at least two institutional best practices

<p>1. Mentoring: Each faculty is allotted number of students from the first month of his/her admission at Raghu Institute of Technology (faculty mentors are allotted on the basis of the student profile and the data collected on the basis of one-to-one interactions with the students by a panel of faculty members immediately after the orientation programme) Faculty mentors act as friend-philosopher-guides to students. Each faculty is allotted 20 students from a particular class. Mentoring follows a clearly defined process at RIT, laid down in detail in the Mentoring Log Book. 2. Campus Recruitment Training: The training starts from 2nd year 1st semester onwards with the basics upto 4th year 1st semester. The Institute has well experienced trainers who plan and execute the training programme. The number of students selected in the present and past few years stands as proof of the institute's goal of making students industry ready.</p>
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Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link
<a href="https://www.raghuinstech.com/best-practices/">https://www.raghuinstech.com/best-practices/</a>

### 7.3 – Institutional Distinctiveness

#### 7.3.1 – Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust in not more than 500 words

<p>Sri Raghu Kalidindi, a renowned academician is of the conviction that education is not just a phase in ones life but a life-long process. He believes education holds the key to societys progress and prosperity. It is precisely this conviction which prompted him to passionately pursue, promote education par excellence and establish this institution. Institute initiated job driven courses and increased industry engagement with students on the basis of NAAC</p>
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recommendation. For the same, Raghu Institute of Technology collaborated with IEEE, to enhance student engagement with Industry experts. This collaboration helps students to groom and further prepare them for their professional journey. Skill enhancement capsule involves industry experts visiting the campus, interacting with students, guiding mentoring them to develop their skills. The activities include case study and random exercises in public speaking. The objective is to nurture and develop an industry ready candidate. The class was divided into various groups who were assigned a pre-determined topic for presentation. A faculty in-charge and Head of the Department jointly monitored the activity to provide constructive feedback and further help the student to build his/her confidence. In addition there are many clubs to encourage students in co-circular and extra circular activities.

Provide the weblink of the institution

<https://www.raghuinstech.com/institutional-distinctiveness/>

### **8.Future Plans of Actions for Next Academic Year**

Future plans of the institute are primarily aiming at scaling the intellectual environment of the institute. This includes aiming at inducting a better quality of students, faculty and intellectual output. Raghu Institute of Technology possesses certain faculty resources who are dedicated to the field of research. The institution strongly believes that academic research can strongly contribute to engineering problem solving and has a well-developed research plan for the upcoming year. The faculty is involved in actively performing research in the emerging areas of, Block Chain, Internet of Things, amongst several other contemporary areas. The institution plans to host a set of international conferences in the upcoming year. The objective of these research based forums will be to serve as inter-disciplinary and multi-disciplinary avenues for exchange of ideas, best research practices and research outcomes, for the benefit of the industry persons, academicians and researchers at large. Research workshops and special sessions are also being organised with the intention of familiarising individuals with the latest developments pertaining to research methods, technological evolution and research paper writing, thereby aiming at increasing the intellectual output of the institution. To address the requirement of better quality of students focus will be on Coaching institutes, Merit Scholarship for meritorious students. During the recent past the faculty recruitment process has focused on inducting faculty with PhDs and good research background. We plan to improve the ratio of PhD faculty members. We are applying to all possible funding and grant schemes from government and non-government organizations. We have submitted the proposal for MODROBS and Short term training program for faculty to AICTE.