



Yearly Status Report - 2017-2018

Part A	
Data of the Institution	
1. Name of the Institution	RNS INSTITUTE OF TECHNOLOGY
Name of the head of the Institution	M K Venkatesha
Designation	Principal
Does the Institution function from own campus	Yes
Phone no/Alternate Phone no.	08028611880
Mobile no.	9880867337
Registered Email	principal@rnsit.ac.in
Alternate Email	mkvenkatesha@gmail.com
Address	RNSIT, Vishnuvardhan Road, RR Nagar Post, Channasandra
City/Town	Bangalore
State/UT	Karnataka
Pincode	560098
2. Institutional Status	
Affiliated / Constituent	Affiliated
Type of Institution	Co-education
Location	Urban
Financial Status	private
Name of the IQAC co-ordinator/Director	G T Raju
Phone no/Alternate Phone no.	08028611881
Mobile no.	9448308345

Registered Email	gtraju1990@yahoo.com				
Alternate Email	gtraju.cse@rnsit.ac.in				
3. Website Address					
Web-link of the AQAR: (Previous Academic Year)	http://rnsit.ac.in				
4. Whether Academic Calendar prepared during the year	Yes				
if yes,whether it is uploaded in the institutional website: Weblink :	https://rnsit.ac.in/rnsit_old/Academic%20Calendar.rar				
5. Accrediation Details					
Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
2	A	3.17	2017	30-Oct-2017	29-Oct-2022
6. Date of Establishment of IQAC				22-Jul-2016	
7. Internal Quality Assurance System					
Quality initiatives by IQAC during the year for promoting quality culture					
Item /Title of the quality initiative by IQAC			Date & Duration	Number of participants/ beneficiaries	
NBA			02-Nov-2018 3	190	
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	
BASAVA KUMAR K G	Research Project	NRB	2017 1	0.6	
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				View File	
11. Whether IQAC received funding from any of the funding agency to support its activities during the year?				No	
12. Significant contributions made by IQAC during the current year(maximum five bullets)					

1. Skill set enhancement internships in every department 2. Standardized Academic Audit proforma 3. Setting up of Center of Excellence (CoE) in every department

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 apply for NBA accreditation	NBA accreditation was completed successfully

14. Whether AQAR was placed before statutory body ?

Yes

Name of Statutory Body	Meeting Date
VTU	15-May-2018

15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?

Yes

Date of Visit

02-Nov-2018

16. Whether institutional data submitted to AISHE:

Yes

Year of Submission

2019

Date of Submission

15-Feb-2018

17. Does the Institution have Management Information System ?

Yes

If yes, give a brief description and a list of modules currently operational (maximum 500 words)

ADSTOCK Software is Library Automation Module. This automated package has Issue Media, Return Media, Check Reservation and Renewal Media. In Issue Media, the functions are Entering Accession No or Card Number to view all the Media types wherein to Selected Member, the Accession Number can be added to issue the book, etc. Similarly other media are used. ICT tool deployed in library is OPAC which provides Media Detail Report, Missed Media Report, Advanced OPAC Search, Reference Media Report, Subject Wise Report, Media Usage Analysis, Bar Code Database, Statistics of News Paper, etc. Advanced OPAC Search for Library includes Search Facilities such as OPAC Search For Book Enter Access No or Title, Author, Publisher, Subject, KeyWord. Similarly OPAC Search For Book CDs, OPAC Search For CDs, OPAC Search For Magazine or Journal requires Entering Title, Subject, KeyWord, Volume No, Issue No, Month, Year and Click Search, OPAC Search For Project Report requires Title, Author, College, Subject, KeyWord, course OPAC Search For Question Paper requires Course, Year, Subject, subject code, scheme, month, year. A report Will be displayed Based on your Search with all details. Finance and Auditing module and Admission Module ESIS is an Accounting Software, which mainly handles students accounts. This software is developed and maintained by Genesis Technologies. This software has the following functionalities. 1. Student database management which Stores student data like, name, date of birth, branch, year, father and mother details such as name, occupation, income, etc., student category, student previous studied college, student

address and contact details etc. 2. Fee Management which Stores students fee paid details like receipt no., receipt date, amount, payment details whether NEFT or Cheque for all years. 3. Provides option to enter all the payment details, like examination remuneration paid to examiners, purchases done for college, scholarship refunds etc. 4. Accounting Management which stores Details of all Payments and Receipts, Trial Balance, Balance Sheet, Accounting ledgers, Bank account, etc. 5. Reports which Provides reports for Management purpose like total fee collected, total fee dues, student reports like concession, category wise reports, year wise, branch wise student reports etc. OTAS a Student Performance Analysis Module The feedback on facilities is collected from every student every semester as a part of their online OTAS an Online Teachers Appraisal System. The system of feedback collection is online and automated with the following 10 quantified parameters. 1. Effective Communication and Clarity in Explanation 2. Preparedness and Depth of Subject Knowledge Relevant Practical Applications wherever applicable 3. Time Management effective use of the class hour and timely coverage of syllabus 4. Enforcement of Discipline in the Class 5. Invites Questions and Encourage Thinking Class Motivation towards Enhanced Learning 6. Provide discussions on Problems, Programs, Assignments, quiz, case studies, situation analysis, Exam questions and Illustrations 7. Availability, Accessibility and Approachability for clarifications outside the Class 8. Study materials such as Lecture notes, handouts, ppts, etc., 9. Coverage of Syllabus 10. Evaluation of Tests, Assignments with suggestions for Improvement

Part B

CRITERION I - CURRICULAR ASPECTS

1.1 - Curriculum Planning and Implementation

1.1.1 - Institution has the mechanism for well planned curriculum delivery and documentation. Explain in 500 words

Mechanism for curriculum delivery and documentation. RNSIT is a VTU affiliated college wherein the University's prescribed scheme and syllabus is to be implemented. At RNSIT, the defined VTU syllabus for a theory and lab course across all semesters is executed in toto (100% syllabus coverage is done). Apart from syllabus coverage, in every subject some portions beyond the prescribed syllabus is covered. Action plan / Mechanism developed for effective implementation of the curriculum: Formation of administrative groups consisting of HoDs, Subject Leads, Class Teachers, Time Table Officers, etc. Subject Allotment: At the end of each semester. allotted to the teachers based on their previous experience, specialization, the individual interest shown, etc. Subject Preparation and Scrutiny: faculty to prepare the lesson plan, notes, presentations, etc. of the allotted subjects for the entire syllabus during the vacation. The academic material prepared by the staff is scrutinized/ reviewed by HoD/senior faculty and suitable feedback/ suggestions are provided. The prepared academic material is made available to the students. Lab Requirement: The labs are allotted with one Lab In-Charge and groups are made for each lab who go through the syllabus, takes stock of new requirements, replacements needed, servicing issues, etc. and submits a report to HoD for concerned action plan (calling quotations, purchase, etc.) during vacation. Also, the Lab In-Charge prepares / updates the lab manuals along with other group members. Preparation of RNSIT's Calendar of events in line with that of VTU calendar of events. Coverage of Syllabus: Follow-up by the Principal of the subject allotment carried out at the Department level. The entire syllabus is supposed to be covered by each staff with proportionate spreading out for the internals. IA Question Papers: The question papers are set to meet the Bloom's Levels. These question papers are scrutinized for the coverage of syllabus, break up of marks, difficulty level, etc. by the HoD, Principal and Director. Periodic feedback on the lesson plan, coverage of syllabus, Internal Assessment (IA) test conduction, entry of IA marks, dispatch of progress reports to parents, etc. Corrective measures are initiated on the basis of feedback received, such as arranging tutorial classes for particular subjects, extra classes for faster coverage and in cases where sufficient portion is covered rearrangement of the time table, etc.

Academic Audit: To assess the effectiveness of Curricular implementation plan, the IQAC of RNSIT reviews the academic preparation, orientation of faculty towards the subject, understanding of the curriculum requirements, teaching practices adopted by the faculty for each subject, previous appraisal and percentage results obtained. Based on this, specific aspects of the action plan to be contemplated are revisited. Analysis of final exam results and initiating suitable actions for continuous improvement.

1.1.2 - Certificate/ Diploma Courses introduced during the academic year

Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employability/entrepreneurship	Skill Development
No data entered !!!					

1.2 - Academic Flexibility

1.2.1 - New programmes/courses introduced during the academic year

Programme/Course	Dates of Introduction
No data entered !!!	

1.2.2 - Programmes in which Choice Based Credit System (CBCS)/Elective course system implemented at the affiliated Colleges (if applicable) during the academic year.

Name of programmes adopting CBCS	Date of implementation of CBCS/Elective Course System
BE	05/09/2018

1.2.3 - Students enrolled in Certificate/ Diploma Courses introduced during the year

Certificate	Diploma Course
No data entered !!!	

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
LabVIEW Graphical Programming and Data Acquisition and sensor Interface		90
DSP for EEE students		50

1.3.2 - Field Projects / Internships under taken during the year

Project/Programme Title	No. of students enrolled for Field Projects / Internships
BE	650
Mtech	39
MBA	178
MCA	123

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 Obtained The Principal initiates dialogue and discussion with various stakeholders through different committees, Clubs/Associations, Alumni and Parents and conveys the management about the feedback, views and sentiments of the stakeholders for

effective decision-making. In each year, at the end of each semester and in the beginning, faculty meeting is conducted and feedback is obtained for streamlining and improving academic activities. Students Feedback Class representatives provide the feedback to HoDs through their class teacher on facilities, infrastructure maintenance, course material, conduction of events, etc. Orientation programmes held by the departments provide a forum for feedback collection. At the end of the semester, for each course, students on-line feedback through OTAS to ensure free and fair response is taken in a structured format consisting of 10 major parameters pertaining to teaching-learning process. During the middle of the semester, feedback is obtained for each course from class teachers, coordinators, HoDs to bring in any mid-course correction needed. The responses are subject to Data Processing and the results are analyzed by the HoDs, Principal, and the Director. Feedback is communicated to the faculty members concerned wherever necessary, for any remedial action and improvement. The students feedback is a key parameter and due weightage is given to appraisal of faculty. Opportunities are provided to faculty members to improve their methodology, skills, temperament/ attitude and acceptance by student community. Faculty members with appraisal lesser than 60 percent have been asked to improve or required to look for better prospectus elsewhere. Students feedback on value added programmes at the end of the programme. Based on their response changes necessary in organizing such events are suitably planned. Alumni and Parents Feedback Online feedback through Google forms Departments have created group e-mail ids for regular interaction with and Program Outcome surveys from the alumni. This helps in the indirect assessment of the course outcomes, frame new syllabus inline with industry requirements, etc. The regular parents and alumni meet arranged by respective departments helps in feedback collection. Employers feedback The feedback is obtained through the telephonic conversation, filled-in survey forms and personal discussion with the HR Personnel and other senior officials of the organization in which students are placed. This feedback is used to frame training skill development courses for improving the placement performance of students. Feedbacks used for significant changes The feedback from the students helps to understand the strengths and weakness if any in the teaching-learning process and to take remedial measures like arranging guest lectures, special classes and industrial visits. The feedback from the alumni, parents and employers helps to improve the quality of education and skill impartation and improve the competency level of the students/faculty members. Community feedback helps to improve and expand the services rendered to the neighborhood community. The information gathered is discussed in Governing Council Meetings for continuous improvements.

CRITERION II - TEACHING- LEARNING AND EVALUATION

2.1 - Student Enrolment and Profile

2.1.1 - Demand Ratio during the year

Name of the Programme	Number of seats available	Number of Application received	Students Enrolled
BE	780	819	671
Mtech	48	40	24
MBA	180	190	165
MCA	120	100	64

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
2017	3169	742	216	28	18

No data entered !!!

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
216	175	5	68	2	5

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

Counselling and mentoring services with academic adviser is provided to all students across all departments by faculty members. The highlights of this process at RNSIT are given below. Each faculty is assigned a group of students. The performance is monitored regularly and periodic counselling is given to those who do not fare well. If sufficient progress in terms of

attendance and academic performance is not observed, reports are also sent to the HoD for further counselling. Apart from academic performance, behavioural traits such as Late coming, Dress Code, Regularity and other discipline related issues are tracked by the faculty counsellor. Mentors offer advice and guidance in academic matters. They assist the mentee in finding college resources such as joining technical associations, participating in extra-curricular activities, preparing for paper presentations, mini projects, seminars which involves identification of topic to materials required, notes for certain subjects, etc. They assist students in choosing course work like change of branch, electives, internship, external project, etc. that meets their needs and interests without affecting their performance in the main subject programs. The mentoring services routinely provided at RNSIT can be categorized under three areas i. University, College and Departmental Level Mentoring Services. Number of students benefited. 100 percent. Explaining the working dynamics of both formal and informal systems within the institution like awareness through orientation programmes. This involves basics such as filling out registration forms both online for VTU and hard copy at Department level, getting permission for missing classes due to varied needs, etc. Mentors also schedule introduction or meetings with faculty and key administrators for specific requirements such as scholarship issues, hostel issues, lab issues, etc. Mentors also inform the first semester students of perceptions about departmental culture such as conducting mini project expos, department fests, department newsletters, etc. and its evolution. ii. Personal Issue Mentoring Services. Number of students benefited. 20 to 30 percent Serving as an advocate for the student, especially in resolving any difficulties or conflicts that may arise. Providing an empathic ear to professional and/or personal problems and being ready with referrals to professional counselors, if needed. Discussing issues related to students academic progress. Suggesting alternate notes, workshops, etc., that can expand students learning experience. iii. career Development Mentoring Services. Number of students benefited. 50 to 60 percent Provided by the allotted mentor or HoD or Senior Professors or Placement Officer or Principal or Director Helping students articulate and develop true career goals. These goals may be in flux as new opportunities or knowledge is revealed in classes. Providing feedback to the student regarding her or his self assessment, long-range career goals as well as immediate needs and responsibilities. Explaining the necessity for attending placement training classes and the advantages of taking up professional tests such as Cocubes, AMCAT, etc. Recommending that the student attend seminars, emphasizing good writing skills, etc. Advising the student on which jobs might be most advantageous to apply for, how to properly apply for jobs, and proper behavior during interviews.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
3911	216	18

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
13	13	0	11	37

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
2017	M K Venkatesha	Principal	VTU Award
2018	Chetana Hegde	Associate Professor	NPTEL Topper Award
2018	Ramasatish K V	Assistant Professor	Inspire Faculty Partnership Level 2018 certificate
2018	Nagesh B S	Assistant Professor	Inspire Faculty Partnership Level 2018 certificate
2018	Dr. Rajani Narayan	Associate Professor	Nammura Saadakar recognition by Pragati TV Channel

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
BE	CS, IS, EC, EEE, EIE, ME, CV	2nd Sem	26/05/2018	11/08/2018
BE	CSE, ISE, ECE, EEE, EIE, ME, Civil Engg	4th Sem	11/07/2018	11/08/2018
BE	CSE, ISE, ECE, EEE, EIE, ME, Civil Engg	6th Sem	06/07/2018	06/08/2018
BE	CSE, ISE, ECE, EEE, EIE, ME, Civil Engg	8th Sem	15/06/2018	09/07/2018

Mtech	CSE, VLSI	1,2	26/05/2018	16/08/2018
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2.5.2 - Reforms initiated on Continuous Internal Evaluation(CIE) system at the institutional level (250 words)

Every Department has the following procedure to ensure effective conduction of internal assessment or tests. Internal tests are scheduled according to the dates mentioned in the calendar of events. Test or IA co-coordinator is assigned the responsibility of preparing the test time table, monitoring of the test process. The subject lead or expert of the respective subjects reviews the question paper to ensure the quality of the question paper. Course Outcomes mentioned in the syllabus prescribed by the University is discussed among staff and the subject leads and modified by the course coordinator if required. Regular talks are conducted in the college staff meetings to create awareness on Blooms Taxonomy levels. Lesson plan is framed by every subject teacher in accordance with the available number of classes mentioned in the calendar of events for effective portion coverage. This process is monitored by the subject lead or HoD regularly. Quality checks of the internal Question paper are initiated at different levels- Subject lead, HoD and IQAC. Learning levels and COs are mentioned in the test question papers. Question papers are scrutinized to see the coverage of syllabus, break up of marks, difficulty level, etc. by the subject lead or HoD. Evaluation Blue print and rubrics are developed for every course including lab test, project and seminars. The valuation is to be completed, valued blue books shown to students, marks entered in the data base and progress reports are sent to parents in the prescribed time limit.

2.5.3 - Academic calendar prepared and adhered for conduct of Examination and other related matters (250 words)

At the college level, in sync with the VTU Academic Calendar the calendar of events is prepared. The RNSIT Calendar of Events is prominently displayed on all notice boards and distributed to students at the beginning of the semester. The academic calendar prepared defines the schedule for various activities such as 1. Commencement and Closure of Classes 2. List of Holidays 3. Internal Assessment Test Schedule 4. Project Presentation or Open House or Assignment Submission or Seminars or Personality Development Program 5. Techno-cultural or Sports events, etc. 6. Final Internal Lab Assessment or Test 7. Dispatch of Progress Reports to Parents 8. Based on the information provided by 1 and 2 schedules listed above, teachers estimate number of classes available during the semester and appropriately prepare the lesson plan. 9. The planning and organizing of various co-curricular and extracurricular activities and festivals like- Independence Day, Republic Day, Rajyostava, Ganesha Chaturthi, Dandiya, Ayudha Pooja, Ramanavami, etc. are celebrated by the college, by involving staff, student cultural bodies. 10. Minor changes in the calendar of events are informed through Circulars to all Departments. At the Department level, the Department Calendar of events is prepared. It includes activities planned for the semester including cycle wise and final lab internals, industrial trips to be arranged, conduction of events like guest lectures, departmental fest, etc. In between the tests and at the end of the semester, academic audit checks the adherence of the planned activities specified in the Department Calendar of events.

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.rnsit.ac.in/>

2.6.2 - Pass percentage of students

Programme Code	Programme Name	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
CSE	BE	133	131	99
ISE	BE	126	117	93
ECE	BE	204	190	93
EEE	BE	64	59	92
EIE	BE	53	51	96
ME	BE	175	168	96
CIV	BE	60	57	95

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)

<https://www.rnsit.ac.in/images/handbook.pdf>

CRITERION III - RESEARCH, INNOVATIONS AND EXTENSION

3.1 - Resource Mobilization for Research**3.1.1 - 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
Projects sponsored by the University	0.5	VTU	0.7	0.7
Students Research Projects (Other than compulsory by the University)	0.5	KSCST	0.31	0.31
Major Projects	3	NRB/DRDO	21.6	11.94
Major Projects	3	ICSSR	3.5	2.6
Major Projects	3	LRDE	19.5	2.22
Interdisciplinary Projects	1	RNS Motors	0.6	0.6

3.2 - Innovation Ecosystem**3.2.1 - Workshops/Seminars Conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the year**

State	National	International
8	0	0

3.2.2 - 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
VOICE CONTROLLED WHEELCHAIR WITH HEALTH MONITORING SYSTEM	KARTHIK U HASYAGAR	41st Series of SPP, KSCST	12/05/2018	Students
SELF DEPURATION COMPETENCE OF NATURAL STREAM	SHILPA H	41st Series of SPP, KSCST	12/05/2018	Students
Cross Layer and Management plane integration approach for Detection and Prevention of Malicious Activities in WSN	Dr. G T Raju	IEEE International Conference on Electrical, Electronics, Communication, Computer Technologies and Optimization Techniques ICECCOT-2018	14/12/2018	Teacher
DETECTION OF PEDESTRIANS, SIGN BOARDS AND ROAD CONDITIONS USING COMPUTER VISION AND DEEP LEARNING FOR STRICTLY AUTOMATED DRIVING	NIKHIL JOSHI, PRIYANKA, PRANESH, SWAROOP	Shrishti Project Expo	22/05/2018	Students
CARD BASED ANTI PIRACY SCREENING SYSTEM	MANASA R, ARUN KUMAR M, Dhanush S, SOWMYA K	Shrishti Project Expo	22/05/2018	Students
PERSONALIZED GESTURE INTERFACE USING MACHINE LEARNING	DEEPIKA H S MADHUSUDAN SHAH T V SRILAKSHMI	Shrishti Project Expo	22/05/2018	Students
RAPID LIQUID CHILLER	SHARAN KUMAR S , MADIVALAPPA , PRAVEEN V , SRINIVASA K V	Shrishti Project Expo	22/05/2018	Students
SMART AUTOMATED FOOD GRAINS DISTRIBUTED SYSTEM	Sandhya M P, Kaneez Aisha, Kiran R, Raksha	Shrishti Project Expo	22/05/2018	Students
AEGIS-THE INTELLIGENT HELMET	HEMASHREE.N, MANJUNATH.C, NIVEDITHA.R, RAHUL.P.M	Shrishti Project Expo	22/05/2018	Students

DETECTION OF MENTAL HEALTH STAGES OF ADOLESCENT FEMALE STUDENTS USING EEG SIGNAL PROCESSING IN SOUTH BENGALURU GOVT. SCHOOLS	AKSHATHA V	41st Series of SPP, KSCST	12/05/2018	Students
EFFECTIVE POWER UTILISATION USING DC SUPPLY BASED RESIDENTIAL WIRING AND DISTRIBUTION	PRAVEEN KUMAR M S	41st Series of SPP, KSCST	12/05/2018	Students
Recognizing Set Of Human Activities From Video Dataset Using Machine Learning	Akaash Hegde, Akshay Sudhir, Hitesh Rao, Mithun B V	41st Series of SPP, KSCST	12/05/2018	Students
REAL -TIME BRAILLE SCRIPT TO SPEECH CONVERTOR	ELESH AGRAWAL	41st Series of SPP, KSCST	12/05/2018	Students

3.2.3 - 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
No data entered !!!					

3.3 - Research Publications and Awards

3.3.1 - Incentive to the teachers who receive recognition/awards

State	National	International
8	0	0

3.3.2 - Ph. Ds awarded during the year (applicable for PG College, Research Center)

Name of the Department	Number of PhD's Awarded
Electronics and Communication Engineering	"3
Instrumentation Technology	"2
Computer Science and Engineering	"1
Master of Business Administration	"2

3.3.3 - Research Publications in the Journals notified on UGC website during the year

Type	Department	Number of Publication	Average Impact Factor (if any)
International	Information Science and Engineering	2	1.2
International	Electronics and Communication Engineering	5	1.25
International	Computer Science and Engineering	16	3.73
International	Electronics and Instrumentation Engineering	3	2.4

3.3.4 - Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	Number of Publication
Information Science and Engineering	6
Electronics and Communication Engineering	30
Computer Science and Engineering	5
Mechanical Engineering	7
Electronics and Instrumentation Engineering	2
Civil Engineering	1

3.3.5 - 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	Number of citations excluding
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					in the publication	self citation
Hybrid Optimization in Big data	Dr. N P Kavya, K. V. Rama Satish	Communications in Computer and Information Science	2018	0	RNSIT	0
Efficient Estimation of Result Selectivity for Web Query Optimization	Dr. G T Raju, H.R. Shashidhar	International Journal of Pure and Applied Mathematics, 193-205, Volume 117 No. 7 2017	2017	7	RNSIT	0
A Novel Algorithm for Web Personalization through Integration of Web User Profiles and Behavioral Patterns	Dr. G T Raju	IRACST - International Journal of Computer Science and Information Technology and Security, Vol.7, No.2, 2017	2017	7	RNSIT	0
Medical Image Wavelet Compression- Effect of Decomposition Level	Andhe Pallavi, Y S Sumathy	International Journal of Electronics and Communication Engineering and Technology IJECET, Vol. 8, No. 5, Sep.-Oct. 2017, pp. 25	2017	2	RNSIT	0
Medical Image Compression	Andhe Pallavi, Y S Sumathy	International Journal of Engineering Development and Research IJEDR Vol. 5, No. 4, November 2017, pp. 385-390	2017	2	RNSIT	0
Investigation of Enzymes Binding to Voglibose an Antidiabetic Drug and the Choice of Enzyme to be Used for Biosensing , British Journal of Pharmaceutical Research BJPR, 2017, Vol. 14, Issue 3, pp. 1-10	Andhe Pallavi, Shreedevi Kulkarni	British Journal of Pharmaceutical Research BJPR	2017	2	RNSIT	1
Development of a Novel Method for the Analysis of the Drug in Low Concentration Using an Antidiabetic Drug Voglibose for the Study	Andhe Pallavi, Shreedevi Kulkarni	Journal of Pharmaceutical Research International	2017	2	RNSIT	0

3.3.6 - 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
Decluttering Using Wavelet Based Higher Order Statistics and Target Detection of GPR Images	Smitha N	Sensing and Imaging	2017	1	0	RNSIT
Transport and complex modulus study of La _{0.7} Ca _{0.3} MnO ₃ perovskite manganite nano-compound with polypyrrole as host	Smitha M G	Polymer Bulletin	2018	1	0	RNSIT
Synthesis, characterization and electrical susceptance studies of Polypyrrole/La _{0.7} Ca _{0.3} MnO ₃ Nano composites	Smitha M G	Materials Today	2018	1	0	RNSIT
Integrating cloud-WSN to analyze weather data and notify SaaS user alerts during weather disasters	Sampada K S	Souvenir of the International Advance Computing Conference, IACC	2017	1	12	RNSIT
A survey on graph database management techniques for huge unstructured data	Dr. kavya Naveen	International Journal of Electrical and Computer Engineering	2018	2	2	RNSIT

A framework for big data pre-processing and search optimization using HMGA-ACO	Dr. kavya Naveen	International Journal of Computers and Applications	2018	2	1	RNSIT
Hybrid optimization in big data	Dr. kavya Naveen	Communications in Computer and Information Science	2018	2	0	RNSIT
Fabrication of device quality films of high loaded PPy/MWCNT nanocomposites using pulsed laser deposition	Dr. Jeevananda T	Organic Electronics	2017	14	13	RNSIT
Determination of Cerium in Ceric Ammonium Sulphate by Novel Iodo-Potentiometric Method	Dr. Jeevananda T	Asian Journal of Chemistry	2017	14	1	RNSIT
A review paper on the available methods for the analysis of an anti-diabetic drug- VOGLIBOSE	Dr. Andhe Pallavi	Bull. Env. Pharmacol. Life Sci 5, 89-92	2017	1	2	RNSIT
Investigation of Enzymes Binding to Voglibose an Antidiabetic Drug and the Choice of Enzyme to be Used for Biosensing	Dr. Andhe Pallavi	British Journal of Pharmaceutical Research	2017	1	1	RNSIT
Assigning nodes to clusters in WSN based on fuzzy inputs of RSS, BE	Dr. Andhe Pallavi	lectrical, Electronics, Signals, Communication and Optimization	2017	1	1	RNSIT
Adaptable Packet Length for Power Hungry WSN	Dr. Andhe Pallavi	International Journal of Engineering Research and General Science	2017	1	1	RNSIT
Analysis of Message Authentication in Turbo Coded Halftoned Images using Exit Charts	Dr. Andhe Pallavi	World Academy of Science, Engineering and Technology, International Journal of Computer, Electrical, Automation, Control and Information Engineering	2017	1	1	RNSIT
Solitary pulmonary nodules classification based on tumor size and volume of nodules	Dr. Girijamma H A	International Conference on Applied and Theoretical Computing and Communication Technology	2018	1	1	RNSIT
Guaging the effectivity of existing security measures for big data in cloud environment	Dr. Girijamma H A	Advances in Intelligent Systems and Computing	2018	1	0	RNSIT
Optical studies on vacuum evaporated pentacene thin films on glass substrates	Dr. Sangeetha B G	Materials Today Proceedings	2017	3	1	RNSIT
Ge rich Chalcogenide material for Non volatile memory applications	Dr. Sangeetha B G	Materials Today Proceedings	2017	3	1	RNSIT
Significance of pre processing and its impact on lossless hyperspectral image compression	Dr. Mamatha A S	Imaging Science Journal	2018	2	0	RNSIT
Analysis of lossy to near lossless compression of hyperspectral imagery using prediction and multi-stage vector quantisation	Dr. Mamatha A S	Imaging Science Journal	2018	2	0	RNSIT
Authentication using Finger Knuckle Prints	Dr. Chetana Hegde	Signal Image and Video Processing	2017	6	12	RNSIT
Heartbeat biometrics for human authentication	Dr. Chetana Hegde	Signal Image and Video Processing	2017	6	13	RNSIT
Administration based on network computing for enterprise systems	Prabhavathi C N	Conference on Circuits, Controls, and Communications, CCUBE 2017	2017	0	0	RNSIT
Efficient keyword query routing in Linked Data	Dr. kavya Naveen	International Conference on Computation System and Information Technology for Sustainable Solutions, CSITSS	2017	2	0	RNSIT
Intelligent mininig for capturing processes through event logs to represent workflows using FP tree	Dr. kavya Naveen	International Conference on Intelligent and Advanced Systems, ICIAS 2007	2017	2	1	RNSIT

Extraction of Behavioral patterns from pre-processed web usage data for web personalization	Dr. G T Raju	IEEE International Conference on Recent Trends in Electronics, Information and Communication Technology, RTEICT	2017	4	1	RNSIT
Artificial neural network application for voltage control and power flow control in power systems with UPFC	Dr. S Sumathi	Emerging Research in Electronics, Computer Science and Technology	2018	1	1	RNSIT
Fabrication of carbon black/HDPE/polyaniline functionalized multi-walled carbon nanotube composites for enhancing PTC characteristics	Dr. Jeevananda T	Materials Today	2018	14	0	RNSIT
Iodo-Potentiometric Technique for the Estimation of Potassium Permanganate	Dr. Jeevananda T	Asian Journal of Chemistry	2018	14	1	RNSIT
A Comparative Study on AC Conductivity and Dielectric Behavior of Multiwalled Carbon Nanotubes and Polyaniline Coated Multiwalled Carbon Nanotubes Filled High Density	Dr. Jeevananda T	AIP Conference Proceedings	2018	14	0	RNSIT
Estimation of Fe ₂ O ₃ in Haematite Ore of Hospet by Iodo-Potentiometric Technique	Dr. Jeevananda T	Asian Journal of Chemistry	2018	14	0	RNSIT
Wavelet based clutter reduction of GPR data	Smitha N	2nd International Conference on Circuits, Controls, and Communications, CCUBE	2017	1	0	RNSIT
Through-wall imaging system using horn antennas	Smitha N	International Conference on Advanced Computing and Communication Systems	2017	1	0	RNSIT
Machine Learning Based Classifier for Falsehood Detection	Mallikarjun H M	IOP Conference Series Materials Science and Engineering	2018	1	0	RNSIT
Mental state recognition by using brain waves	Mallikarjun H M	Indian Journal of Science and Technology	2017	1	1	RNSIT
Machine learning based epileptic seizure prediction using brain waves	Mallikarjun H M	Journal of Advanced Research in Dynamical and Control Systems	2018	1	0	RNSIT
Depression level prediction using EEG signal processing	Mallikarjun H M	International Conference on Contemporary Computing and Informatics	2017	1	3	RNSIT
Geographical labeling of web objects through density estimator model	Dr. G T Raju	Proceedings of the International Conference on Computing Methodologies and Communication, ICCMC 2017	2017	4	0	RNSIT
Web personalization through probabilistic graphical model incorporated active feedback approach	Dr. G T Raju	Journal of Advanced Research in Dynamical and Control Systems	2018	4	0	RNSIT
Preprocessing of lung images with a novel image denoising technique for enhancing the quality and performance	Dr. G T Raju	Lecture Notes in Computational Vision and Biomechanics	2018	4	0	RNSIT
Medical diagnosis through semantic web	Dr. G T Raju	Lecture Notes in Computational Vision and Biomechanics	2018	4	0	RNSIT
Selectivity estimation in web query optimization	Dr. G T Raju	ACM International Conference Proceeding Series	2018	4	0	RNSIT
Content based image retrieval using self organizing map	Dr. Sudhamani M V	Lecture Notes in Electrical Engineering	2018	4	0	RNSIT
A novel approach for prefetching of web pages through clustering of web users to reduce the web latency	Dr. Sudhamani M V	Advances in Intelligent Systems and Computing	2017	4	5	RNSIT

Content based image retrieval by combining median filtering, BEMD and color technique	Dr. Sudhamani M V	Advances in Intelligent Systems and Computing	2017	4	3	RNSIT
Content-Based Image Retrieval Using Edge and Gradient Orientation Features of an Object in an Image from Database	Dr. Sudhamani M V	Journal of Intelligent Systems	2018	4	0	RNSIT
Trajectory Generation Methods	Dr. M K Venkatesha	International Journal of Recent Trends in Engineering	2017	5	9	RNSIT
Quantification of VEGF for diagnosis based on protein biomarkers	Dr. Andhe Pallavi	Proceedings of 2015 IEEE 9th International Conference on Intelligent Systems and Control, ISCO 2015	2018	1	0	RNSIT
Assigning nodes to clusters in WSN based on fuzzy inputs of RSS, BE	Dr. Andhe Pallavi	International Conference on Electrical, Electronics, Signals, Communication and Optimization, EESCO 2015	2018	1	0	RNSIT
Electrical studies of Ge4Sb1Te5 devices for memory applications	Dr. Sangeetha, B. G.	AIP Conference Proceedings	2018	3	0	RNSIT
ECG denoising using wavelet transform and filters	Dr. Vipula Singh	Proceedings of the 2017 International Conference on Wireless Communications, Signal Processing and Networking, WiSPNET 2017	2017	5	0	RNSIT
Effect of ground undulation and mounted vehicle velocity variation on stepped frequency continuous wave GPR data	Dr. Vipula Singh	Exploration Geophysics	2018	5	0	RNSIT
Significance of pre- processing and its impact on lossless hyperspectral image compression	Dr. Vipula Singh	Imaging Science Journal	2018	5	0	RNSIT
Analysis of lossy to near- lossless compression of hyperspectral imagery using prediction and multi-stage vector quantisation	Dr. Vipula Singh	Imaging Science Journal	2017	5	0	RNSIT
Pyramidal horn antenna for ground penetrating radar application	Dr. Vipula Singh	IEEE Annual India Conference, INDICON	2017	5	0	RNSIT
Trend Analysis of E- Commerce Data using Hadoop Ecosystem	Rama Satish KV	International Journal of Computer Applications	2018	3	4	RNSIT
Big data processing with harnessing hadoop-MapReduce for optimizing analytical workloads	Rama Satish KV	Contemporary Computing and Informatic	2018	3	15	RNSIT
An approach to optimize QOS Scheduling of Map-Reduce in Big Data	Rama Satish KV	International Journal of Engineering Research and Technology	2018	3	5	RNSIT
Artificial Neural Network for coordinated control of STATCOM, generator excitation and tap changing transformer	Dr. S Sumathi	International Journal of Electrical Power and Energy Systems	2018	1	10	RNSIT
Preparation and characterization of Sb2Se3 devices for memory applications	Dr. Sangeetha, B. G.	AIP Conference Proceedings	2018	3	0	RNSIT
Filter based approach for automated detection of candidate lung nodules in 3D computed tomography images	Dr. Sudhamani M V	Communications in Computer and Information Science	2018	4	0	RNSIT
Simple Linear Iterative Clustering Based Tumor Segmentation in Liver Region of Abdominal CT-sca	Dr. Sudhamani M V	Proceedings - 2017 International Conference on Recent Advances in Electronics and Communication Technology, ICRAECT 2017	2017	4	0	RNSIT

Experimental analysis of SIFT and SURF features for multi-object image retrieval	Dr. Sudhamani M V	International Journal of Computational Vision and Robotics	2017	4	0	RNSIT
Real Time Detection and Tracking of Mouth Region of Single Human Face	Dr. M K Venkatesha	3rd International Conference on Artificial Intelligence, Modelling	2018	5	3	RNSIT
A Microprocessor Based Precision Step Tracking System for A 7.5 Meter Antenna	Dr. M K Venkatesha	IETE Technical Review	2017	5	3	RNSIT
Inversion Transformation for the Finite Element Solution of Three Dimensional Exterior-Field Problems	Dr. M K Venkatesha	IETE Technical Review	2017	5	0	RNSIT
Method of Conformal Transformation for the Finite-Element Solution of Axisymmetric Exterior-Field Problems	Dr. M K Venkatesha	IETE Journal of Research	2018	5	1	RNSIT
A Two Fold Expert System for Yawning Detection	Dr. M K Venkatesha	Procedia Computer Science	2017	5	2	RNSIT
Novel approach for lung image segmentation through enhanced FPCM method	Dr. G T Raju	Journal of Advanced Research in Dynamical and Control Systems	2018	4	0	RNSIT
Dynamic Response studies of GeTe devices for memory applications	Dr. Sangeetha B. G.	Materials Today	2018	3	0	RNSIT
Decluttering Using Wavelet Based Higher Order Statistics and Target Detection of GPR Images	Dr. Vipula Singh	Sensing and Imaging	2018	5	0	RNSIT
synthesis and optical properties of undoped and Eu-doped ZnS nanoparticles	Dr. Pandurangappa C	Physica Scripta	2017	6	17	RNSIT
Synthesis and characterization of CaF ₂ nanocrystals	Dr. Pandurangappa C	Journal of Alloys and Compounds	2017	6	45	RNSIT
Photoluminescence, Raman and conductivity studies of CaSO ₄ nanoparticles	Dr. Pandurangappa C	International Journal of Nanotechnology	2017	6	0	RNSIT
Morphological change based Optical studies of Zinc sulphide Nanophosphor	Dr. Pandurangappa C	Materials Today	2017	6	0	RNSIT
Establishment of a new inequality using extended Heinz type mean	Sampath Kumar R	Journal of Physics	2018	0	0	RNSIT
Application of different filters for noise removal in digital images	Sampath Kumar R	Journal of Advanced Research in Dynamical and Control Systems	2018	0	0	RNSIT
Ultrasound Ovary Image Classification Using K	Dr. Usha B S	IFMBE Proceedings	2018	2	0	RNSIT
Size and shape-based ovarian abnormality detection of ultrasound images	Dr. Usha B S	Lecture Notes in Electrical Engineering	2018	2	0	RNSIT
Selectivity estimation in web query optimization	Dr. Shashidhar H R	ACM International Conference Proceeding Series	2018	1	0	RNSIT
Effect of number of layers on coir geotextile reinforced sand under cyclic loading	Dr. M T Prathap Kumar	International Journal of Geo-Engineering	2018	1	0	RNSIT
Efficient keyword query routing in Linked Data	Sampada K S	International Conference on Computation System and Information Technology for Sustainable Solutions, CSITSS 2016	2017	1	0	RNSIT
STUDY FOR DECRYPTING THE INFORMATION ENCRYPTED	Sampada K S	Journal of Applied Science and	2018	1	0	RNSIT

WITH VISUAL CRYPTOGRAPHY USING AUGMENTED REALITY DEVICES		Computations				
Solvothermal synthesis characterization and photoluminescence studies of ZnS	Dr. Pandurangappa C	Optical Materials	2018	6	14	RNSIT
Influence of melt treatments and turning inserts on cutting force and surface integrity in turning of Al 12Si and Al 12Si 3Cu cast alloys	Dr. K G Basavakumar	Surface and Coatings Technology	2017	6	10	IIT KGP
Influence of melt treatments and turning inserts on cutting force and surface integrity in turning of Al 7Si and Al 7Si-2.5Cu cast alloys	Dr. K G Basavakumar	Journal of Materials Science	2017	6	4	IIT KGP
Influence of melt treatments on sliding wear behavior of Al 7Si and Al 7Si 2.5Cu cast alloys	Dr. K G Basavakumar	Journal of Materials Science	2017	6	7	IIT KGP
Influence of microstructure and turning inserts on machinability and surface characteristics of Al 7Si and Al 7Si 2.5Cu cast alloys	Dr. K G Basavakumar	Materials Science and Engineering	2017	6	3	IIT KGP
Exponential passivity for uncertain neural networks with time varying delays based on weighted integral inequalities	S Padmanabhan	Neurocomputing	2018	7	0	RNSIT
CALCULUS AND LINEAR ALGEBRA	S Padmanabhan	DVL	2018	7	0	RNSIT
Novel delay-dependent stability condition for mixed delayed stochastic neural networks with leakage delay signals	S Padmanabhan	International Journal of Computer Mathematics	2018	7	2	RNSIT
Biochemical and nutritional characterization of coconut	S Padmanabhan	Food chemistry	2018	7	9	RNSIT
A Brief Study on Stability of Neutral Time Delay Differential System	S Padmanabhan	IJASM International Journal of Applied Science and Mathematics	2017	7	0	RNSIT
LMI Approach for Stability Analysis for Neutral Delay Differential Systems	S Padmanabhan	International Journal of Recent Scientific Research	2018	7	0	RNSIT
A Stability Analysis for Linear Delay Differential Systems	S Padmanabhan	IJIRST International Journal for Innovative Research in Science and Technology	2018	7	0	RNSIT

3.3.7 - Faculty participation in Seminars/Conferences and Symposia during the year :

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	35	12	10	126
Presented papers	22	10	2	15

3.4 - Extension Activities

3.4.1 - 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
Fire safety program 31/3/2017	CSR Unit Civil Dept., NSS- RNSIT and Fire Fighting Dept., Banashankari Bengaluru	20	150
Helping Hearts Anti- drug walkathon	G Group and Helping Hearts, Bengaluru	1	4

Maruthi Charitable trust visit	Chiguru- CSR Team of ECE Dept.	3	25
Belaku Vruddashrama Visit	Chiguru- CSR Team of ECE Dept.	3	25
Belaku Shishu Nivasa Visit	Chiguru- CSR Team of ECE Dept.	3	25
Green Sunday, forestation Drive, 15/4/2018	Chiguru- CSR Team of ECE Dept. RNSIT, ISEC- Indian Institute of Social Economic Change and Adamyia Chetana	3	25
April Cool Day, Campus Cool drive by sapling trees, 1/4/2018	RNSIT- MBA CSR Team	5	20
Akshara- Wariness about Literacy by Street Plays, 4/4/2018	RNSIT- MBA CSR Team	3	15
Omashram- Oldage care visit, 7/4/2018	RNSIT- MBA CSR Team	3	20
Kengeri Orphanage visit, 20/4/2018	RNSIT- MBA CSR Team	2	13
Maduramma Ground- An forestation Drive, 9/10/2018	Chiguru- CSR Team of ECE Dept. and Adamyia Chetana	3	25
Kodagu Flood Relief Drive, 8/9/2018	NSS -RNSIT, Chiguru- CSR Team of ECE Dept. and Kodava Samaj and Youth for life	100	400
Engineers Day and Teachers Day 15/9/2018	NSS -RNSIT	200	30
Blood Donation Festival, 16/2/2018	NSS -RNSIT, Lions Club Bengaluru South Blood banks associated Lions BGS Global, Sushrutha Red Cross, Rashtrothana	22	492
1 - Week Health Camp, 15/7/2018 to 21/7/2018	NSS - RNSIT and LVP Diagnostic, Channasandra, Bengaluru	45	30
Ganesha Pooja and Prasadam Distribution, 28/8/2018	NSS - RNSIT	200	999
Old age home Visit in Uttarahalli Village, Bengaluru. 25/12/2017	NSS - RNSIT	25	2
Donation Drive for Physically disabled people, 31/3/2017	CSR Unit Civil Dept. and NSS - RNSIT	20	150
Women Empowerment awareness skit, 31/3/2017	CSR Unit Civil Dept.	20	150

3.4.2 - 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 Festival Recognition	Certified and Appreciated NSS unit, Principal, Staff and Students of RNSIT	Lions Club Bengaluru South, BGS Global Hospital, Sushrutha Blood Bank, Red Cross Blood Bank, Rashthrothana Blood Bank	470

3.4.3 - 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/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activities	Number of students participated in such activities
Gender Equality	NSS- RNSIT, Womens Welfare committee - RNSIT	International Womens Day, 8/3/2018	150	30
International	NSS - RNSIT	Yoga Day, 21/6/2018	10	30

Yoga Day				
Swachh Bharat	NSS - RNSIT	Swachh Campus event, 7/10/2017	3	20

3.5 - Collaborations

3.5.1 - Number of Collaborative activities for research, faculty exchange, student exchange during the year

Nature of activity	Participant	Source of financial support	Duration
Academic	Baden Wuerttemberg Cooperative State University, Germany	Self Financing	1

3.5.2 - 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
Project Work	Final year projects	NEUTRINOS Solutions Pvt Ltd.	14/02/2018	10/04/2018	Sudhanva Harish, Sumukh M S, Suabhi S Narayan
Project Work	Final year projects	ROBERT BOSCH	02/02/2018	16/04/2018	Pavan B Garadi, Sai Bhargav, Harishesh J K
Project Work	Final year projects	ITIE Knowledge Solutions and Sarga Technologies	13/02/2018	19/04/2018	Pavan M, Megha M S, Namitha L, Nikhil B Gowda
Project Work	Final year projects	CDAC, Bengaluru	17/01/2018	22/05/2018	Abhishek S K, Adarsh M Kashyap, Anush N
Project Work	Final year projects	CDAC, Bengaluru	17/01/2018	22/05/2018	Kusuma R, Deepthi B
Project Work	Final year projects	CDAC, Bengaluru	17/01/2018	21/05/2018	Dheeraj V, Aditya D S, Manjunath S
Internship	Internship	HPE	06/02/2018	07/05/2018	Prateik
Internship	Internship	GE Digital	06/02/2018	07/05/2018	Varun, 4th year ECE Dept.
Internship	Internship	Yellow Messenger	06/02/2018	07/05/2018	Anil, 4th year ECE Dept.
Internship	Internship	Dev Tools	06/02/2018	10/05/2018	Vishwas, Kanthesh, Sandesh, 4th year ECE Dept
Internship	Internship	Texas Instruments	20/02/2018	14/05/2018	Harish Devadiga, Robin Kumar, Sharath C R, Divij Ramesh Nalge, Meghana G M, 4th year ECE Dept.
Internship	Internship	Byjus	06/02/2018	19/05/2018	Ankita, Chaya, Rahul, Sawan, 4th year ECE Dept.
Internship	Internship	VI Solutions	12/02/2018	08/05/2018	94 students
TOTAL STATION PROJECT	Extensive Surveying	Seven Crafts Group	21/01/2018	31/01/2018	52 Students and 11 Teachers
Internship	MOU	Techie Aid Valley boot Camp	01/07/2018	31/07/2018	Students
Project Work	Final year projects	Gipzonics Techno Labs	01/02/2018	05/04/2018	Nisarga G, Nisarga J, Pramodh Kumar M, Prasanna F Naik
Internship	Internship	Mitsubishi	07/02/2018	03/05/2018	25 students
Internship	Internship	E-Construct Design	07/07/2018	04/08/2018	52 students
Project Work	Final year projects	ITIE Knowledge Solutions	01/02/2018	05/04/2018	Puneeth H S, Rakesh S Gowda, Santhosh P N, Sunil Dhondiba
Project Work	Final year projects	ITIE Knowledge Solutions and Fiabilite Network Solutions	01/02/2018	05/04/2018	Shyam Sunder, Sushwethachandra, Pradeep Kumar, Bhanuteja
Project Work	Final year projects	ITIE Knowledge Solutions	01/02/2018	05/04/2018	Shridhar R C, Sagar K B N, Yukthi Prasad, Hanamanth A

Project Work	Final year projects	ITIE Knowledge Solutions and Maruthi Software solutions	01/02/2018	05/04/2018	Mrutyunjaya, Sachin M P, Manoj Kumar N, Manjunatha, Alagundi
Project Work	Final year projects	ITIE Knowledge Solutions and Magnus Global Tech	01/02/2018	05/04/2018	Vidya Sagar, Vijaya Kumar, Mohan J, Manu G N
Project Work	Final year projects	ITIE Knowledge Solutions and DHIO research and development Pvt Ltd	01/02/2018	05/04/2018	Lokesh, Madhushree, Mahalakshmi B, Navneeth Achar
Project Work	Final year projects	ITIE Knowledge Solutions and Neo Rays Pvt Ltd	01/02/2018	05/04/2018	Uday Shankar, Umesh, Vaibhav Kulkarni, Yeshas

3.5.3 - MoUs signed with institutions of national, international importance, other universities, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
ENGG. MATERIALS	16/02/2018	ANSYS, SIMSCALE, ISHE OPEN SOURCE SOFTWARE	46
INDUSTRIAL TECHNOLOGIES	01/06/2018	INTERNSHIP, TECHNICAL TRAINING, WORKSHOPS	13
VI SOLUTIONS	29/06/2018	INTERNSHIP, TECHNICAL TRAINING, WORKSHOPS	120
FIABILTE NETWORK SOLUTIONS PVT. LTD.	14/06/2018	INTERNSHIP, TECHNICAL TRAINING, WORKSHOPS	32
BOSCH REXROTH COE	11/06/2018	INTERNSHIP, TECHNICAL TRAINING, WORKSHOPS	37
EMPOWER SYSTEM	06/06/2018	CATIA, ANSYS TRAINING	20
CADD	20/02/2018	NXCADD TRAINING	54

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
832.5	1568.18

4.1.2 - Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Value of the equipment purchased during the year (rs. in lakhs)	Newly Added

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
ADSTOCK	Fully	1.1	2012

4.2.2 - Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	36393	105	1419	7	37812	112
e-Books	900	7	60	1	960	8
e-Journals	588	16	591	24	1179	40
Weeding (hard & soft)	50	1	0	0	50	1
Digital Database	1	2	0	0	1	2
CD & Video	168	1	18	0	186	1

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
ANDHE PALLAVI	SEMICONDUCTOR MEMORIES - 15CS44	NPTEL-VTU-EDUSAT	18/07/2018
ANDHE PALLAVI	I/O INTERFACING	NPTEL-VTU-EDUSAT	20/07/2018
ANDHE PALLAVI	16 BIT MEMORY INTERFACING	NPTEL-VTU-EDUSAT	19/07/2018
ANDHE PALLAVI	FEATURES OF 8255	NPTEL-VTU-EDUSAT	24/07/2018

4.3 - IT Infrastructure

4.3.1 - Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MGBPS)	Others
Existing	1323	34	34	1	1	1	8	100	
Added	1	2	2				1		
Total	1324	36	36	1	1	1	9	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
EDUSAT	vtu.ac.in/watch.php

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
456.25	164.35	515.1	2148.75

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, provide link)

At RNSIT, the procedures and policies for maintaining and utilizing various facilities are well defined and periodically updated based on the feedback received from the various stakeholders. The available facilities for Curricular and Co-curricular Activities include spacious, well furnished classrooms equipped with teaching aids black, White, Ceramic Green board, multimedia projectors, Podium, etc. Technology Enabled Learning Spaces encompass Library, Separate Browsing center for internet access, Departmental libraries, WiFi zones, Bosch-Rexroth center of excellence, Hi tech labs, EDUSAT Hall, etc. Seminar Halls in every block are well equipped with modern amenities such as overhead and LCD projectors, audio visual aids such as computer and public address system. Laboratories catering to the VTU syllabus and beyond are established in every department. Facilities are provided for various Sports activities, Outdoor and Indoor Games, Gymnasium, NSS, Cultural Activities, Health Centre, Canteens, Bank, Temple, etc. Feedback Collection The feedback on class room infrastructure, library, labs, canteen, playground, internet facility, etc. is collected in numerous ways at different points of time as detailed below. i. The feedback on facilities is collected from every student every semester as a part of their online OTAS. ii. The anonymous feedback is also received through HELP BOX located in every of the academic block. iii. Feedback or complaints requiring immediate addressing are done through the register entry at the maintenance section. Feedback Analysis The feedback given by the students during OTAS is consolidated and analysed immediately after the appraisal entry. The feedback through HELP BOX is collected and analysed by the Feedback Committee headed by Professor Shridhara of ECE Department twice every month. The feedback through the maintenance register is addressed immediately. Corrective Measures In HoDs meeting the corrective actions are discussed and fine-tuned. After the redressal, the recording of the action carried out is recorded and attested by the HoD or senior faculty member or Principal. Based on Students feedback the following facilities were provided during the last year i. Additional Library working hours. ii. Additional coaching classes were arranged for first year subjects. iii. Extension of Internet Facility, WiFi. iv. Improvement in Academic activities. v. Changes in Hostel Food Menu. vi. one week Hostel fest vii. Certification programs. viii. Industry visits, formation of students clubs. ix. Better security mechanism CCTV surveillance. x. Additional infrastructure

facilities expansion of sports ground, Library space, etc. Suggestion book is maintained at the RNSIT Library to get feedback from the users and also from visiting dignitaries. In the semester end feedback, the students remarks on the infrastructure facility including library is taken. Also, the library usage patterns obtained from different sections like issue, walkins, e resource logins, renewals, etc. help in fine tuning the library operations. Suggestions related to add Books, Question papers, relevant study materials are given utmost priority and most of the request processing of syllabus books is carried out at the earliest. All requests, suggestions and recommendations from Students, Faculty, HoDs, Principal, Director are considered and necessary resources are added to improve the library service.

<https://www.rnsit.ac.in/>

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	Merit Incentives	9	143260
Financial Support from Other Sources			
a) National	Fee Concession	258	12611865
b) International	JandK	9	567270

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 implemetation	Number of students enrolled	Agencies involved
Non-Technical Training	05/02/2018	513	Seventh sense
Non-Technical Training	05/02/2018	513	Universal Education
Technical Training	07/08/2017	538	Wipro trained faculty

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
2017	GATE COACHING	4"		4	
2017	PLACEMENT TRAINING	1026"	1026	750	490

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	6

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
Accenture, Wipro, Infosys, Bosch, etc.	497	441	Cerner, PWC, etc.	30	6

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	88	2017-18 BE	CSE, ISE, ECE, EEE, EIE, ME, CV	NC State University, University of Texas Arlington, Santa Clara University, The University of Illinois, etc.	MS, MBA, MTech
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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	Reg no/ Rollno for the examination
GRE	1	4415544
GRE	1	4533981
GRE	1	4602935
GRE	1	2882259
GRE	1	0513435
GRE	1	3055444
GRE	1	0864623
GRE	1	2084039
GRE	1	1670744
GATE	1	EC18S51214242
GATE	1	700618
GATE	1	7120986
Any Other	1	YB094
Any Other	12	231445
TOFEL	1	000000034731096
TOFEL	1	000000034469408
TOFEL	1	000000034575311
TOFEL	1	000000034506086
TOFEL	1	000000034631574
TOFEL	1	000000032102753
TOFEL	1	000000032333893
TOFEL	1	000000031886069
TOFEL	1	000000032464222
TOFEL	1	000000031712597

5.2.4 - Sports and cultural activities / competitions organised at the institution level during the year

Activity	Level	Number of Participants
Cricket	Intra college	30
Kabbaddi	Intra college	70
Parichay	Intra college	800
Gestione	Intra college	600
Evolution	Intra college	220
Pantheon	Inter College State Level	2000
Marathon	Inter College State Level	200

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/	Number	Number	Student ID	Name of the student
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		Internaional	of awards for Sports	of awards for Cultural	number	
2018	1st Prize, Shimoga, Karnataka. Karnataka Volley Ball League	National	1		1RN16MCA35	Sagar G
2018	Best Defender Award Sai-Leo Trophy Sai Ram Engineering College, Anekal	National	1		1RN16MCA35	Sagar G
2018	Bheemavaram, Andhra Pradesh. Division All India Volley Ball Championship	National	1		1RN16MCA35	Sagar G
2018	1st Prize	National	1		1RN17MCA59	Thejas Kulambi C M
2018	2nd Prize	National	1		1RN17MCA21	Karthik V
2018	RNSIT Gestion cup	National	1		1RN17MCA59	Thejas Kulambi C M
2018	RNSIT Gestion cup	National	1		1RN17MCA21	Karthik V
2018	Christ Cricket tournaments on Feb 20 and Feb 22, 2018.	National	1		1RN15EC135	Sanjay C Sharma
2018	JSSATE Cricket tournaments held at JSSATE on Feb 26 and Feb 28, 2018.	National	1		1RN15EC179	Ajay Kumar
2018	VTU Bangalore South Zone Basket Ball tournaments held at SJBIT on March 01.06.2018	National	1		1RN15EC131	Sanjan Vijay Kumar
2018	MSRIT Cricket tournaments held at MSRIT on March 26 and April 03, 2018	National	1		1RN15EC178	Anand Sharma
2018	2nd Place, Christ University Cultural Festival, Bengaluru	National	1		1RN16EI002	Ashish Kumar, Elesh Agarwal, Abhishek Singh, Anant Bansal, Adarsh Kaushik, Swati, Farheen Fatima, Vaibhav Jangid, Prajwal, Swapnil Roy
2018	BRONZE Medal, 8th TIRAK TAEKWONDO International Chompionship 2018, Assumption University, Bangkok, Thailand, 27th Oct 2018	International	1		1RN15CS115	Tejaswini Chandra
2018	Sai Leo Trophy,	National	1		1RN16MCA35	Sagar G
2017	3rd runners up in Ramaiah	National	1		1RN15IS006	Aditya Kumar
2018	Got selected in INDIAN BALL HOCKEY Team	National	1		1RN16EE003	Aditya Jadiya
2018	Won 2nd Ball hockey national championship held in Chandigarh	National	1		1RN16EE003	Aditya Jadiya
2018	South zone table tennis championship. Interzone table tennis championship..	National	1		1RN16EC186	Vaishnavi BS
2018	Table Tennis	National	1		1RN16IS097	Shilpa P
2018	2nd place, Corporate Conglomerate, BNMIT	National		1	1RN15CS009	Adithya Kothari
2018	1st Prize, Sai Ram Engineering 2018 College, Anekal. Karnataka Volley Ball League	National	1		1RN16MCA35	Sagar G

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

RNSIT has an active body of students who take part in planning and carrying out various co-curricular and extra-curricular activities of the College. Every class has a Class Committee in which member student representatives have various roles to play. The students represent their views in subjects, syllabus and other related issues and problems. Apart from the Class Committees, the College level Student Committees in sports, cultural activities, various clubs, etc. are formed every year with representation of students across

all branches. These committees overseen by concerned faculty members are involved in decision making of the various activities, handling finance with accounting, conduction and reporting of events.

5.4 - Alumni Engagement

5.4.1 - Whether the institution has registered Alumni Association?

Yes

The Institute has a strong Alumni network which is one of the major sources of publicity. The alumni work in different areas like engineering, business and government organizations. They are entrepreneurs and are pursuing higher studies in reputed institutes or foreign Universities. A number of our alumni have obtained higher qualifications from top universities in India and abroad. The feedback from our alumni placed in India and Abroad in top blue chip companies and academia helps us in identifying latest and future trends in many of the subjects being currently offered which helps the faculty to incorporate them in the syllabus. RNSIT Alumni have specifically suggested incorporation of topics such as AI, PSoC, Python, etc in the curriculum and also have conducted awareness workshops for students and faculty on the same. The institution holds alumni association which was started in the year 2005 with the membership of over 100. i. Few prominent alumni are made members of various college bodies including CAT for suggestion and guidance ii. The institution manages a library with books donated by alumnae. iii. The institution also holds records of the donations given by some of the alumni towards the fest and other technical activities. iv. The alumni are invited to give special talks and motivate students on a regular basis. The alumni also enrich the students interested in entrepreneurship and invite students for industrial visits. They also offer projects and internship to students. Few alumni have donated the instruments, equipment to the college. Contribution towards Institutional Development 1. Admission Brand building of RNSIT, many alumni refer friends and relatives to join RNSIT. Alumni Brand ambassadors for popularizing the courses at RNSIT. Every year they are actively involved in the college cultural activities. Sponsorship was contributed towards CAT activities. Alumni in major MNCs like Yokogawa, Infosys etc help the junior students in preparing for the interview, group discussions etc. Contribution towards Infrastructure Development i. PSoC equipment at ECE department is donated and continuously maintained by Alumni. ii. Mr. Rangarajan M A, Alumini of EIE Department has contributed to Research infrastructure by donating Network analyzer of 3 GHz. Contribution towards Academic Development i. Some of the Alumni of EIE department working in reputed MNCs have frequently visited the campus and given talks to UG and PG students. ii. Harsha Aralgunji has helped students to prepare for Yokogawa. iii. Manjunath has given a talk on PLCs and DCS. iv. Akhil L T has a given talk on Serving Indian Nation. 1. Alumni from Cypress Semi-conductor conduct workshops. 2. Alumni also conduct workshops on robotics and support robotics club of RNSIT 3. Also impart training on latest trends in PERL, Python and MVCs to UG students on regular basis. 4. Financial Assistance for conduction of EDP and FDP, International Conference conducted by various departments. 5. Take part in technical events for Project Open house, PROP, INCONTRA, GESTIONE, Evolution, etc in the form of technical support like project assistance, guidance, evaluation along with financial assistance. 6. Alumni have referred students

5.4.2 - No. of enrolled Alumni:

8000

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

1261200

5.4.4 - Meetings/activities organized by Alumni Association :

twelve meetings. two during NBA and NAAC time. Individual department meetings - eight. MBA alumni meetings - two.

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)

RNSIT practices a culture of decentralized governance and participative management. As an example of the practice of decentralization and participative management, during the last year The Head of each Department including placement Cell exercised their authority in deciding the activities, delegating commensurate authority and responsibilities to the staff members of the department, cell. The departments decided on timetable, subject allocation, organizing guest lectures, workshops, industrial visits, open house, Department fests, MoUs, etc. According to the new syllabus, the HoDs of Electrical, Physics, Electronics departments were authorized to establish laboratories to meet the curriculum requirements, procurement and maintenance of equipment, etc. The culture of decentralization and participative management enables staff and students to give their opinions and suggestions for improvement. This is reflected in the following activities that were regularly carried out last year at RNSIT. i. All academic and administrative activities are decentralized and decisions are taken at different levels based on discussions and deliberations in class teachers

meetings, departmental staff meetings, faculty meetings and HoDs meeting with Director, Principal and Deans from time to time fostering participative management principle in the campus. ii. Management representatives are members of GC, Finance Committee, Recruitment Committee, Purchase Committee, Hostel Committee and Infrastructure Committee. A. Chairman He is the Chief Executive Officer of all the activities and monitors progress in each area the institution is supposed to excel. He is the competent authority and gives approval for policy decisions and their implementations. He closely interacts with the Head of the institution. B. The Industry expert an industrialist and business man give valuable inputs regarding Industry Institution Interactions, MoUs and placements C. HoDs and Senior Professors of the Institution, who are aware of the day to day happenings, have the responsibility of work alongside the Head of the institution in identifying various needs, issues, plans, academic and financial requirement and place before the GC. They are also required to interact with faculty, staff and students and bring to the notice of the Principal any improvements required in the process. 1. Student Involvement. i. Class representatives acting as nucleus for obtaining feedback regarding all the curricular, co curricular and extra-curricular activities of the institute. They are empowered to organize the college technical fests, sports day, etc. with inputs from faculty advisors. ii. Those who are staying in our hostels decide their own menu. 2. Faculty and Technical Support Staff involvement. Every faculty is given liberty to take her or his decision in the delivery of lectures pertaining to their subject. All the faculty members are the members of one or the other committees stated earlier for smooth functioning of academic and administrative activities. They are allowed to make decisions on a day to day basis but within the overall policy guidelines given by IQAC from time to time. Faculty members are allowed to improve their skill set by periodically attending the seminars, workshops, conferences, presenting papers in reputed journals, etc.

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
Research and Development	RNSIT has established six VTU recognized research centers to pursue Ph.D programmes across different disciplines. Facilities- Journals, reference books, internet, lab facilities are made available to research scholars. Follow-up - IQAC, Doctoral Committee evaluate the research progress and guide the Research Scholars. Scholars, Faculty, Students are encouraged to submit research proposals to funding agencies such as NRB, VGST, AICTE, DST, KSCST, DEITY, SERB, VTU, etc. Incentives- Principal Investigators of the sanctioned projects are given incentives for every project sanctioned. Academic and administrative support is extended to all the sanctioned projects and associated scholars for successful execution and completion.
Industry Interaction / Collaboration	Signing of MoUs - STUDSAT with ISRO, Bosch Rexroth India Ltd., CADD, CISCO- Oracle Certification Initiative under MHRD with Ethno Technologies, Fiabilite, Vi-Solutions, Valley Boot camp, etc. Arranging Industry visits across various departments. Encouraging Internships and mini projects from every student to understand processes and practices to get practical exposure. Reviews of students projects by industrial experts. Experts from industry conduct workshops and training programmes in current trends in technology Industrial Collaboration for carrying out research and projects. Faculties deputed to attend training in industries - recently Wipro Certified. Setting up CoEs with industry collaboration.
Human Resource Management	Streamlined recruitment process -Technical Competence Test -TCT, technical presentation, demonstration, board work, Interactions, HR interview by IQAC. Academic Freedom for development - organizing FDPs, Conferences, Seminars, industrial visits, workshops, As mentors, class teachers, hostel Wardens, etc. Academic audit of every faculty for awarding, releasing annual increment, allowing movement from lower to higher AGP, screening for promotion, etc. Instituting a number of staff welfare schemes like CL, OOD, EL, ML, SCL, Gratuity, etc. Preference, higher weightage for in-service candidates for promotion to higher cadre. Creation of need based additional posts like Deans, Coordinators with additional incentive.
Curriculum Development	Every Department at RNSIT has developed additional enrichment courses, learning material, tailor made content, special laboratory experiments and also has organized a few activities such as talks, paper presentations, Industrial trips etc., for attaining the identified POs and PSOs. Preparation of Course Material referring to standard text books, NPTEL videos, VTU e-resources etc., is mandatory. Tracking VTU circulars and VTU website alerts of curriculum changes. Encourage faculty members in every Department to be a part of the VTU BOS - Board of Studies, hence having a greater say in the formation, updation and changes of the syllabus.
Teaching and Learning	Providing lesson plans, study materials, question bank and university question papers to the students in the beginning of the semester. Information regarding academic activities given in advance for Tests, Syllabus Completion, University

	Exam, etc. Formation of administrative groups for curriculum implementation. Conducting technical seminars on regular basis. Arranging guest lectures, industrial visits and training. Discipline monitoring committees both at college level and Department level implement policies ensuring on-time attendance of students, decreased absenteeism, notifying parents, mentoring, etc. Teachers deputed to attend training sessions to improve delivery skills and to enhance their knowledge. Induction training provided for newly recruited faculty.
Admission of Students	Government and that of the affiliating University. The admission process is well defined, transparent and publicized widely to attract students from all over the country. The information of the admission process is disseminated through various media such as engineering and management admission portals, RNSIT website, prospectus, alumni, newspaper advertisements, etc. Admission to UG and PG programmes at RNSIT according to Karnataka government norms is under three categories I. Merit - CET test, II. Payment - COMEDK test and III. Management under NRI quota.
Examination and Evaluation	Test Question paper should cover all the topics in the test portion announced. Design the question paper based on Blooms Taxonomy, should be set to test the skills of applying the knowledge acquired under L3 and L4 levels and also test the memory and understanding capabilities of the students under L1, L2 levels. At the time of question paper setting the scheme and solution should be prepared. Questions are framed to cover maximum part of the syllabus mapped to the Course Outcomes framed. Rubrics developed and updated for all courses including theory, lab, seminar, projects, internships, etc
Library, ICT and Physical Infrastructure / Instrumentation	Library Advisory Committee to periodically evaluate the activities and needs of the Library say, promoting remote accessibility of online resources, On-line renewal facility, etc. Continuous enhancement of Wi-Fi and LAN facilities for accessing the on-line teaching material. Creation and augmentation of Facilities for the use of ICT. Infrastructure Creation and Enhancement- in terms of classrooms, laboratories, staff strength to cater to the current and projected demands. Each Department provided with separate well-equipped laboratories managed by qualified technical staff. Mandatory incorporation of safety features such as First Aid Kit, fire extinguishers, safety rubber mats, Dos and Dents posters in labs, etc.

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

E-governance area	Details
Examination	Online question paper delivery from VTU, printing with high speed printing, online valuation and online results announcements. Also online exam form entry, practical marks entry, internal marks entry, etc.
Planning and Development	1200 LAN connected computers across the campus with Wi - Fi enabled campus for sharing of information, trend analysis, follow-up and future plan of action.
Administration	OTAS - Online Teachers Appraisal System for follow up of teachers performance, student feed back, courses held during the current and previous semesters, etc. with analysis of performance across various departments and entire faculty and students.
Student Admission and Support	VTU online entry with college database, registration of admission, year of study, parents information, etc.
Finance and Accounts	ESIS automated accounting software from Genesis Technologies for tracking payments, receipts and balance of accounts.

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. M T Prathap Kumar	Indian Geotechnical Conference 2018	Indian Geotechnical Society	6000
2018	Smitha M G	International conference on inventive Research in Material Science and Technology ICIRMCT 2018	Inventive Research Organization	5000

6.3.2 - Number of professional development / administrative training programmes organized by the College 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	Number of participants (non-

					(Teaching staff)	teaching staff)
2018	Remote sensing in crop management/ agro- meteorology	NIL	03/12/2018	07/12/2018	11	0
2018	Crowd sourcing and participatory GIS	NIL	21/12/2018	21/12/2018	16	0
2018	Machine Learning	NIL	19/07/2018	21/07/2018	3	0
2018	Web Technology and its Application	NIL	23/07/2018	24/07/2018	2	0
2017	Finite Element method for engineers	NIL	30/01/2017	01/02/2017	29	0
2018	Professional ethics, communication at work place and team skills	Professional ethics, communication at work place and team skills	08/02/2018	09/02/2018	5	140
2018	Primavera and Gis for software application Lab, 15CVL57	NIL	16/03/2018	17/03/2018	30	0

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
Python Programming	14	18/06/2018	20/06/2018	3
Technical talk on Demonstration on API Vs Frame works using Design Patterns by Mr. Arafat, Solution Architect, Huhv Technologies, Bangalore	20	10/02/2018	10/02/2018	1
3-day FDP on Machine learning	85	19/07/2018	21/07/2018	3
2-day FDP on Web technology and its applications	40	23/07/2018	24/07/2018	2
FDP on Computer Networks Laboratory using NS3, NCTUNS and C/Cpp	34	23/01/2018	25/01/2018	3
FDP on Design of Embedded Systems with ARM CortexM3	5	01/01/2018	05/01/2018	5
COE Details	20	07/04/2018	07/04/2018	1
Python Workshop	22	22/01/2018	24/01/2018	3
Technical talk on Cyber Crime and Cyber Law by Mr. S Badrinath, DySP, KSRP, Bengaluru	5	17/02/2018	17/02/2018	1
Short term training on artificial intelligence and medical image processing	1	16/01/2018	21/01/2018	6
FDP on Hardware modelling using Verilog	1	01/08/2018	01/10/2018	56
Faculty enrichment programme on Power system analysis- I	1	23/01/2018	27/01/2018	5
Pedagogy training in technical institutions	1	20/02/2018	24/02/2018	5
Multi domain system modelling and simulation using MODELICA	1	04/06/2018	08/06/2018	5
SMART GRID and IoT	1	18/06/2018	22/06/2018	5
FDP on Student Induction Program	1	21/06/2018	21/06/2018	1
FDP on Python Programming and Applications	34	18/06/2018	20/06/2018	3
FDP on System design using system verilog	1	24/04/2018	27/04/2018	4
FDP on emerging technology in short range wireless communication	1	04/07/2018	05/07/2018	2
Mobile Applications	14	25/07/2018	27/07/2018	3
Python Programming	14	20/07/2018	22/07/2018	3
Orientation Program	5	01/08/2018	01/08/2018	1

6.3.4 - Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time

216	211	131	130
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6.3.5 - Welfare schemes for

Teaching	Non-teaching	Students
Maternity leave, Study leave, Support to attend training programmes, Provident fund, Subsidized transport facility, Subsidized canteen facility, Gratuity, Mediclaim, Fee concession, Vacation, Free parking facility, LIC policies under SSS, etc.	Maternity leave, Study leave, Support to attend training programmes, Provident fund, Subsidized transport facility, Subsidized canteen facility, Gratuity, ESI, Fee concession, Free parking facility, LIC policies under SSS, Uniform, etc.	Subsidized transport facility, Subsidized canteen facility, Fee concession, Free parking facility, Medi-claim, Uniform, Grievance Redressal, sports and cultural incentives, etc.

6.4 - Financial Management and Resource Mobilization

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

All expenses are incurred with proper approval or sanction. Seed money distributed, registration amount generated, expenses incurred and disbursed in each activity say international conferences, fests, FDPs, purchase of consumables, servicing of equipment, etc. undergo regular internal audit. Internal Audit is carried out by the General Manager Finance on a day to day basis. External Audit. An annual audit is done by the statutory auditor BC Shetty and Co. Last audit was done during 2018. The procedures are computerized. There is no cash transactions.

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
RNS Motors	60000	Student Project Exhibition

6.4.3 - Total corpus fund generated

300000

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	NBA, NAAC, LIC, VTU	Yes	IQAC
Administrative	Yes	BC SHETTY, LIC		RNS TRUST, GC

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

Provided constructive and positive feedback during NBA visit. Supported in arranging resource persons during activities such as Gestione, Open House project evaluation, seminars, workshops. Support in obtaining internships, placements, projects, etc.

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

1. Workshop for Improving Photoshop and CorelDraw capabilities. 2. Skill development programs in FEM, CADD 3. Maintenance and servicing awareness program for PCs, UPS

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

1. Streamlined the CO-PO computation across the campus using in-house custom-built computation tool 2. Improved the branding of the Institution by revamping the Institution 3. Resolved to apply for NBA accreditation in the GC meeting

6.5.5 - Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b)Participation in NIRF	Yes
c)ISO certification	No
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
2018	Faculty Quality Improvement Lecture Series	12/03/2018	12/03/2018	14/03/2018	140

CRITERION VII - INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 - Institutional Values and Social Responsibilities

7.1.1 - Gender Equity (Number of gender equity promotion programmes organized by the institution during the year)

Title of the programme	Period from	Period To	Number of Participants	
			Female	Male
BE	13/08/2018	13/09/2018	224	483
BE	03/03/2018	03/03/2018	150	20

7.1.2 - Environmental Consciousness and Sustainability/Alternate Energy initiatives such as:

Percentage of power requirement of the University met by the renewable energy sources
485 kW solar panel Electrical power generating facility meeting 100 percent of total power required

7.1.3 - Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	2
Provision for lift	Yes	4
Ramp/Rails	Yes	4
Rest Rooms	Yes	1
Braille Software/facilities	No	
Scribes for examination	Yes	4
Special skill development for differently abled students	No	

7.1.4 - Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
2018	3	2	15/07/2018	7	1 - Week Health Camp	Health, safety, follow-up, awareness of diagnostic facilities available	75
2018	1	1	09/10/2018	1	Maduramma Ground- An afforestation Drive	Environment protection, greening the surroundings	28
2018	1	1	08/09/2018	25	Kodagu Flood Relief Drive	Donation, helping in distress, natural disaster awareness	500

7.1.5 - Human Values and Professional Ethics Code of conduct (handbooks) for various stakeholders

Title	Date of publication	Follow up(max 100 words)
Self Imposed,	14/09/2018	Both teaching and non-teaching staff members attitude, code of conduct to be followed, ethics expected, behaviour, culture, etc were clearly elaborated by the IQAC team in the faculty meeting. The performance was

Dictated Regulations	evaluated in the academic audit. The human values, ethics and code of conduct even for the IQAC team was elaborated in the publication and followed strictly. Issues such as usage of mobile phones, coming on time, etc were also spelt out and are to be adhered to.
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7.1.6 - Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Engineers Day	15/09/2018	15/09/2018	150
Blood donation Festival	16/06/2018	16/06/2018	492

7.1.7 - Initiatives taken by the institution to make the campus eco-friendly (at least five)

The UPS Batteries were maintained in good condition which reduces charging of batteries.
Electrical equipments are periodically checked and monitored to ensure energy conservation.
Bio waste incinerators provided on every floor of girls hostel for addressing the health and hygiene requirements.
Recycled water is utilized for maintaining green campus. All the gardens have sprinklers installed.
Rain water harvesting is done in all the buildings.
Solid waste management is done through dumping in nearby compost pit.
Use of solar energy initiatives for lighting the campus. A 485 KW solar panel Electrical power generating facility has been commissioned with appropriate control system to synchronize or tie with BESCO grid.
Sewage Water Treatment plant is installed in the campus.
Usage of CFL bulbs in class rooms, Seminar Halls, corridors, washrooms, restrooms etc.
Drain pits are used to sink the water and recharge the ground water table.
Electrical energy is conserved by using solar energy for water heating in all Hostels

7.2 - Best Practices

7.2.1 - Describe at least two institutional best practices

Practice 1 - Transparent, Decentralized, Happy and Conducive Environment Practice 2 - Disciplined Quality Teaching with good Placements
Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link
http://www.rnsit.ac.in/NAAC_SSR_RNSIT_2017.pdf

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>The vision of RNSIT - Building RNSIT into a world-class institution - with the mission of - imparting quality education in Engineering, Technology and Management with a difference, Enabling Students to Excel in their Career is showcased by the performance of RNSIT at national level - wherein TWO accreditation bodies - NAAC and NBA, have both evaluated the performance of RNSIT and awarded a high grade. This achievement is made possible due to the priority and thrust given by RNSIT to the implementation of the above mentioned TWO best practices. In this context, priority was given to I. bringing discipline among Faculty in their profession and foster loyalty to the system, II. Inculcating among students a sense of discipline and belongingness so long they are in the campus and serves as guidelines in their family and future career. III. establishing a disciplined work culture and a system in line with the vision of our Institution. IV. Preparing our students in building character and confidence to take up careers in Science, Engineering and Technology and excel in their career. Evidence of Success is seen in I. Quality students at the entry level II. Admissions through CET and COMED-K getting filled every year quite early. RNSIT is ranked one among top 5 Institutions in Bengaluru and top 10 in VTU. III. Consistent pass percentage - more than 85 percent - as well as the number of University Ranks in UG and PG programmes. IV. Reflected through number of offers and the quality placement and internship. V. More number of students successfully going for higher studies and research in India and abroad. VI. Teaching ability of our teachers is monotonically increasing and they are delivering with more capability and confidence and which is being reflected by almost no complaints either from students or their parents. VII. More than 80 percent of our faculty have obtained their appraisal greater than 85 percent. Another priority and thrust given at RNSIT is in the area of creating a - Transparent, Decentralized, Happy and Conducive Environment. This is achieved by I.</p>

Different committees are formed at college level every year to carryout co-curricular and extra- curricular activities. II. Academic freedom and flexibility to HoDs in developing their departments. III. Various committees are formed in the department like Time Table committee, Test Coordinating committee, Discipline committee, Sports and Cultural committee, mentoring committee, Placement coordination and Research Committee, Project work coordinating committee etc., wherein the members of the committee are empowered to take decisions at their level with the concurrence of HoDs. III. Decentralization and transparent procedures are followed in procurement and maintenance of equipments, tools, softwares required for various departments. IV. Encouragement for research work and submission of proposals for financial assistance This has resulted in the low attrition rate of the faculty, increasing number of Ph. Ds being produced from RNSIT, large number of research proposals being applied and sponsored, students projects being sponsored and winning accolades and prizes at state and national levels.

Provide the weblink of the institution

<http://www.rnsit.ac.in>

8.Future Plans of Actions for Next Academic Year

To conduct the planned second international conference ICRBIT in 2019. ICRBIT, jointly organized by the departments of MBA and MCA is aimed at merging the upcoming fields of data science and management on a single platform. The papers presented in the conference are to be published in the identified journal with high impact factor. To conduct the third edition of the ICDECS 2019