



Yearly Status Report - 2019-2020

Part A

Data of the Institution

1. Name of the Institution	ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY AND SCIENCES
Name of the head of the Institution	T.V. Hanumantha Rao
Designation	Principal
Does the Institution function from own campus	Yes
Phone no/Alternate Phone no.	08933-225084
Mobile no.	9441011735
Registered Email	principal@anits.edu.in
Alternate Email	proftvhrao@anits.edu.in
Address	Anil Neerukonda Institute of Technology & Sciences Sangivalasa, Bheemunipatnam, Visakhapatnam - 531162
City/Town	VISAKHAPATNAM
State/UT	Andhra Pradesh

Pincode	531162																		
2. Institutional Status																			
Autonomous Status (Provide date of Conformant of Autonomous Status)	29-Apr-2015																		
Type of Institution	Co-education																		
Location	Urban																		
Financial Status	Self financed																		
Name of the IQAC co-ordinator/Director	Prof. R. Srikanth																		
Phone no/Alternate Phone no.	08933225083																		
Mobile no.	9848472072																		
Registered Email	srikanth.che@anits.edu.in																		
Alternate Email	iqac@anits.edu.in																		
3. Website Address																			
Web-link of the AQAR: (Previous Academic Year)	https://www.anits.edu.in/naac/AQAR2018-19.pdf																		
4. Whether Academic Calendar prepared during the year	Yes																		
if yes,whether it is uploaded in the institutional website: Weblink :	https://www.anits.edu.in/academic_calendar.php																		
5. Accrediation Details																			
<table border="1"> <thead> <tr> <th rowspan="2">Cycle</th> <th rowspan="2">Grade</th> <th rowspan="2">CGPA</th> <th rowspan="2">Year of Accrediation</th> <th colspan="2">Validity</th> </tr> <tr> <th>Period From</th> <th>Period To</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>A</td> <td>3.01</td> <td>2014</td> <td>24-Dec-2014</td> <td>31-Dec-2020</td> </tr> </tbody> </table>						Cycle	Grade	CGPA	Year of Accrediation	Validity		Period From	Period To	1	A	3.01	2014	24-Dec-2014	31-Dec-2020
Cycle	Grade	CGPA	Year of Accrediation	Validity															
				Period From	Period To														
1	A	3.01	2014	24-Dec-2014	31-Dec-2020														
6. Date of Establishment of IQAC	22-Jan-2014																		
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
Interactive session with Dr. K.C.B Rao	21-Sep-2019 1	33
Google Classroom for Professional Learning	18-Mar-2020 1	33
A Five Day National Level Online FDP on Skill Development for Effective Research and Teaching-Learning Process	18-Mar-2020 5	1292
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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
No Data Entered/Not Applicable!!!				
No Files Uploaded !!!				

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 :

2

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.Academic Audit of the departments: 2. Academic Research 3. eLearning platform
4. Skill development and Training

[View File](#)

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

Plan of Action	Achievements/Outcomes
calculation of COs and POs by including external exam marks	Calculated for the last three academic years
RUBRICS in Assessment of Labs	Assessed successfully in all departments
View File	
14. Whether AQAR was placed before statutory body ?	No
15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	Yes
Date of Visit	02-Aug-2019
16. Whether institutional data submitted to AISHE:	Yes
Year of Submission	2020
Date of Submission	23-Mar-2020
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)	<p>The institution has Management Information System for benefit of students, faculty and smooth functioning of administrative activities in the institute in various critical areas. Student Attendance (Ez School), Fee payment, Examination Section, Library, MOODLE (elearning resource). Student Attendance (Ez School): The student attendance is monitored through Ezschooll software. The faculty upload attendance in EZ school every day in addition to registering attendance in register. The coordinator monitors the attendance of students through department coordinators. If a student is absent on a day, the SMS will be sent to the parents regarding the student absent to the class. The class teacher monitors the class attendance on a monthly basis and the list of students having less attendance is submitted to the HOD and the information is sent to the concerned parent. The usage of the data captured through this software helps in</p>

guiding the students in right direction. Examination Section: The examination section has a robust software which reads OMR sheets, generates report of examination fee details, elective sub allotment details, awarding grades to students, examinations seating plan, and result processing. This aid in transparency of functioning of the examination section and easy access to the students for information regarding examinations and issue of hall tickets and marks memo. Accounting Fee Payment system: The fees payment by students such as the college fees, hostel fees, bus fees and salaries to staff are automated. Almost all payments are through online sticking to the norms of the government. Recently a new and modern corporate office was built to bring all functions under one roof to enhance the quality and efficiency. Library : Our library operations have been computerized using LIBSYS software package. Library Information Centre provides uncompromising information and intellectual requirements to its students and faculty with an user friendly approach. It offers a fully integrated and dynamic environment for conducting academic study. MOODLE (elearning resource): The faculty will upload the syllabus, course plan, lesson plan, course material, conduct quizzes in elearning resource software. The students of the institution have the exclusive authority to access the content provided by the concerned faculty. The faculty have provision to conduct online quizzes and assignments for continuous engagement of students. The faculty can also assess the population size of students participating in the quizzes and assignments.

Part B

CRITERION I – CURRICULAR ASPECTS

1.1 – Curriculum Design and Development

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

Name of Programme	Programme Code	Programme Specialization	Date of Revision
BTech	EEE	Electrical & Electronics Engineering	30/03/2019

BTech	IT	Information Technology	30/03/2019
BTech	MEC	Mechanical Engineering	30/03/2019
BTech	ECE	Electronics & Communication Engineering	30/03/2019
BTech	CSE	Computer Science & Engineering	30/03/2019
BTech	CIV	Civil Engineering	30/03/2019
BTech	CHE	Chemical Engineering	30/03/2019
Mtech	Machine Design	Machine Design	30/03/2019
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1.1.2 – Programmes/ courses focussed on employability/ entrepreneurship/ skill development during the Academic year

Programme with Code	Programme Specialization	Date of Introduction	Course with Code	Date of Introduction
BTech	Chemical Engineering	30/03/2019	CHE 115	30/03/2019
BTech	Civil Engineering	30/03/2019	CIV114	30/03/2019
BTech	Electronics & Communication Engineering	30/03/2019	ECE 124	30/03/2019
BTech	Mechanical Engineering	30/03/2019	MEC123	30/03/2019
Mtech	Machine Design	30/03/2019	MECMD111	30/03/2019
View File				

1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the Academic year

Programme/Course	Programme Specialization	Dates of Introduction
BTech	All Branches	30/03/2019
BTech	All Branches	30/03/2019
BTech	Machine Design	30/03/2019
BTech	Machine Design	30/03/2019
BTech	Mechanical Engineering	30/03/2019
BTech	Mechanical Engineering	30/03/2019
BTech	Information Technology	30/03/2019
BTech	Electronics & Communication Engineering	30/03/2019
BTech	Electronics & Communication Engineering	30/03/2019
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1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective Course System implemented at the College level during the Academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
BTech	Electronics and Communication Engineering	30/03/2019
BTech	Electrical and Electronics Engineering	30/03/2019
BTech	Computer Science & Engineering	30/03/2019
BTech	Information Technology	30/03/2019
BTech	Mechanical Engineering	30/03/2019
BTech	Civil Engineering	30/03/2019
BTech	Chemical Engineering	30/03/2019
Mtech	Communication Systems	30/03/2019
Mtech	Control Systems	30/03/2019
Mtech	Computer Science and Technology	30/03/2019
Mtech	Soil Mechanics	30/03/2019
Mtech	Biotechnology	30/03/2019
Mtech	Machine Design	30/03/2019

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
SUMMER CRT-TRAINING	30/03/2019	1158
HANDS ON TRAINING SESSION ON MATLAB TOOL	30/03/2019	49
PHYTHON PROGRAMMING	30/03/2019	47
CCC Phase II	30/03/2019	35
Problem Solving Skills Using Python phase-1 2 (APSSDC)	30/03/2019	197
Data structure and Python (Talentio)	30/03/2019	161
30 hour program in Scoping, Auditing and Analysis of Data Science Projects (insofy)	30/03/2019	14
Problem solving skills using 'Python' (APSSDC)	30/03/2019	223
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1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
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BTech	Chemical Engineering	52
BTech	Civil Engineering	65
BTech	Computer Science & Engineering	210
BTech	Electronics & Communication Engineering	202
BTech	Electrical & Electronics Engineering	190
BTech	Information Technology	114
BTech	Mechanical Engineering	260
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1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	No
Alumni	No
Parents	No

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

Feedback Obtained
<p>The institute has a well structured feedback system from various stakeholders at the department level and at the institute level. This includes feedback from students, faculty, employers, alumni, parents etc... The student feedback on faculty is taken anonymously twice in a semester which gives an assessment of various parameters related to class room learning. The student feedback on faculty is assessed by HOD who gives suggestions to the faculty on specific parameters to improve. In the Class Review Committee (CRC) meetings, the feedback is taken from selected students to identify any gaps in syllabus coverage, issues related to teaching and learning etc. and necessary steps will be taken by HoD to rectify such issues. Exit feedback is taken from the outgoing students of final year on various aspects such as facilities, curricular aspects etc., and the departments will scrutinize the feedbacks and necessary measures are taken accordingly. The feedback from the Alumni is taken at regular interval to identify the curriculum gaps basing on their experience on latest technological advances and needs of the industry. The feedback from the recruiters / employers is taken at regular intervals on student performance on technical and interpersonal skills. This will help the respective departments to understand the needs and revive the syllabus contents, improvise the training programmes. Feedback from students and faculty on library resources and services is taken once in a year and necessary action is taken based on the suggestions. Parents feedback is also collected by the departments to improve the facilities. At central level, survey is conducted on facilities and experience in the campus from the students and faculty. This is administered online once in a year and also through suggestion boxes. The data is analyzed and appropriate action is taken on relevant issues. The feedback from various stakeholders such as exit, employers, recruiter and alumni, is used to measure the attainment of program outcomes and the departments will take necessary measures to enhance the attainment of those outcomes and thus the graduate attributes</p>

CRITERION II – TEACHING- LEARNING AND EVALUATION**2.1 – Student Enrolment and Profile**

2.1.1 – Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
Mtech	Computer Science & Technology	18	Nil	Nil
Mtech	Control Systems	18	Nil	Nil
Mtech	Communication Systems	18	4	2
BTech	Mechanical Engineering	257	226	208
BTech	Information Technology	193	192	192
BTech	Electrical & Electronics Engineering	193	154	131
BTech	Electronics & Communication Engineering	193	187	187
BTech	Computer Science & Engineering	192	192	192
BTech	Civil Engineering	64	52	44
BTech	Chemical Engineering	64	26	20

[View File](#)**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
2019	4368	18	237	18	255

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
255	255	4	79	Nil	4

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

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

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

ANITS strongly believe in mentoring engineering students which helps a student realize his or her professional goals and aspirations which are lifelong. In ANITS students are being mentored to improve their performance in academics and nonacademic activities for overall personality development of the individual. About 15 students will be allotted to each faculty who will act as a counselor/ mentor to the students. The faculty regularly interacts with the students and normally the frequency of meeting is twice in a semester or as and when required. The proctor files are maintained by the faculty which gives the complete academic details of the students. Mentoring includes improving the performance in the course work, student's attendance, encouraging them to attend conferences, workshops organized at other institutes, participation in extracurricular activities, career guidance and any other problems faced by the students. Outcome of mentoring. The mentoring helped the students in identifying their weakness and aided in improving their technical and nontechnical skills. The visible outcome of such counseling was observed in improvement of participation in various national technical symposia, workshops and also in extracurricular activities. The mentoring also helped in the improvement of attendance, mid and external marks. Pre-placement /Career guidance. One faculty member of the department has been assigned to guide the students regarding Training and Placement activities. The faculty member interacts with final year students and counsels them on higher education and also organize seminars delivered by experts.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
4386	255	1:17

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
231	255	Nil	33	73

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
2020	Ms.Ch.Anoosha	Assistant Professor	Summer Faculty Research Fellow Programme (SFRFP)-2020 (National) by IIT Delhi
2020	Ms. M. Nirmala	Assistant Professor	Summer Faculty Research Fellow Programme (SFRFP)-2020 (National) by IIT Delhi
2020	Mr.R.Chandra Sekhar	Assistant Professor	Summer Faculty Research Fellow Programme (SFRFP)-2020 (National) by IIT Delhi

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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
Mtech	MECMD	I-II, 2019-20	09/11/2020	24/11/2020
Mtech	MTCS	I-II, 2019-20	09/11/2020	24/11/2020
BTech	MEC	IV-II, 2019-20	16/09/2020	23/09/2020
BTech	IT	IV-II, 2019-20	16/09/2020	23/09/2020
BTech	ECE	IV-II, 2019-20	16/09/2020	23/09/2020
BTech	EEE	IV-II, 2019-20	16/09/2020	23/09/2020
BTech	CSE	IV-II, 2019-20	16/09/2020	23/09/2020
BTech	CIV	IV-II, 2019-20	16/09/2020	23/09/2020
BTech	CHE	IV-II, 2019-20	16/09/2020	23/09/2020

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

Number of complaints or grievances about evaluation	Total number of students appeared in the examination	Percentage
83	8702	0.09

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://anits.edu.in/naac/copo.php>

2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
CoS	Mtech	Control Systems	4	4	100.00
CS	Mtech	Communication Systems	2	2	100.00
MD	Mtech	Machine Design	5	5	100.00

MEC	BTech	Mechanical Engineering	258	211	81.78
IT	BTech	Information Technology	114	95	83.33
ECE	BTech	Electronics & Communication Engineering	196	143	72.96
EEE	BTech	Electrical & Electronics Engineering	201	174	86.57
CSE	BTech	Computer Science & Engineering	209	187	89.47
CIV	BTech	Civil Engineering	65	54	83.08
CHE	BTech	Chemical Engineering	52	47	90.38
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2.7 – Student Satisfaction Survey

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

<https://www.anits.edu.in/naac.php>

CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

3.1 – Promotion of Research and Facilities

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

No

No file uploaded.

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

Type	Name of the teacher awarded the fellowship	Name of the award	Date of award	Awarding agency
National	Ms.Ch.Anoosha	Summer Faculty Research Fellow Programme (SFRFP)-2020 (National)	12/06/2020	IIT Delhi
National	Ms.M.Nirmala	Summer Faculty Research Fellow Programme (SFRFP)-2020 (National)	12/06/2020	IIT Delhi
National	Mr.R.Chandra	Summer	12/06/2020	IIT Delhi

	Sekhar	Faculty Research Fellow Programme (SFRFP)-2020 (National)	
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3.2 – Resource Mobilization for Research

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

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
Any Other (Specify)	7	AICTE	1	1
Any Other (Specify)	18	AICTE-ISTE	2.79	0
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3.2.2 – Number of ongoing research projects per teacher funded by government and non-government agencies during the years

0

3.3 – Innovation Ecosystem

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

Title of workshop/seminar	Name of the Dept.	Date
APSSDC Python Training for III Years During	Civil Engineering	03/02/2020
Guest Lecture on "DATABASE DESIGN AND PROGRAMMING WITH SQL"	CSE	14/11/2019
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3.3.2 – Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
No Data Entered/Not Applicable !!!				
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3.3.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsored By	Name of the Start-up	Nature of Start-up	Date of Commencement
No Data Entered/Not Applicable !!!					
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3.4 – Research Publications and Awards

3.4.1 – Ph. Ds awarded during the year

Name of the Department	Number of PhD's Awarded
Electronics Communication Engineering	3
Mechanical Engineering	3
Electrical Electronics Engineering	3

Civil Engineering	1
Chemistry	1

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

Type	Department	Number of Publication	Average Impact Factor (if any)
International	Mechanical Engineering	57	Null
International	Information Technology	25	Null
International	Electrical and Electronics Engineering	27	Null
International	Electronics and Communication Engineering	77	Null
International	Computer Science and Engineering	68	Null
International	Civil Engineering	8	Null
International	Chemical Engineering	5	Null
International	Physics	3	Null
International	Mathematics	11	Null
International	English	4	Null
View File			

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

Department	Number of Publication
Electronics and Communication Engineering	14
Electrical and Electronics Engineering	7
Information Technology	3
Computer Science and Engineering	11
Chemical Engineering	2
Mechanical Engineering	4
Mathematics	10
Physics	2
Chemistry	1
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3.4.4 – Patents published/awarded during the year

Patent Details	Patent status	Patent Number	Date of Award
System and Method for Dynamic Group Key Agreement based	Published	202041020444	29/05/2020

on Blockchain Smart”			
INTELLIGENT SELF-DRIVEN MULTIPLE SHARED KEY ALGORITHM (NSB ALGORITHM)	Filed	4899/2020/CO/L	20/05/2020
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3.4.5 – Bibliometrics of the publications during the last academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
GaN-based high electron mobility transistors for high power and high frequency application: A Review	P. Murugapandiyan V. Rajya LakshmiN. Ramkumar	Springer Lecture Notes in Networks and Systems 107, April, 2020	2019	2	Anil Neerukonda Institute of Technology and Sciences	2
An IOT Based Patient Monitoring System	Dr.V.Suresh	IJRAR (International Journal Of Research And Analytical Reviews)	2019	3	Anil Neerukonda Institute of Technology and Sciences	3
Detection of Anomalies in Human Action Using Optical Flow and Gradient Tensor	Soumya Ranjan Mishra	Smart Intelligent Computing and Applications	2019	3	ANITS	3
A Hybrid Approach for Image Security by Combining Encryption and Steganography	G.Gayatri	Journal of Emerging Technologies and Innovative Research (JETIR)	2019	3	Anil Neerukonda Institute Of Technology And Sciences	3

experimental investigation to optimize tool performance in high-speed drilling: A Comparative study	B.Srinivas Prasad, DSS Ravi kiran	Journal of the brazilian society of mechanical sciences and engineering	2019	4	ANITS	4
A provably secure cluster-based hybrid hierarchical group key agreement for large wireless ad hoc networks	Dr.R.Sivaranjani	Human Centric Computing and Information Science	2019	4	Anil Neerukonda Institute of Technology Science	5
Properties Of Razumikhin Class Of Functions And Ppf Dependent Fixed Points Of Weakly Contractive Type Maps	Mr. M. Vinod Kumar	Bull. Of International Mathematical Virtual Institute	2019	5	Anil Neerukonda Institute of Technology and Science	5
Price based fuzzy automatic generation control for Indian tariff system	Dr. V. Murali	Journal of Energy Systems (Springer)	2019	5	Anil Neerukonda Institute of Technology Sciences (A)	5
Kaluza-Klein dark energy model in Lyra manifold in the presence of massive scalar field	Mr. K. Deniel Raju	Astrophys Space Sci.	2019	6	ANITS (A)	6

A differential evolutionary adaptive Harris hawks optimization for two dimensional practical Masi entropy-based multilevel image thresholding	Mr. B. Jena	Journal of King Saud University – Computer and Information Sciences (Elsevier)	2019	6	Anil Neerukonda Institute of Technology Science	6
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3.4.6 – h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
A New Framework for Ensembling of Text Clustering Data	Dr.M.Ram akrishna Murty`	Journal of Emerging Technologies and Innovative Research (JETIR)	2019	8	Nil	Anil Neerukonda Institute of Technology and Sciences
Kantowski-Sachs bulk viscous string cosmological model in f(R) theory of gravity	Dr. Y. Aditya	Journal of Physics: Conference Series 1344	2019	13	Nil	ANITS(A)

[View File](#)

3.4.7 – Faculty participation in Seminars/Conferences and Symposia during the year

Number of Faculty	International	National	State	Local
Resource persons	Nil	6	Nil	Nil
Presented papers	19	Nil	Nil	Nil
Attended/Seminars/Workshops	Nil	79	Nil	Nil

[View File](#)

3.5 – Consultancy

3.5.1 – Revenue generated from Consultancy during the year

Name of the Consultan(s) department	Name of consultancy project	Consulting/Sponsoring Agency	Revenue generated (amount in rupees)
Nil	Nil	Nil	0
No file uploaded.			

3.5.2 – Revenue generated from Corporate Training by the institution during the year

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

3.6 – Extension Activities

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

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
Blood Donation under ANITS Life share Blood Bank	Civil Engineering, IT, Mechanical Engg	3	19
Household survey, Unnat Bharat Abhiyan	Civil Engineering, IT, Mechanical Engg	4	21
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3.6.2 – Awards and recognition received for extension activities from Government and other recognized bodies during the year

Name of the activity	Award/Recognition	Awarding Bodies	Number of students Benefited
LIFE SAVING ACTIVITY (Blood donation Camp)	HIGHEST BLOOD DONATION CAMPS (250 UNITS) ANITS	LIONS CLUB (Visakhapatnam)	100
LIFE SAVING ACTIVITY (Blood donation Camp)	Good Blood donation camps ANITS	LIFE SHARE BLOOD BANK (VSKP)	30
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3.6.3 – Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activities	Number of students participated in such activities
SWATCH ANITS	All departments	SWATCH ANITS	3	220
Plastic Ban Rally	ECE, Mechanical Engg	Plastic Ban Rally	4	55
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3.7 – Collaborations

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

Nature of activity	Participant	Source of financial support	Duration
Joint Research Paper Publication	Ch.V.N.Raja, Vegi Kovida, K. Rama Sudha (Andhra University)	Self Finance	Nil
Joint Research Paper Publication	P. D.V. Seshasai, Ch. V. N. Raja and G. Anand (Dr. L. Bullayya College for Engineering)	Self Finance	Nil
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3.7.2 – Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
Job Training	Job Training	OPS RAMP	09/09/2019	09/03/2020	Shiv Shankar Singh
View File					

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

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
Aaharya Technologies, Eluru	30/12/2019	Students projects, Guest Lectures, Training, Conduct of workshops, Value added programs	100
Veedhantha Bio-Tech	14/11/2019	Guest Lectures, Training, Conduct of workshops, Value added programs	10
National Research Development Corporation	13/11/2019	Guest Lectures, Technology Development and transfer	100
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CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

4.1 – Physical Facilities

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

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
510	476.5

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Others	Newly Added
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Newly Added
Class rooms	Newly Added
View File	

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 partially)	Version	Year of automation
LIBSYS	Partially	4.0	2007

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	30518	9098374	728	318206	31246	9416580
Reference Books	8435	2513630	33	14421	8468	2528051
Journals	582	2005000	91	205022	673	2210022
e-Journals	Nill	Nill	511	1400000	511	1400000
CD & Video	2666	Nill	Nill	Nill	2666	Nill
Library Automation	Nill	150000	Nill	Nill	Nill	150000
Digital Database	Nill	Nill	2	87230	2	87230
Others(s pecify)	Nill	Nill	1	109452	1	109452
Others(s pecify)	504	Nill	173	Nill	677	Nill
Others(s pecify)	698	Nill	Nill	Nill	698	Nill
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4.2.3 – E-content developed by teachers such as: e-PG- Pathshala, CEC (under e-PG- Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
S. JOSHUA JOHNSON	18 video Lecture for CN	Youtube Video format	24/05/2020
Prof. R. Srikanth	Heat Transfer	Youtube Video	26/05/2020

Gate classes

format

[View File](#)**4.3 – IT Infrastructure**

4.3.1 – Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MBPS/GBPS)	Others
Existing	901	15	0	7	0	10	171	100	34
Added	220	0	0	0	0	0	0	0	0
Total	1121	15	0	7	0	10	171	100	34

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
Media center	https://www.anits.edu.in/econdev.php
Audio visual centre	https://www.anits.edu.in/econdev.php
Lecture Capturing System(LCS)	https://www.anits.edu.in/econdev.php
Mixing equipments and softwares for editing	https://www.anits.edu.in/econdev.php
Moodle	http://52.66.30.236/moodle/

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
262.07	245.56	157.8	178.42

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)

General maintenance of physical facilities such as buildings and other utility services: The central maintenance department looks after the maintenance of buildings, various utilities such as water, plumbing, electrical, carpentry and other related issues. The routine cleaning of classrooms, washrooms and roads will be done as per the schedule given to the staff. Maintenance department perform routine checks and preventive maintenance as scheduled. Each block houses a specific department and the maintenance works related issues of such department will be raised by the concerned faculty / lab technician who is member of amenities committee. Once HoD forwards such complaint, same is sent to maintenance office through administrative office. The work allocation will be done by the central maintenance department and when the work is completed the concerned authority will certify the work completion sheet. Emergency maintenance shall be coordinated and the report can directly be sent to maintenance department. Maintenance of computer systems, networking,

and internet facilities: A CDM cell is constituted in the institute to look after all the issues related to maintenance of computers, networking and internet facility. The CDM cell is headed by HoD of CSE department. Two technically competent staff are working in the cell. Basing on the complaint raised by each department the technical personnel will resolve the issue. If any new component is required, indent will be raised by the CDM cell and the same will be sent to purchase department. Once the material is received and the issue is resolved the work completion details will be provided by the CDM cell.

Library Services: The library has various procedures for using the library services such as Admission to Library, Working Hours of the Library circulation Issue System, Overdue Charges, Book Lost, Book Bank for SC/ST students, internet accessibility and journals accessibility. The complete details are available in the institute's web site and the URL is

<http://library.anits.edu.in/librules.php> **Laboratories:** The laboratory faculty incharges and technicians of the lab ensure regular maintenance and the equipment are in good working condition such that the regular academic processes run smoothly. Calibration of equipment is done periodically. If any new component is required, indent will be raised by the respective department as approved by respective HoD and the same will be sent to purchase department by the administrative office. Once the material is received and the issue is resolved the work completion details will be provided by the respective department to the accounting section to complete the purchase and payment process to the vendors.

<https://anits.edu.in/naac/4.4.2%20Stockverification%20and%20maintainence%20proofs.pdf>

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	Medals Cash prizes for toppers	123	777685
Financial Support from Other Sources			
a) National	Fee Reimbursement by state Govt.	2337	129808000
b) International	Nil	Nil	Nil
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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
Induction Programme on Stress Strain Management	28/08/2019	100	Sister Madhuri Brahma Kumaris, Visakhapatnam, CEO, The TechIntern Inc
Seminar on "4 th Industrial Revolution - Tech Trends 2019-20	24/01/2020	360	Sri K.Rajeswara Rao ,CEO coach, Member of board of advisory- Datawise, Bangalore
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5.1.3 – Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passed in the comp. exam	Number of students placed
2019	CCC Training program phase - II	Nil	750	Nil	262
2019	PRE PLACEMENT TRAINING	Nil	800	Nil	103

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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	10

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
Infosys Ltd	800	221	TCS (Ninja, NQT, Digital)	400	155

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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
No Data Entered/Not Applicable !!!					

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5.2.3 – Students qualifying in state/ national/ international level examinations during the year (eg:NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

Items	Number of students selected/ qualifying
GATE	36
CAT	1
GRE	1
Any Other	16

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

Activity	Level	Number of Participants
VINIRMITHI2020	National	25
CURSORS 2020	National	25
IGNITION-2K20	National	133
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5.3 – Student Participation and Activities

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

Year	Name of the award/medal	National/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2019	1st Prize	National	1	Nil	31812650 8018	K.Purnesh
2019	2nd Prize	National	1	Nil	31712650 8028,	K.Srikar Daniel
2020	Runners	National	1	Nil	31812651 0075	G. Pavan Teja
2020	Silver Medal	National	1	Nil	31912651 11181	Ms. S. Vyshnavi
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5.3.2 – Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

The Institute creates a platform for the active participation of the students in the various academic and administrative bodies including other activities. This empowers the students in gaining leadership qualities, in following rules, regulations and execution of skills. Student Councils are actively participating and organizing various activities related to academics, co-curricular and Extra-curricular activities, with the guidance of faculty. They are providing great support to college related academic / administrative work with the help of other students. They are actively involving in motivating the students to participate in various activities conducted by the college. Students are encouraged to participate in co-curricular and extra-curricular activities in inter-college, inter-university and in National level competitions. Institute has constituted various other committees to involve in different academic and administrative activities in campus apart from the Student Council. College is very keen in encouraging students to participate in various academic and administrative committees. It improves the academic and administrative capabilities of a student. The various student council and representative committees in ANITS are following: Students' representation and engagement in Class Representative Committee (CRC) as elected CR and selected CR Students' representation and engagement in Professional Societies student chapters are Indian Society for Technical Education (ISTE), Institution of Engineers (IE), Institution of Electronics and Telecommunication Engineers (IETE), Association for Computing Machinery (ACM), Computer Society of India (CSI) etc. student chapters as Student Member for co-curricular activities 1. Students' representation and engagement in NSS committee as volunteers 2. Students' representation and engagement in NCC committee as volunteers 3. Students' representation and engagement in Club Activities as Student In-Charge facilitator and Student Assistant In-Charge Facilitator for co-curricular and

extracurricular activities 4. Students' representation and engagement in Alumni Activity committee as members 5. Students' representation and engagement in Anti Ragging committee as representatives of students belonging to the freshers' category as well as senior students Various Clubs are established in our institution and name of the Club Categories are: i). Cultural Clubs: Singing Club, Musical Instruments Club, Drama /Mono action/Skit Club Mime/Mimicry Club, Dance Club: a) Classical Dance b) Western Dance ii). Literary Clubs: Debate Club, Orators / Toastmasters Club, Quiz Club and Poetry Club iii). Art Clubs: Painting Club, Photography Club and Pottery Club iv). Sports Games Clubs: Basket Ball Club, Throw Ball Club, Tennis Club, Chess Club, Table Tennis Club, Volley Ball Club, Foot ball Club and Cricket Club, v). Technical Clubs: Robotics Club

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

The Alumni are of great strength to the institution. An active alumni association can contribute in academic matters, student support as well as mobilization of resources - both financial and non-financial. The institution nurtures the alumni association/chapters to facilitate them to contribute significantly to the development of the institution. ANITS Alumni Association (AAA) is a registered body (Regd. No:1789 /2006) various members to engage, execute and enhance various activities of the association. Alumni are connected to the alma mater, faculty and students through web and other social media. The association provides a focal point of contact to interact and network with each other as well as with the alma mater. The alumni association of the institute is the conglomeration of leaders, entrepreneurs, social entrepreneurs, professionals and bureaucrats catering to the society in various designations. Alumni meet is organized at regular intervals. Alumni as members of BOS in all departments provide feedback for curriculum improvement to meet the demands of industry. They also contribute as mentors during the campus recruitment drives and organize mock-interviews and help the students in placements and career guidance. They also interact with students by giving guest lectures and guide their juniors on various professional avenues available, enlightening them about bridging the gap between industry requirements and regular academics and thus enhance students' perspective on the real time situations.

5.4.2 – No. of registered Alumni:

2103

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

0

5.4.4 – Meetings/activities organized by Alumni Association :

8

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)

Practice 1: Academic related activities Every individual department has academic planning and monitoring committee, board of studies to plan and execute the curriculum and its implementation. Individual teachers have academic freedom to frame their individual lesson plan and implement. Practice 2: Professional bodies and student clubs: Students have liberty to form student

clubs and be part of professional chapters of their interest. Students form small groups to organize different curricular, co-curricular and extra-curricular activities. Extension activities are also carried out with the help of institute NSS and Unnat Bharat Abhiyan.

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

Partial

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
<p>Examination and Evaluation</p>	<p>Regular system for assessment: The Institute follows semester system for both B.Tech and M. Tech programmes and the performance of a student in each semester shall be evaluated subject wise with a maximum of 100 marks for theory and 100 marks for the practical subjects. In addition to the theory and practical subjects, an industry oriented mini - project and project work will be done by student. The curriculum for B. Tech programme is designed for 160 credits and M. Tech programme for 74 credits in tune to AICTE guidelines. First class with Distinction will be awarded only to those students who clear all the subjects of the programme in first attempt of regular examinations. The challenge evaluation system and showing the evaluated answer script to the student are the measures taken as a part of the transparency in the evaluation system. Strict adherence to the Institute academic calendar and timely publication of results. Question paper is thoroughly scrutinized to ensure the standard, spread of the syllabus and mapping of COs and following BLOOMS taxonomy. Continuous internal assessment system The Continuous Internal Evaluation (CIE) marks / internal marks for all courses per semester are shown to individual students to ensure transparency. Two mid semester exams, two assignment tests and quizzes are conducted for each paper of the subject in each semester. Mid examinations shall be conducted for duration of 120 minutes and carry 20 marks The results are placed in college website. After completion of every CIE test, the Principal reviews student performance with Heads of Departments and in the presence of the Controller of</p>

Examinations. To improve student performance, remedial classes are arranged wherever required.

Curriculum Development

ANITS has become autonomous in 2015 and the institute is having systematic processes and procedures to design, delivery, documentation and improvisation of the curriculum. ? The curricular needs of the industry and society is discussed initially at the departments level by the Academic planning and monitoring committee (APMC). ? Then it was put up for the Board of studies approval which consists of good blend of all stake holders with experts from academia, industry, alumni etc. The same will be put up for the approval of Academic Council and the Governing body. ? Each department plans and prepares an academic calendar which provides details of class work, exam schedules and other cocurricular activities like guest lectures, industrial visits and shortterm courses before the commencement of the academic activities in the department is line with institutional academic calender. ?After taking into cognizance basing on the competency choice of the faculty and after discussions in faculty meetings headed by HoD, the courses are assigned to the faculty. ? Once the courses are finalized the faculty will submit the course / lesson plans before the commencement of each semester. ? All the courses are provided with Course Outcomes and ensured to map with Programme Outcomes in tune to good practices of Outcome Based Education. ? The course objectives and outcomes, tutorials and content beyond the syllabus are mentioned in the course plan. ? The class lecture notes, assignments, quizzes, CO /PO attainment levels, Q papers etc., are maintained by the faculty in their course files in a systematic manner. ? To ensure continuous learning the relevant contents uploaded by the faculty in MOODLE software maintained by the institute. ? The institute conducts two mid exams and the average of two is considered for 50 weightage of internal marks. The other 50 weightage is given for assignments, attendance and activity which includes mini projects, seminars, prototype models etc. ? Two

Class Review Committees (CRC) will meet before the midexaminations to identify any gaps in syllabus coverage, issues related to teaching and learning etc. and necessary steps will be taken by HoD to rectify such issues. ? The mid question paper committee in the respective department looks after the standard of question paper which includes blooms taxonomy and course outcome. ? The remedial classes are conducted for academically weak students after mid examinations to improve their performance. ? The final/external paper is verified to check the consistency by the moderator/subject expert nominated by HOD. ? The labs and projects are conducted and the performance of students is evaluated through continuous assessment where rubrics is used as an assessment tool. ? The institute has well administered proctorial system which takes care of attendance, academic progress of students and cocurricular extracurricular activities. ? The Internal Quality Assurance Cell (IQAC)of the institute organizes internal audit to check and recommend various measures to be taken to enhance the overall quality.

Teaching and Learning

ANITS strongly believes in the student centered teaching learning process. In addition to the traditional teaching learning process, some of the novel learning strategies are included in a comprehensive approach include self directed learning (working out case studies), cooperative learning (team activities and group exercises), behavioral rehearsal(individual seminars and presentations), peer education and parent involvement. The department has an academic calendar based on the college academic calendar, which comprises of curricular, co-curricular and extracurricular events. The subjects are allocated based on (i) faculty competency and (ii) the outcome of the faculty meeting. The course plan for each subject is prepared by the faculty well in advance (preferably one week before the commencement of the semester). The lecture material, tutorials assignments are uploaded in the inhouse esoftware for the access to the students. The MID and end semester

question papers, content beyond syllabus and sample scripts are filed in the course file. Computational tools are also use incorporated in teaching learning practice to enhance the understanding of students. Tutorials are allocated in the timetable itself and besides the regular faculty another faculty is assigned to help the students to improve their knowledge further on the subject.

Library, ICT and Physical Infrastructure / Instrumentation

Library Our library operations have been computerized using LIBSYS softwarepackage. Library Information Centre provides uncompromising information and intellectual requirements to its students and faculty with an userfriendly approach. It offers a fully integrated and dynamic environment for conducting academic study. Library Committee: The library Committee headed by librarian and chaired by Principal convenes a meeting twice in a year. The students give suggestions in the requirement of books for preparing competitive exams, library timings, the ambience of library and overall improvement of library facilities. MOODLE (elearning resource): The faculty will upload the syllabus, course plan, lesson plan, course material, conduct quizzes in elearning resource software. The students of the institution have the exclusive authority to access the content provided by the concerned faculty. The faculty have provision to conduct online quizzes and assignments for continuous engagement of students. The faculty can also assess the population size of students participating in the quizzes and assignments. • In addition to the central library, every department has its own departmental library. The Library has high speed Internet facility for 40 Systems with 100 Mbps dedicated network. All the Student and Staff Members can use the facility on Library working hours. All The EJournals and articles can be downloaded in the Browsing Centre. For using the Browsing service. It has also developed a fullfledged Digital Library equipped with necessary modem equipment in order to provide various digital mode Library services. NPTEL facility (National Programme on Technology

Enhanced Learning) to access video lectures Digital Library section of the Central Library has developed an institutional digital repository using open source software D Space, which preserve the institutes intellectual output for campus wide access and digital preservation for the posterity. Class rooms are well equipped with LCD projectors.

Admission of Students

The EAMCET Engineering and Medical Common Entrance Test convener fills up 70 (Category A) of the seats in the Institute by allotting the candidates to this institute on the basis of their choice, their EAMCET ranks and the reservation policy of the Govt. of Andhra Pradesh. The remaining 30 (Category B) of the seats are filled up by the Institute under the Management /NRI quota • The convener of ECET admits 10 of the sanctioned intake for each program for admission directly into the II year of the 4year B.E/B.Tech program

Industry Interaction / Collaboration

Industry Interaction / Collaboration
 • Potential industries for summer training are contacted and students are deputed to various industries for summer training. MOUs are signed with a few industries which offer summer training. Industrial visits are organized to expose the students with the environment at site and modern trends that are taking place in construction industry.

Human Resource Management

Transparent and scientific way of selections. • Imparting related training. • Systematic performance appraisal system and guidance to the people concerned. • Systematic promotion policies. Democratic way of administration with participative management.

Research and Development

In addition to teaching ANITS acknowledges research, consultancy, patents and innovations as major thrust areas . The increase in the number of research publications, FDPs organized by the institute and participation in FDPs/STTPs/Conferences by the faculty during the last five years is a representation of ANITS in its commitment towards research. To promote research ecosystem, the institute arranges guest lectures by prominent

researchers and signed MOUs with renowned organizations like NRDC, Infosys, NHAI etc. The labs are modernized through the MODROBS scheme and financial assistance from the industries. The RD committee consisting of faculty coordinators from various departments of the institute meets quarterly to discuss the progress of research activities of faculty and students of ANITS. The committee constantly monitors and records the RD activities and motivates the faculty members to do cutting edge research. At the department level the faculty form research groups depending on their research domain and meet once in a week to discuss the recent advances in their respective research areas. To promote interdisciplinary research the faculty from other departments are also invited for research talks. The management of ANITS encourages the faculty and students in carrying out active research by providing support such as: Study leave with salary for the faculty pursuing PhD under QIP Financial assistance to attend conferences and workshops in India and abroad Cash incentive for publishing good quality papers in International Journals. Providing necessary infrastructure and technical support Academic leaves for research work Supporting measures for patent filing Continuous augmentation of labs with state of art equipment and software

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

E-governance area	Details
Administration	An Administrative software is purchased from CRYSTAL HR AND SECURITY SOLUTIONS PVT LTD, so that all the HR related activities are processed through the software.
Finance and Accounts	All financial-related activities processed through above software like pay slips, salary statements etc.
Student Admission and Support	A E-Governance system is available for student support and administration like fee collection, student reports like attendance particulars are sent through messages.
Examination	A dedicated software (BeeS Software Solutions Pvt.Ltd) is available for conducting of examinations works like

generation of hall tickets, result declaration etc.

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
2020	Dr B.Hymavathi	International Conference on Material Science and Mechanical Engineering on 7th to 9th February	Nill	5000
2020	Nishant Patnaik	Internatinal Conference - Comparative Analysis of Control Design for Undertain MIMO Systems in EEE 5th International Conference on Devices Circuits and Systems for Registration Fee	Nill	5000
2020	Prof G Raja Rao	Internatinal Conference - Comparative Analysis of Control Design for Undertain MIMO Systems in EEE 5th International Conference on Devices Circuits and Systems for Registration Fee	Nill	5000
2020	Dr.P.Viswarup achary	International Conference in ICMS-2020, Tirupura Central University	Nill	4000
2020		International	Nill	3000

	Dr.K.Srinivasa Rao	conference organised by Ch.S.D.St. Theresa's college, Autonomous, Eluru	
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6.3.2 – Number of professional development / administrative training programmes organized by the Colleges for teaching and non teaching staff during the year

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
2019	AICTE-STTP on 'Restructured Power System Modelling Simulation'	Nil	26/08/2019	31/08/2019	40	Nil
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6.3.3 – No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
Accreditation and Outcome based learning	15	01/08/2019	01/10/2019	60
Geo Spatial Analysis in Urban Planning during	1	01/01/2020	02/01/2020	2
Examination reforms	1	15/04/2020	18/04/2020	4
Data Analysis for Modeling of Chemical and Biochemical Reaction systems: Theory and Practice	1	02/12/2019	07/12/2019	6
FDP on Artificial Intelligence, National Youth Council of India-ANITS	1	22/05/2020	26/05/2020	6

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

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
33	33	5	5

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
Medi Claim, Concession in ANES Hospitals	Medi claim, ESI facility, Concession in ANES Hospitals	Free consultation in ANES Hospitals,

6.4 – Financial Management and Resource Mobilization

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

The Institute has a mechanism for audit to ensure financial compliance. The institutional accounts are regularly audited. The observation of the auditors if any are immediately corrected / rectified. The financial audit is a regular process and a team of finance experts do a thorough check and verification of all payments, receipts journals vouchers of the transactions cash books, ledger account reviews that are carried out in each financial year on an accrual basis system. The auditors appointed by the college perform audits of the financial statements of the college. The financial records are audited by qualified chartered accountants after the end of each fiscal year is certified income expenditures, balance sheet and prepared notes to accounts are certified. The Institution has well defined mechanism to monitor effective and efficient use of available resources. Each department prepares the proposals under four different heads of account i.e., capital budget, maintenance budget, operational budget and developmental budget well before the commencement of the academic year. After assessing the projected income and expense for an academic year, the governing body approves the budget to each department. After the allocation, the departments can avail the financial resources for various activities in the department. The purchase committee in the department ensures the technical and commercial negotiations for the various equipment and finalizes the vendor. The committee also ensures the quality is not compromised and optimum price is maintained. Audited financial statements made available in the public domain by displaying them in the institute website and are sent to the statutory and regulatory bodies whenever necessary.

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
Nil	0	Nil
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6.4.3 – Total corpus fund generated

0

6.5 – Internal Quality Assurance System

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

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority

Academic	Yes	Nil	Yes	IQAC
Administrative	No	Nil	Yes	IQAC

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

1. Parents meeting is conducted Year 2. Feedback from the parents are collected and the necessary actions are being taken 3. Class teachers send SMS to Parents every day regarding their wards attendance

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

1. Encouragement was given to all support staff to pursue their Higher Studies
2. Additional Leaves are sanctioned when they are attending their examinations for Higher studies. 3. Regular sessions were taken to improve their communication skills / personal skills.

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

1. Improved teaching learning through e-learning platform (MOODLE) 2. Student evaluation in laboratories, seminars and projects through rubrics. 3. Faculty are encouraged to publish quality journals

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
2020	A Five Day National Level Online FDP on Skill Development for Effective Research and Teaching-Learning Process	18/03/2020	08/06/2020	12/06/2020	1292
2020	Google Classroom for Professional Learning	18/03/2020	06/06/2020	06/06/2020	33
2020	Interactive session with Dr. K.C.B Rao	21/09/2019	03/02/2020	03/02/2020	33

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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
Health Strategies for women	29/02/2020	29/02/2020	400	Nil
A Self Defense Session	29/02/2020	29/02/2020	30	Nil
Women Rights:A Look Forward	29/02/2020	29/02/2020	400	Nil

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

Solid waste management The dry solid waste is put by the respective departments in a collection pit located within the campus. This dry solid waste is collected every day in the morning and campus is kept clean with as inspiration from Swachh Bharat Mission, Twin-Bin system is being used in the Institute to segregate recyclable and biodegradable waste. The used papers and notebooks are collected every semester and recycled. This activity is an exclusive initiative of our students under various clubs. Chemical and hazardous waste from laboratories if any are disposed as per norms . The campus is Wi-Fi enabled and hence all communication is made online minimizing paper usage. Usage of plastic cups, plates and cutlery are banned in the campus as a green initiative. Organic waste is composted and used for manure. Liquid waste management Sewage Treatment Plant (STP) of 200 KL/day capacity is in use both in the Institution campus and Hostel. The treated water is used for flushing and gardening purpose. Liquid chemicals from Chemistry and Environment Engineering Lab are disposed as per safety norms. E-waste management All Computers, batteries and electronic machinery is purchased under Buy-Back agreement. All computer systems are having the LCD monitors. The lighting in the Academic, Administrative and Hostel areas is through LED bulbs. Students take initiative in providing bins across the campus to collect the E-waste across all departments with the help of voluntary organizations. The collected material is disposed for recycling through authorized vendors. Solar power A solar plant of 450.KW is installed on the roof tops of all blocks and is connected to Grid.

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Provision for lift	Yes	10
Ramp/Rails	Yes	10
Rest Rooms	Yes	10
Scribes for examination	Yes	Nil

7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational	Number of initiatives taken to engage with	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
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	advantages and disadvantages	and contribute to local community					
2020	1	1	02/06/2020	1	NSS program food ingredient distribution to adopted villages	food ingredient distribution to adopted villages	50
View File							

7.1.5 – Human Values and Professional Ethics

Title	Date of publication	Follow up(max 100 words)
No Data Entered/Not Applicable !!!		

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Blood Donation camp with association of LIONS CLUB and NRI	20/08/2019	Nil	100
Women Rights:A Look Forward by Dr.R Anita Rao ,director,Gitam School of LAwsession	29/02/2020	Nil	400
View File			

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

Swachha ANITS mission
Plantation of trees and promotion in the nearby community
Promotion eco-friendly Ganesh idols on the eve of Ganesh festival

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

Best Practice 1: Using Rubrics as a tool in the assessment processes to implement outcome base education system in the institute in true spirit. In the 21st century, professional skills (also known as soft skills, generic skills or transferable skills) have emerged as important attributes of a graduate engineer. Studies show that Industry / employers around the world value these abilities (non-domain skills) on par with the disciplinary knowledge (domain skills). The assessment of these global competencies is an important aspect in outcome based education. It is of utmost important to have reliable methods / proper assessment tools to evaluate the student works for attainment those outcomes known as programme outcomes in tune to graduate attribute as mentioned in Washington accord. Rubrics provide a powerful tool for assessment and grading of student work and for communicating the performance expectations for an activity. They can also serve as a transparent and inspiring guide to learning. They are scoring, or grading tools used to measure a students'

performance and learning across a set of criteria and objectives. Rubrics are descriptive, and thereby can be used as a tool to promote understanding, and to direct future instruction and learning. Best Practice 2: Using MOODLE as an ICT tool for enhanced learning The usefulness of digital technologies imparted into a blended learning model (combination of traditional teaching methods of face to face and online media) for engineering education is enormous as the students have become digital inhabitants. This is a generation that has never known a world without Google, the internet or even smart electronic devices. Hence continuous engagement of the students through these tools has become an important educational experience. The role of Information and Communication Technology (ICT) plays a wider role in teaching-learning activities like, content creation, administrative, formative-summative assessments, student's performance tracking, trainings, knowledge management and knowledge organization. In addition, the technical features of ICT allow us to customize to meet the demands of an institution. Considering the recent major shifts in the learning paradigm, these innovations were deployed in an ongoing, real time basis in our educational campus.

Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link

https://assessmentonline.naac.gov.in/storage/app/hei/SSR/104978/7.2.1_161088523_2_3940.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

ANITS envisions to emerge as a world-class technical institution whose products represent a good blend of technological excellence and the best of human values. Working with missionary zeal towards its goal, ANITS believes in the integration of all critical activities teaching, research, innovation, outreach / extension activities and also in continuous improvisations in these practices is determinant for producing engineers who can face global challenges. The priority and thrust of the institute is implementation of outcome based education in to-to which is an integral essence of the above mentioned processes. OBE is a paradigm shift from the traditional input-based education system towards a student-centric/ student learning education system. Accordingly, there was a need to define, develop, implement and measure student learning through the attainment of various outcomes ensuring graduating engineers from all programs demonstrate expected skill and competency leading to their global recognition. Ensuring the student possess the global graduate attributes is a challenging task and cannot be accomplished unless all activities and all stakeholders in the institute imbibe the essence of OBE. Hence the institute works such that the engagements in the four critical dimensions lead to the goal. They are: Academic excellence: Achievement of outcomes is not possible wit out significant changes in curriculum and improving teaching - learning experiences of the students. Usage of learning management systems such as MOODLE / Google, rubrics and a variety of teaching-learning techniques help the students to have experiential learning, exposed to collaborative learning and make them life-long learners. Research and knowledge dissemination: The path towards the mission that the products i.e, the students, of the institute have technological excellence is possible when the faculty are abreast with latest technological developments, publish their good work in reputed journal. This helps students to publish their work, conduct research and investigation to solve the complex engineering problems. Innovation, incubation and entrepreneurship: ANITS has set in motion the creation of an innovation and incubation ecosystem. The idea is to work with industry to support the development of new products and their commercialisation

and to create ab-initio new companies for sunrise technologies and products through incubation. The MoU with NRDC, AP innovation council, IIC etc., to, encourage the potential students become job givers rather than job seekers. Students with innovative ideas and projects are provided with financial support and infrastructure facilities. Outreach and extension activities: Co-curricular and extra-curricular activities which make student all rounded personality to face the tough challenges of the future and contribute to the world in a positive way. To make the campus as a happening campus, various activities through student professional societies, clubs, NSS, sports, student associations, identifying and adopting villages to identify societal problems under UBA, organizing events such as Tech-fests /seminars, internships have become essential parts in the system. Thus, the institute prioritizes OBE to be the spirit in the realm of all academic activities of the institute.

Provide the weblink of the institution

www.anits.edu.in

8.Future Plans of Actions for Next Academic Year

Growth in vibrant economies of the world has been fuelled by innovation, disruptive technology, and product development, which have roots in state of the art research and education in academic institutions. The Fourth Industrial Revolution (4IR) which is a fusion of advances in artificial intelligence (AI), robotics, the Internet of Things (IoT), 3D printing, genetic engineering, quantum computing etc., and is blurring of boundaries between the physical, digital, and biological worlds. As a result of this perfect storm of technologies, the Fourth Industrial Revolution is paving the way for transformative changes in the way we live and radically disrupting almost every business sector and changing the dimensions of engineering education. It is recognized that technology has a major role in transforming lives. Creating an enabling ecosystem meet such challenges, the strategic plan was prepared by the core committee of ANITS. In addition to broad range of activities the institute carries out in the pursuit of its mission, the following goals are identified to be given special emphasis in the strategic plan. 1. Course Programmes: Broaden the educational areas 2. Teaching and learning experiences 3. Human Resources 4. Research and development 5. Enhance engagement with industry and society 6. Innovation and Incubation eco system 7. Infrastructure 8. Placements 9. Enhance Alumni engagement