



# **SELF STUDY REPORT**

**FOR**

**2<sup>nd</sup> CYCLE OF ACCREDITATION**

## **ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY AND SCIENCES**

**SANGIVALASA, BHEEMUNIPATNAM (MANDAL), VISAKHAPATNAM  
(DISTRICT), ANDHRA PRADESH**

**531162**

**[www.anits.edu.in](http://www.anits.edu.in)**

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**NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL**

**BANGALORE**

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# 1. EXECUTIVE SUMMARY

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## 1.1 INTRODUCTION



Anil Neerukonda Institute of Technology & Sciences (ANITS), Visakhapatnam is owned by Megha Engineering and Infrastructure Limited (MEIL) which is one of the top infrastructure and manufacturing companies in India with headquarters in Hyderabad. The Institute was established in the academic year 2001-02 by the Anil Neerukonda Educational Society (ANES) which was founded by Dr N.B.R. Prasad, an NRI Philanthropist from the USA, with industrialists and eminent educationists in memory of his late son Anil Neerukonda.

The institute is located in Sangivalasa in Bhimunipatnam Mandal of Andhra Pradesh and is at a distance of 30 km from Visakhapatnam. Started with an intake of 220, the Institute presently offers 9 undergraduate programmes in ECE, EEE, CSE, IT, Mechanical, Civil, Chemical, CSE (Data Science) & CSE (AI&ML) and 6 post graduate programmes in VLSI & Embedded Systems, Control Systems, Computer Science and Engineering (Data Science), Machine Design, Food Processing Technology and Soil Mechanics with an intake of 1290 in UG and 90 in PG courses respectively.

In the path of providing high-quality education and continuous improvement in academic and research activities, the Institute was first accredited by NBA in 2008 for 4 programmes and for 5 programmes in 2013 and 2016. Recently, 5 UG programmes were accredited under tier 1 and 2 UG programmes were accredited by

tier 2 in the year 2022. The Institute was recognized as a research centre by Andhra University and recognized under 2(f) & 12(b) of the UGC act in 2013. ANITS was accredited by NAAC with an “A” grade in 2014 and is in the process of applying for reassessment in cycle 2. In order to have the flexibility to incorporate the latest developments in science & technology and bringing in requirements of the industry into the curriculum, ANITS became **Autonomous in 2015-16**. The institute was recognized as the Skill Excellence Center by Govt., of Andhra Pradesh in 2017. ANITS is recognised as Host Institute (HI) to act as Business Incubator (BI) under MSME Incubation Scheme in 2022. The Institute ranked 251-300 bands at the National level in NIRF 2022 ranking by MHRD

## **Vision**

- ANITS envisions emerging as a world-class technical institution whose products represent a good blend of technological excellence and the best of human values.

## **Mission**

- To train young men and women into competent and confident engineers with excellent communicational skills, to face the challenges of future technology changes, by imparting holistic technical education using the best of infrastructure, outstanding technical and teaching expertise and exemplary work culture, besides moulding them into good citizens.

## **1.2 Strength, Weakness, Opportunity and Challenges(SWOC)**

### **Institutional Strength**

- Proactive leadership and management
- Disciplined Campus
- Committed faculty and good retention ratio
- Faculty Development
- Good Training and Placement
- Preferred Institution
- Admission and Quality input
- Well-defined Mentor-Mentee system
- Accreditations from Statutory bodies
- Research Encouragement
- Stakeholders Involvement
- Community Services
- 24 X 7 Medical facilities

### **Institutional Weakness**

- Research projects from funding agencies
- Industry collaboration & Consultancy on a low key
- Low PG admissions

- Start-ups and entrepreneurs' meagre
- Skill development in emerging multi-disciplinary areas

### **Institutional Opportunity**

- Industry 4.0, Automation and Rapid global technological changes – Shortage of Skilled manpower requirement in Emerging Technologies with 21st Century skills
- NEP 2020
- University Status
- UGC- new initiatives in teaching-learning
- Govt. initiative – 5 Trillion Dollar Economy by 2025 through the creation of Innovation & start-up ecosystems in HEIs
- Liberal policies of premier institutions & research organizations in India and many universities abroad provide global inclusiveness for academic and research collaborations.
- Increasing demand for engineering graduates for an interdisciplinary, collaborative and global job market. Emerging industrial hub in and around Visakhapatnam.

### **Institutional Challenge**

- Sustenance of quality in the context of the burgeoning of new Private universities in the state in particular and in general across the country.
- UGC Policy – Foreign universities in India
- The downturn of employment potential for the graduates in core areas of engineering.
- Virtual Universities and online courses
- Govt. control of fee structure

## **1.3 CRITERIA WISE SUMMARY**

### **Curricular Aspects**

The Institute framed the curricula based on the guidelines of AICTE, Affiliating Universities, individual department Board of Studies (BoS), and College Academic Council (CAC) in tune with the vision and mission of the Institution. The curriculum is aligned with the Program's Educational Objectives, Program Outcomes, Program Specific Outcomes and Course Outcomes.

In light of technological developments, the undergraduate engineering curriculum is prorated into Humanities, Basic and Engineering Sciences, Professional Core, and Professional and Open Electives. The emphasis is on holistic development and knowledge acquisition. The curriculum includes courses like theory, practical, technical seminars, industry-oriented mini-projects, and project work. The curriculum is equally augmented with Gender Sensitization, Human Values and Professional Ethics, and Skills Development courses such as Soft skills, Communication skills and Technical skills. Postgraduate engineering programs are designed with advanced core and elective courses that emphasize laboratory and research work.

A choice-based credit system (CBCS) has been implemented in all the programs since 2015-16. The CBCS has given broad scope in the students' learning process according to their interests in acquiring interdisciplinary

knowledge.

The syllabus is regularly revised in all programmes catering to the needs of Society and Industry, with more than 70% of new courses has been introduced during the last five years. 90% of the courses are focused on employability, skill development and entrepreneur development. Value-added courses, with 70% will impart the advanced skills required and fill the regular curriculum gaps to meet technological advancements and societal needs. More than 75% of the students undertake field and student projects, internships and field visits in a given academic year. The comprehensive curriculum gives better career opportunities to students globally.

### **Teaching-learning and Evaluation**

The institution has a transparent admission process for admitting students to various programs based on the Andhra Pradesh State Council of Higher Education (APSCHE). Each program's sanctioned seats are filled in two categories, category A and category B. Seats in Category 'A' are filled by common Entrance Examinations like AP EAPCET /AP ECET. Seats in Category B are filled by the Guidelines of APSCHE

Students are one of the important stakeholders of the institution, Learning levels of the students are identified with Intermediate marks, common entrance rank and mid Examination and classified as slow and advanced learners. For slow learners, Institution provides remedial classes, study material and mentoring to understand the concepts. Advanced Learners are encouraged to participate in seminars/workshops/hackathons, internships and value-added courses. The institution provides the required facilities for Divyanggan students.

The Institution adopted student-centric learning methods like participative learning, experimental learning, problem-solving methods, collaborative, projects and case studies for enriching their learning. Faculty uses Information and Communication Technology (ICT) like LCD, PPT, Videos etc to deliver the content in an effective manner.

The institution encourages the faculty for upgrading their qualifications, and domain knowledge and also provides incentives for quality research publications and securing sponsored projects. The institution maintains Student Faculty Ratio (SFR) as per the AICTE norms.

The Institute prepares a well-planned academic calendar and is approved by CAC. The academic calendar is prepared to balance academic and non-academic activities. Based on the academic calendar faculty prepare their lecture plan. The institution has procured automation software namely BeeS Software Tool (BET), to process the examination activities. The BET operates at three stages namely, Pre-Examination, Post examination, Processing of Results and Reporting.

To produce competent professionals in the field of Engineering and Management, Outcome Based Education (OBE) was implemented from 2013 onwards in various Programmes. PO, PSO and CO for all programs are communicated to faculty and students through the website and syllabus books. COs, POs and PSOs attainment is measured every semester using direct and indirect assessment tools for the accomplishment of better skills and competencies.

### **Research, Innovations and Extension**

The Research and Development Cell aims to nurture research culture in the College by promoting research

in newly emerging and challenging areas of Engineering, Technology, Science and Humanities. It encourages the students and faculty to undertake research in newly emerging frontier areas of Engineering, Technology, Science and Humanities interior including multidisciplinary fields.

In order to promote research and development activities, the college extends its full support to students/faculty/staff. Full/Partial financial support is given to all innovative research & development works taken up by the students, faculty and staff members. The college encourages students, faculty and staff to participate in National/International Conferences, Training programmes, and Tech-Festivals organized by reputed institutes by giving full/partial financial support viz. course/registration fee, TA/DA etc.

To strengthen the R&D activities ANITS has established the “Institution’s Innovation Council (IIC)” as per the guidelines of MHRD Innovation cell, e-yantra laboratory in collaboration with IIT Bombay, Automotive hub for designing and fabrication of automobiles and Tinker’s lab for converting creative ideas into actual engineering products.

The institute organizes various activities under NSS/NCC and other student clubs. The institute is fully aware of its social responsibilities and contributed to the community's well-being in different forms by encouraging its students and faculty to participate in social activities and help the needy. These social outreach programmes brought a great impact on the holistic development of the students as they come across different categories of people and their living standards

Collaborations between academia and industry go hand in hand. Collaborations with industries give students exposure to the business world and help them build the essential skills they’ll need outside of the classroom to ace interviews and compete in the real world. Industries mostly seek out these partnerships with schools and universities because they recognize how crucial it is to spend money on finding and employing the best individuals for the job. ANITS signed a Memorandum of Understanding (MOU) with several industries to establish official partnerships to bridge the gap between the academy and industry needs and thereby develop the employability skills of the students.

## **Infrastructure and Learning Resources**

Anil Neerukonda Institute of Technology and Sciences engineering college has spread over 12 acres of campus with adequate facilities as per the norms of statutory bodies - AICTE and AU, and it has required classrooms, tutorial rooms, laboratories, seminar halls, a library, and computing equipment. The institution allocates the requisite budget for providing and maintaining infrastructure, laboratories, library and other resources.

In the institution, all laboratories are equipped with machines and instruments according to the curriculum. Each and every block has good power backup by providing generators and UPS for laboratories and academic activities. Moreover, the institution possesses domain-centric laboratories as prescribed by the university.

The central library has a good collection of books and journals for enhancing knowledge for students and faculty. Faculty and students can have digital access to all resources like NPTEL, e-books, and e-journals.

The institution provides transportation facilities for faculty and students within the vicinity of around fifty kilometres. Transportation is well maintained by the In- charge. A hostel is provided for boys and girls with good facilities. A peaceful atmosphere is maintained in both hostels. All the security measures have been taken

to provide safety for the hostel and students.

The institute provides facilities such as a gymnasium, a place for indoor games, and open playgrounds for outdoor games. Guidance is given to students by the skilled Physical Director. All the students are encouraged to participate in sports competitions at the college level, inter-collegiate, inter-university, state and national levels. Departments also organize technical and non-technical events as part of Association Activities to build competency among students.

The institute provides adequate ICT facilities and student computer ratio is followed as per the norms for effective teaching and learning process. All the computers are connected to the internet facility. The entire campus is Wi-Fi enabled.

The institution is supervised by the Administrative Officer who monitors the maintenance of classrooms, library, laboratories and playgrounds. Effectively planned procedures are executed for maintenance and utilization of infrastructures pertaining to academic, co-curricular, extra-curricular activities and other basic amenities.

### **Student Support and Progression**

Anil Neerukonda Institute of Technology and Sciences (ANITS) emphasizes the overall development of the students as they are major stakeholders. The institution extends great support to make the students engage with various institutional activities to enhance their learning experience on campus to achieve their goals.

Apart from Government scholarships, ANITS provides special schemes to promote technical education. ANITS is a part of ANES which consists of the NRI institute of medical sciences, providing medical facilities for ANITS students during college hours. ANITS has a well-equipped gym facility and yoga programs for the benefit of student health. The national service scheme provides to get knowledge on social awareness among students.

The institution has a well-established placement cell for training students towards a better career and providing job opportunities with the support of Co-Cubes Amcat and Salesforce. The joint efforts enable the effective organizing of the data and forwarding it to potential companies. The companies undertake student assessments and provide helpful feedback for profile improvement.

Sports and cultural activities within the college and intercollegiate levels are held annually. Every department has individual associations to train the students in the field of advanced technologies by conducting technical fests every year.

ANITS conducts training programs through MOUs with Infosys, Talentio, and Face prep and APSSDC offers skill development programs, and campus recruitment training to provide awareness of trends and technology to enhance employability skills.

The Institute provides special training programs for GATE through in-house faculty, GRE/TOFEL through EDWISE and IVY OVERSEAS training programs for the students to upgrade to higher studies and gainful employment.

ANITS creates a platform for the active participation of students in various committees like the Anti-Ragging Committee to monitor the activities of the students, Women Grievance Committee to look after gender-sensitive issues and the Grievances & redressal committee to encourage the students to express their complex

issues in timely and freely without any fear being victimized.

The institution has an effective Alumni association to give career guidance, professional training sessions and awareness of recent technologies in the industries which improve the student expertise in their area of domain.

### **Governance, Leadership and Management**

As an institute of certain pristine principles and objectives, ANITS has Proactive leadership & management, good governance, faculty and some important wings to strive hard to provide value-based education to students. It decentralizes the decision-making process and believes in participatory governance. It has adopted e-governance in all aspects of exams, administration, finance, admissions etc. Effective leadership by setting values and a participative decision-making process is key not only to achieving the vision, mission and goals of the institution but also to building the organizational culture. The institution has clear, well-defined and systematic strategies to ensure the ideal utilization of available resources. The institution provides effective welfare measures for teaching, non-teaching and administrative staff. Financial assistance is provided to faculty to promote research as per the guidelines of the institution. Around faculty members benefited from financial support by participating in various national and international conferences. Professional development and administrative training programmes are organized to enhance the pedagogical and research skills of the faculty. The institute regularly conducts a financial audit system to have discipline and transparency in financial compliance. The IQAC is a continuous process; it becomes an integral part of the institution's system and works towards quality enhancement. Internal Quality Assurance Cell (IQAC) has significantly contributed to sustaining and enhancing quality in all aspects of the institution and improving the academic and administrative performance of the college.

### **Institutional Values and Best Practices**

Anil Neerukonda Institute of Technology & Sciences provides a great commitment to providing and promoting gender equity. The institution aims to groom students to be self-reliant, respect cultural diversity, be aware of their social and professional responsibilities and be gender sensitive. They have the highest regard for women's safety and security, and environmental consciousness.

The institution provides importance to environmental consciousness and sustainability. Solar lights are installed. The institution uses LED bulbs for energy conservation. The students have done a project on the sensor-based energy-saving device under the guidance of the faculty and planned to be installed in Institution's Street light. Broken furniture is recycled. The institution has managed to recycle waste in a nearby village. The institution has bore wells, a tank and a bund. It also has a rainwater collection.

The green initiatives taken up are restricted entry of vehicles, use of battery vehicles, and landscaping with trees. The institution has provisions for ramps and lifts for easy accessibility to classrooms for physically challenged students.

The institution promotes various cultural events to promote tolerance, and harmony towards cultural, linguistic, regional, communal, and socio-economic diversities. Students are also given awareness programmes on the Code of Conduct. The Code of Conduct is displayed on the website for everybody's reference. The institution celebrates national and international commemorative days like Teachers' Day, Engineers' Day,

Parakram divas and many more.

In short, the institution is moulding the students as a community. The students are made behavioural and willing to adapt environmentally to the sound policies of the college will become a dominant force for a sustainable environment, especially in an urban area. It also understands promotes society and celebrates human diversities and differences in all forms.

## 2. PROFILE

### 2.1 BASIC INFORMATION

Name and Address of the College	
Name	ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY AND SCIENCES
Address	Sangivalasa, Bheemunipatnam (Mandal), Visakhapatnam (District), Andhra Pradesh
City	Visakhapatnam
State	Andhra Pradesh
Pin	531162
Website	<a href="http://www.anits.edu.in">www.anits.edu.in</a>

Contacts for Communication					
Designation	Name	Telephone with STD Code	Mobile	Fax	Email
Principal	T.v. Hanumantha Rao	091-9154220250	9441011735	-	principal@anits.edu.in
IQAC / CIQA coordinator	R. Srikanth	091-9848472072	9848472072	-	srikanth.che@anits.edu.in

Status of the Institution	
Institution Status	Self Financing

Type of Institution	
By Gender	Co-education
By Shift	Regular

Recognized Minority institution	
If it is a recognized minority institution	No

Establishment Details	
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Date of Establishment, Prior to the Grant of 'Autonomy'	01-08-2001
Date of grant of 'Autonomy' to the College by UGC	01-01-1970

**University to which the college is affiliated**

State	University name	Document
Andhra Pradesh	Andhra University	<a href="#">View Document</a>
Andhra Pradesh	Andhra University	No File Found

**Details of UGC recognition**

Under Section	Date	View Document
2f of UGC	19-08-2013	<a href="#">View Document</a>
12B of UGC	19-08-2013	<a href="#">View Document</a>

**Details of recognition/approval by stationary/regulatory bodies like AICTE,NCTE,MCI,DCI,PCI,RCI etc(other than UGC)**

Statutory Regulatory Authority	Recognition/Approval details Institution/Department programme	Day,Month and year(dd-mm-yyyy)	Validity in months	Remarks
AICTE	<a href="#">View Document</a>	25-07-2022	12	
AICTE	<a href="#">View Document</a>	25-07-2022	12	

**Recognitions**

Is the College recognized by UGC as a College with Potential for Excellence(CPE)?	No
Is the College recognized for its performance by any other governmental agency?	No

<b>Location and Area of Campus</b>				
<b>Campus Type</b>	<b>Address</b>	<b>Location*</b>	<b>Campus Area in Acres</b>	<b>Built up Area in sq.mts.</b>
Main campus area	Sangivalasa, Bheemunipatnam (Mandal), Visakhapatnam (District), Andhra Pradesh	Semi-urban	10.65	18031.95

## 2.2 ACADEMIC INFORMATION

<b>Details of Programmes Offered by the College (Give Data for Current Academic year)</b>						
<b>Programme Level</b>	<b>Name of Programme/Course</b>	<b>Duration in Months</b>	<b>Entry Qualification</b>	<b>Medium of Instruction</b>	<b>Sanctioned Strength</b>	<b>No.of Students Admitted</b>
UG	BTech,Chemical Engineering	48	Intermediate	English	30	23
UG	BTech,Electrical And Electronics Engineering	48	Intermediate	English	150	125
UG	BTech,Electronics And Communication Engineering	48	Intermediate	English	180	180
UG	BTech,Mechanical Engineering	48	Intermediate	English	210	166
UG	BTech,Computer Science Engineering	48	Intermediate	English	30	30
UG	BTech,Computer Science Engineering	48	Intermediate	English	60	60
UG	BTech,Computer Science Engineering	48	Intermediate	English	180	180
UG	BTech,Infor	48	Intermediate	English	180	180

	mation Technology					
UG	BTech,Civil Engineering	48	Intermediate	English	60	37
PG	Mtech,Chem ical Engineering	24	B.E. or B.Tech.	English	9	1
PG	Mtech,Electr ical And Electronics Engineering	24	B.E. or B.Tech.	English	18	2
PG	Mtech,Electr onics And C ommunicatio n Engineering	24	B.E. or B.Tech.	English	18	0
PG	Mtech,Mech anical Engineering	24	B.E. or B.Tech.	English	18	0
PG	Mtech,Comp uter Science Engineering	24	B.E. or B.Tech.	English	9	3
PG	Mtech,Civil Engineering	24	B.E. or B.Tech.	English	18	3

### Position Details of Faculty & Staff in the College

<b>Teaching Faculty</b>												
	<b>Professor</b>				<b>Associate Professor</b>				<b>Assistant Professor</b>			
	Male	Female	Others	Total	Male	Female	Others	Total	Male	Female	Others	Total
Sanctioned by the UGC /University State Government	0				0				0			
Recruited	0	0	0	0	0	0	0	0	0	0	0	0
Yet to Recruit	0				0				0			
Sanctioned by the Management/Society or Other Authorized Bodies	23				18				214			
Recruited	16	7	0	23	14	4	0	18	133	81	0	214
Yet to Recruit	0				0				0			

<b>Non-Teaching Staff</b>				
	<b>Male</b>	<b>Female</b>	<b>Others</b>	<b>Total</b>
Sanctioned by the UGC /University State Government				0
Recruited	0	0	0	0
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				86
Recruited	54	32	0	86
Yet to Recruit				0

<b>Technical Staff</b>				
	<b>Male</b>	<b>Female</b>	<b>Others</b>	<b>Total</b>
Sanctioned by the UGC /University State Government				0
Recruited	0	0	0	0
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				43
Recruited	36	7	0	43
Yet to Recruit				0

### Qualification Details of the Teaching Staff

<b>Permanent Teachers</b>										
<b>Highest Qualification</b>	<b>Professor</b>			<b>Associate Professor</b>			<b>Assistant Professor</b>			<b>Total</b>
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt/LLD/DM/MCH	0	0	0	0	0	0	0	0	0	0
Ph.D.	16	7	0	12	4	0	36	15	0	90
M.Phil.	0	0	0	0	0	0	4	3	0	7
PG	1	0	0	2	0	0	92	63	0	158
UG	0	0	0	0	0	0	0	0	0	0

<b>Temporary Teachers</b>										
<b>Highest Qualification</b>	<b>Professor</b>			<b>Associate Professor</b>			<b>Assistant Professor</b>			<b>Total</b>
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt/LLD/DM/MCH	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	0	0	0	0
UG	0	0	0	0	0	0	0	0	0	0

<b>Part Time Teachers</b>										
<b>Highest Qualification</b>	<b>Professor</b>			<b>Associate Professor</b>			<b>Assistant Professor</b>			<b>Total</b>
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt/LLD/DM/MCH	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	0	0	0	0
UG	0	0	0	0	0	0	0	0	0	0

<b>Details of Visting/Guest Faculties</b>				
<b>Number of Visiting/Guest Faculty engaged with the college?</b>	<b>Male</b>	<b>Female</b>	<b>Others</b>	<b>Total</b>
		3	0	0

**Provide the Following Details of Students Enrolled in the College During the Current Academic Year**

Programme		From the State Where College is Located	From Other States of India	NRI Students	Foreign Students	Total
UG	Male	659	0	0	0	659
	Female	322	0	0	0	322
	Others	0	0	0	0	0
PG	Male	2	0	0	0	2
	Female	7	0	0	0	7
	Others	0	0	0	0	0

Provide the Following Details of Students admitted to the College During the last four Academic Years						
Category		Year 1	Year 2	Year 3	Year 4	
SC	Male	74	85	93	83	
	Female	27	34	22	23	
	Others	0	0	0	0	
ST	Male	21	25	9	16	
	Female	6	5	3	5	
	Others	0	0	0	0	
OBC	Male	438	393	421	417	
	Female	214	184	147	144	
	Others	0	0	0	0	
General	Male	126	145	177	194	
	Female	75	77	71	73	
	Others	0	0	0	0	
Others	Male	0	0	0	0	
	Female	0	0	0	0	
	Others	0	0	0	0	
Total		981	948	943	955	

## 2.3 EVALUATIVE REPORT OF THE DEPARTMENTS

Department Name	Upload Report
Chemical Engineering	<a href="#">View Document</a>
Civil Engineering	<a href="#">View Document</a>
Computer Science Engineering	<a href="#">View Document</a>
Electrical And Electronics Engineering	<a href="#">View Document</a>
Electronics And Communication Engineering	<a href="#">View Document</a>
Information Technology	<a href="#">View Document</a>
Mechanical Engineering	<a href="#">View Document</a>

### Institutional preparedness for NEP

1. Multidisciplinary/interdisciplinary:	<p>ANITS has taken a job of embracing the goal of the National Education Policy, which is to offer high-quality education to help our country's people resources grow into global citizens. The core NEP principles, including variety for all curricula and pedagogy with technology advancements in teaching and learning, supporting rational decision-making and innovation, critical thinking and creativity, were brought up in a discussion among the faculty members. Courses in the multidisciplinary and interdisciplinary fields have been added as electives to academic programmes. Every programme is created to give students as much freedom as possible when selecting electives from other Departments. The National Educational Policy (NEP-2020) for higher education's primary goal is to stop the fragmentation of higher education by turning these institutions into sizable, interdisciplinary knowledge hubs. ANITS introduced Minors program from R20 regulations where the students of one branch can study specified 5 courses of other branch to earn a minor degree. Our institution has introduced a course on professional Ethics for B.Tech and M. Tech students, as well as life-skills, soft-skills and communication skills sessions for all students on campus as part of its dedication to holistic and multidisciplinary education. Additionally, our students take part in community service projects including setting up blood donation drives, and community services, among other things.</p>
2. Academic bank of credits (ABC):	A crucial element of the NEP-2020 is that academic

	<p>institutions must adopt academic bank credits. Moving forward, it is crucial and vital to integrate higher education institutions into a globalized environment. We have already made it possible for our students to enroll in online courses through national programmes like SWAYAM, NPTEL, or other MOOC platforms like Coursera, Udemy, etc. The institute has MoU with Infosys and adapted for students the Infosys Spring board courses. ANITS giving credits to the students who have completed the courses through any of these platforms.</p>
<p>3. Skill development:</p>	<p>Only 5% of Indian workers between the age group 19 and 24 were anticipated by the results of the 12th Five-Year Plan to have formal vocational education. In India, expanding vocational education is essential for accelerating skill development. The NEP 2020 predicts a potentially explosive rise in the country's skill development through vocational education. Vocational education was supposed to be a requirement for all higher education and educational institutions. Vocational education will gradually be included into schools and universities during the coming years. ANITS has a clear strategy to implement as it moves forward in order to empower young students and meet engineering demand: 1. In R20 regulation skill-oriented courses are introduced in all branches of engineering, in accordance with APSCHE. 2. Honors are introduced from R20 regulations to have more focus on specified skills 3. Number of Value-added courses are conducted to improve students' skills. 4. Students are encouraged to participate in various events like Hackathons etc., to improve their skills 5. Student learning through Massive Open Online Courses (MOOC) is encouraged to improve their independent learning skills</p>
<p>4. Appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using online course):</p>	<p>The advancement of Indian expressions and culture is valuable not exclusively to the nation yet additionally to people. In all engineering programs, English is required for communication and course work because engineering is a professional field. In contrast, the organization holds events and commemorative events in regional languages to foster a sense of regional pride. Mother language day is also observed. Students are addressed in their native languages on Republic Day and Independence Day, for example. One of the most significant days of the year is</p>

	<p>Engineers' Day, and another is Teacher's Day. Women's Day is a significant day for cultural celebrations. Festivals like Janmastami, Vinayaka Chavithi, and Durga pooja, raise awareness of Indian regional and national languages and the culture that goes along with them. Additionally, national/international commemorative days like Yoga Day, earth day, water day etc are observed.</p>
<p>5. Focus on Outcome based education (OBE):</p>	<p>In accordance with the requirements set forth by the National Board of Accreditation, ANITS has implemented outcome-based education with course outcomes, program-specific outcomes, and clearly stated program outcomes. The cognitive skills of remembering, understanding, applying, analyzing, evaluating, and creating are at the center of all courses' outcomes. Learning outcomes at all levels, in addition to domain-specific skills, ensure social responsiveness, ethics, and entrepreneurial skills so that students actively contribute to the nation's economic, environmental, and social well-being. The PO-PSO philosophy is also reflected in the Course Outcomes (COs). In order to implement the spirit of NEP, each course syllabus has been designed with macroeconomic and social needs in mind. Few innovative practices are: 1. Introduction of CO, Blooms cognitive Level and Performance Indicators in exam papers 2. Usage of Rubrics for Lab and project evaluation 3. Weightage for activity-based learning in all the theory courses An innovative curriculum that includes credit-based courses and projects incorporates values-based education, community service, environmental education, and other areas. The curriculum includes lab exercises and small projects with a focus on community involvement. The value-based education course Professional Ethics &amp; Human Values is offered. The course Environmental Sciences examines all aspects of environmental sustainability. As a result, ANITS has a number of community outreach programs, like the Student Clubs, NCC and the National Service Scheme (NSS), which provide community extension activities.</p>
<p>6. Distance education/online education:</p>	<p>The country's educational institutions have become increasingly involved in the use of digital platforms for engaging classes and holding conferences and meetings as a result of the Covid -19 pandemic. Online education has broken down geographical</p>

barriers, allowing experts and students from faraway regions to interact, despite the negative effects of not having face-to-face learning opportunities. The adoption of a hybrid educational approach that combines online and offline resources has been made possible by the opening of the economy, including educational establishments. This is envisioned as the new standard in the New Education Policy as well. Teachers and students will no longer be restricted in their ability to access online resources as a result of the knowledge gained during the closure period of Covid-19. Understudies are urged to do MOOC courses at ANITS which advances online training. During the Covid-19 pandemic, ANITS was able to successfully deliver all of its course content online using tools like Google Class Room, Webex and MOODLE platform.

### Institutional Initiatives for Electoral Literacy

<p>1. Whether Electoral Literacy Club (ELC) has been set up in the College?</p>	<p>Anil Neerukonda Institute of Technology &amp; Sciences has been set up an Electoral Literacy Club (ELC) in the institute. The primary goal of the Electoral Literacy Club at ANITS is to educate students about their democratic rights, including the right to vote in elections.</p>
<p>2. Whether students' co-ordinator and co-ordinating faculty members are appointed by the College and whether the ELCs are functional? Whether the ELCs are representative in character?</p>	<p>The Institution has the ELC functional with the following office bearers 1. Dr. K Satyanarayana, ELC Coordinator 2. Dr. G Suryanarayana, ELC Co-coordinator 3. K Chandu Reddy, Student Representative 4 K Keerthi Pratusya, Student Representative 5. R V R S Manikanta, Student Representative</p>
<p>3. What innovative programmes and initiatives undertaken by the ELCs? These may include voluntary contribution by the students in electoral processes-participation in voter registration of students and communities where they come from, assisting district election administration in conduct of poll, voter awareness campaigns, promotion of ethical voting, enhancing participation of the under privileged sections of society especially transgender, commercial sex workers, disabled persons, senior citizens, etc.</p>	<p>Activities of the ELC ANITS: 1. Educating the general public in the surrounding villages through Voter Awareness Campaigns. 2. Creating awareness and interest among faculties and students through sensitization. 3. Providing awareness and experience to the targeted population about voter registration, electoral process and related matters. 4. Encouraging students to participate Election related duties in need</p>

<p>4. Any socially relevant projects/initiatives taken by College in electoral related issues especially research projects, surveys, awareness drives, creating content, publications highlighting their contribution to advancing democratic values and participation in electoral processes, etc.</p>	<p>The ELC takes actions that are socially relevant to issues related to elections, like raising awareness, creating content and publishing materials that highlight their contribution to advancing democratic values and encouraging participation in elections. 1. Students and faculty participated in 2019 General election duties 2. Students and faculty participated in 2021 GVMC election duties</p>
<p>5. Extent of students above 18 years who are yet to be enrolled as voters in the electoral roll and efforts by ELCs as well as efforts by the College to institutionalize mechanisms to register eligible students as voters.</p>	<p>All the eligible students are encouraged to enroll as voters, regular sensitization programs are conducted to enroll new students as voters. ANITS provide experience-based learning of the democratic setup through mock polling activities. ANITS also hold debates, elocution, essay writing, poster presentations, mock parliaments, and other programs to raise awareness of electoral procedures.</p>

## Extended Profile

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### 1 Program

#### 1.1

##### Number of programs offered year-wise for last five years

2021-22	2020-21	2019-20	2018-19	2017-18
15	15	13	13	13
File Description		Document		
Institutional data in prescribed format		<a href="#">View Document</a>		

#### 1.2

##### Number of departments offering academic programmes

Response: 7

### 2 Students

#### 2.1

##### Number of students year-wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
4548	4456	4347	4431	4233
File Description		Document		
Institutional data in prescribed format		<a href="#">View Document</a>		

#### 2.2

##### Number of outgoing / final year students year-wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
1135	1170	1107	1123	897
File Description		Document		
Institutional data in prescribed format		<a href="#">View Document</a>		

**2.3****Number of students appeared in the examination conducted by the Institution, year-wise during the last five years**

2021-22	2020-21	2019-20	2018-19	2017-18
4597	4448	4376	4339	4170
File Description		Document		
Institutional data in prescribed format		<a href="#">View Document</a>		

**2.4****Number of revaluation applications year-wise during last five years**

2021-22	2020-21	2019-20	2018-19	2017-18
76	16	83	33	55

**3 Teachers****3.1****Number of courses in all programs year-wise during last five years**

2021-22	2020-21	2019-20	2018-19	2017-18
585	577	614	609	578
File Description		Document		
Institutional data in prescribed format		<a href="#">View Document</a>		

**3.2****Number of full time teachers year-wise during the last five years**

2021-22	2020-21	2019-20	2018-19	2017-18
255	251	231	215	251
File Description		Document		
Institutional data in prescribed format		<a href="#">View Document</a>		

**3.3**

**Number of sanctioned posts year-wise during last five years**

2021-22	2020-21	2019-20	2018-19	2017-18
255	251	231	215	251
File Description		Document		
Institutional data in prescribed format		<a href="#">View Document</a>		

**4 Institution****4.1****Number of eligible applications received for admissions to all the programs year-wise during last five years**

2021-22	2020-21	2019-20	2018-19	2017-18
1072	1054	1037	1051	1100
File Description		Document		
Institutional data in prescribed format		<a href="#">View Document</a>		

**4.2****Number of seats earmarked for reserved category as per GOI/State Govt rule year-wise during last five years**

2021-22	2020-21	2019-20	2018-19	2017-18
660	666	666	671	671
File Description		Document		
Institutional data in prescribed format		<a href="#">View Document</a>		

**4.3****Total number of classrooms and seminar halls****Response: 85****4.4****Total number of computers in the campus for academic purpose****Response: 1128**

**4.5****Total Expenditure excluding salary year-wise during last five years ( INR in Lakhs)**

2021-22	2020-21	2019-20	2018-19	2017-18
1228.56	1007.9	897.60	838.78	1194.54

## 4. Quality Indicator Framework(QIF)

### Criterion 1 - Curricular Aspects

#### 1.1 Curriculum Design and Development

**1.1.1 Curricula developed and implemented have relevance to the local, national, regional and global developmental needs which is reflected in Programme outcomes (POs), Programme Specific Outcomes(PSOs) and Course Outcomes(COs) of the Programmes offered by the Institution.**

**Response:**

The curricula in ANITS are designed and developed in consonance with the vision and mission of the institute and departments. The objective is to build the capabilities of students to face the challenges in the knowledge and innovation-driven world order today. The Institute introduced 2 new programmes in emerging areas as **CSE (Data Science), and CSE (AI-ML)**. The curriculum is designed such that the students demonstrate the essential knowledge, skills and abilities needed for professional practice so that they contribute to nation-building.

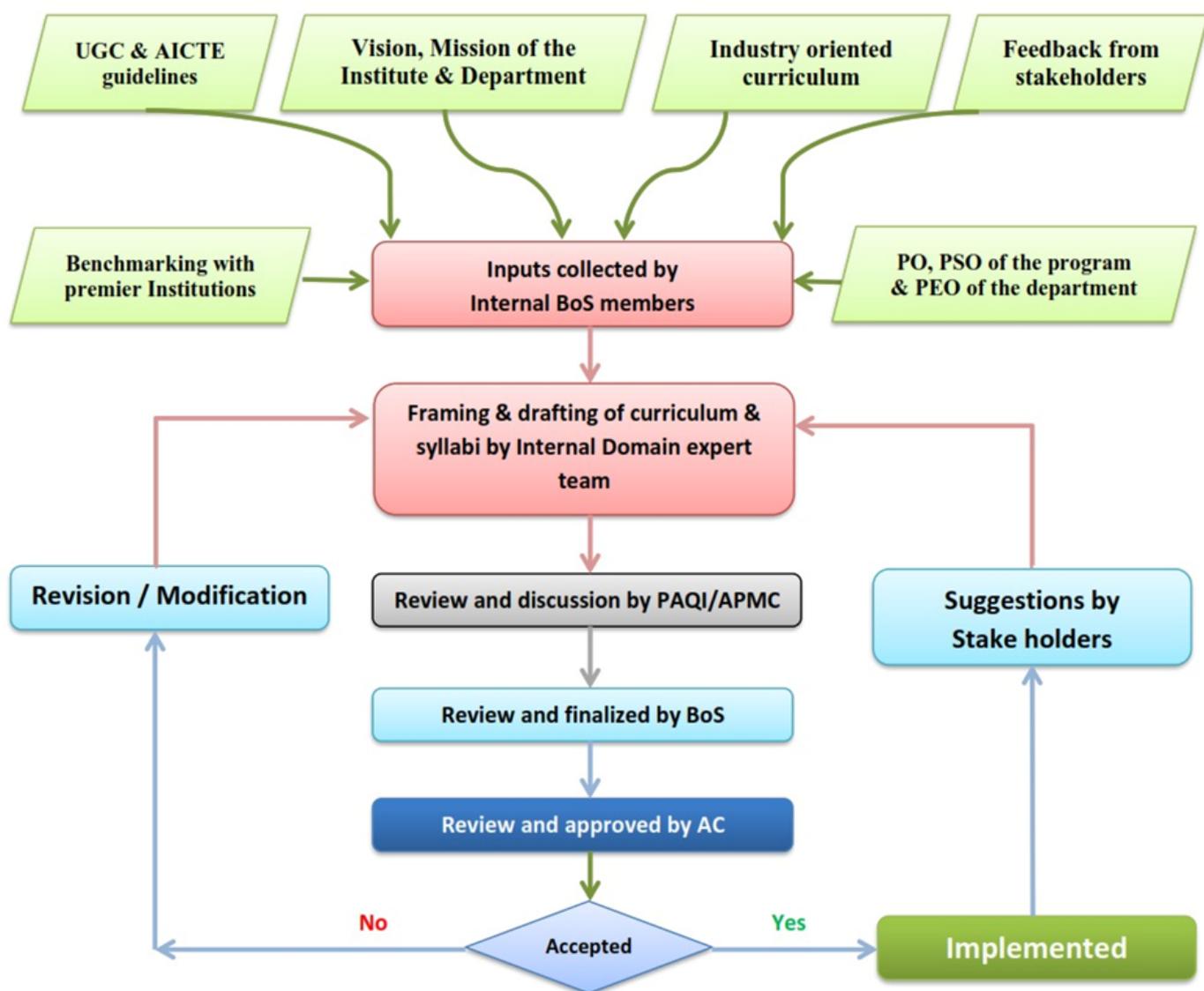
The procedure adopted for designing the curriculum is very systematic and is based on the feedback and suggestions from various stakeholders such as industry, academia, alumni, faculty & students. **Honors & Minor courses** were introduced considering the inputs from various sources and also based on the **AICTE & APSCHE** model curriculum. Hence it is ensured that the curriculum addresses the present-day society or industrial requirements at local, regional and national/global levels.

The course outcomes are defined based on the requirements of the POs and they are mapped to relevant POs and PSOs. The courses of the curriculum, the COs of the various courses, the assessment tools to measure the COs, the strength of the CO-PO mapping, and the strength of the CO-PSO mapping all constitute an effective curriculum design for the implementation of **Outcome Based Education**.

These guidelines form the foundation for designing the initial version at the departmental level by the Academic Planning and Monitoring Cell (**APMC**) consisting of the senior faculty based on the feedback from the stakeholders. The curriculum is then placed for discussion/approval by the department-level **BOS** (Board of Studies) constituted as per prevailing norms, and has industry, and academic experts in addition to faculty as members. The curriculum suitably revised based on suggestions by BOS is then placed for approval during the Academic Council (**AC**) and after incorporating suggestions by the council, if any, the curriculum is finally evolved.

The institute's autonomy provides academic flexibility to introduce new courses / emerging technologies for overall development and gradation to the current industry needs. The choice-based credit system (**CBCS**) adopted in the institute has given scope to the students to learn cross-domain subjects/technologies and take up interdisciplinary approaches for the development of all-rounded personalities.

Since the majority of the students at ANITS are from rural areas one theory course and two practical courses are provided in the curriculum of all UG programmes for improving their English communication skills. **Quantitative Aptitude & Verbal Aptitude Training** Phase-I and Phase-II with minimum 60 hours each and 1.5 credits each are provided in all UG programmes.



<b>File Description</b>	<b>Document</b>
Link for Additional Information	<a href="#">View Document</a>

<b>1.1.2 Percentage of Programmes where syllabus revision was carried out during the last five years.</b>
<b>Response:</b> 100
<b>1.1.2.1 Number of all Programmes offered by the institution during the last five years.</b>
<b>Response:</b> 18
<b>1.1.2.2 How many Programmes were revised out of total number of Programmes offered during the last five years</b>
<b>Response:</b> 18

File Description	Document
Minutes of relevant Academic Council/BOS meeting	<a href="#">View Document</a>
Details of program syllabus revision in last 5 years(Data Template)	<a href="#">View Document</a>

### 1.1.3 Average percentage of courses having focus on employability/ entrepreneurship/ skill development offered by the institution during the last five years

**Response:** 90.37

#### 1.1.3.1 Number of courses having focus on employability/ entrepreneurship/ skill development year-wise during the last five years..

2021-22	2020-21	2019-20	2018-19	2017-18
547	515	566	538	512

File Description	Document
Programme / Curriculum/ Syllabus of the courses	<a href="#">View Document</a>
Average percentage of courses having focus on employability/ entrepreneurship(Data Template)	<a href="#">View Document</a>

## 1.2 Academic Flexibility

### 1.2.1 Percentage of new courses introduced of the total number of courses across all programs offered during the last five years.

**Response:** 12.55

#### 1.2.1.1 How many new courses are introduced within the last five years

Response: 372

#### 1.2.1.2 Number of courses offered by the institution across all programmes during the last five years.

Response: 2963

File Description	Document
Minutes of relevant Academic Council/BOS meetings	<a href="#">View Document</a>
Institutional data in prescribed format	<a href="#">View Document</a>

**1.2.2 Percentage of Programmes in which Choice Based Credit System (CBCS) / elective course system has been implemented (Data for the latest completed academic year).****Response:** 100**1.2.2.1 Number of Programmes in which CBCS / Elective course system implemented.****Response:** 15

<b>File Description</b>	<b>Document</b>
Minutes of relevant Academic Council/BOS meetings	<a href="#">View Document</a>
Institutional data in prescribed format	<a href="#">View Document</a>

**1.3 Curriculum Enrichment****1.3.1 Institution integrates crosscutting issues relevant to Professional Ethics ,Gender, Human Values ,Environment and Sustainability into the Curriculum****Response:**

The institute ensures that the curriculum is designed to provide holistic education to the students for developing ethical and moral values so as to groom them into responsible social citizens. These issues are relevant in today's dynamic work environment mainstreaming hence takes considerable position in our curriculum. While designing the curriculum sufficient emphasis is laid on Professional Ethics and Human Values, Gender equality, and Environmental sustainability.

**Professional Ethics and Human values:**

Principles that govern the behaviour of an individual in professional world are considered as Professional Ethics. These serve as guiding light for individual's successful professional life. A course on Professional Ethics and Human Values is included in the curriculum of all the UG programmes focusing upon the importance and inculcating the **Ethics and Human Values**, striving for an overall development of the institute's student community. Human values infuse harmony and help to create students with strong character. A number of activities comprising Human Values are conducted ranging from organizing blood donation camps, visiting old age homes, NGOs, , etc. The institution frequently organises guest lectures by experts, spiritual gurus and luminaries to inculcate social, moral and ethical values in the students.

**Gender Equality:**

The professional environment shares a work space with equal gender participation so the institute makes sure that its students give equal respect to their colleague without any gender biasness and help in creating a healthy society. ANITS in all its academic and on-going academic activities practices to encourage equal participation of boys and girls for sensitizing the gender equality among the students. ANITS as a campus on the whole emphasises upon the equality of gender throughout its working

environment amongst staff, students and others involved in its functioning.

### Environmental Sustainability:

In order to inculcate the importance of environment and sustainability, a course on Environmental Studies has been included for all UG programmes. Apart from that courses such as Industrial pollution and control, Energy engineering, Renewable Energy Technologies, Water Resources conservation, Water Resources Engineering, Air Pollution & control, Geo environmental Engineering, Environmental Impact Assessment, Energy Auditing and Energy Management, Wastewater Treatment, Energy Management in Process Industries, Industrial Wastewater Treatment, Bio Energy Conservation Technologies and Environmental Studies are offered as elective courses to students in the curriculum.

In order to sensitize students about the environment and sustainability issues and activities such as seminars, guest lectures, industry visits and field excursions were organized. Also, June 5th - Environment Day is celebrated every year scattering awareness and responsibility in all the stakeholders. The institute ignites sensitivity towards society and environment by various activities conducted by the Institutes NSS Team like zero plastic in the campus, distributing of cloth and paper bags, making eco-friendly Ganesh idols, installation of bins to collect wastage and motivating students to spread awareness of cleanliness and Swachh Bharat Mission through activities like cleaning of beach, campus cleaning etc. In Addition to that ANITS has 450 kWp of solar power generation facility, Effluent water treatment plants, Rain water harvesting facilities etc. to support an environment friendly atmosphere.

File Description	Document
Link for Additional Information	<a href="#">View Document</a>

### 1.3.2 Number of value-added courses for imparting transferable and life skills offered during last five years.

**Response:** 77

#### 1.3.2.1 How many new value-added courses are added within the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
23	23	8	16	7

File Description	Document
List of value added courses (Data Template)	<a href="#">View Document</a>
Brochure or any other document relating to value added courses	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>

**1.3.3 Average Percentage of students enrolled in the courses under 1.3.2 above.****Response:** 68**1.3.3.1 Number of students enrolled in subject related Certificate or Add-on programs year wise during last five years**

2021-22	2020-21	2019-20	2018-19	2017-18
3937	3968	1791	4412	1000

File Description	Document
List of students enrolled	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>

**1.3.4 Percentage of students undertaking field projects/ internships / student projects (Data for the latest completed academic year)****Response:** 83.88**1.3.4.1 Number of students undertaking field projects / internships / student projects**

Response: 3815

File Description	Document
List of programs and number of students undertaking field projects / internships / student projects (Data Template)	<a href="#">View Document</a>

**1.4 Feedback System****1.4.1 Structured feedback for design and review of syllabus – semester-wise / year-wise is received from 1) Students, 2) Teachers, 3) Employers, 4) Alumni****Response:** A. All 4 of the above

File Description	Document
Action taken report of the Institution on feedback report as minuted by the Governing Council, Syndicate, Board of Management	<a href="#">View Document</a>
URL for stakeholder feedback report	<a href="#">View Document</a>

#### 1.4.2 The feedback system of the Institution comprises of the following :

**Response:** A. Feedback collected, analysed and action taken and report made available on website

File Description	Document
Any additional information	<a href="#">View Document</a>
URL for stakeholder feedback report	<a href="#">View Document</a>

## Criterion 2 - Teaching-learning and Evaluation

### 2.1 Student Enrollment and Profile

#### 2.1.1 Average Enrolment percentage (Average of last five years)

**Response:** 83.89

##### 2.1.1.1 Number of students admitted year-wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
990	964	946	970	1060

##### 2.1.1.2 Number of sanctioned seats year wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
1170	1170	1179	1179	1179

#### File Description

#### Document

Institutional data in prescribed format (Data Template)

[View Document](#)

Any additional information

[View Document](#)

#### 2.1.2 Average percentage of seats filled against reserved categories (SC, ST, OBC, Divyangjan, etc. as per applicable reservation policy ) during the last five years ( exclusive of supernumerary seats)

**Response:** 83.11

##### 2.1.2.1 Number of actual students admitted from the reserved categories year wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
614	554	542	495	565

#### File Description

#### Document

Institutional data in prescribed format

[View Document](#)

Any additional information

[View Document](#)

## 2.2 Catering to Student Diversity

### 2.2.1 The institution assesses the learning levels of the students and organises special Programmes for advanced learners and slow learners

#### Response:

The performance of the students in the mid exams and the semester end exams is taken into consideration to identify weak and bright students. Students who obtain less than 50% of marks in the mid examinations or fail in the semester end examinations are considered as weak students. Students who cross the 50% threshold in the mid exams and obtain 8.5 CGPA are considered as bright students.

#### Measures taken to handle slow learners

- Remedial/Extra classes are conducted with appropriate focus on the subject/topic codes in which the students are found to be slow learners.
- Individual academic counseling is done by concerned subject teacher.
- Slow learners are counseled and motivated by the mentors.
- Slow learners performance is communicated to parents through parents meeting.
- Arranging bridge courses for lateral entry students

#### Encouragement for Advanced Learners

- Providing guidance to the students for GATE/Competitive Examinations.
- Encouraging to participate in various inter institution competition etc especially in reputed national level institutions such as IIT Bombay, IIT Madras etc.
- Encourage Students to take up NPTEL Course for knowledge enhancement.
- Faculty offer guidance to these students on mini projects /prototype models development.
- Bright students are encouraged to take up roles in professional bodies and event organizing committees.
- Toppers of the class are rewarded
- Awareness camps are arranged to pursue higher studies abroad
- Encouraged to enroll for Honors & Minors
- Providing guidance for participation in coding contests & Hackathons.

File Description	Document
Link for Additional Information	<a href="#">View Document</a>

### 2.2.2 Student - Full time teacher ratio (Data for the latest completed academic year)

**Response:** 18:1

File Description	Document
Any additional information	<a href="#">View Document</a>

## 2.3 Teaching- Learning Process

### 2.3.1 Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences

#### Response:

A plethora of student centric methodologies such as active learning, cooperative learning, problem-based learning, project-based learning, experiential learning, experimental learning, blended learning and other ICT based learning methodologies are adopted for effective dissemination of the subject knowledge to the students. Students are taught with the mission that fosters a learning environment which nurtures exploration of various skills and critical thinking about the subject. This presents new opportunities for academics in strengthening the courses.

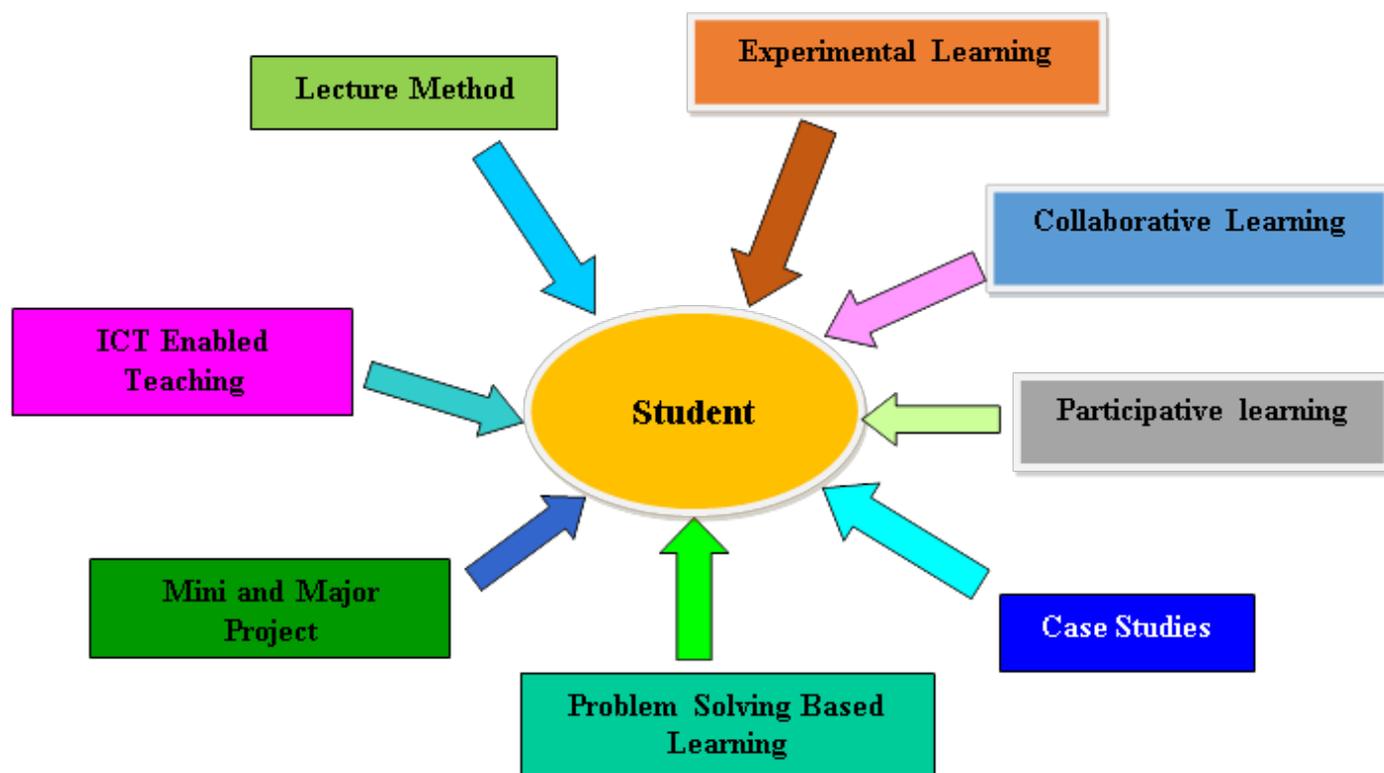
- **Activity based learning:** The faculties of ANITS always employ activity based teaching like Role play, Group discussions, Debates, Demonstrations etc..
- **Experiential learning:** In addition to the talk and chalk method, the faculty include practical sessions, hands-on training, workshops and internships in their pedagogy. Engineering is an experimental and dynamic discipline requiring integration and application of knowledge. Hence, 30% of the curriculum involves practical sessions for better understanding of theoretical concepts. Further, every programme includes skill-based courses to provide hands-on experience to the students and fortify the skills. Various entrepreneurship development programs are organized by the Entrepreneur Development Cell to generate “job creators” rather than “job seekers”. The internship programs facilitate the students with hands-on training sessions and enhance their employability skills.
- **Project based learning:** In addition to the assignments, projects are assigned to the students who can apply the knowledge gained in theory/ lab courses to develop the mini, major projects.
- **Participative learning:** The students are encouraged to do collaborative work and participate in seminars, Hackathons, workshops, field trips, and symposiums. Besides, students engage in soft skills training, role plays, exhibitions etc. which fine tune their abilities to express better

#### The following are the highlights of student centric methods adopted:

- Provisions are made for individual involvement in practicals / project work / industrial visits, technical seminars.
- Industrial Visits are organized periodically.
- Visiting faculties from industry and academic institutes of repute supplement the teaching process and provide the information to bridge the gap between industry and academia
- Provision of e-learning resources are made by providing internet facility
- Internship programmes are conducted
- Necessary support is provided to publish their research articles
- Conducting workshops / seminars / conferences focusing upon bridging the gap between industry and academia and latest trending technologies

- Maintenance of teacher to student ratio of **1:20** for the effective mentoring of the students for various academic and other activities

Thus, ANITS take all necessary steps to transform from conventional teacher centric learning to student centric learning campus.



<b>File Description</b>	<b>Document</b>
Link for Additional Information	<a href="#">View Document</a>

### 2.3.2 Teachers use ICT enabled tools including online resources for effective teaching and learning process.

#### Response:

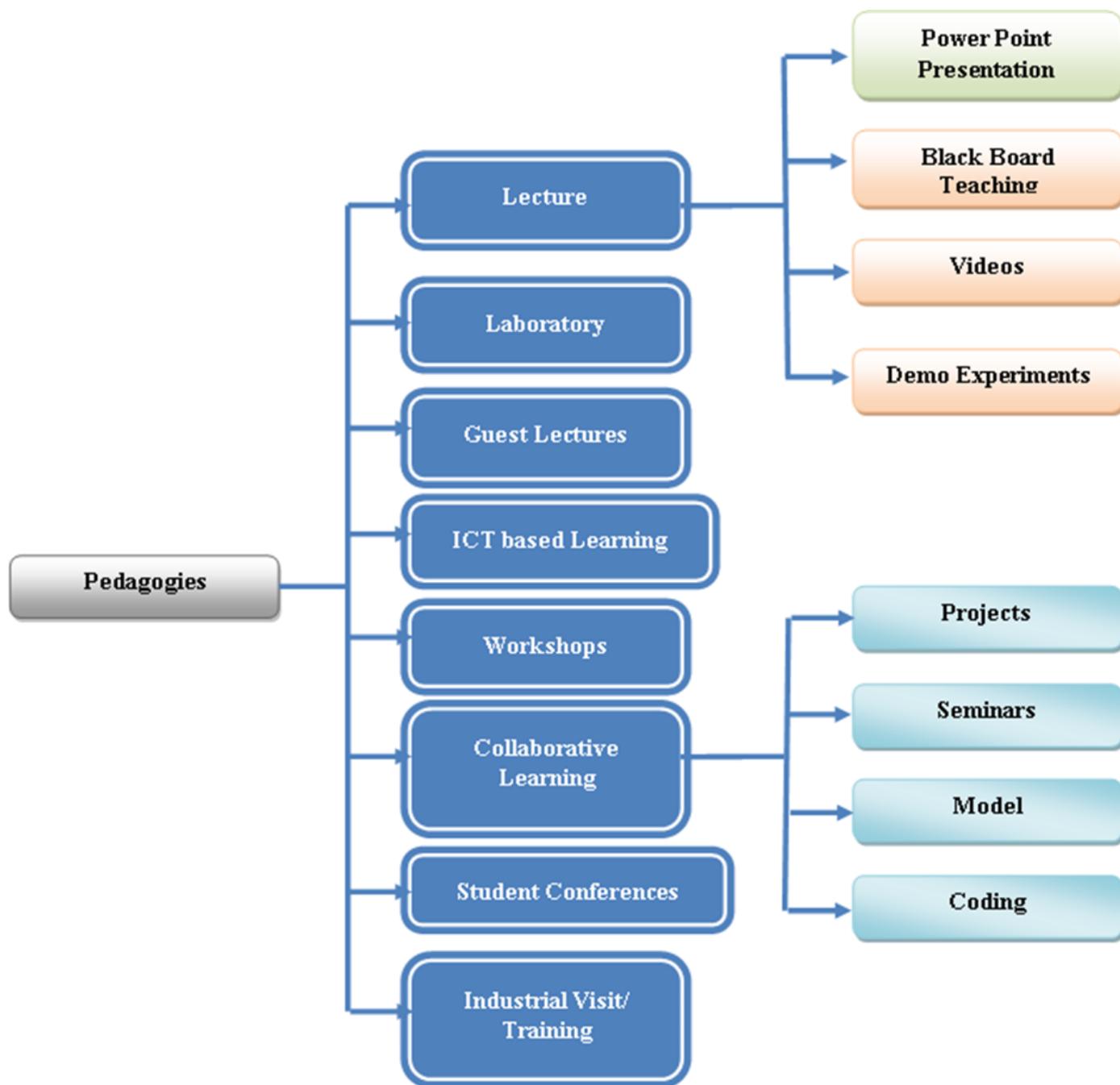
Activities like teaching and learning contribute to the improvement of student learning. These activities may include innovations not limited to, use of ICT, instruction delivery, instructional methods, assessment, evaluation and inclusive class rooms that lead to effective, efficient and engaging instruction.

#### The following innovative teaching methods are adopted by the faculty:

- Computers are used for teaching purpose and internet facility is available to students and faculty.
- Faculty members are utilizing resources like NPTEL, video lectures, MOOCs, E-Journals etc. for effective teaching.
- LCD projectors are used for teaching purposes.
- Google class room and webex platforms are used for on line teaching
- Working Models and Charts for Demonstration has been developed to increase the understanding

of students.

- An effective E-learning Platform (MOODLE) is used as a Learning Management System. Course Assignments and Quizzes are accessed through this e-learning platform.
- Conducting sessions to the students on advanced programming languages and softwares.



File Description	Document
Provide link for webpage describing ICT enabled tools including online resources for effective teaching and learning process	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>

**2.3.3 Ratio of students to mentor for academic and other related issues (Data for the latest completed academic year )****Response:** 20:1**2.3.3.1 Number of mentors ?????????????? ???????****Response:** 232

<b>File Description</b>	<b>Document</b>
Circulars pertaining to assigning mentors to mentees	<a href="#">View Document</a>

**2.3.4 Preparation and adherence of Academic Calendar and Teaching plans by the institution****Response:**

- An academic calendar provides the complete schedule of class work, mid examinations and end semester examinations for both odd and even semesters. Each semester will have a minimum of 90 working days. The calendar is prepared at the institutional level under the Principal's administration in consultation with the Controller of Examinations and HODs.
- The academic calendar prepared at the institution level is adhered to by all the departments strictly. Further individual departments prepare a detailed calendar consisting of both curricular and extracurricular activities without affecting the academic schedule. The departmental calendar also provides slots for guest lectures, industrial visits, seminars/workshops, Tech-fest etc.
- The responsibility for preparing the teaching plans for the subjects lies with the individual faculty. The teaching plan/course plan is prepared by the individual faculty well in advance based on the academic calendar and is checked by the appropriate committee in the department and authenticated by the concerned HoD. The academic plan structure is prepared to adhere to the needs of Outcome Based Education and faculty provides the details in the available to the students through MOODLE platform and also maintains course files.

<b>File Description</b>	<b>Document</b>
Link for Additional Information	<a href="#">View Document</a>

**2.4 Teacher Profile and Quality****2.4.1 Average percentage of full time teachers against sanctioned posts during the last five years****Response:** 100

File Description	Document
Year wise full time teachers and sanctioned posts for 5 years(Data Template)	<a href="#">View Document</a>
List of the faculty members authenticated by the Head of HEI	<a href="#">View Document</a>

#### 2.4.2 Average percentage of full time teachers with Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt. during the last five years (consider only highest degree for count)

**Response:** 30.06

##### 2.4.2.1 Number of full time teachers with *Ph.D./D.M/M.Ch./D.N.B Superspeciality/D.Sc./D’Lit.* year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
90	80	73	68	50

File Description	Document
Institutional data in prescribed format (Data Template)	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

#### 2.4.3 Average teaching experience of full time teachers in the same institution (Data for the latest completed academic year in number of years)

**Response:** 8.09

##### 2.4.3.1 Total experience of full-time teachers

Response: 2062.33

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

## 2.5 Evaluation Process and Reforms

### 2.5.1 Average number of days from the date of last semester-end/ year- end examination till the declaration of results year-wise during the last five years

**Response: 23.6****2.5.1.1 Number of days from the date of last semester-end/ year- end examination till the declaration of results year wise during the last five years**

2021-22	2020-21	2019-20	2018-19	2017-18
20	19	25	28	26

File Description	Document
Institutional data in prescribed format (Data Template)	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

**2.5.2 Average percentage of student complaints/grievances about evaluation against total number appeared in the examinations during the last five years****Response: 1.22****2.5.2.1 Number of complaints/grievances about evaluation year wise during the last five years**

2021-22	2020-21	2019-20	2018-19	2017-18
76	16	83	33	60

File Description	Document
Number of complaints and total number of students appeared year wise	<a href="#">View Document</a>

**2.5.3 IT integration and reforms in the examination procedures and processes including Continuous Internal Assessment (CIA) have brought in considerable improvement in Examination Management System (EMS) of the Institution****Response:**

The institute strongly believes in “Assessment Drives Learning” and appropriate measures are taken to revamp the assessment system in tune to outcome based education.

**Processes Integrating IT**

- Examination Management System (EMS) services are available to integrate all the activities in the

Examination Section. The pre and post examination activities are integrated, starting with examination notification.

- Payment gateway is also available for the payment of various fees online by the students to make the registrations online for various services.
- The EMS enables the student to see the results online.
- Complete automation of examination process helps in the successful execution of examination processes such as monitoring of examination fee payment, examination schedule, seating arrangement, attendance monitoring ,coding and decoding of scripts, marks data entry, preparation and analysis of program wise results.

### Continuous internal assessment system

- The performance of a student in each semester shall be evaluated subject-wise with a maximum of 100 marks each for theory and practical/ drawing subjects. For all lecture based theory courses, the assessment shall be for 40 marks through internal evaluation and 60 marks through external semester-end examination.
- Two mid semester exams, two assignment tests and quizzes are conducted for each paper of the subject in each semester and the results are placed in college website.
- Out of the 40 internal evaluation marks, 20 marks are assigned for 2 internal-mid exams, 10 marks for assignments, 5 marks for projects/ case studies /quiz/tests and 5 marks for attendance. The weighted average of 2 internal-mid exams is considered for the 20 marks allocated.
- Each student will perform about 10 to 12 experiments in each laboratory course. Laboratory course will be evaluated for 100 marks, out of which 50 marks are for external examination and 50 marks are for internal evaluation. The internal marks are awarded based on continuous assessment, internal lab examination and student regularity.
- The Continuous Internal Evaluation (CIE) marks / internal marks for all courses per semester are made available to students to ensure transparency.

**Examination Management System (EMS) of the Institution** - Institute is using *BeeS Examination Tool Plus (BET-PLUS)* which is having three modules.

**Modules:** There are three types of modules they are

- **Pre- Examination Module:** To generate student wise hall tickets, OMR answer booklet etc for the examination.
- **Post- Examination Module:** To maintain the both External and Internal Marks, Students Marks & Credit database etc.
- **Utilities & Exam accounts:** To maintain Examination Fee data, Mark sheets Generation etc.

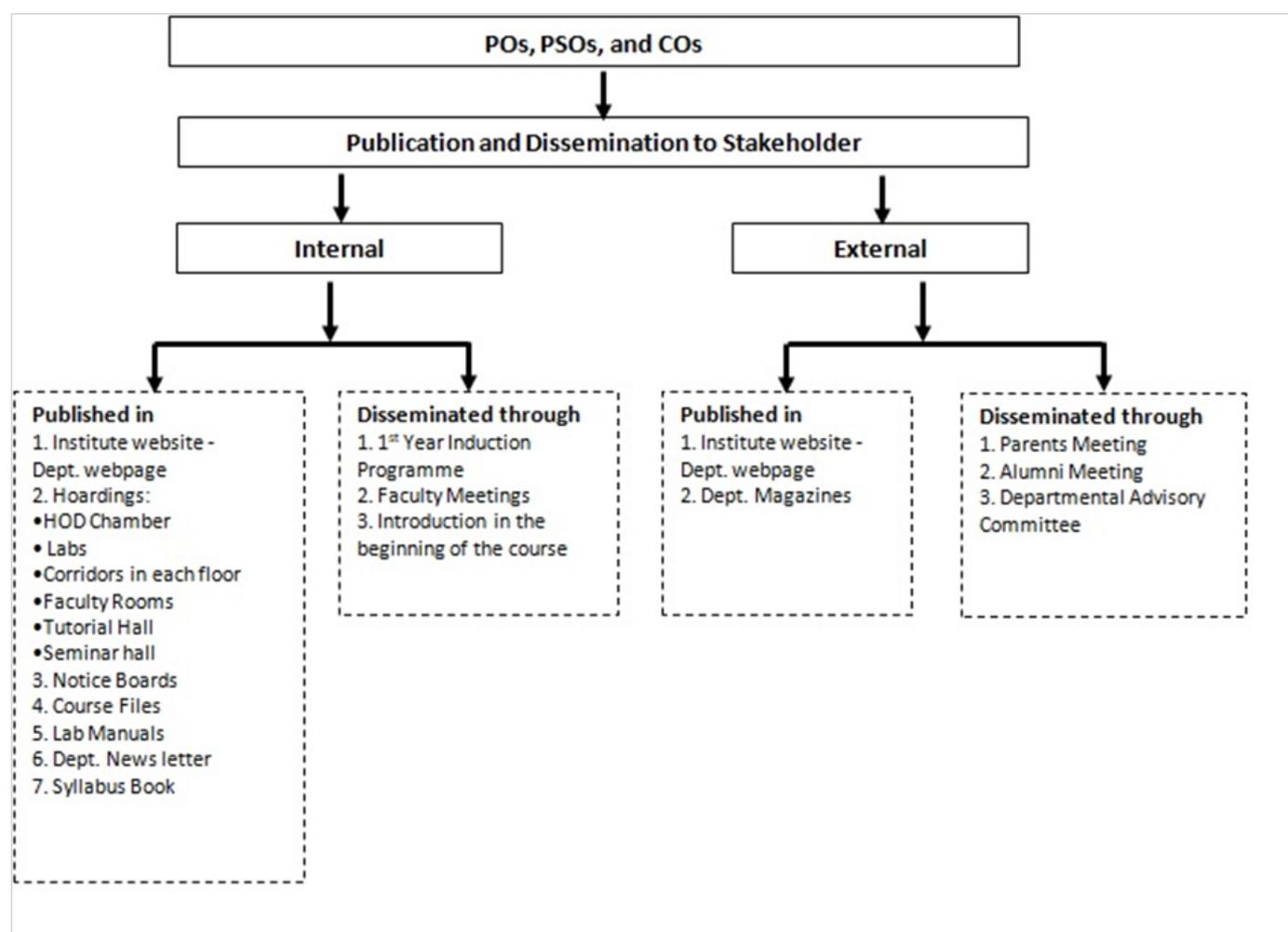
File Description	Document
Link for Additional Information	<a href="#">View Document</a>

## 2.6 Student Performance and Learning Outcomes

**2.6.1 Programme and course outcomes for all Programmes offered by the institution are stated and displayed on website and communicated to teachers and students.**

### Response:

The institute adheres to “Outcome Based Education (OBE)” process. Each programme defines Programme Educational Objectives (PEOs) which are broad statements that describe the professional and career accomplishments that the programme in preparing its graduates to accomplish and they are consistent with the mission of the department. Programme Outcomes (POs) transform PEOs into specific student performance and behavior that demonstrate student learning and skill development which are in line to the graduate attributes of NBA. Programme Specific Outcomes (PSOs) are defined to deal with the requirements of the particular to the related sub-discipline based on the strengths of the departments.



**The program outcomes are disseminated to all the stakeholders through various channels such as:**

- The department specifics are available in college website and on display boards in the departments
- Academic regulations / syllabus books are published in the prospectus
- Various interactions are held in the induction programme, Faculty meetings, Parents meeting and Professional body meetings.

**The dissemination of COs is generally done by:**

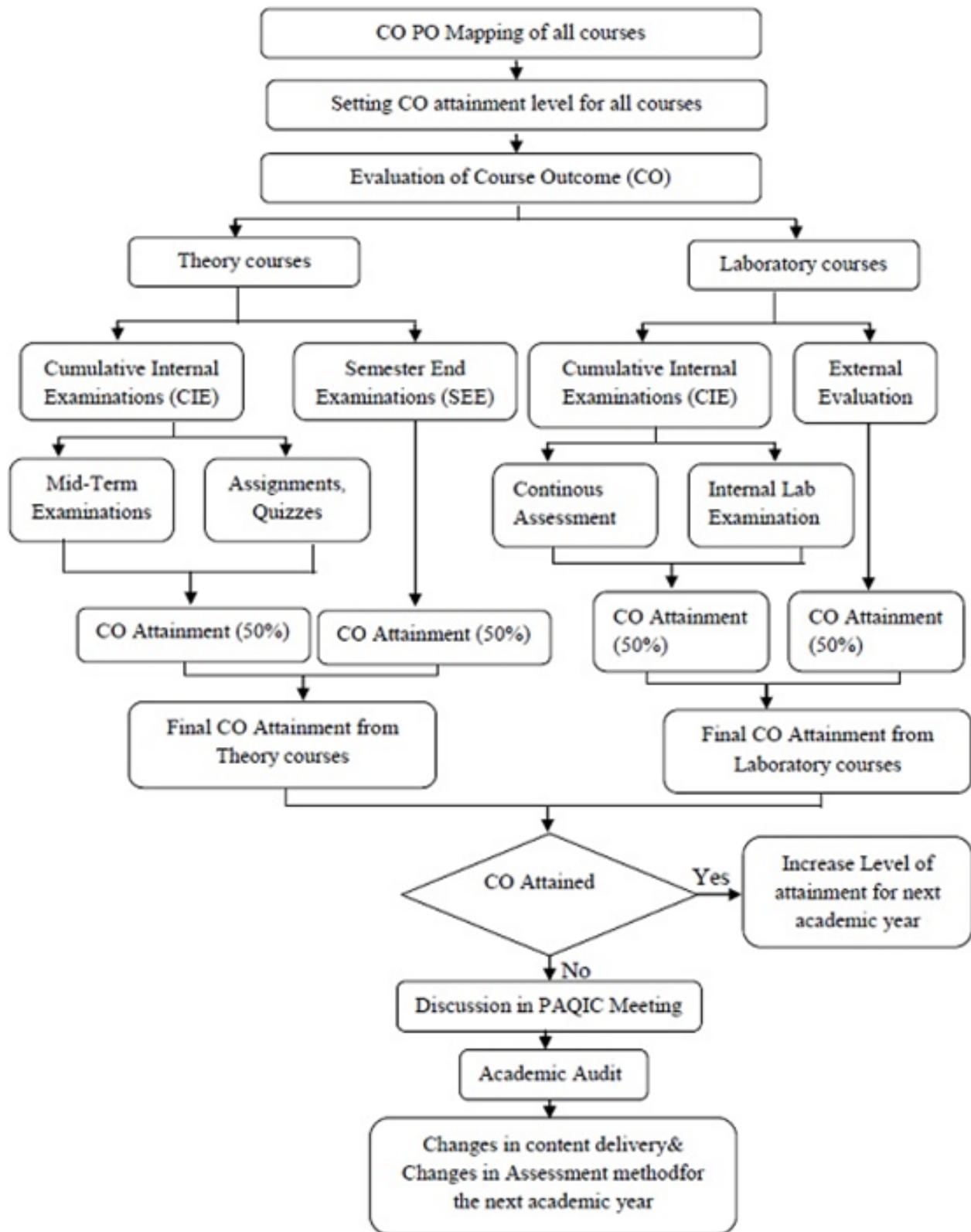
- Displaying them in the classrooms and laboratories.
- Posting the department specific syllabus in the website.
- Explaining in the introductory sessions during the commencement of courses
- In the learning management systems through MOODLE platform.

File Description	Document
Link for Additional Information	<a href="#">View Document</a>

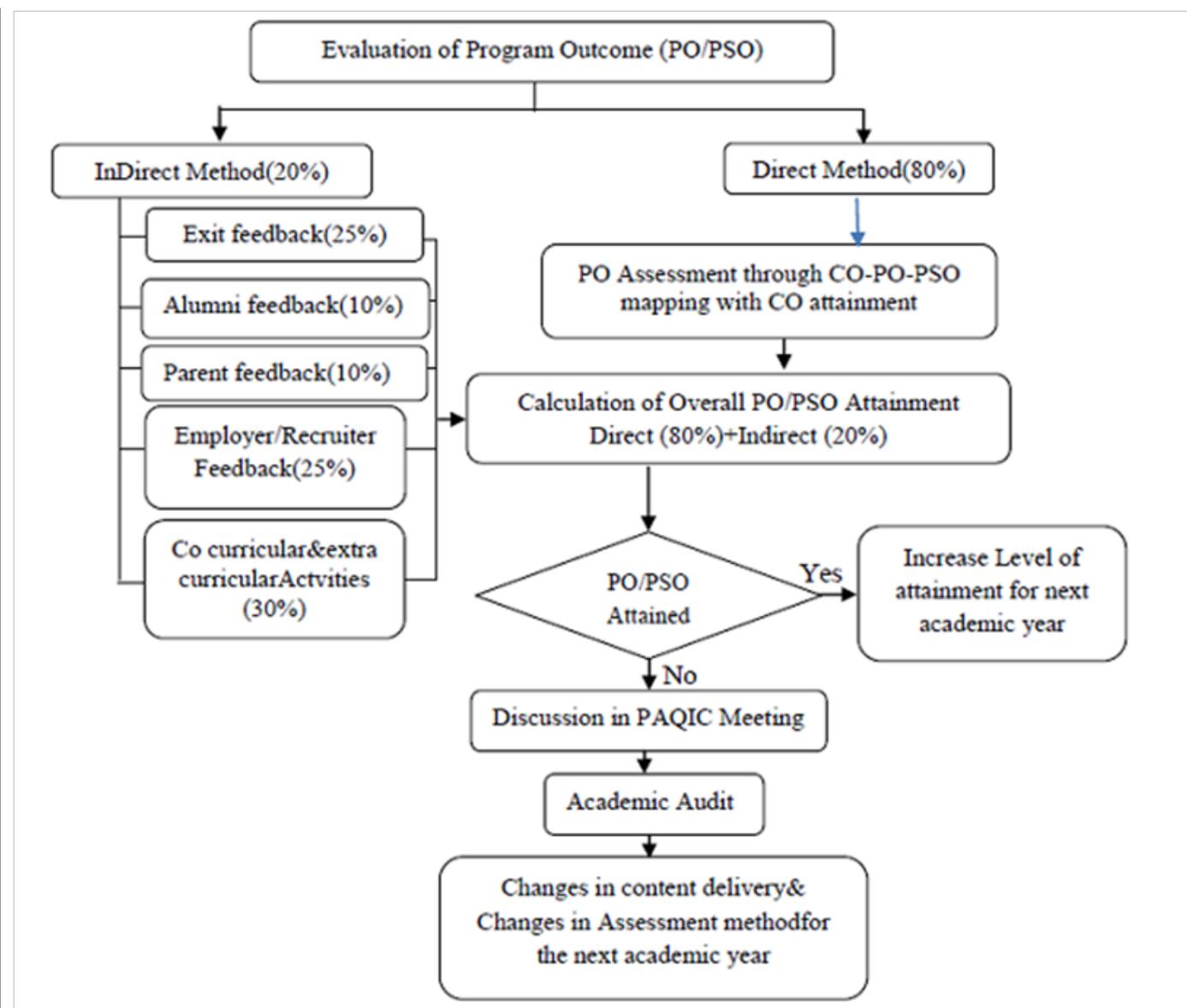
### 2.6.2 Attainment of programme outcomes and course outcomes are evaluated by the institution.

#### Response:

**Assessment of CO attainment** - The overall CO attainment is measured by considering the performance in Continuous Internal Evaluation and Semester End Examination which serves as the direct attainment tool and the Course End Survey which serves as the Indirect Assessment tool.



**Assessment of PO/PSO – Attainment**



**Direct Assessment Method:** In this method, each of the courses is mapped to POs through course outcomes. The POs attainment is calculated from each course by multiplying the COs attainment value with values present in the Course Articulation Matrix i.e., 3, 2 and 1 for High, Medium and low contribution respectively, towards POs. The POs attainment is calculated and observations are recorded. The average of PO attainment levels obtained from all courses contributing to that particular PO is calculated. The PSOs attainment is calculated by the process similar to that used for POs attainment. 80% weightage is given to the attainment calculated through direct method.

**Indirect Assessment Method:** Indirect method is done through surveys such as program exit feedback, Alumni feedback, Employer/Recruiter feedback, parents' feedback and through conduct of Extra-curricular and co-curricular activities. The questionnaire in various feedback forms is prepared by the respective in-charge in consultation with the HOD and distributed to the students at the end of every semester. 20% weightage is given to the attainment calculated through indirect method. The weightages of various parameters used in the indirect method are as shown below.

SNo	Parameter	Weightage (%)
1	Extra/co-curricular activities	30
2	Employer/ Recruiters Feedback	25

3	Exit Feedback	25
4	Alumni Feedback	10
5	Parents Feedback	10

File Description	Document
Link for Additional Information	<a href="#">View Document</a>

### 2.6.3 Pass Percentage of students(Data for the latest completed academic year)

**Response:** 96.75

#### 2.6.3.1 Total number of final year students who passed the examination conducted by Institution.

Response: 1072

#### 2.6.3.2 Total number of final year students who appeared for the examination conducted by the Institution.

Response: 1108

File Description	Document
Upload List of Programmes and number of students passed and appeared in the final year examination(Data Template)	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

## 2.7 Student Satisfaction Survey

### 2.7.1 Online student satisfaction survey regarding teaching learning process

**Response:**

File Description	Document
Upload database of all currently enrolled students	<a href="#">View Document</a>

## Criterion 3 - Research, Innovations and Extension

### 3.1 Promotion of Research and Facilities

**3.1.1 The institution's Research facilities are frequently updated and there is a well defined policy for promotion of research which is uploaded on the institutional website and implemented**

**Response:**

Anil Neerukonda Institute of technology and Sciences has strived ahead and attained a remarkable position in performing academics and research. ANITS has been forcing in various research activities like consultancy, patent and innovations as major thrust areas.

**Faculty development and research**

As part of promoting research activities, ANITS organises regular Expert Lectures on emerging topics by eminent persons from R& D establishments, National Institutions and Industrial experts. Faculty from various departments visited various organizations, industries and academic institutes to upgrade and bridge the gap between academics and industry.

**MOUs and Collaborative Learning**

ANITS has good collaboration with industry and academic institutes like NRDC, Infosys, NHA and various colleges to enhance the academic growth and also to keep the students aware of the collaborative learning from various organizations. As a part of MOU's student and faculty exchange programs take place every year by means of organizing joint training programs, internships to students, industrial visits, skill development programs. Various Consultancy activities are going on at ANITS with industry. With the financial assistance from the industries, the labs are well equipped and modernized through the MODROBS scheme which is adaptable to the new technological systems.

**The R&D committee**

An R&D committee has been constituted to examine the research activities of faculty and students. The committee consists of faculty coordinators from each department, which constantly monitors the R&D 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 meet once in a week to discuss the recent advances in their respective research areas. Regular lectures by in-house faculty at department level takes place to motivate new faculty to carry out research. 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:**

- Seed Money for faculty to encourage and promote research activity.
- 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 to faculty and students.
- Academic leaves for research work.
- Supporting measures for patent filing.
- Continuous augmentation of labs with state of art equipment and software.

File Description	Document
URL of Policy document on promotion of research uploaded on website	<a href="#">View Document</a>

### 3.1.2 The institution provides seed money to its teachers for research (average per year, INR in Lakhs)

**Response:** 6.1

#### 3.1.2.1 The amount of seed money provided by institution to its faculty year-wise during the last five years (INR in lakhs).

2021-22	2020-21	2019-20	2018-19	2017-18
30.5	0	0	0	0

File Description	Document
List of teachers receiving grant and details of grant received	<a href="#">View Document</a>
Budget and expenditure statements signed by the Finance Officer indicating seed money provided and utilized	<a href="#">View Document</a>

### 3.1.3 Percentage of teachers awarded national / international fellowship for advanced studies/research during the last five years

**Response:** 4.57

#### 3.1.3.1 The number of teachers awarded national / international fellowship for advanced studies / research year wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
31	19	03	01	01

File Description	Document
List of teachers and their international fellowship details	<a href="#">View Document</a>
e-copies of the award letters of the teachers	<a href="#">View Document</a>

### 3.2 Resource Mobilization for Research

<p><b>3.2.1 Grants received from Government and non-governmental agencies for research projects, endowments, Chairs in the institution during the last five years (INR in Lakhs)</b></p> <p><b>Response: 16.62</b></p>														
<p><b>3.2.1.1 Total Grants from Government and non-governmental agencies for research projects , endowments, Chairs in the institution during the last five years (INR in Lakhs)</b></p> <table border="1"> <thead> <tr> <th>2021-22</th> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> </tr> </thead> <tbody> <tr> <td>1.93</td> <td>1</td> <td>1.018</td> <td>7.43</td> <td>5.24</td> </tr> </tbody> </table>					2021-22	2020-21	2019-20	2018-19	2017-18	1.93	1	1.018	7.43	5.24
2021-22	2020-21	2019-20	2018-19	2017-18										
1.93	1	1.018	7.43	5.24										
File Description	Document													
List of project and grant details	<a href="#">View Document</a>													
e-copies of the grant award letters for research projects sponsored by government and non-government	<a href="#">View Document</a>													

<p><b>3.2.2 Percentage of teachers having research projects during the last five years</b></p> <p><b>Response: 0.67</b></p>														
<p><b>3.2.2.1 Number of teachers having research projects during the last five years</b></p> <table border="1"> <thead> <tr> <th>2021-22</th> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>1</td> <td>1</td> <td>2</td> <td>2</td> </tr> </tbody> </table>					2021-22	2020-21	2019-20	2018-19	2017-18	2	1	1	2	2
2021-22	2020-21	2019-20	2018-19	2017-18										
2	1	1	2	2										
File Description	Document													
Names of teachers having research projects	<a href="#">View Document</a>													

<p><b>3.2.3 Percentage of teachers recognised as research guides</b></p>				
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**Response:** 15.69

### 3.2.3.1 Number of teachers recognized as research guides

Response: 40

File Description	Document
Upload copies of the letter of the university recognizing faculty as research guides	<a href="#">View Document</a>
Link for additional information	<a href="#">View Document</a>

### 3.2.4 Average percentage of departments having Research projects funded by government and non-government agencies during the last five years

**Response:** 22.86

#### 3.2.4.1 Number of departments having Research projects funded by government and non-government agencies during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
2	1	1	2	2

#### 3.2.4.2 Number of departments offering academic programmes

2021-22	2020-21	2019-20	2018-19	2017-18
7	7	7	7	7

File Description	Document
Supporting document from Funding Agency	<a href="#">View Document</a>
List of research projects and funding details	<a href="#">View Document</a>

## 3.3 Innovation Ecosystem

**3.3.1 Institution has created an eco system for innovations, creation and transfer of knowledge supported by dedicated centers for research, entrepreneurship, community orientation, Incubation etc.**

**Response:**

## **INSTITUTION'S INNOVATION COUNCIL (IIC)**

ANITS established the Institution's Innovation Council (IIC) to support innovation and entrepreneurship. The IIC provides a platform to bring students' and faculty's innovative ideas to life and create an entrepreneurial ecosystem at the institute. ANITS IIC received funding for "Impact Lecture Series" in 2019-20, was recognized as an "IIC Mentor Institute" by AICTE in 2020-21, and designated as a "MSME Business Incubator" in 2021-22. ANITS students also won the Smart India Hackathon 2022, demonstrating their innovation. ANITS IIC organizes annual events on innovation, entrepreneurship, startups, and design thinking and received ratings of 2, 4.5, 4, and 4 stars out of 5 from the AICTE MHRD Innovation Cell in the years 2018-19, 2019-20, 2020-21, and 2021-22 respectively."

ANITS has received the AICTE-SPICES grant of Rs.1,00,000/- for supporting the student Coding club to Promote Interests, Creativity and Ethics among Students. With this support the coding club organized the various State & National level hackathons, Ideathons. ANITS established the following to build ecosystem for innovations, creation and transfer of knowledge.

### **E-Yantra Robotics Lab:**

This Laboratory which was established in the year 2018 in collaboration with the e-yantra laboratory of IIT Bombay. This Lab has been catering to the student's interest in Robotics. The lab is equipped with Robo-Kits, which are used in training the students for accomplishing innovative Projects in the field of Robotics. It has also paved the way for the students to get trained and there after participate in National Level Competitions.

### **Automotive hub:**

The Automotive Hub was established with a single motto of motivating the students in designing and fabrication of automobiles. Since the day of its inaugural, students across various batches from the year 2020 have been utilizing the facility in constructing e-Bike, combustion vehicles and e-Vehicles. The Hub is provided with all amenities and tool kits required for completing the fabrication of small scale automobiles. The addition of this facility has played a pivotal role in allowing the students to participate in National level go-Kart Competitions.

### **TINKERER'S LAB:**

ANITS has established the Tinkerers' Lab (TL), which provides an excellent place to experiment and try out new things and provides hands-on experience with electronic components. It is always open for students with the aim of converting their creative ideas into actual engineering products. To bring out the techie in Students, Tinkerer's Laboratory ANITS conducted 6 workshops (To impart skill) and 9 Competitions (To test the skill acquired) from the inception date (11/16) to till now (2/20). Also, it prepared and sent students to various National Competitions such as IOT Innovation Challenge, DST (Department of Science & Technology of Government of India & TI (Texas Instruments) IICDC, L&T TECHgium and won prizes.

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Paste link for additional information	<a href="#">View Document</a>

### 3.3.2 Number of workshops/seminars conducted on Research methodology, Intellectual Property Rights (IPR), entrepreneurship, skill development during the last five years.

**Response:** 169

#### 3.3.2.1 Total number of workshops/seminars conducted on Research methodology, Intellectual Property Rights (IPR), entrepreneurship, skill development year-wise during the last five years.

2021-22	2020-21	2019-20	2018-19	2017-18
59	24	48	16	22

File Description	Document
Report of the event	<a href="#">View Document</a>
List of workshops/seminars during last 5 years	<a href="#">View Document</a>

## 3.4 Research Publications and Awards

**3.4.1 The Institution ensures implementation of its stated Code of Ethics for research through the following: 1. Inclusion of research ethics in the research methodology course work 2. Presence of Ethics committee 3. Plagiarism check through software 4. Research Advisory Committee**

**Response:** A. All of the above

File Description	Document
Any additional information	<a href="#">View Document</a>

**3.4.2 Number of Ph.D's registered per teacher (as per the data given w.r.t recognized Ph.D guides/supervisors provided at 3.2.3 metric) during the last five years**

**Response:** 1.4

3.4.2.1 How many Ph.Ds are registered within last 5 years

Response: 56

3.4.2.2 Number of teachers recognized as guides during the last five years

Response: 40

File Description	Document
List of PhD scholars and their details like name of the guide , title of thesis, year of award etc	<a href="#">View Document</a>

### 3.4.3 Number of research papers per teachers in the Journals notified on UGC website during the last five years

Response: 2.97

#### 3.4.3.1 Number of research papers in the Journals notified on UGC website during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
96	126	130	244	119

File Description	Document
List of research papers by title, author, department, name and year of publication	<a href="#">View Document</a>

### 3.4.4 Number of books and chapters in edited volumes / books published per teacher during the last five years

Response: 0.99

#### 3.4.4.1 Total number of books and chapters in edited volumes/books published and papers in national/ international conference proceedings year-wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
77	43	50	32	36

File Description	Document
List books and chapters in edited volumes / books published	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

### 3.4.5 Bibliometrics of the publications during the last five years based on average citation index in Scopus/ Web of Science or PubMed

<b>Response:</b>	
<b>File Description</b>	<b>Document</b>
Bibliometrics of the publications during the last five years	<a href="#">View Document</a>

<b>3.4.6 Bibliometrics of the publications during the last five years based on Scopus/ Web of Science - h-index of the Institution</b>	
<b>Response:</b>	
<b>File Description</b>	<b>Document</b>
Bibliometrics of publications based on Scopus/ Web of Science - h-index of the Institution	<a href="#">View Document</a>

### 3.5 Consultancy

<b>3.5.1 Revenue generated from consultancy and corporate training during the last five years (INR in Lakhs).</b>				
<b>Response:</b> 11.24				
<b>3.5.1.1 Total amount generated from consultancy and corporate training year-wise during the last five years (INR in lakhs).</b>				
2021-22	2020-21	2019-20	2018-19	2017-18
0.835	1.139	0	0.105	9.161
<b>File Description</b>	<b>Document</b>			
List of consultants and revenue generated by them	<a href="#">View Document</a>			
Audited statements of accounts indicating the revenue generated through consultancy and corporate training	<a href="#">View Document</a>			

<b>3.5.2 Total amount spent on developing facilities, training teachers and staff for undertaking consultancy during the last five years (INR in Lakhs).</b>	
<b>Response:</b> 35.36	
<b>3.5.2.1 Total amount spent on developing facilities, training teachers and staff for undertaking consultancy during the last five years (INR in Lakhs)</b>	

2021-22	2020-21	2019-20	2018-19	2017-18
18.30	9.79	0	0	7.27

File Description	Document
List of facilities and staff available for undertaking consultancy	<a href="#">View Document</a>
Audited statements of accounts indicating the expenditure incurred on developing facilities and training teachers and staff for undertaking consultancy	<a href="#">View Document</a>

### 3.6 Extension Activities

#### 3.6.1 Extension activities are carried out in the neighbourhood community,-sensitising students to social issues, for their holistic development, and impact thereof during the last five years

##### Response:

ANITS instills the idea of social welfare in students and provides service to society. The institute organizes various activities under NSS and other student clubs. The institute is fully aware of its social responsibilities and contributed for the community well-being in different forms by encouraging its students and faculty to participate in social activities and help the needy. These social outreach programmes brought a great impact on the holistic development of the students as they come across different categories of the people and their living standards. Every year about 500 students register in NSS unit.

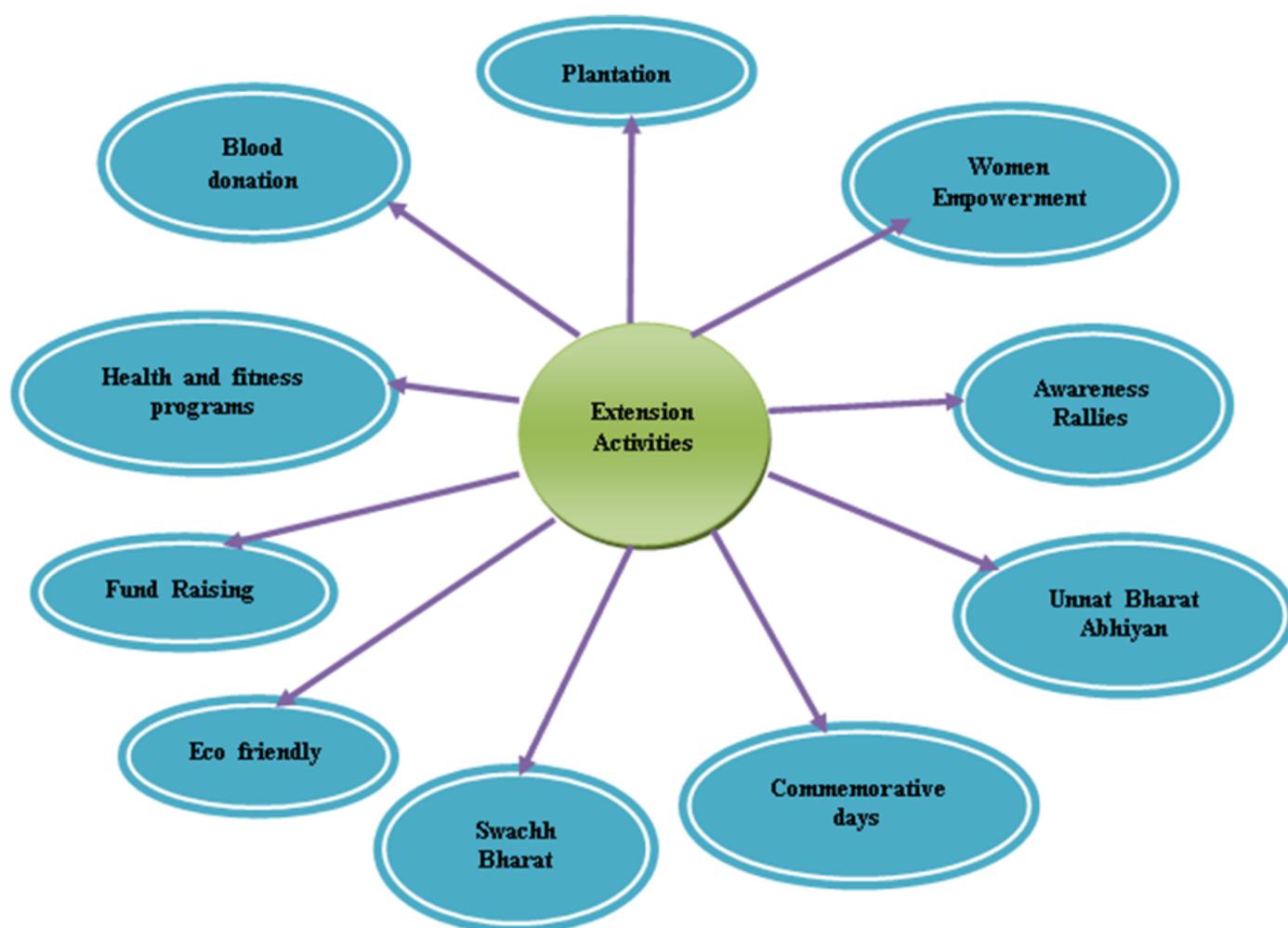
##### ANITS NSS Activities

- Eco-friendly Plantation Programme in and Out-side ANITS organized under RED Cross society with the participation of 67 students.
- Blood Donation Camp Life was organized Share Blood Bank with the participation of 28 students.
- Visit to Orphanage at Thallavalasa was organized under NSS-ANITS with the participation of 23 students.
- Under the organization of NSS / Indian Red Cross Society Plantation Program was conducted with the active participation of 250 students.
- World Water day Rally was conducted under the unit of NSS – CSE in which 316 took active participation.
- Nearly 260 students participated under Solid waste management program which was observed under the organizing unit of NSS – CSE
- Under the programme of No single use plastic, 130 students took part in cleaning surrounding areas by collecting polythene covers.
- 70 students participated in the programme One Day visit to Orphanage organized under Spoorthi

Orphanage

- Awareness Programme on Mosquito breeding and its preventions was carried out in nearby village.
- College cleanliness and Beach Cleanliness was organized under the scheme Swachhata Pakhwada and
- Swachh Bharat Abhiyan in which 131 students took initiative.
- Yoga was organized under Green club ANITS, with the collaboration of Yoga Conszscious center, Visakhapatnam with the involvement of 160 students.
- Save Soil \_ marathon and Save Soil\_ flash mob were organized under the scheme TACHAYAN with the participation of 200 students.
- Creating a Tobacco Free Society was observed on 12/01/2022 with 177 students in participation.
- Samudra Samrakshanam was actively participated by 148 students.

The activities constitutes to 18 such problem solving activities related to societal issues and environmental safety were organized during the last five years and around 1690students were participated in the events. ANITS has been striving to contribute towards humanitarian safety. One of the major activities is Blood donation activity. It is truly an altruistic gift that an individual can give to others in need as it's a lifesaving task. The ANITS NSS team in association with Lions club, NRI blood bank has organized many camps and about 900+ volunteers have donated blood for the good cause.



File Description	Document
Paste link for additional information	<a href="#">View Document</a>

**3.6.2 Number of awards and recognition received by the Institution, its teachers and students for extension activities from Government / Government recognised bodies during last five years****Response:** 158**3.6.2.1 Total number of awards and recognition received for extension activities from Government/ Government recognised bodies year-wise during the last five years.**

2021-22	2020-21	2019-20	2018-19	2017-18
81	70	2	3	2

File Description	Document
Number of awards for extension activities in last 5 year	<a href="#">View Document</a>
e-copy of the award letters	<a href="#">View Document</a>

**3.6.3 Number of extension and outreach programs conducted by the institution through NSS/NCC, Government and Government recognised bodies during the last five years****Response:** 127**3.6.3.1 Number of extension and outreach programs conducted by the institution through NSS/NCC, Government and Government recognised bodies during the last five years**

2021-22	2020-21	2019-20	2018-19	2017-18
31	18	42	27	9

File Description	Document
Reports of the event organized	<a href="#">View Document</a>
Number of extension and outreach Programmes conducted with industry, community etc for the last five years	<a href="#">View Document</a>

**3.6.4 Average percentage of students participating in extension activities listed at 3.6.3 above during the last five years****Response:** 56.26

**3.6.4.1 Total number of students participating in extension activities listed at 3.6.3 above year-wise during the last five years.**

2021-22	2020-21	2019-20	2018-19	2017-18
4040	2803	3196	1880	577

File Description	Document
Reports of the event	<a href="#">View Document</a>
Average percentage of students participating in extension activities with Govt or NGO etc	<a href="#">View Document</a>

**3.7 Collaboration****3.7.1 Number of Collaborative activities per year for research/ faculty exchange/ student exchange/ internship/ on –the-job training/ project work**

**Response:** 260.8

**3.7.1.1 Total number of Collaborative activities per year for research/ faculty exchange/ student exchange/ internship/ on –the-job training/ project work**

2021-22	2020-21	2019-20	2018-19	2017-18
615	362	73	149	105

File Description	Document
Number of Collaborative activities for research, faculty etc	<a href="#">View Document</a>

**3.7.2 Number of functional MoUs with institutions of national, international importance, other institutions, industries, corporate houses etc. during the last five years (only functional MoUs with ongoing activities to be considered)**

**Response:** 57

**3.7.2.1 Number of functional MoUs with institutions of national, international importance, other Institutions, industries, corporate houses etc. year wise during last five years**

2021-22	2020-21	2019-20	2018-19	2017-18
19	11	12	9	6

<b>File Description</b>	<b>Document</b>
Details of functional MoUs with institutions of national, international importance, other Institutions etc during the last five years	<a href="#">View Document</a>

## Criterion 4 - Infrastructure and Learning Resources

### 4.1 Physical Facilities

**4.1.1 The Institution has adequate infrastructure and physical facilities for teaching- learning. viz., classrooms, laboratories, computing equipment etc.**

**Response:**

The Institution located in the nearest place of Visakhapatnam to caters the needs of stake holders, has excellent infrastructural facilities spread over 10.5 Acres of land with 4, 20,000Sq. mt. built up area. The college has 9 engineering departments as well as supporting departments such as English and humanities, Mathematics, Physics, chemistry and Training & Placement. Each department is well-equipped with adequate facilities and amenities to facilitate effective teaching and learning. **It has 80 classrooms, 62 laboratories, 5 seminar halls, 4 drawing halls, A/C auditorium and one open auditorium.** The campus has Wi-Fi networks that cover the entire campus area, which promotes e-learning on campus. All laboratories are fully equipped with cutting-edge technology in accordance with curriculum and research requirements.

- **Class Rooms:** Well-designed 80 large classrooms are available to satisfy the needs of the students in a collaborative setting. The rooms are well-equipped with LCD projectors, ICT, and technical tools that would facilitate the students' efficient studying in addition to being in keeping with the environment.
- **Laboratories:** In order to improve the students' practical skills, many labs have been established. Modern laboratories have been put up to replace UG and PG courses as well as tailor the necessary abilities. Language laboratories have been built to develop and model the leadership and communication skills necessary to master the trade of communication.
- **Seminar Halls:** For conducting seminars and expert talks, the institution offers a large number of seminar halls that are well-equipped with Wi-Fi, ICT resources, and audio visual aids.
- **Computing equipment:** 1128 computers with various specifications are present across the institution. The entire Institution is equipped with network infrastructure with a 100 Mbps internet connection. In addition to this, the Institution supports learning outcomes with necessary equipment such scanners, printers, and CD/DVD writers.
- **Library:** More than 12000 square feet of floor space comprise the central library. The Library is equipped with contemporary amenities and materials including ILMS Software. With the advent of 8,401 Book titles, 40,186 Book Volumes, e-books, e-journals, and audio/visual materials, the LIBSYS software package has been used to computerise library operations. Each department has a departmental library in addition to the central library. Digital library is equipped with computer systems and headphones to access OPAC, databases, e-books, e-journals and the NPTEL video lectures and online journals through IEEE, ASME, ASCE, SPRINGER, ELSEVIER, J- Gate etc.

The college has power generator (500KVA) to address the issue of power outages and to ensure that laboratories, computer labs, and hostels have continuous power supply. Buildings have ramps/lifts and separate rest rooms with western toilets to accommodate differently abled students. On campus, there is also a RO water plant to ensure the availability of safe drinking water. The fire safety system is well established in the campus.

In addition to the campus hostel, the college provides bus transportation to students and faculty. The

institution has excellent infrastructure for academic, co-curricular, and extra-curricular activities. There are also a bank, an ATM, a stationery store, and a canteen.

File Description	Document
Paste link for additional information	<a href="#">View Document</a>

#### 4.1.2 The institution has adequate facilities for cultural activities, yoga, games and sports (indoor & outdoor); (gymnasium, yoga centre, auditorium, etc.,)

##### Response:

The college physical education department coordinates with different sports and games, giving equal weight to men and women. The following sports and games are designated to encourage leadership abilities, team skills, fraternity, and coping under pressure. The students are encouraged to practice and participate in inter-collegiate, inter-university state level and national level competitions. The college facilities indoor Badminton stadium and game room to conduct Indoor games like Table Tennis, Chess, Weight lifting, Powerlifting, Caroms and special court for each Outdoor sports and Games like Basketball, Volleyball, Handball, Netball, Kho-Kho, Kabaddi, Throw ball and Cricket.

##### Yoga

The campus has a yoga centre to accommodate 200 members, and in addition to this, an open auditorium is also used for large-scale activities. The college hosts frequent sessions in collaboration with nearby yoga institutes. In collaboration with Sri Pathanjali Yoga Kendra, yoga and meditation classes are offered, and periodic large-scale yoga events are planned.

##### Gymnasium

The college facilitates Gymnasium to build mental and physical strength, which is accessible to both faculty and students. They have all of the necessary exercise equipment, such as a Six Station Multi-Gym, a Motorized Tread Mill, and dumbbells etc. In addition to this the gym facility in both boys' and girls'.

##### Cultural Activities

The college has a cultural club where interested students gather to practise and enhance their talents. Each department has student activity rooms to perform these activities, and they also use the open auditorium and vast open area on campus. Through the departmental tech-fests, cultural fests, and college day festivities, they get the chance to showcase their talent.

File Description	Document
Paste link for additional information	<a href="#">View Document</a>

**4.1.3 Percentage of classrooms and seminar halls with ICT- enabled facilities such as smart class, LMS, etc. (Data for the latest completed academic year)****Response:** 100**4.1.3.1 Number of classrooms and seminar halls with ICT facilities**

Response: 85

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>
Paste link for additional information	<a href="#">View Document</a>

**4.1.4 Average percentage of expenditure for infrastructure augmentation excluding salary during the last five years (INR in Lakhs)****Response:** 40.25**4.1.4.1 Expenditure for infrastructure augmentation, excluding salary year-wise during last five years (INR in lakhs)**

2021-22	2020-21	2019-20	2018-19	2017-18
672.50	106.61	476.50	301.37	560.50

File Description	Document
Upload Details of Expenditure , excluding salary during the last five years	<a href="#">View Document</a>
Upload audited utilization statements	<a href="#">View Document</a>
Link for any additional information	<a href="#">View Document</a>

**4.2 Library as a Learning Resource****4.2.1 Library is automated using Integrated Library Management System (ILMS)****Response:**

The library is fully automated with LIBSYS.4.0 and the entire collection of the library can be browsed through college LAN. This library automation software also helps in for user search for books, documents and journals. In addition to the central library, every department has its own departmental library.

The Central Library, ANITS is one amongst major technological libraries in the area of engineering and

technology. The Library was established in 2001. Located in the western wing of the block, the central library has a floor area of more than 12000sq. ft. The Library is well equipped with modem facilities and resources (print and electronic) in the forms of Books -40,186, Titles - 8,401, Journals - 91, Project Reports- 677, Bound Volumes – 582, CDRoms, DVD-ROM - 2666, Previous question papers, sc & st Book Bank Books - 698 and Eight Online Databases etc. Our library operations have been computerized using LIBSYS software package. 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 E-Journals and articles can be downloaded in the Browsing Centre. For using the Browsing service. It has also developed a full-fledged 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 institute's intellectual output for campus wide access and digital preservation for the posterity. The central library is opened from 8.00 A.M. to 7.00 P.M on all working days. Reprography facilities are available in the central library for the benefit of the students. The digital Library section has 30 exclusive systems with internet connectivity; the students can browse the internet and can also download useful information, during their free time.

Library & Information Centre provides uncompromising information and intellectual requirements to its students and faculty with a user-friendly approach. It offers a fully integrated and dynamic environment for conducting academic study. Multiple copies ensure that resources are easily available in Reference Section and Stock Section as well. Beside this, it provides Lending of books and journal back volumes, reservation of books, photocopying, CD/DVD and Internet services, etc.

File Description	Document
Paste Link for additional information	<a href="#">View Document</a>

#### **4.2.2 Institution has access to the following: 1. e-journals 2. e-ShodhSindhu 3. Shodhganga Membership 4. e-books 5. Databases 6. Remote access to e-resources**

**Response:** A. Any 4 or more of the above

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>

#### **4.2.3 Average annual expenditure for purchase of books/ e-books and subscription to journals/e-journals during the last five years (INR in Lakhs)**

**Response:** 14.74

##### **4.2.3.1 Annual expenditure of purchase of books/e-books and subscription to journals/e- journals year wise during last five years (INR in Lakhs)**

2021-22	2020-21	2019-20	2018-19	2017-18
17.42	13.06	14.9	18.4	9.9

File Description	Document
Details of annual expenditure for purchase of and subscription to journals/e-journals during the last five years	<a href="#">View Document</a>

#### 4.2.4 Percentage per day usage of library by teachers and students ( foot falls and login data for online access) during the latest completed academic year

**Response:** 16.24

##### 4.2.4.1 Number of teachers and students using library per day over last one year

Response: 780

### 4.3 IT Infrastructure

#### 4.3.1 Institution has an IT policy covering wi-fi, cyber security, etc., and allocated budget for updating its IT facilities

**Response:**

The computer development and maintenance cell (CDM) and the website committee constituted in the college ensure IT policy implementation. In means of providing internet access to students and faculty, the institute is well equipped with 974 systems with connectivity of 100 Mbps band with with1:1 connection ratio. More than 100 systems are available for administrative, examination section and other academic needs. The periodical updates and maintenance is done by the qualified in-house personnel.

The principal's office, Administrative office, examination section, Training and placement cell and senior Faculty member cabins and all Departments are well equipped with computer systems, scanners, printers, reprography machines, Wi-Fi routers with advanced configurations.

The computer labs are with internet facility and are respectively installed with licensed software in all departmental labs depending on requirement like MAT lab, Auto CAD, Stad Pro, Turbo C++, Catia, Solidworks, ANSYS which are upgraded to meet the students as provided in the syllabus and in pursuing of student's need, if any. The whole campus is Wi-Fi connected and SOPHOS software is used for network security.

File Description	Document
Paste link for additional information	<a href="#">View Document</a>

**4.3.2 Student - Computer ratio (Data for the latest completed academic year)****Response:** 4:1

File Description	Document
Student - computer ratio	<a href="#">View Document</a>

**4.3.3 Bandwidth of internet connection in the Institution.****Response:** 250 MBPS

File Description	Document
Details of available bandwidth of internet connection in the Institution	<a href="#">View Document</a>

**4.3.4 Institution has the following Facilities for e-content development**

1. Media centre
2. Audio visual centre
3. Lecture Capturing System(LCS)
4. Mixing equipments and softwares for editing

**Response:** A. All of the above

File Description	Document
Upload Additional information	<a href="#">View Document</a>
Institutional data in prescribed format	<a href="#">View Document</a>

**4.4 Maintenance of Campus Infrastructure****4.4.1 Average percentage expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component during the last five years****Response:** 51**4.4.1.1 Expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component year wise during the last five years (INR in lakhs)**

2021-22	2020-21	2019-20	2018-19	2017-18
531.38	478.19	421.10	537.41	637.04

File Description	Document
Details about assigned budget and expenditure on physical facilities and academic facilities	<a href="#">View Document</a>
Audited statements of accounts	<a href="#">View Document</a>

#### 4.4.2 There are established systems and procedures for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc.

##### Response:

The institution has appointed dedicated staff for maintaining facilities such as buildings, Transports, Electrical, House Keeping, and Gardening etc.,

**LABORATORY:** Periodic equipment inspection is conducted by the lab in-charges regularly. In the laboratories, routine maintenance is also carried out, and corresponding registers are kept. The lab supervisors or academic member in charge of the affected lab perform minor repairs.

**LIBRARY MAINTENANCE:** Keeping library materials in good condition requires constant stack monitoring, putting new items on display racks, checking bundles, and organising books and periodicals on shelves following each use. In addition to them, the material is regularly dusted and cleaned to minimise damage caused by pest invasion, dust, and insects. This organisation has a library oversight committee to keep an eye on the superior maintenance.

**SPORTS ROOM:** Year-round, adequate maintenance is performed on all indoor and outdoor sports infrastructure facilities. Playgrounds, sporting goods, and other gym and field equipment are all routinely maintained. To ensure the appropriate handling of the sporting goods, a stock register and issue register are kept.

**IT MANAGEMENT:** System administrators deal with network, biometric, and software installation problems as well as firewall, anti-virus, and hardware troubleshooting issues. They also maintain computers, CC cameras, and other IT equipment. To secure the software and systems, firewalls and antivirus software are implemented. The register is reviewed weekly to assess the state of the hardware and software. The register contains breakdown maintenance information for system failures brought on by SMPS issues or boot failures. The system administrators' address little issues. With the Head of the Institution's approval, assistance from the dealer is sought to address major failures. Software and antivirus are routinely updated.

**CLASSROOMS:** The state of the classrooms' ICT infrastructure is evaluated at the start of each semester. The teacher's supervisor keeps the classroom's walls, chairs, fans, and lighting clean on a regular basis.

**ELECTRICAL MAINTENANCE:** The Supervisors will do routine servicing and maintenance to ensure that the entire institution has access to fresh, filtered water. The majority of maintenance work is finished over the summer break, and HOD/EEE and the in-charges of various facilities are primarily responsible for

closely monitoring maintenance activities. The HOD/EEE and the authorised electrical supervisor chosen by the college oversee electrical upkeep. The electrical supply, electrical troubleshooting, routine maintenance of 11KV electrical installations (11KV transformer), switch gear, operation of diesel generator set, monthly energy consumption records, etc. are all handled by a committee at this institution.

**TRANSPORTATION:** Both students and employees have access to first-rate transportation options. All across the city, college buses operate.

File Description	Document
Paste link for additional information	<a href="#">View Document</a>

## Criterion 5 - Student Support and Progression

### 5.1 Student Support

#### 5.1.1 Average percentage of students benefited by scholarships and freeships provided by the Government during last five years

Response: 50.26

##### 5.1.1.1 Number of students benefited by scholarships and free ships provided by the institution, Government and non-government bodies, industries, individuals, philanthropists during the last five years (other than students receiving scholarships under the government schemes for reserved categories)

2021-22	2020-21	2019-20	2018-19	2017-18
2610	2132	2095	2205	2037

File Description	Document
upload self attested letter with the list of students sanctioned scholarships	<a href="#">View Document</a>
Institutional data in prescribed format	<a href="#">View Document</a>

#### 5.1.2 Average percentage of students benefited by scholarships, freeships, etc. provided by the institution and non-government agencies during the last five years

Response: 30.23

##### 5.1.2.1 Number of students benefited by scholarships and free ships provided by the institution, Government and non-government bodies, industries, individuals, philanthropists during the last five years (other than students receiving scholarships under the government schemes for reserved categories)

2021-22	2020-21	2019-20	2018-19	2017-18
1210	1029	1298	1438	1657

File Description	Document
Number of students benefited by scholarships and freeships besides government schemes in last 5 years	<a href="#">View Document</a>
Institutional data in prescribed format	<a href="#">View Document</a>

**5.1.3 Following Capacity development and skills enhancement activities are organised for improving students capability 1. Soft skills 2. Language and communication skills 3. Life skills (Yoga, physical fitness, health and hygiene) 4. Awareness of trends in technology**

**Response:** A. All of the above

File Description	Document
Details of capability enhancement and development schemes	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

**5.1.4 Average percentage of students benefited by career counseling and guidance for competitive examinations as offered by the Institution during the last five years.**

**Response:** 99.26

**5.1.4.1 Number of students benefitted by guidance for competitive examinations and career counselling offered by the institution year wise during last five years**

2021-22	2020-21	2019-20	2018-19	2017-18
4449	4438	4327	4402	4233

File Description	Document
Number of students benefited by guidance for competitive examinations and career counselling during the last five years	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

**5.1.5 The institution adopts the following for redressal of student grievances including sexual harassment and ragging cases 1. Implementation of guidelines of statutory/regulatory bodies 2. Organisation wide awareness and undertakings on policies with zero tolerance 3. Mechanisms for submission of online/offline students' grievances 4. Timely redressal of the grievances through appropriate committees**

**Response:** A. All of the above

File Description	Document
Minutes of the meetings of student redressal committee, prevention of sexual harassment committee and Anti Ragging committee	<a href="#">View Document</a>

## 5.2 Student Progression

### 5.2.1 Average percentage of placement of outgoing students during the last five years

**Response:** 44.89

#### 5.2.1.1 Number of outgoing students placed year - wise during the last five years.

2021-22	2020-21	2019-20	2018-19	2017-18
725	602	484	430	243

#### File Description

#### Document

Self attested list of students placed

[View Document](#)

Details of student placement during the last five years

[View Document](#)

### 5.2.2 Percentage of student progression to higher education (previous graduating batch).

**Response:** 6.43

#### 5.2.2.1 Number of outgoing student progressing to higher education.

Response: 73

#### File Description

#### Document

Upload supporting data for student/alumni

[View Document](#)

Details of student progression to higher education

[View Document](#)

### 5.2.3 Average percentage of students qualifying in state/national/ international level examinations during the last five years (eg: IIT-JAM/CLAT/ NET/SLET/GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/State government examinations, etc.)

**Response:** 68.26

#### 5.2.3.1 Number of students qualifying in state/ national/ international level examinations (eg: IIT/JAM/ NET/ SLET/ GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/ State government examinations, etc.)) year-wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
71	58	77	60	42

**5.2.3.2 Number of students appearing in state/ national/ international level examinations (eg: IIT/JAM/ NET / SLET/ GATE/ GMAT/CAT,GRE/ TOEFL/ Civil Services/ State government examinations) year-wise during last five years**

2021-22	2020-21	2019-20	2018-19	2017-18
94	83	102	98	71

File Description	Document
Upload supporting data for student/alumni	<a href="#">View Document</a>
Number of students qualifying in state/ national/ international level examinations during the last five years	<a href="#">View Document</a>

### 5.3 Student Participation and Activities

**5.3.1 Number of awards/medals won by students for outstanding performance in sports/cultural activities at inter-university/state/national / international level (award for a team event should be counted as one) during the last five years.**

**Response:** 108

**5.3.1.1 Number of awards/medals won by students for outstanding performance in sports / cultural activities at inter-university / state / national / international events (award for a team event should be counted as one) year - wise during the last five years.**

2021-22	2020-21	2019-20	2018-19	2017-18
27	06	24	32	19

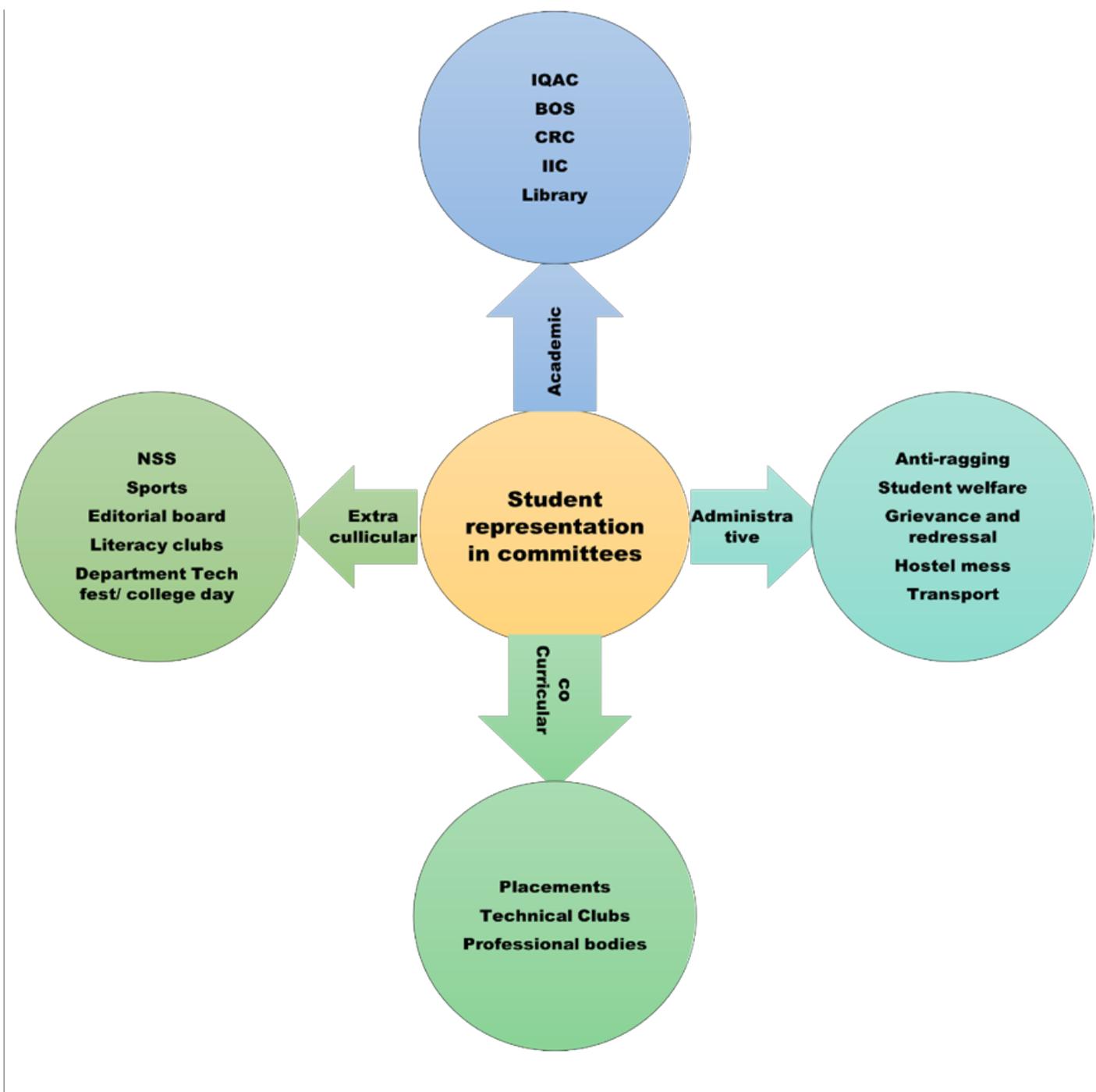
File Description	Document
Number of awards/medals for outstanding performance in sports/ cultural activities at inter-university / state / national / international level during the last five years	<a href="#">View Document</a>
e-copies of award letters and certificates	<a href="#">View Document</a>

**5.3.2 Presence of an active Student Council & representation of students on academic &**

**administrative bodies/committees of the institution****Response:**

The primary goals of the ANITS student council are to actively include the students in the growth of the institution and to develop their soft skills by giving them opportunities to take part in a variety of on- and off-campus activities. They have the freedom to focus on things like developing their soft skills, coordination, teamwork, collaborative activities, networking, and self-belief on their own. Various committees /activities through which students play a crucial role in the development of the institute are:

1. **Library committee:** The committee helps in the development of the library, address the issues on procurement of new titles, issue and renewals of books, journal etc., and addresses the student-related issues.
2. **Sports committee:** The student members help in enhancing the sports facilities/activities in the college and organizing sports during various events.
3. **Hostel mess committee:** They play a major role regarding food quality, hygiene and other general facilities. Also, they voluntarily monitor day-to-day activities and bring them to the notice of the warden immediately.
4. **IQAC:** Student representatives are nominated for this cell who participates in the decisions regarding the quality initiatives of the institute.
5. **Placements committee:** The student members help in organizing the placement related activities, support during the campus recruitment drives, disseminate the policies of placement cell among the students etc.,
6. **Editorial board:** Students are nominated as editorial members of the annual magazine and newsletters which bring the talents of students through articles, story writing, poems, and paintings and also reflect the academic & other co-curricular and extracurricular achievements. This helps them in honing their editing skills also.
7. **Grievance redressal committee:** As members of this committee students will address various issues related to student grievances.
8. **Department Tech fests/college day committees:** Students of the institute have wonderful organizing skills as each departmental Tech-fests are organized by students themselves. This enhances their leadership, and managerial skills and enhances teamwork.
9. **Class Review Committee (CRC):** Each department has CRC where students directly interact with faculty and HoD to discuss issues related to syllabus coverage, classroom engagement and issues related to teaching and learning processes.
10. **Professional bodies:** All professional society student chapters are in the institute such as the Institution of Engineers (IE), Institution of Electronics and Telecommunication Engineers (IETE), Association for Computing Machinery (ACM), Computer Society of India (CSI), Indian Society for Heating, Refrigeration and air-conditioning (ISHRAE), Society of Automotive Engineers (SAE) chapter etc., are run by students, enable them abreast with latest technological developments in the respective fields of study.
11. **Humanitarian and Social awareness bodies:** Students are at the forefront of such activities and participate in NSS and other activities related to societal issues.
12. **Clubs:** Apart from the committees, students are active members of various clubs such as cultural clubs, literacy clubs (La Literati, Toastmasters) and other technical clubs (Robotics club, tinkers club, coders club) which help them to enhance their talents and showcase their skills.



File Description	Document
Paste link for Additional Information	<a href="#">View Document</a>

**5.3.3 Average number of sports and cultural events / competitions organised by the institution per year**

**Response: 21**

**5.3.3.1 Number of sports and cultural events / competitions organised by the institution year - wise during the last five years.**

2021-22	2020-21	2019-20	2018-19	2017-18
40	08	20	19	18

File Description	Document
Report of the event	<a href="#">View Document</a>
Number of sports and cultural events / competitions organised per year	<a href="#">View Document</a>

## 5.4 Alumni Engagement

### 5.4.1 The Alumni Association / Chapters (registered and functional) contributes significantly to the development of the institution through financial and other support services.

#### Response:

ANITS Alumni Association (AAA) is a registered body (Regd. No:1789 /2006) with various members to engage, execute and enhance various activities of the association. In order to foster contact and comradely among alumni, staff, and management, the alumni association is quite active. Alumni support the college in sustaining its magical goals in accordance with its vision and mission. ANITS has held a number of alumni association meetings. The Institute encourages Alumni entrepreneurs to incubate their ideas at ANITS

#### Alumni Participation in Curricular and Co-Curricular Activities:

- BOS members in all departments provide feedback for Curriculum improvement to meet the demands of the Industry.
- Mentoring programme for III/IV B.Tech towards placements and career advancement.
- Expert talk as a part of the Career Guidance Programme for the students.
- Mock interviews before Company specific placements.
- Financial Contribution.

Numerous members of our alumni have held important positions in a variety of fields, including banking, finance, IT, education, and entrepreneurship. The institution has a history of its graduates performing exceptionally well in a variety of fields. Many of them hold important positions in numerous private and public sector organisations both in India and abroad, and they have won honours for the institute. The majority of alumni have consistently given their knowledge and assisted the institute in various ways.

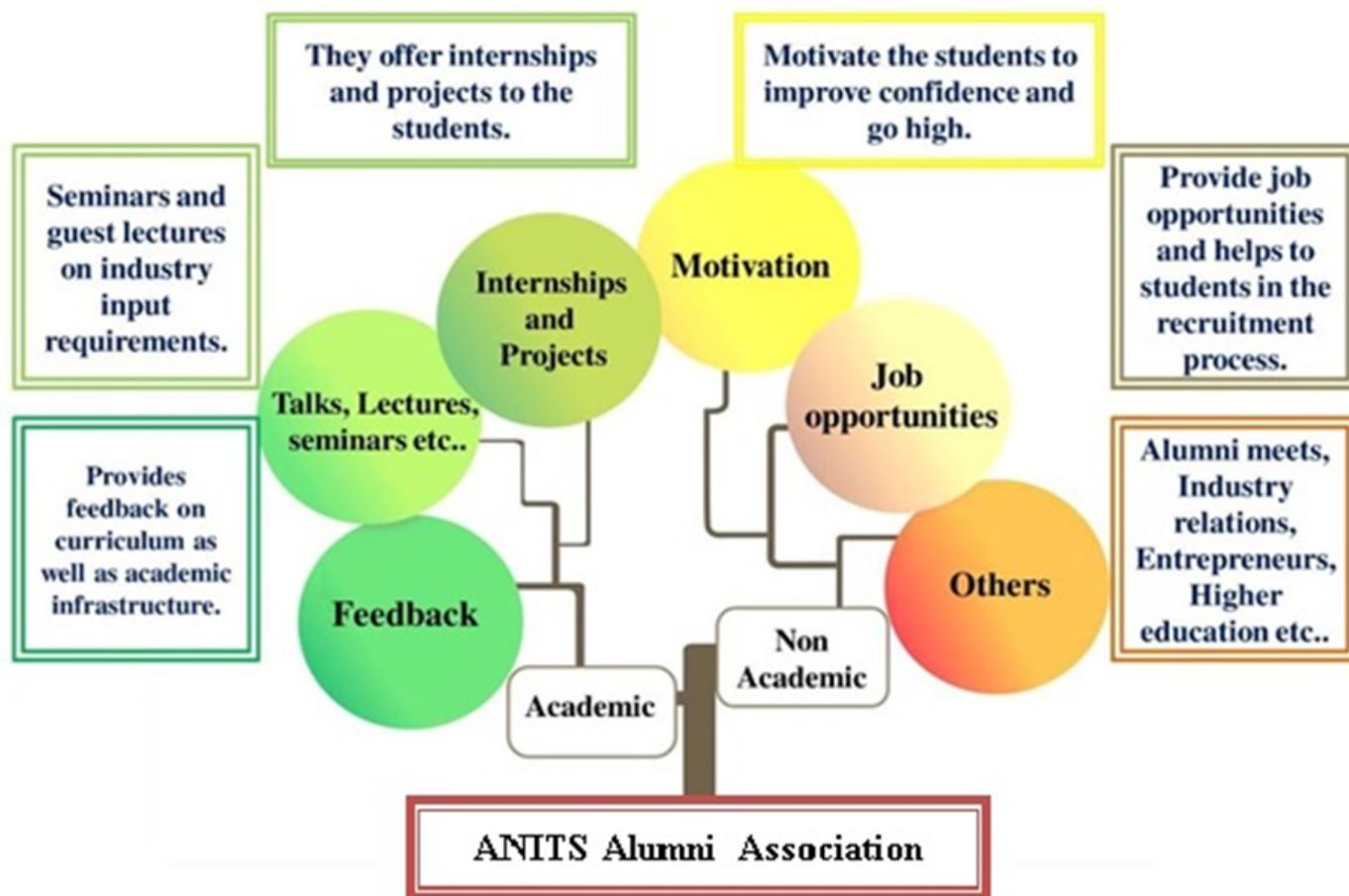
#### Alumni association support financial and non-financial assistance:

By offering career advice for strengthening the placements in ongoing placements, the alumni association assists the college in fostering the students' development of technical and soft skills. The college welcomes alumni to mentor young, aspiring engineers by teaching them about behavioural management, current opportunities, stress management, career management, time management, etc. Additionally, special lectures are planned on subjects related to higher education, current affairs, industrial revolutions, and

technical advancements.

Talented graduates are likely to have a lot of knowledge and abilities to impart to current students through lectures and newsletters. Alumni gatherings are regularly held, and their minutes and Events are noted down. All alumni names, addresses, and contact information are kept in a database.

Alumni are supporting the student clubs by both providing financial support and sharing knowledge for developing practical models like go-karts, robots, etc. Some of the well-established alumni are financially supporting the students who are economically backward and excel in their academics.



<b>File Description</b>	<b>Document</b>
Link for additional information	<a href="#">View Document</a>

**5.4.2 Alumni financial contribution during the last five years (in INR).**

**Response:** A. ? 15 Lakhs

<b>File Description</b>	<b>Document</b>
Any additional information	<a href="#">View Document</a>

## Criterion 6 - Governance, Leadership and Management

### 6.1 Institutional Vision and Leadership

#### 6.1.1 The governance of the institution is reflective of an effective leadership in tune with the vision and mission of the Institution

##### Response:

The spirit of the Institute, core ideology and performance are reflected in the vision, mission and quality policy statements as mentioned below.

**Vision** - 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.

**Mission** - To train young men and women into competent and confident engineers with excellent communicational skills, to face the challenges of future technology changes, by imparting holistic technical education using the best of infrastructure, outstanding technical and teaching expertise and an exemplary work culture, besides molding them into good citizens.

##### Quality policy

ANITS is engaged in imparting quality technical education. It constantly strives towards achieving high standards of teaching, training and development of human resources by encouraging its faculty and staff to work as a team and to update their knowledge and skills continually to match the needs of industry. Good governance and participative decision making process is adopted to achieve the vision, mission and the goals of the institution and also in building effective organizational culture.

The Board of Governors (BOG) is the apex body constituted based on statutory provisions to oversee the academic growth and development of the Institute. The BOG ensures that all decisions on the matters such as admissions, new programmes, infrastructure, teaching & learning processes and placements are met based on the fundamental principles of the Institution.

Principal as head of the Institute is supported by head of the departments, assistant principals, administrative officer and chair persons of various Institute level committees to ensure seamless management happens systematically and encourages participative leadership by involving various stakeholders at various appropriate levels of decision-making.

Various other committees such as Academic Council, Board of Studies, Finance committee etc. are constituted as per UGC guidelines. Other academic/administrative committees such as research and development committee, Internal Quality Assurance Cell (IQAC), examinations committee, staff development council (SDC) are headed by senior faculty members and thus involved in all important decisions as part of governing and executing the plans of the Institution. Regular academic and administrative audits are conducted to ensure good quality in all activities.

The faculty members are nominated in various statutory bodies and committees for decision making and managing the various functions of the Institute both at Institute level and department level. Regular inputs are taken from faculty and staff through faculty meetings and brain storming sessions in finalizing

curriculum design, teaching methodology of common courses, examination reforms, maintenance of academic standards, and student welfare thus striving for continuous improvement in the system. Such participation brings transparency to the governance and inherently encourages team-work, while ensuring practicable decision-making. Students and alumni are also involved in certain committees and ideas are also invited from various stakeholders for innovation and improvement in various functions such as academics, industry interaction and placements, etc., and so that their views are also considered under good governance. Suggestions from all stakeholders as mentioned above bring in improvement in the effectiveness and efficiency of all institutional processes.

File Description	Document
Link for additional information	<a href="#">View Document</a>

### **6.1.2 The effective leadership is reflected in various institutional practices such as decentralization and participative management.**

#### **Response:**

The Institution has decentralized and transparent mechanism in management, administration, financial and academic affairs. This mechanism is delegating appropriate responsibilities from the top level management to low level and allows the top management to focus on policy making and major decisions.

The constitution of statutory committees like Governing Body, Academic Council, Finance Committee, Board of Studies are systematically carried out with specified functions and responsibilities as per the requirements to the regulatory/statutory bodies. These committees play a major role in policy making of governance, academics, finance, research and teaching learning.

The Governing Body is the highest decision-making body which formulates/ amends rules and regulations, delegate powers and responsibilities. All the Head of the Departments are members of the Academic Council where major Academic/Administrative decisions are taken. Further academic and administrative powers are delegated to the Heads of the Departments in all regular activities.

The Principal ensures the smooth functioning of the Institution with the support of Head of the Departments, Assistant Principals, Administrative Officer and various committees. There are non-statutory committees working hand in hand in identifying possibilities, planning, organizing, implementing and monitoring all the activities of the Institution. The committees include anti-ragging committee, grievance redressal committee, web-site committee, library committee, amenities committee, attendance committee etc.

The decentralized mechanism exists even at the department levels. Every department has Program coordinators at UG and PG level to look after the activities of each program. Decisions at department levels are taken by well-structured committees like board of studies, Academic Planning and Monitoring Committee (APMC), Class Review Committee (CRC), placement committee etc. The principal and HoDs regularly interact with Governing body members and management to develop a road map for the development of the departments and the Institution.

All Stakeholders of the Institution have participative roles in various decision-making committees. The HoDs take decisions related to the departments independently in cognizance with the views of the stakeholders which includes faculty, students, alumni, employers, industry experts, educationist, and scientists in various functional committees. External stakeholders like statutory body nominees, state government nominees, university nominees, industry experts, educationists, scientists, occupy a good percentage of various committees. The Institute makes sure that every faculty is involved in at least 2 or 3 committees. Representation from the student community in decision making bodies is also ensured.

The regular meetings organized in the Institute such as HODs meeting at Institute level, faculty meetings at department level, the discussions happen therein and feedback of different stakeholders & appropriate action on various suggestions are indicative of the participative management. This shows that the Institution has decentralization of administration through committees and has participative management. A democratic approach is setup in the decision-making process, by which all stakeholders of the Institution could participate in the managerial decisions. Effective & decentralized leadership and participative decision making processes are adopted to achieve the goals of the Institution and also in building good organizational culture.

File Description	Document
Link for strategic plan and deployment documents on the website	<a href="#">View Document</a>
Link for additional information	<a href="#">View Document</a>

## 6.2 Strategy Development and Deployment

### 6.2.1 The institutional Strategic / Perspective plan is effectively deployed

#### Response:

The strategic plan is developed keeping in mind the vision, mission and objectives of the Institution. The process of preparing the strategic plan is based on the inputs from various stakeholders, developed through focused group discussions both at institutional and department level. The latest Institute strategy document has a plan for the nine identified goals for five years (2019-2024), action items and metrics are developed with an aim at achieving excellence through optimum utilization of resources. The management conducts regular review of compliance to strategic plan (both Long Term Goals and Short Term Goals). The various parameters of earlier strategic plan are reviewed and compliance report is made available. The new strategic plan is prepared based on global needs, present day societal issues and also based on SWOT analysis of the Institute. In compliance to various parameters in the strategic plan various activities were undertaken and resources were deployed to achieve the targets set.

To name specifically, as envisioned in strategic plan 2014-19 under the Research and Developmental activities and measures taken there upon, the number of PhDs in the Institute increased. Another notable achievement is the number of publications are increased over a period of 5 years of implementation of the plan. Another qualitative improvement is increase in the usage of ICT facility thorough MOODLE platform and thus majority of students are benefitted by having the availability of contents beyond the

working hours and also thus self-learning attribute of the students has been strengthened. New programmes and courses were introduced, faculty participation & thus knowledge enhancement through FDPs increased, number of quality publications has been enhanced etc., are effects of deployment of resources as per the strategic plan.

The present strategic plan focuses on broadening the educational areas, enhancing the teaching-learning experience and makes the faculty and students as life-long learners, strengthening human resources and R & D activities, enhanced engagement with industry and society, innovation and incubation eco-system and alumni engagement.

In the process, the Institute strives to provide students and teachers the conducive atmosphere, facilities and infrastructure for the promotion of:

- Academic excellence with more number of teaching staff with Ph.D. qualification and its impact on research, publications, patents, projects and pedagogy.
- Student development including physical and emotional health and wellbeing.
- Excellence in Research, Innovation and Creativity for high impact.
- Enhancement of quality of faculty and staff for better performance through FDPs, Conferences etc. Institute – Industry interactions, enhancing relations with alumni and society.
- Enhancing employability and promote entrepreneurial initiatives. Committing to all aspects of social, economic and environmental sustainability.
- Ensuring excellence in Organizational Leadership and governance.

The Institute reviews the progress of implementation of Strategic Plan and take necessary action to achieve the broad based goals.

File Description	Document
Link for Strategic Plan and deployment documents on the website	<a href="#">View Document</a>
Link for additional information	<a href="#">View Document</a>

### **6.2.2 The functioning of the institutional bodies is effective and efficient as visible from policies, administrative setup, appointment, service rules and procedures, etc.**

#### **Response:**

The institute has a clearly defined organizational hierarchy and structure to support decision making processes that are clear and consistent with its purposes and supports effective decision making. The organizational structure lends itself to sustaining institutional capacity and education effectiveness through involvement of stakeholders in various boards.

Various statutory bodies are constituted based on the UGC/ AICTE / University guidelines and with an objective to provide policy framework and direction for the functioning of the institute and for fulfilment of its objectives. The statutory bodies / committees and their major functions are:

## **The Governing Body**

- The administration is overseen by the Board of Governors (BOG) which is the apex decision making body, provides right direction to all administrative / academic activities and enhances effectiveness in decision making processes at various levels.

## **The Academic Council**

- The Academic Council is the highest academic body which decides and advises on all academic matters.
- Academic proposals of Board of Status (BoS) from each department are scrutinized and approved with or without modifications by the academic council. It also recommends/advise the BoG on proposals for new programme of study and other academic matters.

## **Board of Studies**

- Prepare syllabi for various courses keeping in view the objectives of the institute, interest of the stakeholders and national requirement for consideration and approval of the Academic Council.
- Suggest methodologies for innovative teaching and evaluation techniques.
- Suggest scope for enhancing research, teaching, extension and other academic activities.

## **Finance Committee**

- Finance Committee will be an advisory body to the Governing Body, to consider the budget estimates relating to the grant received/receivable from various funding agencies and income from fees, etc.

In addition to the above bodies, as per the policies of the institute in tune to AICTE/UGC guidelines Anti-Ragging Committee and Grievance Redressal Committee are constituted.

## **Grievance Redressal Committee**

- The institution has Grievance Redressal Committee for the purpose of redressal of grievances of faculty, students and parents. Women grievance redressal committee is also constituted to look into issues related to girl students and lady faculty.
- Committee tries to settle the issues in an impartial and confidential manner for various issues in a time bound manner.

The rules and regulations of the institute were published and are revised periodically. The following documents are published and are made available in all departments to create awareness among the employees and students. The same are also available in the college website. Some important manuals are Administrative Manual containing service rules, Recruitment and Promotion Policies, manual for examinations, Hostel rules and regulations, Research & Development policy, IT Policy, Faculty Development Policy, Staff leave Policy, Green Campus Policy, Environment Policy, QIP & Study leave Policy, Energy Policy, Maintenance Policy, E-Waste Policy, Innovation & Startup policy, RTI Policy and IPR policy etc are framed and available in the public domain. Various other non-statutory bodies constituted to help in functioning of all activities such that the policies and procedures framed are effectively and efficiently implemented.

File Description	Document
Link for additional information	<a href="#">View Document</a>
Link to Organogram of the Institution webpage	<a href="#">View Document</a>

### 6.2.3 Implementation of e-governance in areas of operation

1. Administration
2. Finance and Accounts
3. Student Admission and Support
4. Examination

**Response:** A. All of the above

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>
ERP (Enterprise Resource Planning) Document	<a href="#">View Document</a>

## 6.3 Faculty Empowerment Strategies

### 6.3.1 The institution has effective welfare measures for teaching and non-teaching staff and avenues for career development/ progression

**Response:**

ANITS strongly believes that human resources are the most important factor for the growth of the Institute in right direction and in accomplishing its mission. Some of the measures taken up in the Institute for the welfare of staff are:

**Diversity and Respectful Workplace:** The policies, programs and activities of the Institute promote a harmonious environment in the workplace and show respect for individuals and their roles at the Institution regardless of their distinguishing characteristics.

**Wage and Salary Administration:** Providing compensation in a reasonable equitable manner, Systematic self-appraisal system for increments and other benefits.

**Employee Benefits:** Availability of EPF for all staff and ESI benefit for non-teaching staff.

**Health and hospitalization benefits:** The Institute supports a contributory and voluntary Group Medical Insurance for teaching and non-teaching staff members for ease in accessibility to comprehensive health services. Free medical check-ups and discount on hospitalization charges are made available to all staff in the super speciality hospital owned by the same society.

**Leave and Holidays:** The staff is entitled for various leaves such as vacation leave based on academic

calendar, casual, earned, maternity and medical leave as per policy, On Duty leave for attending conferences, symposia and seminars, delivering lectures in other institutes, academic leave for career development.

**Career and professional development:**

- Financial support for registration fees, travel expenses for faculty attending conferences and workshops is provided.
- Financial incentives for consultancy, best research work, publication of papers in reputed journals / patents.
- Sponsoring faculty for PhD through QIP and increments on attaining higher qualification.
- Career advancement scheme for deserving staff

**Recognition for academic and research excellence:** Honouring and celebrating the contribution and successes of each and every faculty and staff member of the college and providing Best Teacher Awards every year during the annual day celebrations.

**Recreation:** Many recreation facilities like indoor sport and gym facilities are provided to staff. The outdoor and indoor events are conducted every year under “Samanvay” at the Institute premises.



File Description	Document
Link for additional information	<a href="#">View Document</a>

**6.3.2 Average percentage of teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the last five years.**

**Response:** 33.52

**6.3.2.1 Number of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies year wise during the last five years**

2021-22	2020-21	2019-20	2018-19	2017-18
186	122	28	43	35

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

**6.3.3 Average number of professional development / administrative training Programmes organized by the institution for teaching and non-teaching staff during the last five years.****Response:** 17.2**6.3.3.1 Total number of professional development /administrative training Programmes organized by the institution for teaching and non teaching staff year-wise during the last five years**

2021-22	2020-21	2019-20	2018-19	2017-18
21	27	16	08	14

File Description	Document
Reports of the Human Resource Development Centres (UGC ASC or other relevant centres).	<a href="#">View Document</a>
Institutional data in prescribed format	<a href="#">View Document</a>

**6.3.4 Average percentage of teachers undergoing online/ face-to-face Faculty Development Programmes (FDP)during the last five years (Professional Development Programmes, Orientation / Induction Programmes, Refresher Course, Short Term Course ).****Response:** 60.23**6.3.4.1 Total number of teachers attending professional development Programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes year wise during last five years**

2021-22	2020-21	2019-20	2018-19	2017-18
193	150	179	104	100

File Description	Document
Reports of the Human Resource Development Centres (UGC ASC or other relevant centers)	<a href="#">View Document</a>
Institutional data in prescribed format	<a href="#">View Document</a>

**6.4 Financial Management and Resource Mobilization****6.4.1 Institution conducts internal and external financial audits regularly****Response:**

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 and ledger account etc. Reviews are carried out in each financial year on an accrual basis system. The auditors appointed by the Institute perform audits of the financial statements of the Institute. The financial records are audited by qualified chartered accountants after the end of each fiscal year and income & expenditures, balance sheet and 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.

File Description	Document
Link for additional information	<a href="#">View Document</a>

#### **6.4.2 Funds / Grants received from non-government bodies, individuals, philanthropists during the last five years (not covered in Criterion III and V) (INR in Lakhs)**

**Response:** 0

##### **6.4.2.1 Total Grants received from non-government bodies, individuals, Philanthropers year-wise during the last five years (INR in Lakhs)**

2021-22	2020-21	2019-20	2018-19	2017-18
0	0	0	0	0

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>

#### **6.4.3 Institutional strategies for mobilisation of funds and the optimal utilisation of resources**

**Response:**

**Sources of income:** The major source of income to the Institute is the annual fees collected from the students. The fee is fixed by the government of Andhra Pradesh based on the recommendations of APHERMC which is the fee regulating authority. Funds received from organizations such as UGC, AICTE, DST, ISTE etc are used to conduct research, organizing seminars and conferences, modernization of labs and travel grants. The Institute has the well defined policy to carry out the consultancy works by the faculty.

**Optimum utilization of resources:** Each department prepare the proposals under four different heads of account carefully considering the previous year's expenses, developmental activities foreseen for the next academic year. The yearly budget is divided into 4 quarterly requirements for effective utilization of funds. For major equipment, the departments ascertain from the suppliers the tentative costs so that there will be clear assessment of expenses and thus the utilization of funds is done optimally. The budget is normally prepared well before the commencement of academic year so that academic activities run smoothly. After assessing the projected income and expense for an academic year, the Institute governing body approves the budget to each department. After the allocation, the departments can avail the financial resources for various activities in the department and as it is well planned, the expenses are within the sanctioned amount. Budget utilization is reviewed at regular intervals to ensure the funds are utilized optimally.

File Description	Document
Link for additional information	<a href="#">View Document</a>

## 6.5 Internal Quality Assurance System

**6.5.1 Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing the quality assurance strategies and processes visible in terms of – Incremental improvements made for the preceding five years with regard to quality (in case of first cycle) Incremental improvements made for the preceding five years with regard to quality and post accreditation quality initiatives (second and subsequent cycles)**

**Response:**

The IQAC of the Institute believes in Kaizen and various initiatives taken up under the aegis of IQAC were institutionalized. This has enhanced the quality consciousness among the staff and thus contributed significantly in the improvement of quality in diversified activities. It extends support to all the academic activities and recommends student centric approach in various processes.

Two practices of IQAC that were established in the Institute as regular activities contributing to the development are:

**1. Academic Audit of the departments:** The internal audit which is organized every year provides an opportunity to all the departments to understand their performance in all activities, improvements shown and to identify the specific areas to be focused upon. The internal audit is organized for 7 parameters and they are Teaching Learning (TL) processes, student performance, faculty contributions, co-curricular

activities, student support systems, continuous improvements and best practices in the departments. The parameters are arrived at from specific & significant areas identified from various accreditation assessment processes. In a way, it encompasses all the activities that covers the outcomes as per the outcome based education and thus ensure effective implementation. Senior faculty members from various departments act as auditors and they inspect the departments to verify the departmental performance index reports. The contents of reports were discussed in IQAC meetings, suggestions were summarized and will be communicated to the respective departments for necessary future course of action. The departments also organize external audit on nine parameters with focus on CO-PO attainment and other TL processes by external expert members.

**2. Academic Research:** Various measures were taken by the institute under IQAC for enhancing the research related activities. The activities include motivation, sponsoring for faculty development programmes and sponsoring for QIPs for regular Ph.D and support for Ph.D activities by means of financial terms / leaves etc., has ensured a visible increase in various outcomes. The research publications are increased from 0.63 to 1.2 in the metric of publications per faculty from the year 2017-18 to 2021-22 respectively. Similarly, the number of doctorates in the institute were increased from 50 to 90 over a period of 5 years. There has been an increase in the number of papers published by students. The faculty enrolment in online MOOCS / NPTEL courses for upgrading their knowledge on OBE and emerging technologies was significantly increased during this period.

File Description	Document
Link for additional information	<a href="#">View Document</a>

**6.5.2 The institution reviews its teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals through IQAC set up as per norms and recorded the incremental improvement in various activities ( For first cycle - Incremental improvements made for the preceding five years with regard to quality For second and subsequent cycles - Incremental improvements made for the preceding five years with regard to quality and post accreditation quality initiatives )**

**Response:**

The IQAC has significantly contributed towards improving academic environment, teaching and learning processes, curriculum development & evaluation methods and overall research environment in the institution.

The institute has several measures for quality check and quality enhancement such as : course plans, course files by the faculty for each subject, class work review committees, different feedbacks from students / alumni, remedial classes for slow learners, beyond curriculum topics and usage of MOODLE & other ICT tools for enhanced learning of the students. Organizing various guest lectures, seminars, facilitation to lifelong learning through NPTEL / MOOCS courses & other e-resources, activities through student technical chapters, tech-fests etc., are regular features in the institute. The activities and development in departments are reflected in a format called departmental performance index and are reviewed through internal audit by IQAC cell. This provides an opportunity to enhance the quality in teaching-learning process in the institution.

Two practices in teaching learning practices facilitated and contributed with a significant impact on teaching learning processes are:

**1. E-learning platform:** The institute uses MOODLE as a learning management platform to benefit the students for enhanced learning. The faculty upload the lecture notes, lesson plans, relevant learning material beyond curriculum and quizzes etc., through this platform. The institute has a central monitoring system and each department has a MOODLE coordinator, who maps students and courses at the beginning of the semester. The department reviews this at regular intervals and IQAC ensures improvisation of the practice. One measurable output that has shown incremental increase due to this activity is students pass percentage was increased from around 76% in 2017-18 to 96.75% in 2021-22. The outcome of this activity is reflected in the attainment of course outcomes (CO) and programme outcomes (PO) of different programmes offered in the institute.

**2. Skill development and Training :** Another area identified and new methodology implemented is for enhancement of non-domain skills of the students. Apart from making the students to have domain skills which enable them to solve complex engineering problems, to make them industry ready, based on IQAC initiative, other quality enhancement measures were taken. In the continuous assessment process, apart from mid exams, assignments, specific marks were allocated for case studies, quizzes and group tasks were being implemented towards this initiative. Further a comprehensive training programme is being implemented commencing from the III year I semester onwards till the end of course of study of students. The process includes skill oriented courses in III Year I semester, training in problem solving skills in III Year II semester, summer in-house training, company specific training for campus recruitment drives has been integrated as a continuous process. The outcome of such activities is reflected in increase in the number of placements and also in the quality of placements.

File Description	Document
Link for additional information	<a href="#">View Document</a>

### 6.5.3 Quality assurance initiatives of the institution include:

- 1.Regular meeting of Internal Quality Assurance Cell (IQAC); Feedback collected, analysed and used for improvements**
- 2.Collaborative quality initiatives with other institution(s)**
- 3.Participation in NIRF**
- 4.Any other quality audit recognized by state, national or international agencies (ISO Certification)**

**Response:** All of the above

<b>File Description</b>	<b>Document</b>
Upload e-copies of the accreditations and certifications	<a href="#">View Document</a>
Institutional data in prescribed format	<a href="#">View Document</a>
Paste web link of Annual reports of Institution	<a href="#">View Document</a>

## Criterion 7 - Institutional Values and Best Practices

### 7.1 Institutional Values and Social Responsibilities

#### 7.1.1 Measures initiated by the Institution for the promotion of gender equity during the last five years.

##### Response:

ANITS always believes that empowerment of women is the most important aspect development and well being of the society, nation and the human race. The institute has 40% of women in the faculty rolls and 30% of girls in students. The institute has women in leadership roles with 25% of Head of the Departments are women who play important role in the decision making of the institute. The college organizes various events and takes up different measures for the safety, development and welfare of the women. Some of the measures are:

- The women grievance redressal committee of the institute address the grievances related to gender safety and security if any.
- The Institution surveillance is managed through CC cameras with a centralized control room for the safety and security of the students. Security guards are appointed for common areas, canteen, vehicle parking, main gate.
- Separate hostel facility is provided for girl and boy students with biometric attendance and round the clock security.
- Adequate security personal is deployed in the campus round the clock. Seats are reserved in the common transport for girls and the women faculty.
- Complaint/suggestion boxes have been fixed in all departments and hostels in the campus.
- The mentoring system is in place in the institute and each student has a faculty proctor with scheduled interactions.
- Mentor-student ratio of 1:20 is being maintained and it helps the students not only to realize their academic and personal goals but also their personal grievances are addressed.
- Ladies Waiting rooms are available for students and faculty to rest in case of any illness in all blocks /departments.

Regular activities such as women's day celebrations, sports activities etc., are organized for the women to create a good working environment.

File Description	Document
Specific facilities provided for women in terms of: a.Safety and security b.Counselling c.Common Rooms d. Day care center for young children e. Any other relevant information	<a href="#">View Document</a>
Annual gender sensitization action plan	<a href="#">View Document</a>

#### 7.1.2 The Institution has facilities for alternate sources of energy and energy conservation measures

1. Solar energy
2. Biogas plant
3. Wheeling to the Grid
4. Sensor-based energy conservation
5. Use of LED bulbs/ power efficient equipment

**Response:** A. 4 or All of the above

File Description	Document
Geotagged Photographs	<a href="#">View Document</a>

### 7.1.3 Describe the facilities in the Institution for the management of the following types of degradable and non-degradable waste (within 500 words)

- Solid waste management
- Liquid waste management
- Biomedical waste management
- E-waste management
- Waste recycling system
- Hazardous chemicals and radioactive waste management

**Response:**

#### **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 Swatch 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.KWp is installed on the roof tops of all blocks and is connected to Grid.

File Description	Document
Relevant documents like agreements/MoUs with Government and other approved agencies	<a href="#">View Document</a>
Geotagged photographs of the facilities	<a href="#">View Document</a>

#### 7.1.4 Water conservation facilities available in the Institution:

1. Rain water harvesting
2. Borewell /Open well recharge
3. Construction of tanks and bunds
4. Waste water recycling
5. Maintenance of water bodies and distribution system in the campus

**Response:** A. Any 4 or all of the above

File Description	Document
Geotagged photographs / videos of the facilities	<a href="#">View Document</a>

#### 7.1.5 Green campus initiatives include:

1. Restricted entry of automobiles
2. Use of Bicycles/ Battery powered vehicles
3. Pedestrian Friendly pathways
4. Ban on use of Plastic
5. Landscaping with trees and plants

**Response:** A. Any 4 or All of the above

File Description	Document
Geotagged photos / videos of the facilities	<a href="#">View Document</a>

#### 7.1.6 Quality audits on environment and energy are regularly undertaken by the Institution and any awards received for such green campus initiatives:

1. Green audit

2. Energy audit
3. Environment audit
4. Clean and green campus recognitions / awards
5. Beyond the campus environmental promotion activities

**Response:** A. Any 4 or all of the above

File Description	Document
Reports on environment and energy audits submitted by the auditing agency	<a href="#">View Document</a>

#### 7.1.7 The Institution has disabled-friendly, barrier free environment

1. Built environment with ramps/lifts for easy access to classrooms.
2. Divyangjan friendly washrooms
3. Signage including tactile path, lights, display boards and signposts
4. Assistive technology and facilities for Divyangjan accessible website, screen-reading software, mechanized equipment
5. Provision for enquiry and information : Human assistance, reader, scribe, soft copies of reading material, screen reading

**Response:** A. Any 4 or all of the above

File Description	Document
Geotagged photographs / videos of the facilities	<a href="#">View Document</a>

#### 7.1.8 Describe the Institutional efforts/initiatives in providing an inclusive environment i.e., tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic and other diversities (within 500 words).

**Response:**

The institute believes in inclusive education where all students, regardless of any challenges they may have, receive high-quality instruction, interventions, and supports that enable them to meet success in the core curriculum. Hence an environment is built in the institute so as to create

- A supportive, respectful environment promote diversity and fairness in the entire campus.
- To have high expectations of all the students as research shows that students respond better when they feel that their teacher has faith in their abilities and is not focusing on their inabilities.
- A supportive peer culture both inside and outside the classroom by empowering them to respect and trust each other, making empathy and caring ‘fashionable’ and reinforcing positive and prosocial attitudes by encouraging learners to help each other.
- Outcome based learning ensures holistic development of students with involvement of all stakeholders and thus brings in societal issues to be addressed in the curriculum. It creates an environment which is personalized to students’ needs and by talking about learning that focuses on what students can do and what they would like to do next. Apart from this, induction / orientation

programmes organized in tune to AICTE norms help the students towards harmony, understanding socio-economic and other diversified issues and thus they feel that they have ownership of their learning.

- Providing ‘community’ approach or group tasks for learning and teaching. Inclusive values are developed through a student’s live experience and their exposure to other cultures and world-views become more tolerant and understanding of each other.

At the faculty / staff level, the institute believes in creating an inclusive environment where people of all cultural / social orientations can freely express their own opinions and points of view, fully participate in teaching, learning, work and social activities. They must feel safe from abuse, harassment or unfair criticism.

- All major decision are taken at various meetings making a participative work culture for all stake holders.
- Establishing and clearly communicating specific, measurable and time-bound goals of the institute’s strategic aim.
- Encouraging the staff for their achievement and create a good work culture.

File Description	Document
Supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	<a href="#">View Document</a>

**7.1.9 Sensitization of students and employees of the Institution to the constitutional obligations: values, rights, duties and responsibilities of citizens (within 500 words).**

**Response:**

The Institute takes pride in the fact that apart from preparing a sound academic foundation of the student community; the Institute constantly works upon to develop them as better citizens of the country. Preparing to become such citizens is in compliance with one of the key words in the vision statement of the institute which mentions that the students of ANITS possess best of human values and one in mission statement which indicate to mould them into good citizen. In this regard, the Institute, apart from imparting such traits in students by including courses such as Professional ethics and human values in the curriculum, inculcates a feeling of oneness among the student community through various practices and programs. Various faculties have always been in the practice of organizing activities that not only initiate but also motivate the students to adopt various practices that promote the “Unity in Diversity” of our motherland. The students participate voluntarily and very enthusiastically in all such activities. Since the last five years, the Institute has strived forward with great effort to increase the level of awareness and appropriate practices amongst the students with regard to the following areas:

**National Identities and Symbols:** The Institute has always taken various direct and indirect steps which promote the awareness about various National Identities and Symbols. Independence Day, Republic Day and important days of national significance are celebrated with great pomp and vigour.

**Co-curricular and extra-curricular activities:** The students have enthusiastically participated in various programs like: Academic programs like Seminar, Conferences, Expert talks, etc which have enriched the awareness about this aspects. Various activities like poster making competition, etc. Organizing Annual Competitions on various contemporary legal issues. The students organize mock parliament through clubs at regular intervals in create awareness in informal manner.

**Knowledge on Constitutional Obligations:** The Institute organizes various student centric activities like paper, poster & essay competitions through club in which the topics related to constitutional and societal issues are regularly given. There will be good participation from the students and thus it promotes awareness about various aspects of Indian citizenship.

**NSS programmes and other social service activities:** The NSS unit of the institute is very active and organize various events such Swatch Bharat, awareness camps on traffic rules, COVID etc., environmental friendly activities, distributing the essential commodities to needy people during early stages of COVID, adopting villages and identifying their needs etc., All these make them understand their duties and responsibilities and make them good citizens of the country.

File Description	Document
• Details of activities that inculcate values; necessary to render students in to responsible citizens	<a href="#">View Document</a>

**7.1.10 The Institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic programmes in this regard.**

1. The Code of Conduct is displayed on the website
2. There is a committee to monitor adherence to the Code of Conduct
3. Institution organizes professional ethics programmes for students, teachers, administrators and other staff
4. Annual awareness programmes on Code of Conduct are organized

**Response:** A. All of the above

File Description	Document
Details of the monitoring committee composition and minutes of the committee meeting, number of programmes organized, reports on the various programs etc., in support of the claims	<a href="#">View Document</a>

**7.1.11 Institution celebrates / organizes national and international commemorative days, events and festivals (within 500 words).**

**Response:**

The institute organizes various national and international commemorative days, events and festivals every year signifying the importance of such days through different activities:

**Republic day- 26th January:** The day is celebrated to commemorate the date on which the Constitution of India came into effect in India. Flag hoisting, essay / quiz competitions, speeches by students are organized

**Science Day- 28th February:** Is celebrated on the day of discovery of Raman effect and inculcate scientific thinking in the young minds.

**International Women's Day -8th March:** This day is celebrated to appreciate and acknowledge the achievements of women in different fields and also focuses on gender equality and women's rights. Various events are organized for women faculty.

**World Water Day- 22nd March 2022:** On the occasion of "World Water Day" NSS, ANITS is conducting Awareness Programme on "No Water - No Life" in the adopted villages.

**World Environment Day-5th June:** On the occasion of World Environment Day a competition was conducted with the focal theme "**ONLY ONE EARTH**" - Living Sustainability in Harmony with Nature.

**International Day of Yoga – 21st June:** The international yoga day as declared by UN is celebrated to create awareness among students about yoga and its positive impact in one's life. Group activities on yoga are organized on that day.

**Independence Day- 15th August:** Celebrated to commemorate the sacrifices of our freedom fighters and re kindle patriotism in the minds of students. Flag hoisting, essay / quiz competitions, speeches by students are organized

**Teachers Day-5th September** Sir Sarvepalli Radhakrishnan's Birth Anniversary: Celebrated to pay respect our teachers who play an important role in our lives to become successful in career and business, help us to become a good human being, a better member of society, and an ideal citizen of the country. Students of individual departments organize various events.

**Engineers Day 15th September** Sir Mokshagundam Visvesvaraya Birth Anniversary: Celebrated to appreciate the contributions of great Sir Visvesvaraya and other eminent engineers to the society and motivate the students to follow their footsteps. Departments organize various event with participation of students.

**World Students' Day 15th October** - APJ Abdul Kalam Birth Anniversary: Celebrated to ignite the minds of students National Education Day- Sri Maulana Abdul Kalam Azad Birth Anniversary –11th November

File Description	Document
Annual report of the celebrations and commemorative events for the last five years	<a href="#">View Document</a>

## 7.2 Best Practices

### 7.2.1 Describe two best practices successfully implemented by the Institution as per NAAC format provided in the Manual.

#### Response:

#### 1. Title of the practice: **Enlightening the students of their responsibilities towards the society and Nation.**

The Engineering curriculum is designed to impart the requisite domain skills to the students along with the soft skills, which has now become mandatory. These competencies would fetch the student an appropriate career in his area of interest. But, it hardly enlightens the students on the pertinent issues afflicting the society and his contribution in alleviating these problems for advancing the quality of life. The institution has therefore taken a positive step in this direction in creating an environment, where the student is given an abundant opportunity to participate in social activities in the neighborhood of the institution.

The institution has started an NSS unit in the right earnest through which a plethora of activities having social relevance are conducted. The college is also recognized by IIT Delhi as a participating member in UNNAT BHARAT ABHIYAN Program, a scheme which works under the aegis of central government. The services of the faculty and students are also utilized under this scheme for organizing welfare activities in the adopted villages.

#### Objectives of the practice:

1. Imbibing altruistic qualities in the students which would create a genuine conscientiousness on his responsibilities in fulfilling the needs of society.
2. To foster the collective strength of students for the general welfare of the community through philanthropic schemes.
3. To develop a culture in the student fraternity towards moral values through an exposure to the broad-spectrum of needs of the society.

#### The practice:

The institution has always been proactive and worked with missionary zeal in providing solace to the needy people. The college has selected neighbourly villages (7 numbers) and as a prerequisite, conducted a door-to-door survey for identifying their problems. This study has provided adequate information on the problems being faced by them and the course of action to be implemented. Some of the problems identified and the solution accomplished by the students are as given under:

- i) Lack of education on digitalization: The students took upon themselves in educating the children and youth in the neighboring villages in usage of computers and cell phones for routine works.
- ii) Promoting awareness in public for leading healthy lives: The students formed ensemble of groups with each assigned a task of educating the natives of neighboring villages on topics like RAIN WATER HARVESTING, PROMOTING GREENARY THROUGH PLANTATION, BANNNG SINGLE USE

PLASTIC, COVID PREVENTIVE MEASURES, SWACHH BHARAT and other socially relevant issues.

iii) Distribution of Alms to orphanages, destitute centers and old-age homes: The students of the institution have as a token of generosity distributed the basic needs like Rice, Pulses, Vegetables, Clothes, and Medicines during natural disasters.

iv) Distribution of masks, medicines, packed foods during COVID pandemic: The students have been magnanimous and had the fortitude and courage to participate in the dispensation of the basic needs and medicines to the patients who were affected by COVID and were under home quarantine.

The NSS unit of ANITS has played a pivotal role in the successful organization of these benevolent schemes. The college has endeavored to further its presence in the neighboring villages by forming a part in “UNNAT BHARATH ABHIYAN”, a program initiated by the Government of India to promote the participation of educational institutions in the development of the country. The college has obtained funds from IIT-Delhi through UBA scheme and with matching grants from internal resources implemented the following schemes:

i) Installation of Eco-friendly solar-cell based LED lights for illumination of streets at Nammivanipeta village, Visakhapatnam.

ii) Rain-water harvesting by digging pits.

iii) Providing portable water by installation of a filtration plant in the village.

The students played a significant part in accomplishment of these schemes. The institution has received critical acclaim from various government agencies like District collectorate, City Municipal Corporation, MGNCRE, Andhra University etc., for its spirited work in fulfilling its social responsibilities.

#### **Obstacles faced, if any and strategies adopted to overcome them:**

The key to success for handling socio-economic problems in the society lies in motivating the students at the outset. The student’s participation is the most critical aspect in implementing such schemes as their youthful and unnerving energies and potential can be utilized to the maximum extent. Further, the availability of funds is also a significant issue.

The students of our institution have been very pragmatic and always leading from front through their steady and uncompromising participation in all such activities which reflect the community requirements. There has never been a crunch for financial resources as the management always been supportive in sponsoring such programs. The involvement of students in these programs without impairing their regular academics has trained them to transform into dutiful citizens of the country.

#### **Impact Analysis**

The program of developing the rural areas surrounding the institution using the services of students and faculty has paid rich dividends for the society and the students as well.

- The quality of life of the neighboring villages has improved considerably by the series of schemes implemented.

- Educating the inhabitants of surrounding villages on COVID protocols has substantially reduced the spread of the dreaded Corona virus.
- The vegetation in and around the institution has exhibited an upsurge through the unimpeded efforts of the students and faculty in plantation.
- Promoting Clean & Green through the **Swachh Bharat Abhiyan** program has resulted in a hygienic and unpolluted ambience.
- The unprecedented participation of the students in large numbers has brought about a distinct change in their outlook towards the society.

## **2. Title of the practice: : Promoting self-Learning using ICT tools.**

Digitalization has invaded our lives enforce and education field hasn't been left behind. The value of digital technology in the knowledge based sector was experienced during the COVID period, when its usage has reached its pinnacle. Having observed its wide impact and far reach of learners across all age groups, there is a paradigm shift in the thought process of educationists.

The institutions across the world have commenced using different platforms available on-line for promoting e-learning along with the traditional teaching methods. Our institution has indeed realized the significance of e-learning years back, and put this into practice straightaway after attaining Autonomous status. E-learning is certainly an innovative idea which could be prudently blended with class room learning to enhance the cognizant levels of the students appreciably. This method was therefore deployed in the course structures across all the departments of the institution. Promoting self-learning using a range of e-learning tools available through the internet has undeniably transformed the teaching –learning process and placed it on a higher echelon.

### **The objectives of the practice**

1. Empowering the students with futuristic thoughts by providing E-learning resources.
2. Providing e-learning content to compliment the class room teaching processes.
3. Transforming the student into life-long learners.
4. Positioning the student on a higher pedestal in terms of job skills.
5. Allowing the students to transcend the regular curriculum and opt for advanced courses offered on-line.
6. Enhancing the efficacy of teaching-learning process.
7. Engaging the knowledge seekers outside the class rooms.
8. Igniting the thought processes of the learner by motivating him/her to inculcate the habit of self-learning.
9. Laying a path for the students to develop their abilities using IT enabled resources.
10. Developing the all-round competencies of the students by adopting a blend of traditional learning and e-learning.

**The Practice:**

IT revolution has brought about metamorphic changes in our lives. Educational policies of the governments are also rapidly changing. It is therefore pertinent upon schools, colleges and universities to espouse themselves to the new systems. The surge in usage of computers and cell phones in all spheres of life due to the unprecedented growth in IT sector has motivated the education policy makers and software giants like GOOGLE, INFOSYS etc., in using the technology for quenching the thirst of students for knowledge. The institutions worldwide are therefore steadily transiting towards a holistic approach of education, with e-learning becoming a major constituent. It is also very significant to bring in the usage of e-learning platforms on a larger scale into the curriculum.

ANITS has made available a maximum number of e-resource links at the door step of the student. NPTEL-SWAYAM , COURSEERA , edX, MOODLE etc., are the most popular e-learning resources with the students. The student is given the flexibility for registering an online course in lieu of some of the regular courses. This practice has the potential to develop the self-learning skills of the students. The college has further identified certain value added courses in each domain from the e-resources available through the internet. The students are motivated to register for these certified courses and complete them within the stipulated duration. Such courses have given an impetus to the placement opportunities of the students. In addition to these resources, the college has also employed other learning management systems like MOODLES for reaching the student beyond the working hours. The faculty uploads course plans, lecture notes, assignments, quizzes etc., into this platform from which the students can freely access for self-study. This platform provides a much needed flexibility for both the faculty and students to interact at an opportune time.

The above illustrated protocols which have been put into practice after attaining autonomous status have produced impeccable results.

**Obstacles faced, if any and strategies adopted to overcome them.**

The convention of on-line learning has to come to stay, since it is an easy and unique way of gaining knowledge. But this custom is also associated with typical problems that may not be initially explicit. The college has instituted the tradition of self-learning by students using the e-resources and teaching notes developed by the faculty. Though the college and the students have faced certain hindrances in the initial stages, they have successfully circumvented them.

- Availability of high speed internet is one major problem that is faced by the students who reside in remote areas. Without a consistent and affordable internet connection, there could be a drop in the commitment and interest levels in the students. This constraint was surmounted by motivating the students to use the computers available in the college digital library. The working hours of the library were also extended to cater to the needs of such students.
- The success of self-learning system depends on the motivational levels of the students to acclimatize to it. The proctors played a key role in inspiring the students by enlightening them on the benefits that ensue with it. Moreover the faculty were also prepared in the initial stages for spending extra hours with the students in assisting them in the process of e-learning.
- Some of the students were not be able to choose appropriate subject from a myriad of courses available on-line. The faculty again played a pivotal role in assisting the student select a subject which has the content of quality and standards necessary for upgrading the skills.

**Impact Analysis:** There is a large repository of on-line courses available for the students to explore. The implementation of self-learning by subscribing to these on-line courses has produced impeccable results which are enumerated below:

- The academic capabilities of the students have enhanced appreciably which has reflected in terms of their performance in the exams.
- With a wide exposure to online information, the curiosity and inquisitiveness in the students has increased manifold. This has had a cascading effect on his confidence levels in facing interviews, participation in national/international events like Hackathons, GO-karts, Robotics etc., and winning prizes.
- Subscription to on-line programming languages has considerably improved proficiency in writing programming codes. This additional feather in the student's repertoire has substantially enhanced the placement avenues.
- The adeptness in securing jobs or selecting appropriate careers of his/her preference has been observed to be immaculate.

File Description	Document
Best practices in the Institutional web site	<a href="#">View Document</a>

### 7.3 Institutional Distinctiveness

#### 7.3.1 Portray the performance of the Institution in one area distinctive to its priority and thrust within 1000 words

##### Response:

Our institution ardently focuses on the social, emotional, physical, mental and intellectual growth of its students towards building their well-being to be able to attain comprehensive maturity and facilitate holistic development much needed for handling the 21st-century demands and challenges for the development of society they live in.

As perceptible from its vision and mission, our institution has been fostering its students on the integrated growth by providing every opportunity and resource, while striving for excellence in technical education to attain quality standards by being accredited by accreditation bodies of the country.

##### Intellectually Competitive:

The institution implements a dynamic curriculum, designed to meet the needs of all its stakeholders, that encompasses the flavours of NEP 2020 to make it student-centric; features to instil 21st skills; and the latest emerging technologies to make the product industry ready, through well-planned and effective teaching-learning activities blended with latest pedagogy approaches.

Life & soft skills such as problem-solving, critical thinking, effective communication skills, decision-making, creative thinking, interpersonal relationship skills, self-awareness building skills, empathy, and coping with stress and emotions, teamwork, adaptability etc., are inculcated through various curricular and

co-curricular activities organized through various clubs/ professional associations of the departments/institution throughout the programme.

Courses related to Innovation & Entrepreneurship in the curriculum and Institution Innovation Cell create the necessary awareness and eco system respectively to imbibe the entrepreneurial skills to explore and roll out possible start-ups supported by MSME using the option “Gap Year” embedded in the curriculum.

Technical fests and model exhibitions are regularly organized to showcase innovative and creative models and are features of developing hands-on experience & competitive spirit among students.

The need for lifelong learning skills is understood and experienced through the courses on emerging technologies of Industry 4.0 that are offered as electives in the curriculum under self-learning through virtual tools such as SWAYAM, NPTEL, Coursera, Edx etc.

### **Socially Committed:**

Students are exposed to the diverse social structure and its issues, particularly in the neighbouring areas, through the **National Service Scheme (NSS) and Unnat Bharat Abhiyan (UBA)** of the institution towards making them socially sensible and responsible. They organize outreach activities to create awareness on various social aspects such as female feticide, women's health, breast cancer, child marriages, blood donation camps, Swatch Bharat, etc. and become aware of the issues of the society to explore all possible measures to solve them through technology extension activity. They conduct various rallies to educate people on Voter Awareness, Save Water, Save Earth, Save Trees, Save Girl Children, AIDS, and Communicable Diseases etc., They also take part in helping the neglected sections of society such as Orphanages and Old age homes. They actively participate as volunteers at polling stations during the election process.

### **Morally Upright:**

**Universal Human Values (UHV):** The present education system is largely skill-biased, without proper footing of value education which has become one of the causes of the serious crises at the individual, societal and environmental levels. Keeping this and also the mission of the institution in view, a course on “**Professional ethics and human values**” was introduced in its curriculum ever since it has become Autonomous in 2015.

UHV course presents systematically a set of universal, rational, verifiable proposals about human reality and at the end of the course, the students will be able to discover the inherent relationship, harmony and co-existence facilitating their transformation, mutual fulfilment in nature/existence and leading to harmony within as well as a firm grounding for nature-friendly technologies and human-friendly systems. A good number of faculty members have also attended the AICTE FDP on UHV to facilitate the course instruction.

**Indian Constitution** is presented as one of the courses in our curriculum to inculcate a sense of integrity, respect, accountability, community, inclusion, fairness and service to the nation.

### **Physically robust:**

The institute promotes **physical activities** among the students to cultivate many important skills such as physical fitness, team spirit, confidence, decision-making, and mental strength, etc. of the students. Each year, the institute organizes annual sports events for the students comprising of various sports such as cricket, volleyball, throwball, kabaddi, chess, carom, etc. In these sports both boys as well girls participate and show their skills – their sportsman spirit and team-building abilities. The institute celebrates Sports Day every year to recognize and honour the winners. Well-equipped Gymnasiums are provided in the college and hostels.

Our college has been the forerunner in the field of sports and games and it has bagged many medals, prizes and trophies in all most events at all levels such as University / District / State / National and International.

### **Emotionally Balanced:**

The **Mentor-Mentee Counselling system** practised on the campus facilitates every student with one faculty member, allotted to them as a mentor, who will be monitoring the student throughout their 4 years journey on the campus to inspire and correct the student in terms of their academic performance, behavioural aspects, communication skills, placements, higher education, holistic personality development and guides them in an amicable manner, towards their success and overall development. The mentors act as thought partners to the students & provide emotional support with empathy, encouraging the students by putting themselves in as parents, friends, and well-wishers.

The **ICC (Internal Complaints Committee)** on the campus, under the leadership of the Nodal Officer, look into any issues of sexual harassment and other problems faced by women students on the campus and offer recommendations, and proposals to the institute management regarding such issues.

**National & Cultural festivals** conducted for the students on the campus, aimed at nurturing and creating the fervour of patriotism, collaboration, cooperation, responsiveness, spiritual inspiration, and attachment to the traditions, culture and oneness among students

With all the above traits implanted in our educational system, our institution has been churning out **intellectually competent, morally upright, spiritually inspired, emotionally balanced, physically robust** and **socially committed** engineers with full-fledged & holistic development to lead their lives successfully and meaningfully.

File Description	Document
Appropriate web in the Institutional website	<a href="#">View Document</a>

## 5. CONCLUSION

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### **Additional Information :**

Student's academic and personal concerns are addressed by the mentoring program. The Training and Placement cell gives students the necessary training and helps them get jobs.

The institute has a strategic plan that is implemented with the assistance of specific key performance indicators. The purpose of the strategic plan is to produce professionals of high quality and to support the institute's overall growth. Through regular academic audits and input from stakeholders, IQAC monitors the implementation of OBE in the teaching-learning process on a continuous basis.

The Institute always tries to move forward by properly planning and carrying out all activities that help students grow as individuals and prepare them for the workforce.

### **Concluding Remarks :**

ANITS has a well-defined vision and mission, considering the needs of society. Institute acquired the first NBA accreditation of eligible programs in 2008 and was re-accredited in 2012, and 2016 in tier-2. At present all eligible programs viz. ECE, EEE, CSE, IT & ME accredited under tier-1 and ChE & CE accredited under tier-2 in 2021. Institute conferred autonomy under UGC in 2015 and was accredited by NAAC in 2014 and 2021.

Students' holistic development is supported by top-notch academics, infrastructure, laboratories, industry interaction, self-learning, and co-curricular and extracurricular activities.

Our top priority is creating a vibrant academic environment, which we accomplish by implementing a curriculum that is appropriate for the industry and making timely adjustments. In accordance with the recommendations of the UGC and the AICTE, the establishment uses Outcome-Based Education (OBE) and has a well-designed, adaptable curriculum with clearly defined COs, POs, and PSOs.

In order to improve the skills of the students, the establishment is constantly upgrading the academic and physical infrastructure, including ICT tools. In addition to regular laboratory experiments, advanced courses have included hands-on training and the use of ICT tools in course delivery. In order to improve the Teaching-Learning process, appropriate content delivery methods are being used.

The governance consists of the Governing Body, Academic Council, Board of Studies, Departmental Advisory Committee/ Academic Planning and Monitoring Committee, Internal Quality Assurance Cell, and various institute-level committees. The Performance Appraisal System is in place to assess faculty performance and direct them toward further improvement. All of these factors contribute significantly to the evolution of reforms aimed at elevating the Institute to the top of the preferred list of all stakeholders.

The R&D cell encourages faculty to submit project proposals, file patents, and produce higher-quality research publications.