



# **SELF STUDY REPORT**

**FOR**

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

**I.T.S ENGINEERING COLLEGE**

**PLOT NO. 46, KNOWLEDGE PARK III, GREATER NOIDA, GB NAGAR, UP -**

**201310**

**201310**

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

**Submitted To**

**NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL**

**BANGALORE**

**December 2023**

# 1. EXECUTIVE SUMMARY

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## 1.1 INTRODUCTION

ITS Engineering College, a part of this esteemed group, has gained NAAC accreditation in 2015, further attesting to its commitment to quality education. ITS Engineering College was established in 2006 under the visionary leadership of Chairman Dr. R.P. Chadha, is approved by AICTE and affiliated with AKTU-Lucknow. The college offers a diverse range of programs, including B. Tech in Civil, Computer Science (CSE), CSE (AI&ML), CSE (Data Science), Electronics and Communication, Electrical and Computer, Mechanical engineering, as well as an MBA program in Management.

Through its unwavering dedication to academic excellence, ITS Engineering College continues to provide students with a comprehensive education that equips them with the skills and knowledge required in the rapidly evolving fields of engineering and management.

The institute has accomplished exemplary work in the area of Innovation, Incubation, and Entrepreneurship Development since 2015.

- I.T.S Engineering College has been approved as **Business Incubator (BI) / Host Institute (HI) by the Ministry of Micro, Small & Medium Enterprises (MSME), 2015.**
- **Department of Science & Technology, Govt of India has established NewGen IEDC at I.T.S Engineering College, in 2018.**
- NewGen IEDC advances on a mission to promote knowledge-based and technology-driven start-ups by promoting idea by young minds and uplifting their innovation potential in an academic environment. **About seventy-two no. of Proof of Concepts (PoC) have been developed at NewGen IEDC.**
- **Start in UP Incubation Centre approved by UP Govt through UPLC in 2022 with a grant of Rs. 2.5 Crores.**
- **Institute has a credit of 3 patents granted, 40 patents published, and 23 patents filed to date. Total 8 companies have been incorporated by our incubation members including women founded start-ups as well.**

### Rankings and Recognitions

- **Institute established the Institution's Innovation Council (IIC) in 2018** and enthusiastically organized various activities inspired by Ministry of Education (MoE) and Govt of India Innovation Cell, for fostering innovation culture among students.
- The college has been awarded **IIC Top Star Ranking in 2020, 2021 and 2022.**
- **MoE Innovation Cell has recognized ITS college's ITSEC IIC as Mentor** for "Mentor-Mentee Program" for harnessing innovation capacity building to other institutions too.
- The college is also recognized in **ARIIA ranking in the Top Twenty-five institutions in 2020 and "Excellent Band" in 2021.**
- The College has received the prestigious **NIRF Innovation Ranking 2023 in the band 151-300 across India.**

### Vision

To be a leading educational institution that provides a transformative education to create technically competent and socially responsible professionals and innovators

### **Mission**

- To accomplish excellence in the field of Technical Education through rigorous coursework based on the needs of society and industry
- To impart advanced and contemporary technical skills to turn students into potential professionals
- To develop potential Engineers and Managers by enhancing their technical skills and research capabilities to become successful innovators and entrepreneurs
- To inculcate professionalism, leadership and business acumen amongst students in a dynamic business environment
- To induce high ethical standards and moral values to make our students socially responsible professionals
- To promote our students to learn technological advancements and encourage them to keep updating their knowledge and skills by inculcating their habit of continuous learning

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

### **Institutional Strength**

1. The institute is governed by an experienced management running 10 colleges since 1995 with due approvals and affiliations from the regulatory bodies.
2. The management has established a well-defined structure and policies for administration, finance and academics to maintain high level of education culture in all its premises. There are online ERP systems and software for all administrative, finance and academic activities.
3. Qualified, experienced and dedicated teaching faculty with good retention ratio.
4. Institute with State of the Art Infrastructure and modern tools.
5. Institute is having well established R&D and IPR Policy to promote and strengthen the Research and Innovation and Entrepreneurship culture among the students as well as faculty.
6. Institute has received DST NewGen IEDC grant of Rs. 2.87 Crores for five years since 2019 to develop innovative ideas into prototype and to incubate. Students submit their innovative ideas and faculty as mentor help to develop the Prototype.
7. The institute has well equipped Fab Lab to materialize the Innovative Projects
8. Effective use of ICT in teaching learning process as all classrooms, laboratories and seminar halls are equipped with projectors and internet facilities.
9. Institute is located in the NCR region and is in close proximity to the Industries. As a result, it has fostered strong and positive relationships with these industries and signed MOU's, to bridge the Academia – Industry gap.

10. Good Placement Track Record.
11. Student's mentoring and counseling through mentor-mentee system and individual teachers for effective academic monitoring.
12. Well-structured merit-based scholarships schemes at entry level to attract quality students and the continuation of scholarship on maintaining the merit status as per the institute policy.
13. Cash awards to the top meritorious students on the basis of their academic excellence in each year as per the institute policy.
14. Safe and Secured Environment for girl students and women employees.

### **Institutional Weakness**

1. Large number of institutes in the vicinity.
2. Less admissions in core branches.
3. Less no. of Ph.D. faculty.
4. Admission of meritorious students is of concern.
5. Institute is not having abundance of revenue generation due to less admissions in core branches.
6. Institute is facing challenge to acquire Industry sponsored projects and consultancy.
7. Limited number of Research Publications.
8. Less students are pursuing higher education.
9. Contribution of Alumni at Institute level is less.

### **Institutional Opportunity**

1. The location of the institute has the privilege to have good number of opportunities for industrial connect, collaboration and technology transfer. Industry resource persons can visit the institute frequently.
2. The institute's location offers an opportunity to attract quality students and faculty.
3. Strong industrial presence in the Delhi/NCR region offers good placement opportunities.
4. Initiation to promote entrepreneurship since 2015 has given an advantage to the institute to attract more number of students to get involved in innovative projects.
5. Well-structured merit-based scholarship at entry level attracts quality students for admissions.
6. Opportunity to explore latest technology through technology fairs and exhibitions frequently held at neighboring India Expo Mart Ltd, Greater Noida.
7. Opportunity of peer learning for both faculty members and students as there are good number of engineering institutes in the vicinity.
8. Mentorship and consultation opportunities from the premier institutes of national importance, such as IIT-Delhi, NSUT, IIIT-Delhi, DTU, NSIC, NSDC, NIESBUD, etc.
9. Ample opportunities exist for sports activities due to the availability of YMCA Club, Noida authority Sports Academy, Jaypee Sports Academy, F1 Track, Jawahar Lal Nehru Stadium and Arun Jaitley Cricket Stadium.
10. Several heritage monument sites, National School of Drama, Science Museum, etc. in the National Capital region, Delhi, creates opportunities for the holistic development of the students.

### **Institutional Challenge**

1. To attract diversified class of meritorious students.
2. The students taking admissions in similar category of colleges have a dream to become an engineer or technologist, but they are not focused about their goals to achieve the dreams.
3. Although, the institute is supporting for entrepreneurship and startups since 2015, but students are reluctant to opt entrepreneurship as career. Thereby resulted in not sufficient number of startups at the institute level.
4. Placements in core companies is a challenge.
5. Less participation in competitive examinations and higher studies.
6. Post pandemic period, attendance and results of students are posing a challenge.
7. Hands-on industrial training for faculty and students is a matter of concern.
8. Female students' ratio is less.

## 1.3 CRITERIA WISE SUMMARY

### Curricular Aspects

ITS Engineering College is affiliated with Dr. A.P.J Abdul Kalam Technical University, Lucknow and follows the curriculum prescribed by the University. The college follows a well-defined procedure and has a robust academic and administrative governance structure, which contributes to the effective implementation of the curriculum.

The University syllabus is comprised of courses from Basic Sciences, Engineering Sciences, Humanities & Social Sciences, Program Core, Program Elective, Management, Project(s), Internship(s), and Seminar. The content of each theoretical course is carefully stated, and each laboratory's experiments are adequately specified. Seminars, industrial training, minor and major projects, and other key components have been included in the University's approved syllabus. Through classroom delivery of lectures, laboratory experiments, group projects, and presentations, the syllabus ensures a comprehensive growth of the learner in the designated domain. Periodic and ongoing assessments ensure that the teaching-learning processes are effective enough to achieve outcome.

Despite the university's comprehensive syllabus, the college recognizes its role to identify curriculum gaps through a process of feedback from faculty members, industry professionals, employers, and other stakeholders and appropriate action taken as per the received feedback, in order to successfully attain COs and, thereby, attaining POs and PSOs.

As a first move in this direction, the university syllabus is enriched with content beyond the syllabus to match the Vision and Mission of the Department and Institute and Cos and POs are accordingly mapped. The institute motivates students towards opting e-courses through NPTEL, and has established multiple Skill Enhancement Centers with industry collaboration to train students on the latest technologies and bridge the gap between industry and academia. Industrial visits are also organized to provide ample exposure to students to the work culture of industrial establishment.

The College has developed a road map for B.Tech/MBA students to impart skills in an organized manner. This roadmap is also discussed with students at orientation sessions prior to the start of each semester. Based on AKTU calendar, the Institute academic calendar is prepared that contains information about: Registration dates Class start dates and last teaching days Information about working and non-working days Internal examination schedules Submission deadlines for sessional question papers Probable start dates for end-of-semester exams

Major events such as annual cultural, technical, and sports fests.

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

ITSEC focuses on holistic intellectual, social, emotional and aesthetic development of the students. We work conscientiously to reflect upon and enhance our pedagogic methods. Right from admission, the college follows a well-administered and transparent procedure with ease of availability of information on our website. A Grievance Committee looks into admission related problems of the students.

Some of the salient features of the Teaching learning and Evaluation Criteria in last five years are as follows:

- Percentage enrollment was 65%
- Seats filled against reserved category was 48.6%
- Student faculty ratio was 16.5:1
- Percentage of full time teacher available against sectioned posts is 92.4%
- Percentage of teachers with NET/ Ph. D. Degrees 35.9%.
- Percentage of final year students awarded Degree without backlog after four years was 81%.

The professors are devoted and highly qualified. Faculty development through workshops, seminars, and conferences is highly valued by the management, who also demands that they update their advanced pedagogical methods.

Foundation and bridge courses are offered to students who are primarily first-generation learners from rural backgrounds in order to familiarize them with the academic and administrative processes. The use of ICT-enabled teaching methodologies and MOOC program registration are also implemented.

Among the steps taken to improve academic performance are the introduction of several academic support programs, including mentorship programs, extra classes, recognition for exceptional performance in exams, and encouragement to join departmental societies that support activity-based learning. Year-round soft skills, aptitude, and technical training is offered to students in an effort to upskill them. In addition, the institute offers facilities for skill development and a range of activities that enhance students' educational experiences.

In addition to following the official AKTU syllabus, students are encouraged to sign up for MOOCs such as EDX, COURSERA, SWAYAM (NPTEL), etc. Students and professors have access to a well-stocked, fully automated central library that is open for twelve hours a day, six days a week.

ITSEC in holds various Objectives which are defined for each course and the outcomes (CO, PSO, PO) are prepared in the framework of the revised Bloom's taxonomy. In addition, Teaching Plans created by the Faculty serve as guidelines for the semester.

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

- Department of Science and Technology (DST), MSME and Start in UP has provided grants of over Rs. 2.87 Crore for the period of 5 years.
- The college has been conducting periodic conferences and workshops and faculty development programs for promotion of Entrepreneurship and motivating other institutes to work for innovation in

mentor mentee scheme.

- The institute always encourages students to strive for innovative ideas and provides all possible support to convert their ideas into reality. Accordingly, the institute has created incubation and innovation centers. **New Generation Innovation & Entrepreneurship Development Center (NewGen IEDC)** with an aim to enhance the growth and success of startup and early stage companies.
- Recently established **Institution Innovation Council (IIC, Govt. of India)** has conferred a five-star rating to ITS Engineering College for promoting innovations and start-ups at institute. Furthermore, the institute is categorized as **“Band A”** institution in category of private or self-financed college/Institute under Atal Rankings of Institutions on Innovative achievements (**ARIIA 2020**). Likewise, the institute is categorized in the band of **“Excellent”** under the category of private or self-financed college/Institute under Atal Rankings of Institutions on Innovative achievements (**ARIIA 2021**)
- The Institute has also been positioned in the Band of 151-300 in the Innovation Category under National Institutional Ranking Framework (**NIRF INDIA RANKINGS 2023**).
- The faculty member has published more than 50 research papers and also more than 30 book chapter and text books of their credit.
- The institute has eight Skill Enhancement Centers that provide opportunities for in-depth creation and transfer of knowledge for understanding the aspects of most relevant industry technologies.
- The Institute has been promoting the participation of students and faculty in extension activities by organizing **blood donation camps** and **plantation drive** in nearby areas. Various sensitization programs were carried out by students and faculty of the college namely awareness on **Water Bodies**, Awareness on **National Education Policy-2020** and **Yoga Camp** were organized in nearby villages adopted in **Unnat Bharat Scheme of Govt of India**.
- The Institute has made several collaborations with industries, training institutions and research institutions for purposes of research collaboration and training students and faculty.

### Infrastructure and Learning Resources

The College has a sprawling lush green eco friendly campus spread over **12.37 acres** that has a **built up area of 20290 sq.mt.** with state of the art infrastructural facilities like spacious **Classrooms, Laboratories, Workshops, Seminar halls, Skill enhancement centres, Innovation centre, Incubation centre, Auditorium, Amphitheatre, Cafeteria, Library, Faculty rooms, Conference halls, administrative block, Hostels for Boys and Girls and Staff flats** that suffices to fulfill the academic, administrative and residential requirement of students, staff and faculty.

All the **Classrooms** are **ICT enabled**; well equipped with **Computer, LCD projector and LAN Internet connection**, adequate furniture, proper lighting facilities and good ventilation providing a very healthy teaching learning environment. College has state of the art **Laboratories and Workshops** for conducting practical orientated academic activities as per the curriculum of the University. College has **Computer Labs** with high speed internet connectivity of **300Mbps**. The College has **ICT enabled Seminar Halls** to conduct various workshops, seminars, conferences and guest lectures.

The College has well-established **Skill Enhancement Centres** like **AWS Academy, Apple iOS, SALT, Rockwell Automation, National Instruments, e-Yantra and SMC Pneumatics** equipped with latest technologies and have tie up with companies to conduct various specialized courses and provide training so that students develop and acquire additional abilities and skills through industry academia connect and interdisciplinary approach.

The college has well-equipped **Digital Language Lab** to improve the communication proficiency, boost confidence for public speaking and enhance performance in placement drives of students.

The College provides various **indoor and outdoor sports facilities** to encourage students to participate in sports activities.

The College has **Gymnasium in Boys and Girls Hostel** for body building, running and doing exercise.

The College has **Auditorium and Amphitheater** for organizing various **Cultural events** like fresher's party **ROOBAROO** and annual fest **UDGHOSH**.

The aesthetically designed **College Library** is centrally located with an **area of 934.7 Sq.mt.** and has a seating capacity of more than 250. The library is **fully automated** and uses software titled "**Alice for Windows**". The library is well stocked with physical books / e-books, national and international physical journals / e-journals and periodicals accessible to students and faculty online.

The institute has **ramps** and **wheelchair facilities** along with elevators and human assistance (if required) to provide barrier free infrastructure to differently-abled persons.

### **Student Support and Progression**

ITS Engineering College extends maximum support to students in their education and progression. Scholarships and fee-concessions aid offered to students in completing their study. Total **1794 students** benefited with **Rs 110122650/-** scholarships under various heads of scholarships and free ships during last five year.

The regular training programs are conducted to enhance the soft skills, language and communication, life skills, and ICT/computing skills to prepare students in pursuing their professional goals through internal trainers and outside agencies like **Zeinth, RPCL and Skill-Bout**. Apart from academic activity, students also participate in yoga and sports activity, which are organized regularly to make students physically and mentally fit.

Students' grievances addressed through the Proctorial Board, Anti- ragging Committee and Internal Complaints Committee against Sexual Harassment. The timely redressal of such complaints is the major objective of these committees.

The CRC team of our college conduct the various career advancement activities including placement, career counselling and guidance for competitive examinations to give direction to their career prospects, which helps them to get their placements. Total **1049 students** were placed in various company during last five years.

Apart from the placements students also progress for the higher education in different institutes in India and abroad. Students competed in different examination like GATE/GRE/TOFEL and other State or Center level competitive examinations.

Students are the most important stakeholders of any academic institution. College provides many opportunities to ensure their representation and participation in various student bodies and committees. Annual sports meet and cultural activities are conducting every year at College/University level for the overall growth of students. Institute organizes annual fest “**Udgosh**” and fresher’s party “**Roo-Ba-Roo**” every year for active participation of the students. The students participates in different cultural and sports events. Our students won **26 medals** in different sports/cultural events at AKTU Zonal level.

The college has an active Alumni association that facilitate alumni network and support in the form of scholarship, motivation, and opportunities for the current students. The college organize the event “Annual Alumni meet SANAKALAN” every year. The registration of Alumni association is processed (application number 10096734), with society name as “Alumni Association of I.T.S Engineering College Greater Noida”.

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

Institute has a mechanism for delegating authority and providing operational autonomy to all the various functionaries to work towards Decentralized Governance System.

Both management and leadership, not only focus on to the stated vision and mission, but dynamically evolve ways and means to attain the set goals through a transparent involvement of all stakeholders. ITSEC governance is marked by transparency, inclusivity and accountability. Feedback from various stakeholders like students, teachers, employers and alumni is done through feedback forms. It is then analyzed, and appropriate action is taken and shared with the Governing Body. Staff Council and IQAC monitor the quality of the teaching-learning process, while the management facilitates smooth functioning of teaching and support systems.

Various committees are formed in the institute like IQAC, Examination committee, Research Committee, Cultural and Sports Committee, Student grievances redressel cell, Internal Complaint Committee etc. These committees help in effective management and implementation of rules. Faculty members are given representation in various committees/cells and allowed to conduct various programs to showcase their abilities. Students are empowered to play an active role as a coordinator of co-curricular and extracurricular activities, social service group coordinator.

The College offers efficient welfare programs for both its Students, teaching and non-teaching staff. In order to keep their knowledge up to date, the faculty members are encouraged by the management to join professional associations and receive financial support for attending seminars, conferences, and other events. The organization is equipped to conduct both internal and external financial audits. For the internal financial audit college has appointed a Chartered Accountant, who on regular basis conducts the internal audit and External audit is also conducted by auditors’ M/s. Vipin Garg & Co., Ghaziabad and they conduct the audit twice a year.

All of the institution's adopted and implemented quality initiative and quality assurance initiative measures are regularly planned and carried out by the Internal Assurance Cell. The primary responsibility of the IQAC is to successfully plan all quality measures to maintain and improve quality in all of the institution's activities and to build strong relationships with parents, teachers, students, and other stakeholders in order to successfully implement all planned activities that are aimed at fulfilling the institution's vision and mission.

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

ITS Engineering College strongly believes in imparting quality education with a holistic approach for an overall growth of our students, faculty and staff members. The institution takes a lot of efforts to empower education on moral and ethical grounds.

The Institution makes sincere efforts to empower its women faculty and students. The **Internal Complaint Committee (ICC)** of the College works towards the safety, security and empowerment of our women stakeholders. A 24X7 helpline is available in the institute in case of emergency.

The College understands its responsibility towards a pollution free and safer environment. Alternate sources of energy like **solar panels and LED bulbs** have been installed for energy conservation. There is also a strict protocol for proper disposal of degradable and non-degradable waste. The Institute also takes effective measures for **water conservation and rain water harvesting**. The campus has disabled-friendly and barrier free environment due to availability of **ramps, lifts, wheel chair and divyangjan washrooms**. It conducts activities beyond the campus pertaining to our environment.

The Institute boasts of linguistically and culturally rich students from more than 10 states besides teachers and staff from various regional backgrounds. This imparts an inclusive environment quality to our campus. The College also takes the ownership of sensitizing its students and employees to various constitutional rights, duties and responsibilities. It has a dedicated **Unnat Bharat Abhiyan Cell (UBAC)** which organises awareness programs in nearby villages besides making our students, faculty and staff members aware of their duties as responsible citizens.

The Institute has two best practices that include enhancement of professional and technical quality and conduction of value based and personality development programs. Both the practices have been introduced to improve the quality of education imparted to students, to be in sync with contemporary standards/ methodology of teaching.

The Institute has a distinctive **NewGen IEDC** sponsored by the Department of Science & Technology, Government of India and

## 2. PROFILE

### 2.1 BASIC INFORMATION

Name and Address of the College	
Name	I.T.S ENGINEERING COLLEGE
Address	Plot No. 46, Knowledge Park III, Greater Noida, GB Nagar, UP - 201310
City	Greater Noida
State	Uttar pradesh
Pin	201310
Website	<a href="http://www.itsengg.edu.in">www.itsengg.edu.in</a>

Contacts for Communication					
Designation	Name	Telephone with STD Code	Mobile	Fax	Email
Director	Dr Mayank Garg	0120-2331000	7838555875	-	dir.engg@its.edu.in
IQAC / CIQA coordinator	Rakesh Kumar Garg	0120-2331001	8800211300	-	iqac_engg@its.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	

State	University name	Document
Uttar pradesh	Dr Apj Abdul Kalam Technical University Uttar Pradesh Lucknow	<a href="#">View Document</a>

Details of UGC recognition		
Under Section	Date	View Document
2f of UGC	15-07-2014	<a href="#">View Document</a>
12B of UGC		

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>	07-06-2023	12	Dates are for two thousand twenty three and twenty four session
AICTE	<a href="#">View Document</a>	07-06-2023	12	Dates are for two thousand twenty three and twenty four session
AICTE	<a href="#">View Document</a>	07-06-2023	12	Dates are for two thousand twenty three and twenty four session
AICTE	<a href="#">View Document</a>	07-06-2023	12	Dates are for two thousand twenty three and twenty four session
AICTE	<a href="#">View Document</a>	07-06-2023	12	Dates are for two thousand twenty three and twenty four session
AICTE	<a href="#">View Document</a>	07-06-2023	12	Dates are for two thousand twenty three and twenty four session

AICTE	<a href="#">View Document</a>	07-06-2023	12	Dates are for two thousand twenty three and twenty four session
AICTE	<a href="#">View Document</a>	07-06-2023	12	Dates are for two thousand twenty three and twenty four session
AICTE	<a href="#">View Document</a>	07-06-2023	12	Dates are for two thousand twenty three and twenty four session
AICTE	<a href="#">View Document</a>	07-06-2023	12	Dates are for two thousand twenty three and twenty four session

<b>Recognitions</b>	
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?	Yes
If yes, name of the agency	NIRF Innovation Ministry of Education
Date of recognition	05-06-2023

<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	Plot No. 46, Knowledge Park III, Greater Noida, GB Nagar, UP - 201310	Urban	12.37	20290

## 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,Civil Engineering, Civil Engineering	48	Class XII	English	30	21
UG	BTech,Computer Science And Engineering,Computer Science and Engineering Artificial Intelligence and Machine Learning	48	Class XII	English	60	73
UG	BTech,Computer Science And Engineering,Computer Science and Engineering	48	Class XII	English	180	213
UG	BTech,Computer Science And Engineering,Computer Science and Engineering Data Science	48	Class XII	English	30	28
UG	BTech,Electrical And Electronics Engineering,Electrical and Electronics Engineering	48	Class XII	English	30	0
UG	BTech,Electronics And Co	48	Class XII	English	60	49

	mmunication Engineering, Electronics and Communication Engineering					
UG	BTech,Mechanical Engineering,Mechanical Engineering	48	Class XII	English	30	18
PG	MBA,Master Of Business Administration,	24	Under Graduate	English	60	37

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

Teaching Faculty												
	Professor				Associate Professor				Assistant Professor			
	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	10				20				84			
Recruited	4	3	0	7	3	3	0	6	53	31	0	84
Yet to Recruit	3				14				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				60
Recruited	49	11	0	60
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				20
Recruited	19	1	0	20
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.	4	3	0	3	3	0	10	6	0	29
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	48	20	0	68
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>Total</b>
	1	0	0	1	
	1	0	0	1	

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

<b>Programme</b>		<b>From the State Where College is Located</b>	<b>From Other States of India</b>	<b>NRI Students</b>	<b>Foreign Students</b>	<b>Total</b>
UG	Male	203	155	0	0	358
	Female	25	19	0	0	44
	Others	0	0	0	0	0
PG	Male	15	11	0	0	26
	Female	11	0	0	0	11
	Others	0	0	0	0	0

<b>Provide the Following Details of Students admitted to the College During the last four Academic Years</b>					
<b>Category</b>		<b>Year 1</b>	<b>Year 2</b>	<b>Year 3</b>	<b>Year 4</b>
SC	Male	15	10	10	28
	Female	1	0	2	3
	Others	0	0	0	0
ST	Male	6	1	0	5
	Female	0	0	0	0
	Others	0	0	0	0
OBC	Male	124	66	106	148
	Female	15	18	10	19
	Others	0	0	0	0
General	Male	188	127	187	197
	Female	32	35	32	44
	Others	0	0	0	0
Others	Male	0	0	0	0
	Female	0	0	0	0
	Others	0	0	0	0
<b>Total</b>		<b>381</b>	<b>257</b>	<b>347</b>	<b>444</b>

### **Institutional preparedness for NEP**

<p>1. Multidisciplinary/interdisciplinary:</p>	<p>I.T.S Engineering College has a holistic multidisciplinary curriculum that aims to empower the students with adequate knowledge of allied domains besides the core subjects. The College offers a diverse range of programs; including B. Tech in Civil engineering, Computer Science Engineering (CSE), CSE (AI&amp;ML), CSE (Data Science), Electronics and Communication engineering, Electrical and Computer engineering, Mechanical engineering, as well as an MBA program in Management. Physics, Chemistry, Mathematics, Economics, Soft Skills and Environmental Science &amp; Ecology form a crucial component in the first year engineering curriculum in the Institute. These</p>
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	<p>subjects are holistically imbibed in the first year of the engineering programme. In addition to these subjects, the Institute also runs hardcore technical subjects in the form of elective courses designed as per the university's curriculum, thereby maintaining a balance between science, humanities, and engineering courses. In the third and final year of B. Tech programme, our students have the option to choose from a host of nine humanities and science-based elective subjects. The Institute also offers meticulously designed value added courses on emerging and multidisciplinary domains to our students to cultivate social, human, and environmental values in them. These VACs aim to promote the holistic and multidisciplinary education theme of the NEP 2020. Our Institute has also introduced new programmes in emerging fields such as Artificial Intelligence, Machine Learning and Data Science from the session 2021-22. Numerous projects on community engagement and social service are undertaken by our students every year. Some of these include blood donation camps, educating women on health and hygiene, etc. The Institute has a robust New Gen Institute of Entrepreneurship Development Cell (NewGen IEDC) where our mentee students are involved under the supervision of faculty members as their mentors in creating prototypes and encouraging ideation. The Institute has a credit of 3 patents granted, 40 patents published, and 23 patents filed to date. Total 8 companies have been incorporated by our incubation members including women founded start-ups as well. The college is also recognized in ARIIA ranking in the Top Twenty-five institutions in 2020 and “Excellent Band” in 2021. The College has received the prestigious NIRF Innovation Ranking 2023 in the band 151-300 across India. The Institute organizes many interdisciplinary international conferences every year to promote a blending of different disciplines leading to the exchange of research ideas and knowledge on topics of overlapping domains.</p>
2. Academic bank of credits (ABC):	<p>I.T.S Engineering College is a premier Engineering and Management institution set up in 2006 and affiliated to Dr. APJ Abdul Kalam Technical University (AKTU), Lucknow. Since we are governed by the policies of the AKTU in terms of the Academic Bank of Credits (ABC), our Institute is not</p>

	authorized to develop its curriculum or to operate ABC autonomously.
3. Skill development:	<p>Through its unwavering dedication to academic excellence, ITS Engineering College continues to provide students with a comprehensive education that equips them with the skills and knowledge required in the rapidly evolving fields of engineering and management. The institute has accomplished exemplary work in the area of Innovation, Incubation, and Entrepreneurship Development since 2015. The College has been approved as Business Incubator (BI) / Host Institute (HI) by the Ministry of Micro, Small &amp; Medium Enterprises (MSME), 2015. New Gen Institute of Entrepreneurship Development Cell (NewGen IEDC) which was established by the Department of Science &amp; Technology, Govt of India in 2018 is on a rigorous mission to promote knowledge-based and technology-driven start-ups of the students. NewGen IEDC's Fab Lab has pioneered young minds by promoting their idea and uplifting their innovation potential in an academic environment. About seventy-two number of Proof of Concepts (PoC) have been developed at NewGen IEDC. The changing demands of the industry require more emphasis on soft skills, coding skills, and industry-based projects. ITS Engineering College is continuously working on these facets in a timely manner. The Institute has state of the art Skills Enhancement Centres (SEC) that aim to bridge the gap between industry and academia by producing employable industry - ready students. Here the students get an easy access to latest technologies in their respective fields that enhance the chances of getting them placed in the organizations of repute. The students get acquainted with the niche skills that are to be used in industry, which gives them a cutting edge over others in the competitive market. The CSE Department of the Institute owns a dedicated coding society by the name of Cyberia Community that looks after the enhancement of coding skills of our students. The Institute focuses whole heartedly on the development of communication skills of the students through regular PDP sessions which are in align with the industry demands. The Institute also offers the students with an opportunity to receive B. Tech Honours Degree if they effectively complete NPTEL/SWAYAM courses and earn stipulated</p>

	credits. Courses on soft skills and other skill development domains remain the most sought after courses on these portals.
4. Appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using online course):	The Institute religiously offers two compulsory courses on The Constitution of India, Law, and Engineering (KNC-501/601) and the Indian Tradition, Culture, and Society (KNC-502/602) to its B. Tech third year students as per the AKTU curriculum to enhance the cultural affinity towards our Vedic literatures, historical contexts and knowledge of numerous Indian languages. The mode of instruction in the classes is primarily English, but sometimes the lectures are also delivered in a bilingual fashion (both English and Hindi) to cater effectively to the mixed ability groups of students in the classroom. The Institute organizes various rich cultural activities including poem recitations and debate competitions in Hindi language, solo and group folk songs and colourful dance programmes related to various parts of the country all round the year. In fact, the Institute celebrates its annual freshmen social – Roo-Ba-Roo and the college cultural fest – Udghosh that have been taken from the Indian languages and these aptly sum up the integration of our Indian culture.
5. Focus on Outcome based education (OBE):	I.T.S Engineering College has implemented Outcome Based Education (OBE) policy in its teaching pedagogy according to the norms of the affiliated University. As per the policy, the outcomes are evaluated at every stage and the corrective measures are considered to bridge these gaps. The members from the IQAC visit every department once in a semester to review the course files of all subject coordinators and other faculty members besides evaluating the other relevant documents. For a proper understanding of the Outcome Based Education, the Institute has its own mechanism to monitor the entire COs and POs calculations. Based on this calculation, the gaps are identified and an appropriate action taken report is prepared for further improvement. The Institute and all of its departments have updated their vision and mission statements in accordance with the OBE guidelines.
6. Distance education/online education:	I.T.S Engineering College is affiliated to Dr. APJ Abdul Kalam Technical University (AKTU) located in Lucknow. Since AKTU curriculum does not

include any reference to distance learning, therefore, all the programmes and courses in the Institute are conducted through physical mode. However, in accordance with the notification of the award of Honours Degree by AKTU, the Institute offers its students an opportunity to go for online courses through SWAYAM NPTEL Portal. These online courses enable the learners to achieve a B. Tech Honours degree by providing them with 20 additional credits earmarked for B. Tech Honours Degree only in addition to the 160 credits. The Institute also has a provision as per the University norms to offer Minor Degree in ten specialized emerging technologies. There will be a track of 05 subjects (18 – 20 Credits) and one subject per semester from VI semester onwards in each specialization. If a student is not able to pass all the subjects of a Minor Degree, then subjects cleared by the students will be mentioned in the Mark sheet of the student as Extra Subject/ Credit. The Minor Degree will be mentioned on the Degree Certificate along with Minor Degree. In the classrooms, the faculty also provides e-contents, such as videos, soft copies and PowerPoint presentations as supplementary materials to enhance students' comprehension of the courses.

### Institutional Initiatives for Electoral Literacy

<p>1. Whether Electoral Literacy Club (ELC) has been set up in the College?</p>	<p>Yes, Electoral Literacy Club has been set up in the College. Under the initiative of Systematic education and Electoral participation (SVEEP), Electoral Literacy Club was established in the academic year 2022-2023 on 08/06/2023. The objectives of Electoral Literacy Club are as follows. • To create democratic awareness among students. • To increase participation of students in the electoral process. • To register first time voters. • To give systematic education to voters.</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 Electoral Literacy Club (ELC) is a student organization at our college that focuses on promoting knowledge and understanding of electoral processes among the student body. The ELC is typically led by a student coordinator, who is responsible for overseeing the club's activities and managing its events. The coordinator is typically assisted by a</p>

	<p>faculty co-coordinator who helps to plan and execute events and programs. In addition to the coordinator and co-coordinator, the ELC also includes student representatives who help to plan and participate in club activities. This helps to ensure that the club's activities and programs are inclusive and accessible to all students.</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>A voter awareness campaign was conducted on 11/10/2023 at Safipur village, Greater Noida.</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>Various initiatives are planned by the Electoral Literacy Committee for a new voter registration program to increase participation in democracy of college students. Voter registration forms are made available by the institute for voter registration to students who have completed 18 years of age. At the same time, information about online link for online voter registration is given and encouraged to fill the form. Various activities are to be conducted on the occasion of National Voter's Day such as Quizzes, Lectures on Democracy and Voters, Rangoli Competition and Wall Paper Presentation etc.</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>It is common activity for students who are above 18 years of age and not yet enrolled as voters in the electoral roll. This can be due to a variety of reasons, such as lack of awareness about the importance of voter registration or the process for doing so, difficulty in obtaining the necessary documents, or simply forgetting to register. Efforts by the Election Commission of India (ECI) to encourage voter registration among students include conducting voter registration drives at educational institutions, providing information about the voter registration process through various channels and working with educational institutions to create awareness about the importance of voting and the process of voter registration. Our institute has dedicated staff members and committee which is responsible for</p>

coordinating voter registration efforts. The institute identifies the students at the time of admission whether that enrolled as a voter. Based on this information, the institute develops a strategy for voter registration that addresses the specific needs and challenges of its student population.

## Extended Profile

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### 1 Students

#### 1.1

Number of students year wise during the last five years

2022-23	2021-22	2020-21	2019-20	2018-19
1287	1264	1255	1500	1636
File Description		Document		
Institutional data in prescribed format		<a href="#">View Document</a>		

### 2 Teachers

#### 2.1

Number of teaching staff / full time teachers during the last five years (Without repeat count):

Response: 192

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

#### 2.2

Number of teaching staff / full time teachers year wise during the last five years

2022-23	2021-22	2020-21	2019-20	2018-19
78	73	87	98	99

### 3 Institution

#### 3.1

Expenditure excluding salary component year wise during the last five years (INR in lakhs)

2022-23	2021-22	2020-21	2019-20	2018-19
1136.49	843.62	684.89	1287.56	1157.78
File Description		Document		
Upload Supporting Document		<a href="#">View Document</a>		



## 4. Quality Indicator Framework(QIF)

### Criterion 1 - Curricular Aspects

#### 1.1 Curricular Planning and Implementation

##### 1.1.1

**The Institution ensures effective curriculum planning and delivery through a well-planned and documented process including Academic calendar and conduct of continuous internal Assessment**

**Response:**

The institute is affiliated with Dr. A. P. J. Abdul Kalam Technical University (AKTU), Lucknow, and follows the university's Choice Based Credit System (CBCS) Syllabus. The syllabus is modified curriculum prepare at department level to bridge the gaps of the syllabus depending on its prevalence, adequacy, and relevance. Our Institute has always tried to incorporate the vision and missions of the institution into the academic programs in the form of curricular and co-curricular activities to cater to the job skills as per the present scenario.

To ensure efficient delivery of the curriculum, the following measures are implemented:

**Academic Calendar:**

We follow a well-planned academic calendar to deliver curriculum in an effective and efficient mannerr in line with the university's academic calendar. Expected coverage of the syllabus of theory subjects is duly mentioned in the academic calendar in accordance with the sessional examination and is provided to the students before the commencement of the semester.

**Academic Process**

The proper monitoring of syllabus coverage is ensured by the concerned head of the departments. The different academic monitoring formats have been designed and used to monitor the academic process. The student attendance registers, time table, course and program outcomes (COs & POs) achieved, teaching-learning process etc. are also monitored and assessed through these formats.

In order to ensure timely delivery of the subject topics, the proper and robust lesson plan is available with every faculty member. The university evaluation scheme is incorporated in the lesson plan and its preview is discussed with the students in the beginning of the course. Our University Syllabus is based on CBCS which provides an opportunity for the students to choose courses from the prescribed courses. The students can take courses of their choice.

Laboratory manuals are available for lab experiments. Faculty in-charge explains and demonstrates theory behind the experiments and then students perform the experiments. At the end of the experiment, students prepare practical files and get it evaluated on next turn. Further, on next turn, a brief viva of the experiment conducted on the previous turn is taken up by the faculty in-charge who after assessment enters the details in a lab assessment sheet.

**Beyond Syllabus:**

The institute motivates students towards opting e-courses through NPTEL, and has established multiple Skill Enhancement Centers with industry collaboration to train students on the latest technologies and bridge the gap between industry and academia.

Industrial visits are also organized to provide ample exposure to students to the work culture of industrial establishment.

**Feedback:**

Feedback on teaching and learning is taken from the students to monitor and enhance the teaching learning process. Syllabus gaps are filled based on the feedback from its stakeholders i.e. students, employers, faculty members from the institute, alumni etc.

**Examinations:**

The continuous internal assessment (CIA) process includes two midterm examinations, assignments, quizzes, presentations, viva-voce, etc. One make-up test is also conducted for those students who remain absent from examinations due to valid reasons. End-term semester examinations are conducted by the university. Faculty members carry out evaluation work and submit marks on SIM within 5 days of the examination.

The solutions to midterm examination papers with students. The evaluated answer sheets are also discussed.

File Description	Document
Upload Additional information	<a href="#">View Document</a>

**1.2 Academic Flexibility****1.2.1**

**Number of Certificate/Value added courses offered and online courses of MOOCs, SWAYAM, NPTEL etc. (where the students of the institution have enrolled and successfully completed during the last five years)**

**Response:** 151

File Description	Document
List of students and the attendance sheet for the above mentioned programs	<a href="#">View Document</a>
Institutional programme brochure/notice for Certificate/Value added programs with course modules and outcomes	<a href="#">View Document</a>
Institutional data in the prescribed format	<a href="#">View Document</a>
Evidence of course completion, like course completion certificate etc. Apart from the above:	<a href="#">View Document</a>

### 1.2.2

*Percentage of students enrolled in Certificate/ Value added courses and also completed online courses of MOOCs, SWAYAM, NPTEL etc. as against the total number of students during the last five years*

**Response:** 32.66

1.2.2.1 Number of students enrolled in Certificate/ Value added courses and also completed online courses of MOOCs, SWAYAM, NPTEL etc. as against the total number of students during the last five years

2022-23	2021-22	2020-21	2019-20	2018-19
287	376	426	537	641

File Description	Document
Upload supporting document	<a href="#">View Document</a>
Institutional data in the 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 in transacting the Curriculum*

**Response:**

**Ethics in the Workplace and Human Values:**

- Our Institute works at the elemental level to make students concerned about the impact as well as

the need of the hour to achieve sustainability on above mention societal and developmental issues.

- Basic courses including Professional Communication Lab and Soft Skills (KNC-101/102) are offered in the first year.
- Universal Human Values (KVE-301/401) and Technical Communication (KAS-301/401) are taught in the second year of the B. Tech program. Courses on Indian Tradition, Culture, and Society (KNC-502/602) and the Constitution of India, Law, and Engineering (KNC-501/601) are also offered.
- Students are taught various related subjects in a step-gradient manner with the aim to inculcate a sense of responsibility towards all these issues around them. The curriculum of UG/PG programs includes courses to encourage Professional Ethics and Human Values among students.
- The institute's core courses on the Constitution of India, Law, and Engineering/Indian Tradition, Culture, and Society are also running in the B. Tech. program. The courses on English Language Lab./ Professional Communication Lab, Soft Skills-I, Soft Skills-II are taught in B. Tech. and MBA 1st year, Technical Communication, Universal Human values are included in B.Tech. 2nd year, Developing Soft Skills & Personality in MBA 2nd year.
- Apart from above there are four elective courses related to human values, one elective course related soil and water conservation and one elective course on women and gender studies are also offered in third and fourth year of B. Tech programs.
- In addition to the above institution core course, multiple workshops are organized to address Universal Human Values among students and faculty members. For B. Tech I year students Orientation Program is conducted on Human Values in the year: 2020, 2019 and 2018. Alongside theory, practical inculcation is ensured by student's activities such as Blood donation camps, Cleanliness drives, donation camps and many more. Human Value Education (HVE) Cell @ Institute level is also constituted to familiarize and equip students as well as faculty and staff to the importance and need of values & ethics for the development of self & society as a whole.

#### **Courses to address Gender:**

- At present, the curricular structure does not include any specific course that addresses cross-cutting issues related to gender. But various activities are conducted at the institute level to address it under Internal Complaint Committee (ICC).
- Larger participation of the fairer section of the society in matters of administration such as decision-making, policy regulations and smooth implementation is motivated and ensured by promoting inclusion of large number of female staff in various institutional committees. The institute is proud to have formulated its women cell headed by strong personalities, ensuring gender equalization at work place.
- The University offered "Introduction to Women's and Gender Studies" (KOE079) as an elective for B. Tech. final year students in 2021–2022. The course focused on modules like Gender and Representation, Women and Society, Women's Movement, Gender Roles and Psychology of Sex, and Feminist Theory.

#### **Courses to address Environment and Sustainability:**

- The curriculum includes different courses that address the Environment and its related issues. For example, the B.Tech. Civil Engineering program includes courses on Environmental Engineering, Environmental Engineering Lab, River Engineering, Air and Noise Pollution Control, Geotechnical Engineering, Engineering Geology, Engineering Hydrology, Surveying, Surveying

Lab, GIS, CAD Training and Advance remote sensing.

File Description	Document
Upload Additional information	<a href="#">View Document</a>

### 1.3.2

**Percentage of students undertaking project work/field work/ internships (Data for the latest completed academic year)**

**Response:** 65.89

#### 1.3.2.1 Number of students undertaking project work/field work / internships

Response: 848

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

## 1.4 Feedback System

### 1.4.1

*Institution obtains feedback on the academic performance and ambience of the institution from various stakeholders, such as Students, Teachers, Employers, Alumni etc. and action taken report on the feedback is made available on institutional website*

**Response:** A. Feedback collected, analysed, action taken& communicated to the relevant bodies and feedback hosted on the institutional website

File Description	Document
Feedback analysis report submitted to appropriate bodies	<a href="#">View Document</a>
At least 4 filled-in feedback form from different stake holders like Students, Teachers, Employers, Alumni etc.	<a href="#">View Document</a>
Action taken report on the feedback analysis	<a href="#">View Document</a>

## Criterion 2 - Teaching-learning and Evaluation

### 2.1 Student Enrollment and Profile

#### 2.1.1

##### Enrolment percentage

**Response:** 65.3

##### 2.1.1.1 Number of seats filled year wise during last five years (Only first year admissions to be considered)

2022-23	2021-22	2020-21	2019-20	2018-19
395	346	243	346	433

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

2022-23	2021-22	2020-21	2019-20	2018-19
480	480	540	600	600

#### File Description

#### Document

Institutional data in the prescribed format

[View Document](#)

Final admission list as published by the HEI and endorsed by the competent authority

[View Document](#)

Document related to sanction of intake from affiliating University/ Government/statutory body for first year's students only.

[View Document](#)

#### 2.1.2

*Percentage of seats filled against reserved categories (SC, ST, OBC etc.) as per applicable reservation policy for the first year admission during the last five years*

**Response:** 40.59

##### 2.1.2.1 Number of actual students admitted from the reserved categories year wise during last five years (Exclusive of supernumerary seats)

2022-23	2021-22	2020-21	2019-20	2018-19
116	107	76	108	141

### 2.1.2.2 Number of seats earmarked for reserved category as per GOI/ State Govt rule year wise during the last five years

2022-23	2021-22	2020-21	2019-20	2018-19
240	240	270	300	300

File Description	Document
Institutional data in the prescribed format	<a href="#">View Document</a>
Final admission list indicating the category as published by the HEI and endorsed by the competent authority.	<a href="#">View Document</a>
Copy of communication issued by state govt. or Central Government indicating the reserved categories(SC,ST,OBC,Divyangjan,etc.) to be considered as per the state rule ( Translated copy in English to be provided as applicable)	<a href="#">View Document</a>

## 2.2 Student Teacher Ratio

### 2.2.1

**Student – Full time Teacher Ratio  
(Data for the latest completed academic year)**

**Response:** 16.5

## 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 and teachers use ICT- enabled tools including online resources for effective teaching and learning process**

**Response:**

All the courses predominantly follow the lecture method. ICT facilities are used for enhancing the effectiveness. Besides lectures, other student-centric methods are also employed to ensure the active involvement of the students in the teaching-learning process.

These include:

- PowerPoint presentations
- Students' seminars and assignments
- Guest lectures by Industry and Academic experts
- Case studies
- Practical sessions
- Mock sessions in the class
- Group discussions
- Documentary/film/video shows
- Preparation of Business Plan
- Seminar presentations based on research articles
- Role plays, observational visit, and preparation of documentaries on social issues
- Problem-solving sessions
- Academic projects
- Brainstorming sessions
- Laboratory work
- Skills Oriented Trainings based on Industry requirements
- Subject-based quiz program

Apart from classroom interactions, departments also employ the following methods wherever relevant:

- Industrial visits
- Study tours
- Field level survey
- Industrial training and project work
- Academic competitions
- Educational field trips
- Attending seminars and workshops
- External Assessments for assessing placement preparation
- Personality Development Classes
- Pre Placement Mock-Interviews

Various clubs and societies of the department have been formed to invite experts and people of eminence to deliver lectures and interact with the students. These societies also organize different curricular, co-curricular and extracurricular activities which help students to develop their organizational skills and experiential learning.

Different clubs and societies functioning in the institute celebrate important days such as Earth Hour, Science Day, Environment Day, Engineer's Day, etc. Different technical and non-technical events are organized by these clubs and societies like Envision, Mech-Impuls, Awant Garde and Ergon.

The College follows ICT enabled teaching in addition to the traditional classroom education. Subsequent efforts are taken by the College to provide e-learning atmosphere in the classroom:

- In addition to chalk and talk method of teaching, the faculty members are using the IT enabled learning tools such as PPT, Video clippings, Audio system, online sources, to expose the students for advanced knowledge and practical learning.
- All class rooms have internet facility through LAN and are fully furnished with LCD and Computers.
- College provide online library facility for faculties and student for enhancing their skills through e-consortium.
- For online teaching learning, the College provides the facility of virtual lab, software lab, NPTEL, Edx and simulation tools.
- During pandemic, all the classes were conducted online with the help of ZOOM and Google Meet.
- External assessment for the preparation of placements, online assessments through AMCAT and CoCubes are carried out.

#### College premises are Wi-Fi enabled

- Specialized computer laboratory with an internet connection has been provided to promote independent learning. Wi-Fi facility for access of internet is provided on individual laptop and mobile devices throughout the campus premises.
- Through firewall, tight security is provided to Wi-Fi users and it is accessed and controlled by the system administrator.

File Description	Document
Upload Additional information	<a href="#">View Document</a>

## 2.4 Teacher Profile and Quality

### 2.4.1

#### Percentage of full-time teachers against sanctioned posts during the last five years

**Response:** 83.65

#### 2.4.1.1 Number of sanctioned posts year wise during the last five years

2022-23	2021-22	2020-21	2019-20	2018-19
92	92	104	116	116

File Description	Document
Sanction letters indicating number of posts sanctioned by the competent authority (including Management sanctioned posts)	<a href="#">View Document</a>

**2.4.2**

*Percentage of full time teachers with NET/SET/SLET/ Ph. D./D.Sc. / D.Litt./L.L.D. during the last five years (consider only highest degree for count)*

**Response:** 35.86

**2.4.2.1 Number of full time teachers with NET/SET/SLET/Ph. D./ D.Sc. / D.Litt./L.L.D year wise during the last five years**

2022-23	2021-22	2020-21	2019-20	2018-19
29	33	34	30	30

File Description	Document
List of faculties having Ph. D. / D.Sc. / D.Litt./ L.L.D along with particulars of degree awarding university, subject and the year of award per academic year.	<a href="#">View Document</a>
Institution data in the prescribed format	<a href="#">View Document</a>
Copies of Ph.D./D.Sc / D.Litt./ L.L.D awarded by UGC recognized universities	<a href="#">View Document</a>

## 2.5 Evaluation Process and Reforms

**2.5.1**

**Mechanism of internal/ external assessment is transparent and the grievance redressal system is time- bound and efficient**

**Response:**

I.T.S Engineering College handles grievances mechanism in a completely transparent way. In the starting of the semester, all faculty members discussed the evaluation process of internal marks and external marks with the students. Internal examination test schedules are prepared and communicated to students in advance.

**Internal Examination Grievances Redressal**

- After evaluation of the answer copies of sessional examinations are available to the students for verification and to clear internal examination grievances (if any). The same is collected back. He/she many times have grievance after comparison with fellow student's answer sheet. This is

satisfied by the evaluator/concerned faculty member by explaining the reason for difference in marks.

- If a student is unhappy with his or her marks after speaking with the subject faculty, he or she may contact the department head. Following an investigation of the case's validity, the department head may direct to re-evaluate the answer sheet(s) through department another faculty. In case the student is not satisfied with the proceedings, he / she may approach the Institute Director for the redressal of his / her grievance.
- The time taken by the institute for the declaration of the results of Sessional examinations is around 5 days from the date of the last examination. The award list of the sessional examinations is displayed on the departmental notice board for the students.
- Grievance redressal forums functioning at the Department and Institute levels look into student complaints on internal assessment. Students are free to raise their complaints if any, regarding internal assessment to the subject teacher.
- The regular assessment of the practical conducted by the students is completed by the faculty members either on the same day or on the next turn.
- Final sessional marks are uploaded on the university portal and daily attendance is also uploaded on the university portal by concerned subject faculty members. Detained list is prepared well in advance with common criteria. If any grievance is observed in it, is resolved only for medical reasons/emergency. For lab courses, continuous assessment of every experiment is prepared by concerned faculty member followed by viva voice and lab record.

### External Examination Grievance Redressal

- University End Semester Theory examination is conducted at other centers and for practical examination, the University assigned an examiner from other colleges.
- University examination result may be challenged by scrutiny/re-evaluation. Re-evaluation process is done by another evaluator at University level. This whole process is conducted in such a way so as the student gets updated result within the same semester; hence it is a time-bound process.
- All external examination result related grievances are reported to the university through college registrar. The follow up for the resolution of grievance is taken care by the college registrar level.
- For all the external examination related grievances, the decision of Controller of Examination of Dr. APJ Abdul Kalam Technical University, Lucknow, shall be final and binding to students / officials of the Institute.

File Description	Document
Upload Additional information	<a href="#">View Document</a>

## 2.6 Student Performance and Learning Outcomes

### 2.6.1

***Programme Outcomes (POs) and Course Outcomes (COs) for all Programmes offered by the institution are stated and displayed on website***

**Response:**

The process of defining the Vision, Mission, PEOs and PSOs includes all the stakeholders like Students, Parents, Industry, Faculty and Alumni. It shows that Vision and Mission and PEOs of the departments are prepared by considering the Vision and Mission of the Institute and views of all the stakeholders (Internal and External).

For redefining the Vision, Mission and PEOs of the department, a brainstorming session is done within the department through departmental meeting. The outcomes of this meeting are further discussed with other stakeholders like Students, Parents, Industry, and Alumni.

**Preparation of first draft of Vision, Mission, PEOs and PSOs:** First draft of draft of Vision, Mission, PEOs and PSOs is prepared by DAGC committee by considering the institute's Vision, Mission, and viewpoints of faculty and staff members.

**Preparation of second draft of Vision, Mission, PEOs and PSOs:** Based on input from various stakeholders such as students, alumni, parents and industry experts another draft is prepared at DAGC meeting with all core members of DAGC.

**Preparation of final draft of Vision, Mission, PEOs and PSOs:** After discussion with Director/Management and based on their inputs, a final draft is prepared at DAGC meeting and sent to BOG for approval.

**Vision, Mission, PEOs, POs and COs are published and disseminated among stakeholders as mentioned below:**

In order to disseminate Vision, Mission, Program Educational Objectives (PEOs), Program Outcomes (POs) and Course Outcomes (COs), every Department always ensures to communicate to all stakeholders through various means. Some of them are listed below:

- Institute' website
- Orientation Program Presentation
- Departmental Notice Board
- HOD Office
- Faculty Cabins
- Laboratories
- Course File of each subject
- Lab Manuals
- Departmental Library
- Floor of the Department

**Internal Stakeholders:**

- Management of Institute
- Faculty members
- Laboratory Staff
- Non-Teaching Staff
- Students

#### External Stake Holders:

- Parents
- Industries
- Alumni
- Society

Even though the COs are given by Dr. Abdul Kalam Technical University along with the syllabus, if necessary, the COs are modified and reframed by the course committee members.

COs are communicated to the students during the introduction class itself. COs, along with lesson plan, are issued to the students during the first class.

During the discussion of the course, the outcomes of the course are also discussed. At the commencement of each unit and after the completion of the unit, the course outcomes are reviewed.

File Description	Document
Upload Additional information	<a href="#">View Document</a>

#### 2.6.2

*Attainment of POs and COs are evaluated.*

**Explain with evidence in a maximum of 500 words**

#### Response:

A course's outcomes are defined depending on the program's outcomes and other requirements. Each course's COs must be assessed and evaluated at the end to determine if they were achieved or not achieved. Academic attainment is mostly measured by test or examination results. CO attainment can be evaluated directly or indirectly.

**Direct attainment** is a method of assessing a student's abilities directly from their performance. All appropriate assessment tools, such as internal assessments, assignments, quizzes, and external University examinations are used to determine the students' merit. **Indirect attainment is done through Course Exit Surveys.**

In CO attainment, the assessment is completely based on departmental sessional tests and external University exam performance. The sessional exam is further divided into three parts: sessional 1(ST1),

sessional 2(ST2) and Pre- University Test (PUT). The sessional papers are set according to the COs mentioned as per the syllabus. Marks obtained in each CO in each sessional exam are evaluated based on benchmark set by the Department Academic Governing Council (DAGC) and subject expert. Further, average CO attainment in the sessional tests, assignments /quiz and as well as in University exam is calculated.

For practical subjects, marks are evaluated in each experiment and for internal assessment CO attainment is obtained from the mapping of COs with experiments. For evaluating CO for projects, seminars, and industrial training, rubrics are created, and the marks assigned to specific rubrics are compared to set benchmarks. The overall CO attainment is calculated as the average of all CO's.

**Further, overall CO attainment is obtained by 70% weightage of University examination marks and 30% of internal evaluation.**

In AKTU evaluation scheme, for theory subjects, students' marks are divided into two components: first internal exam (50 marks) and external University exam (100 marks). For practical subjects, students' marks are divided into two components: first internal marks (50) and external University exams (50). Thus, overall marks in a particular subject are obtained in 100 marks. The internal assessment and the endorsed marks are aggregated as per the University evaluation guidelines.

Project work is divided into two semesters – 7th and 8th semesters. In the 7th semester, only internal evaluation is done (200 marks) and in the 8th semester, internal (250 marks) as well as external (350 marks) evaluation is done. Industrial training & Viva-Voce (7th semester) and GD & Seminar (8th semester), both are allotted internal evaluation with 100 marks.

Attainment of the Program Outcomes and Program Specific Outcomes

**Direct and Indirect attainment** are used to evaluate the attainment of POs and PSOs. Students' performance in internal assessments, University exams and course exit surveys contributes to CO attainment. Further, **direct PO & PSO attainment is calculated through CO attainment and Indirect PO & PSO assessment is calculated from Program Exit Survey and Alumni Survey.**

The following assessment tools are being used to monitor the attainment of program outcomes:

**Table 3.3.1 Assessment Tool for PO**

Assessment Tools		Weightage	Frequency	Responsibility
Direct Assessment	Course Outcomes Attainment	80%	End of the semester	Department level
Indirect Assessment	Program Exit & Alumni Survey	20%	At the end of the program	Department

File Description	Document
Upload Additional information	<a href="#">View Document</a>

**2.6.3**

**Pass percentage of Students during last five years (excluding backlog students)**

**Response:** 81.03

**2.6.3.1 Number of final year students who passed the university examination year wise during the last five years**

2022-23	2021-22	2020-21	2019-20	2018-19
189	290	311	389	406

**2.6.3.2 Number of final year students who appeared for the university examination year-wise during the last five years**

2022-23	2021-22	2020-21	2019-20	2018-19
314	356	365	451	470

File Description	Document
Institutional data in the prescribed format	<a href="#">View Document</a>
Certified report from Controller Examination of the affiliating university indicating pass percentage of students of the final year (final semester) eligible for the degree programwise / year-wise.	<a href="#">View Document</a>
Annual report of controller of Examinations(COE) highlighting the pass percentage of final year students	<a href="#">View Document</a>

**2.7 Student Satisfaction Survey****2.7.1**

**Online student satisfaction survey regarding teaching learning process**

**Response:** 3.14

<b>File Description</b>	<b>Document</b>
Upload database of all students on roll as per data template	<a href="#">View Document</a>

## Criterion 3 - Research, Innovations and Extension

### 3.1 Resource Mobilization for Research

#### 3.1.1

*Grants received from Government and non-governmental agencies for research projects / endowments in the institution during the last five years (INR in Lakhs)*

**Response:** 162.5

**3.1.1.1 Total Grants from Government and non-governmental agencies for research projects / endowments in the institution during the last five years (INR in Lakhs)**

2022-23	2021-22	2020-21	2019-20	2018-19
50	50	37.5	25	0

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

### 3.2 Innovation Ecosystem

#### 3.2.1

**Institution has created an ecosystem for innovations, Indian Knowledge System (IKS), including awareness about IPR, establishment of IPR cell, Incubation centre and other initiatives for the creation and transfer of knowledge/technology and the outcomes of the same are evident**

**Response:**

The college is consciously working for Industry Academia connects, Collaborative Research and Entrepreneurial Initiative. The institute always encourages students to strive for innovative ideas and provides all possible support to convert their ideas into reality. The institute has accomplished exemplary work in the area of Innovation, Incubation and Entrepreneurship Development since 2015. The college has been awarded by the prestigious centers to promote Innovation and Entrepreneurship.

- I.T.S Engineering College has been approved as **Business Incubator (BI) / Host Institute (HI)** by **Ministry of Micro, Small & Medium Enterprises (MSME)**, Government of India since 2015.
- **Department of Science & Technology, Govt of India has established NewGen IEDC at I.T.S Engineering College, Gr. Noida in 2018.** NewGen IEDC has a mission to “promote knowledge based and technology-driven start-ups by harnessing young minds and their innovation potential

in an academic environment”. The center is having 10,000 sq. ft. floor area, dedicated incubation team, Co-working space, Meeting Room, Conference Room, Refreshment room, Wi-Fi and Computers with high end configuration (Work Station and GPU). Department of Science and Technology (DST) has provided grants of over Rs. 2.87 Crore for the period of 5 years. Since 2018, students, faculty and staff have developed several start-ups, filed patents and represented the institute at national and international levels by participating in various competitions.

- Under startin Up policy the incubation center will receive a **total grant of Rs. 2.5 Crores** for operations of the incubation center and IT Infrastructure setup will be provided the State Government. Schemes to promote startups incorporated in UP. **Incubation Operational expenditure Grant Rs. 30 Lacs per Annum and Rs. 1 corer for nonrecurring infrastructure.**

Institute has also established the Institution’s Innovation Council (IIC) in 2018 and enthusiastically organizing various activities of MoE Innovation Cell and self-driven activities for fostering innovation culture among students. The college has been awarded **IIC Top Star Ranking in 2020, 2021 and 2022**. The college is also recognized in **ARIIA ranking in Top Twenty-five institutions in 2020, “Excellent Band” in 2021 and NIRF Innovation Ranking in Top 150 to 300 Band in 2022**. MoE Innovation Cell has recognized our IIC for **Mentor-Mentee Program** for harnessing innovation capacity building to other institutions too **in 2022**.

Following are the outcome of the Institute in the area of innovation and incubation

- Contribution in Entrepreneurship Development via organizing various programmes like Entrepreneurship Awareness Programme (EAC), Entrepreneurial Development Programme (EDP), Women’s Entrepreneurial Programme (WEDP), Technology Based Entrepreneurship Development Programme (TEDP) and Faculty Development programme supported by DST-NIMAT.
- **Institute has credit of filling 32 patents and 26 patents have been published till date.**
- Nine numbers of companies have been incorporated by our incubatees including women’s founded Startup.
- **Seventy-two numbers of Proof of concept** have been developed at our NewGen IEDC.

I.T.S Engineering College owns Skill Enhancement Centers that aim to bridge the gap between industry and academia by producing employable industry-ready students. The institute has established National Instruments Innovation Centre, Apple iOS Lab, Rockwell Automation, SMC Pneumatics & Electro Pneumatics, AWS Academy and eYantra.

File Description	Document
Upload Additional information	<a href="#">View Document</a>

### 3.2.2

*Number of workshops/seminars/conferences including on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship conducted during the last five years*

**Response: 39****3.2.2.1 Total number of workshops/seminars/conferences including programs conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship year wise during last five years**

2022-23	2021-22	2020-21	2019-20	2018-19
27	06	01	02	03

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

**3.3 Research Publications and Awards****3.3.1****Number of research papers published per teacher in the Journals notified on UGC care list during the last five years****Response: 0.2****3.3.1.1 Number of research papers in the Journals notified on UGC CARE list year wise during the last five years**

2022-23	2021-22	2020-21	2019-20	2018-19
2	6	11	13	7

File Description	Document
Link to the uploaded papers, the first page/full paper(with author and affiliation details)on the institutional website	<a href="#">View Document</a>
Links to the papers published in journals listed in UGC CARE list or	<a href="#">View Document</a>
Institutional data in the prescribed format	<a href="#">View Document</a>

**3.3.2**

**Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during last five years****Response:** 0.11**3.3.2.1 Total number of books and chapters in edited volumes/books published and papers in national/ international conference proceedings year wise during last five years**

2022-23	2021-22	2020-21	2019-20	2018-19
4	2	8	4	3

<b>File Description</b>	<b>Document</b>
List of chapter/book along with the links redirecting to the source website	<a href="#">View Document</a>
Institutional data in the prescribed format	<a href="#">View Document</a>
Copy of the Cover page, content page and first page of the publication indicating ISBN number and year of publication for books/chapters	<a href="#">View Document</a>

**3.4 Extension Activities****3.4.1****Outcomes of Extension activities in the neighborhood community in terms of impact and sensitizing the students to social issues for their holistic development during the last five years.****Response:**

- The Institute has been promoting the participation of students and faculty in extension activities by organizing blood donation camps, sensitization program and plantation drive in nearby areas. Faculty and students visited nearby villages and organized the **awareness camp for the Rural innovation idea challenge in three major areas Jal Prabhandan & Sanrakshan, Saur Urja and, Kutir & Gram Udyog**. The college Innovation and Entrepreneurship Development cell supports the selected projects in the nearby region.
- The institute has adopted five villages i.e. Shafipur, Nawada, Atta Gujran, Kondali Khadar and Pali under Unnat Bharat Abhiyan, Govt. of India. The Institute has **made an initiative to aware the villagers about T.B. They were informed about the precautions, they should takein dealing with TB patient and also informed them that the treatment for the disease is available free of cost in the government hospitals**. Only one patient was traced in Shafipur village. He was guided for the treatment.
- To motivate people towards **sustainable use of water and other natural resources through**

**optimum utilization the villagers were sensitized.** The villagers of Nawada and Atta Gujran are mostly farmers using water for the farming as well for their households. Faculty and students visited both the villages and shared different irrigation techniques (drip and sprinkle) to increase the crop productivity while conserving water. Villagers were informed about using water efficiently in agriculture and domestic purposes.

- The **awareness camp on the National Education Policy** were organized in the primary schools of the adopted villages.
- **Yoga sessions are organized in nearby adopted villages under Unnat Bharat Abhiyan**, Govt. of India. A few minutes of Yoga during the day can be a great way to get rid of stress that accumulates daily, in both, body and the mind. Yoga postures, Pranayama and meditation are effective techniques to release stress. Meditation is relaxation and rejuvenates the body and mind. In view of this Yoga camp were organized for students of the various schools along with teaching and non-teaching staffs.
- **World Environment Day** is an UN Environment-led global event, the sole largest celebration of our environment each year, which takes place on June 5 and is celebrated by thousands of communities worldwide. Since its commencement in 1972, it has grown to become a global platform for public outreach that is widely celebrated across the globe. Every year world environment day is celebrated by faculty and students of the institute and plantation drive are organized every year on this occasion in the nearby area.

File Description	Document
Upload Additional information	<a href="#">View Document</a>

### 3.4.2

#### **Awards and recognitions received for extension activities from government / government recognised bodies**

##### **Response:**

The Institute has been awarded by Institution's Innovation Council (IIC) for the continuous support and contribution towards building the innovation and entrepreneurship culture development in own campus and also extending support to help other IIC institutions towards growth of the IIC network during the academic year 2022-23 and 2021-22.

File Description	Document
Upload Additional information	<a href="#">View Document</a>

### 3.4.3

*Number of extension and outreach programs conducted by the institution through organized forums including NSS/NCC with involvement of community during the last five years.*

**Response:** 13

**3.4.3.1 Number of extension and outreach Programs conducted in collaboration with industry, community, and Non- Government Organizations through NSS/ NCC etc., year wise during the last five years**

2022-23	2021-22	2020-21	2019-20	2018-19
1	2	5	4	1

File Description	Document
Institutional data in the prescribed format	<a href="#">View Document</a>
Detailed report for each extension and outreach program to be made available, with specific mention of number of students participated and the details of the collaborating agency	<a href="#">View Document</a>

### 3.5 Collaboration

#### 3.5.1

*Number of functional MoUs/linkages with institutions/ industries in India and abroad for internship, on-the-job training, project work, student / faculty exchange and collaborative research during the last five years.*

**Response:** 10

File Description	Document
List of year wise activities and exchange should be provided	<a href="#">View Document</a>
List and Copies of documents indicating the functional MoUs/linkage/collaborations activity-wise and year-wise	<a href="#">View Document</a>
Institutional data in the prescribed format	<a href="#">View Document</a>

## Criterion 4 - Infrastructure and Learning Resources

### 4.1 Physical Facilities

#### 4.1.1

The Institution has adequate infrastructure and other facilities for,

- teaching – learning, viz., classrooms, laboratories, computing equipment etc
- ICT – enabled facilities such as smart class, LMS etc.

Facilities for Cultural and sports activities, yoga centre, games (indoor and outdoor), Gymnasium, auditorium etc (Describe the adequacy of facilities in maximum of 500 words.)

**Response:**

The College has a sprawling lush green eco-friendly campus spread over **12.37 acres** of which the **total built up area is 20290 sq.mt. and instructional carpet area is 10914.94 sq.mt.** with excellent infrastructural facilities like spacious classrooms, laboratories, workshops, Centre of Excellence, Innovation centre, Incubation centre, Auditorium, Amphitheatre, Cafeteria, seminar halls, library, faculty rooms, conference halls, administrative block, Hostels for Boys and Girls and Staff flats that suffices to fulfill the academic, administrative and residential requirement of students, staff and faculty.

The **classrooms** are well equipped with Computer, LCD projector and LAN Internet connection, adequate furniture, proper lighting facilities and good ventilation. College has state of the art **laboratories and workshops** for conducting practical orientated academic activities.

College has **Computer Labs** with high speed internet connectivity of **300 Mbps** through LAN in all computer systems for providing the digital support. The College has **technology-enabled Auditorium and Seminar halls** to conduct various workshops, seminars, conferences and guest lectures.

**Digital Language Lab** to improve the communication proficiency, boost confidence for public speaking and enhance performance in placement.

**Skill Enhancement Centers** like **Apple iOS, AWS Academy, Rockwell Automation, National Instruments, e-Yantra and SMC Pneumatics** equipped with latest technologies and have tie up with companies to conduct various specialized courses and provide students with training so that they develop and acquire additional abilities and skills through industry academia connect and interdisciplinary approach.

The College encourages and provide facilities to the students for participation in sports, cultural and literary activities. The College has dedicated sports, cultural and literary committees supported by a team of faculty members and the PTI of the Institute.

The College has following on campus indoor and outdoor facilities to conduct various sports and cultural activities:

S.No.	Details	Available Facilities	Area	Year of establishment
1	Outdoor Games	1. Football 2. Basketball 3. Volleyball 4. Cricket ground with day & night sports facility 5. Badminton 6. Lawn Tennis 7. Athletics	90 X 60 mtrs 28 X 15 mtrs 18 X 9 mtrs 90 X 60 mtrs 44 X 20 fts 78 X 27 fts 100 mtrs	2006
2	Indoor Games	1. Table Tennis 2. Chess 3. Carom board		2006
3	Gymnasium Boys & Girls	1. Treadmills 2. Cross Trainers 3. Cycles 4. Multi-gym 5. Joggers		2006
4	Auditorium	Fully air conditioned with Seating Capacity of 750, Sound System, LCD projectors, green room and drinking water facility.		2014
5	Amphitheater	Seating Capacity: 1500		2006

### CULTURAL EVENTS:

The cultural events are important medium to develop leadership skills and team building for which the institute organizes various sports and cultural events where students lead to conduct and perform. The College organizes annual fest **UDGHOSH**. UDGHOSH is a grand student carnival riveting enthusiasm and compelling intellectual, creative and athletic capabilities to display College's excellence in inspiring and nurturing students.

The College is visited by many national artists and celebrities who have been part of the various cultural programs held in the institute. The college has its own drama group EHASAS which has won many awards at regional and national level.

The College has a dedicated room in hostel **to conduct Yoga session** for physical, mental and spiritual well-being of students. Practicing Yoga regularly ignites a passion for fitness among students and helps them to relieve from stress and refresh themselves.

File Description	Document
Upload Additional information	<a href="#">View Document</a>

#### 4.1.2

*Percentage of expenditure for infrastructure development and augmentation excluding salary during the last five years*

**Response:** 6.32

**4.1.2.1 Expenditure for infrastructure development and augmentation, excluding salary year wise during last five years (INR in lakhs)**

2022-23	2021-22	2020-21	2019-20	2018-19
114.34	7.98	3.10	114.61	82.99

File Description	Document
Institutional data in the prescribed format	<a href="#">View Document</a>
Audited income and expenditure statement of the institution to be signed by CA for and counter signed by the competent authority (relevant expenditure claimed for infrastructure augmentation should be clearly highlighted)	<a href="#">View Document</a>

## 4.2 Library as a Learning Resource

#### 4.2.1

*Library is automated with digital facilities using Integrated Library Management System (ILMS), adequate subscriptions to e-resources and journals are made. The library is optimally used by the faculty and students*

**Response:**

The library of I.T.S Engineering College is laid out in **934.7 Sq.mt.** with a **seating capacity of more than 250** students and faculty. The Library building is centrally located, well laid out with adequate number of sign boards and aesthetically designed to make it an inviting place with the ambience that is suitable for learning. It has adequate space for browsing and relaxed reading. The **working hours** for accessing the library are **09:00 AM to 06:00 PM** (extended to 8 PM during examinations).

**Library is fully computerized** with the help of the **library automation software** titled “**Alice for Windows**” which facilitates the end user in short span of time. The library has **barcode technology** for books lending operations and provide **OPAC (Online Public Access Catalogue)** for the users to search the detailed information of the required resource.

I.T.S Library is automated using **software** named Alice for Windows with **under mentioned details:**

- **Name of the ILMS software – Alice for windows**
- **Nature of fully automation**
- **Version – 6.0**
- **Year of automation – 2006** (since beginning)
- **AMC (Annual Maintenance Contract) – Renewed every year**

The library has adequate number of workstations to facilitate searching/accessing OPAC, e-resources, web browsing and for other academic works. Provision has also been made to allow downloading/printing of material from these resources. The college has installed excellent ICT infrastructure with adequate bandwidth for fast and seamless access to the Internet in library.

The **Integrated Knowledge Resource Centre** is well stocked with over **sixty-two thousand physical books, fifty-four national and international physical journals, around ten thousand e-journals and more than ten thousand e-books, ten periodicals** covering all aspects of academic studies and research materials which are accessible to students and faculty online through **DELNET**.

Apart from text and reference books, the library has **subscription** of various **national and international journals / magazines** and **seven leading newspapers** and DVDs / CD-ROMs, collection of rare and competitive books being used by ITSEC faculty, staff and students through **10 multimedia PCs** in the **Digital Library** through designated IP address. The collection of books in the library covers almost all the thrust areas of Engineering branches, Management, Applied Sciences and Professional English language along with competitive examinations. The library has more than 1500 books on personality development, motivation and novels are also available for the holistic Character building of the students.

The Institution has **Data Repository** to facilitate the users to access multiple resources like e-Journals, question papers, model solutions and news paper clippings.

The **Book Bank facility** is extensively used by the students for getting textbooks issued on loan for the whole academic semester according to the framed rules. Under this scheme, every student is issued a set of books for each subject on loan for the whole semester. The books are required to be returned at the end of semester and a new set of books are issued at the beginning of next semester.

The library in the campus has well-established **fire detection alarm and fire fighting system.**

File Description	Document
Upload Additional information	<a href="#">View Document</a>

## 4.3 IT Infrastructure

### 4.3.1

**Institution frequently updates its IT facilities and provides sufficient bandwidth for internet connection**

*Describe IT facilities including Wi-Fi with date and nature of updation, available internet bandwidth within a maximum of 500 words*

#### **Response:**

The college has well-structured IT infrastructure with updated hardware and software to support all the teaching & learning processes. The institution has over 600 Personal Computers and laptops that cater to the needs of the students, faculty and staff as per the norms of AKTU.

The IT related updation needs of the campus such as Hardware & Networking, Software Development, Website designing & hosting, Email solutions, SMS solutions, etc. are taken care of by IT department functioning under a dedicated IT Manager.

The entire campus is Wi-Fi / LAN enabled with high speed internet connectivity of **300Mbps** through which students and faculty members access various e-learning resources.

The details of computing facilities are as under:

#### **Number of systems and configuration**

The college has a total of **615 systems** of which **475 systems** are for students and **140 systems** for faculty & staff with following configuration:

#### **Desktops**

- Intel i5 / i3 / Dual-Core / Celeron Processor with 2-8GB RAM & 500GB HDD / SSD

#### **Laptops**

- Intel i5-5200U / i3-4030U 1.90GHZ / Core2duo 2.4Ghz, 4-8GB RAM, 500GB HDD / SSD

### **Dedicated computing facilities**

- Internet connectivity in all Classrooms / COEs / faculty rooms
- Wi-Fi in entire campus including all hostels and residential area through **optical fiber**
- LCD Projectors in all Classrooms / COEs / Seminar Halls
- Audio Visual facility in all Classrooms / COEs / Seminar Halls

### **LAN facility**

The institute has a network that uses **Cat-6 cabling** and **CISCO switches** to facilitate high speed data transfer across the campus and access to various e-resources is done under uniform network policy.

### **Internet facility**

The entire campus is Wi-Fi enabled with a high-speed internet connectivity of **300Mbps** through multiple ISP's.

### **Servers**

The institute has **HP and Lenovo Blade Servers** that work on virtual platform using VMware.

### **Proprietary software**

- IBM Rational Rose
- Multi SIM
- MAT Lab
- X-Code
- Swift
- NIFPGA
- Oracle 10g
- Office-365
- AutoCAD
- Zoho
- ERP
- CMS
- NoPaperform
- Studio 500
- RS Links
- Bently
- ALICE
- Renet Digital Multimedia
- Celerity Software
- Tense Booster
- Study Skill Success
- Sky Pronunciation
- Business Writing

- Error Terror
- Antivirus
- MS-Office 2016
- MS-SQL 2019
- Author Plus Pro
- Objective C

**Description of IT facilities** including Wi-Fi with date and nature of updation is as follows:

Access Points (RUCKUS) Installation for 100% Secure Wi-Fi Coverage	2022
IP Surveillance Up-gradation	2019, 2020, 2023
Up-gradation of Projector with individual PA system for seminar rooms.	2019
Firewall Up-gradation (Sophos)	2019, 2022
Server Room renovation and up-gradation	2018
Biometric System upgradation	2018, 2019, 2020
Academic LAB Up-gradation as per Software requirement	Every year
End Point Security with Sophos Certificate	2019, 2022
Bandwidth up-gradation from 50 MBPS to 70 MBPS	2018
Bandwidth up-gradation from 70 MBPS to 100 MBPS	2019
Bandwidth up-gradation from 100 MBPS to 300 MBPS	2021
Software Purchased (ZOHO)	2017
ZOHO Software Update	Every year
Software Purchased (Orion)	2019
Orion Software Update	Every year
Software Purchased Qualsoft	2020
MATLAB Software	2016
Securite Endpoint Protection (Product Version-17)	2018, 2022

<b>File Description</b>	<b>Document</b>
Upload Additional information	<a href="#">View Document</a>

#### 4.3.2

**Student – Computer ratio (Data for the latest completed academic year)**

**Response:** 2.71**4.3.2.1 Number of computers available for students usage during the latest completed academic year:**

Response: 475

<b>File Description</b>	<b>Document</b>
Purchased Bills/Copies highlighting the number of computers purchased	<a href="#">View Document</a>
Extracts stock register/ highlighting the computers issued to respective departments for student's usage.	<a href="#">View Document</a>

**4.4 Maintenance of Campus Infrastructure****4.4.1**

*Percentage expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component, during the last five years (INR in Lakhs)*

**Response:** 27.67**4.4.1.1 Expenditure incurred on maintenance of infrastructure (physical facilities and academic support facilities) excluding salary component year wise during the last five years (INR in lakhs)**

2022-23	2021-22	2020-21	2019-20	2018-19
293.34	309.53	260.33	322.21	228.5

<b>File Description</b>	<b>Document</b>
Institutional data in the prescribed format	<a href="#">View Document</a>
Audited income and expenditure statement of the institution to be signed by CA for and counter signed by the competent authority (relevant expenditure claimed for maintenance of infrastructure should be clearly highlighted)	<a href="#">View Document</a>

## Criterion 5 - Student Support and Progression

### 5.1 Student Support

#### 5.1.1

*Percentage of students benefited by scholarships and freeships provided by the institution, government and non-government bodies, industries, individuals, philanthropists during the last five years*

**Response:** 25.84

**5.1.1.1 Number of students benefited by scholarships and freeships provided by the institution, Government and non-government bodies, industries, individuals, philanthropists during the last five years**

2022-23	2021-22	2020-21	2019-20	2018-19
245	353	373	415	408

#### File Description

#### Document

Year-wise list of beneficiary students in each scheme duly signed by the competent authority.

[View Document](#)

Upload Sanction letter of scholarship and free ships (along with English translated version if it is in regional language).

[View Document](#)

Upload policy document of the HEI for award of scholarship and freeships.

[View Document](#)

Institutional data in the prescribed format

[View Document](#)

#### 5.1.2

*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. ICT/computing skills*

**Response:** B. 3 of the above

File Description	Document
Report with photographs on Programmes /activities conducted to enhance soft skills, Language and communication skills, and Life skills (Yoga, physical fitness, health and hygiene, self-employment and entrepreneurial skills)	<a href="#">View Document</a>
Report with photographs on ICT/computing skills enhancement programs	<a href="#">View Document</a>
Institutional data in the prescribed format	<a href="#">View Document</a>

### 5.1.3

**Percentage of students benefitted by guidance for competitive examinations and career counseling offered by the Institution during the last five years**

**Response:** 28.15

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

2022-23	2021-22	2020-21	2019-20	2018-19
553	246	587	285	283

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

### 5.1.4

*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:** B. 3 of the above

File Description	Document
Proof w.r.t Organisation wide awareness and undertakings on policies with zero tolerance	<a href="#">View Document</a>
Proof related to Mechanisms for submission of online/offline students' grievances	<a href="#">View Document</a>
Proof for Implementation of guidelines of statutory/regulatory bodies	<a href="#">View Document</a>
Details of statutory/regulatory Committees (to be notified in institutional website also)	<a href="#">View Document</a>
Annual report of the committee motioning the activities and number of grievances redressed to prove timely redressal of the grievances	<a href="#">View Document</a>
Provide Links for any other relevant document to support the claim (if any)	<a href="#">View Document</a>

## 5.2 Student Progression

### 5.2.1

**Percentage of placement of outgoing students and students progressing to higher education during the last five years**

**Response:** 62.97

**5.2.1.1 Number of outgoing students placed and / or progressed to higher education year wise during the last five years**

2022-23	2021-22	2020-21	2019-20	2018-19
175	243	220	175	248

**5.2.1.2 Number of outgoing students year wise during the last five years**

2022-23	2021-22	2020-21	2019-20	2018-19
259	299	319	407	401

<b>File Description</b>	<b>Document</b>
Number and List of students placed along with placement details such as name of the company, compensation, etc and links to Placement order(the above list should be available on institutional website)	<a href="#">View Document</a>
List of students progressing for Higher Education, with details of program and institution that they are/have enrolled along with links to proof of continuation in higher education.(the above list should be available on institutional website)	<a href="#">View Document</a>
Institutional data in the prescribed format	<a href="#">View Document</a>

### 5.2.2

*Percentage of students qualifying in state/national/ international level examinations during the last five years*

**Response:** 2.24

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

2022-23	2021-22	2020-21	2019-20	2018-19
0	0	0	6	8

<b>File Description</b>	<b>Document</b>
List of students qualified year wise under each category and links to Qualifying Certificates of the students taking the examination	<a href="#">View Document</a>
Institutional data in the prescribed format	<a href="#">View Document</a>

## 5.3 Student Participation and Activities

### 5.3.1

**Number of awards/medals for outstanding performance in sports/ cultural activities at University / state/ national / international level (award for a team event should be counted as one) during the last five years**

**Response: 33**

**5.3.1.1 Number of awards/medals for outstanding performance in sports/cultural activities at national/international level (award for a team event should be counted as one) year wise during the last five years**

2022-23	2021-22	2020-21	2019-20	2018-19
7	10	0	6	10

File Description	Document
Upload supporting document	<a href="#">View Document</a>
list and links to e-copies of award letters and certificates	<a href="#">View Document</a>
Institutional data in the prescribed format	<a href="#">View Document</a>

**5.3.2**

**Average number of sports and cultural programs in which students of the Institution participated during last five years (organised by the institution/other institutions)**

**Response: 3.6**

**5.3.2.1 Number of sports and cultural programs in which students of the Institution participated year wise during last five years**

2022-23	2021-22	2020-21	2019-20	2018-19
4	5	0	5	4

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

**5.4 Alumni Engagement****5.4.1**

**There is a registered Alumni Association that contributes significantly to the development of the institution through financial and/or other support services**

**Response:**

ITSEC organise the event “Annual Alumni meet SANAKALAN” every year. We have successfully organised our 12th Alumni meet on April 30, 2023 in the Sardar Patel Auditorium of the college. It encourage the alumni to take an active and abiding interest in the work and progress of the college to contribute towards building a strong network among the alma mater. This helps us to promote and foster mutually beneficial interaction between the alumni with the existing faculty members and students of college. The database of graduated students is created that explore opportunities for assistance in academic, career counselling, training, recruitment etc. The purpose of our Alumni association is to foster a spirit of loyalty and to promote the general welfare of our organization. The association works to support the institute’s goals, and to strengthen the ties between alumni, the community, and the parent organization. The registration of Alumni association is processed (application number 10096734), with society name as “Alumni Association of I.T.S Engineering College Greater Noida”.

Contribution of the Alumni association to the institute:

- Our alumni have helped to build and grow the institution's brand through word-of-mouth marketing.
- Many positive posts on social media have helped in boosting the credentials of the institute.
- Our distinguished alumni have also taken part in social events such as conferences, seminars, debates, sports, excursions for the career counselling for the undergraduates.
- Some of our alumni have also made promotional videos reliving their academic and extracurricular highlights from their time during the course.
- To motivate the Institute's alumni to exhibit a persistent and engaged involvement in the Institute's development and advancement initiatives, thereby facilitating the improvement of their Alma Mater and delivering valuable services to the community.

Institute boasts a robust network of graduates who have achieved notable success in various fields of advanced engineering, technology, and management.

ALOK SETH	Manager- Business Development	Tata Steels Ltd.
Ashish Gupta	Sr. Engineer	Aditya Birla Group
RAJAN MISHRA	Safety Engineer	I.O.C.L.
SURAJBHAN SINGH	Comm. Traffic Controller	Central Railways
Shubham Doneria	Plant Head	Kumar Steel Works, Agra
SAURABH SINGH	Sr. Design Engineer	LG Electronics
Ankit Gaur	Commander	Indian Navy
SUNIL KUMAR YADAV	Asstt. Executive Engineer	O.N.G.C.
Ankit Bhandari	Gunnery Officer	Indian Navy
SHIVAM TYAGI	Sr. Engineer	Motherson Sumi System Ltd.
SAURABH SINGH	Sr. Design Engineer	LG Electronics
AKASH GUPTA	Design Engineer	Tata Motors

File Description	Document
Upload Additional information	<a href="#">View Document</a>

## Criterion 6 - Governance, Leadership and Management

### 6.1 Institutional Vision and Leadership

#### 6.1.1

*The institutional governance and leadership are in accordance with the vision and mission of the Institution and it is visible in various institutional practices such as NEP implementation, sustained institutional growth, decentralization, participation in the institutional governance and in their short term and long term Institutional Perspective Plan.*

#### Response:

The founders have envisaged the vision of providing skilled and competent workforce to society by imparting quality education and training and have divided the role and working of different levels as follows:

**Strategic Level:** The college has **Board of Governors (BoG)** comprising of eminent personalities from the field of education, industry and bureaucracy **along with two faculty members**. During BoG meetings **the suggestions and views of IQAC and faculty members are put up and duly considered**. The Director of the college is the member secretary of the board. The major decision related to finance, organizational structure and expansion are finalized by Board of Governors.

The Director along with the Dean interacts with top management to get more insights for effective implementation and review of the progress, essential for fulfilling the vision and mission of the college.

The **Internal Quality Assurance Cell (IQAC)** is the institute's important body, charged with developing policies that benefit the entire institution. All departments are represented on this committee. It includes **HODs, Deans, Registrar and senior faculty members**, who provide critical advice before management is drawn from faculty and students. There are other members also in this body i.e **students, Alumni and Industry expert for valuable suggestions**. The IQAC regularly give suggestion for effective implementation of NEP.

**Administration and Operation Level:** Director of the institution is solely responsible for academic, non-academic and administrative activities of the institution. The administration ensures the smooth functioning in all the areas like Admissions, Account and Finance, Evaluation and Supervision, Record Keeping and Maintenance.

- He is responsible for maintaining harmonious relations and resolving the conflicts at all levels through the stakeholder's involvement.
- On behalf of the institution, he interacts and corresponds with Affiliating University, etc.

**Academic:** Departments have complete authority to plan events that are most beneficial to the department's growth and development. The departments develop annual budgets for organizing different activities.

HODs of respective departments conduct departmental meeting at regular interval and take feedbacks for the management which are critically important. During departmental meetings faculty members provide

input which they have gathered while interacting with students. Each class has a class representative who participates in student-related decision-making. Class representatives communicate with class counsellors on a regular basis, and efforts are made to ensure that students and HODs have effective two-way communication. Furthermore, students have unrestricted access to the Department's Head and Director. As a result, students are also involved in the decision-making process.

In order to increase the role of faculty members in decision making and for the effective implementation of the various steps, the faculty members are required to act as the convener or co-convener of several crucial committees' like – Training and Placement Cell, Anti-Ragging Committee, Examination Committee, Games and Sports Committee, Internal Complaint Committee (ICC), Student Grievance Cell, Alumni Committee, Cultural Committee, Innovation and Entrepreneurship Development Cell, Research and Development Committee, Hostel & Mess Committee, CSR Committee etc.

Students, under the guidance of mentors, have nearly a free hand in organizing all extra and curricular activities. There are different clubs under the guidance of faculty mentors to organize various activities. These clubs organize different activities throughout the year.

File Description	Document
Upload Additional information	<a href="#">View Document</a>

## 6.2 Strategy Development and Deployment

### 6.2.1

*The institutional perspective plan is effectively deployed and functioning of the institutional bodies is effective and efficient as visible from policies, administrative setup, appointment, service rules, and procedures, etc*

#### Response:

The institution strategic plan is planned for five years. The previous plan was from 2017 till 2021 and present strategic plan is from 2022 till 2026. The college is continuously focusing and putting its strong efforts to promote skills, research, innovation and entrepreneurship among the students as its strategic plan from last 5 years.

The college has been awarded by the prestigious centers to promote Innovation and Entrepreneurship.

- I.T.S Engineering College has been approved as **Business Incubator (BI) / Host Institute (HI)** by **Ministry of Micro, Small & Medium Enterprises (MSME)**, Government of India since 2015.
- **Department of Science & Technology, Govt of India** has established **NewGen IEDC at I.T.S Engineering College**, Gr. Noida in 2018. The center is having 10,000 sq. ft. floor area, dedicated incubation team, Co-working space, Meeting Room, Conference Room, Refreshment room, Wi-Fi and Computers with high end configuration (Work Station and GPU). **Department of Science and Technology (DST)** has provided grants of over **Rs. 2.87 Crore** for the period of 5 years.

- Under startin Up policy the incubation center will receive a **total grant of Rs. 2.5 Crores** for operations of the incubation center and IT Infrastructure setup will be provided the State Government. Schemes to promote startups incorporated in UP.

#### Following are the outcomes

- **Institute has credit of filling 32 patents and 26 patents have been published till date.**
- Nine numbers of companies have been incorporated by our incubatees including women's founded Startup.
- **Seventy-two numbers of Proof of concept** have been developed at our NewGen IEDC.

Institute has also established the Institution's Innovation Council (IIC) in 2018 for fostering innovation culture among students. The college has been awarded **IIC Top Star Ranking in 2020, 2021 and 2022**. The college is also recognized in **ARIIA ranking in Top Twenty-five institutions in 2020, "Excellent Band" in 2021 and NIRF Innovation Ranking in Top 150 to 300 Band in 2022**. MoE Innovation Cell has recognized our IIC for **Mentor-Mentee Program** for harnessing innovation capacity building to other institutions too **in 2022**.

#### Administrative Setup

The Institute has well organized and defined administrative set-up as following:

- Board of Governors
- Director
- IQAC Coordinator | Centre Superintendent |Head -Training and Placement | Dean – Students Welfare | Finance Controller | Librarian | Admission Cell Coordinator | Innovation Cell Coordinator | Incubation Cell Coordinator
- HR, Registrar-Students Affairs
- Institute Media Coordinator | Institute Social Media Coordinator | Institute Website Coordinator
- Chief Proctor (Anti-Ragging Committee, Proctorial Board) | Coordinator ICC | SC/ST Committee Coordinator
- Head of the Department | DAGC |Training and Placement Coordinator of the Department | Skill Enhancement Training SPOCs | Time Table Coordinator | ERP Coordinator | Department Social Media Coordinator| Department Website Coordinator
- Class Counsellors
- Alumni Coordinator of the Department
- Clubs and Society Coordinators of the Department
- Faculty Members | Mentors
- Lab Staffs | Office Staff
- Class IV Staff

#### Various Bodies and Committees

Following are the bodies constituted for smooth functioning of the institute:

- Administrative
- Examination
- Training and Placement Cell

- IQAC (Internal Quality Assurance Cell)
- Library
- Innovation and Entrepreneurship Development Cell
- Incubation Centre Advisory Board
- Research and Development
- Website
- ERP
- Games and Sports
- Proctorial Board
- Internal Complaint Committee (ICC)
- Student Grievance Cell,
- Anti-Ragging
- Alumni
- Cultural
- Hostel & Mess

The powers and functions of various administrative posts are well enunciated in the roles and responsibilities.

File Description	Document
Upload Additional information	<a href="#">View Document</a>
Institutional perspective Plan and deployment documents on the website	<a href="#">View Document</a>

### 6.2.2

*Institution implements e-governance in its operations*

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

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

File Description	Document
Screen shots of user interfaces of each module reflecting the name of the HEI	<a href="#">View Document</a>
Institutional expenditure statements for the budget heads of e-governance implementation ERP Document	<a href="#">View Document</a>
Annual e-governance report approved by the Governing Council/ Board of Management/ Syndicate Policy document on e-governance	<a href="#">View Document</a>

### 6.3 Faculty Empowerment Strategies

#### 6.3.1

**The institution has performance appraisal system, effective welfare measures for teaching and non-teaching staff and avenues for career development/progression**

#### **Response:**

The Performance Management System is designed to define, measure and recognize the contribution of individuals and help the college establish achievable goals for all its people.

**Existing Employees:** Performance of each employee shall be appraised once in a year from **August to July** for **teaching staff** and **July to June** for **Non-Teaching staff**.

**New Joiners:** The first increment of new joiners will be as per their anniversary date, post which they will also fall in the Annual Performance Appraisal Cycle as mentioned above.

While appraising the performance, employees get to set and understand clearly what is expected from them and are assessed on the same KPI. It's an opportunity to do a self- assessment and be given feedback by the supervisor. The Appraisal form looks at key achievements of last year and next year's plan.

#### **Promotion Guidelines**

As assessed during the appraisal and arising of the vacancy, the potential employee shall be promoted. The objective of the promotion is to ensure that high performance levels are recognized and rewarded.

The following are the some of the key elements taken in consideration for Promotion: -

- Performance appraisal scores
- Competencies for Multi-tasking.
- Behaviour with subordinates, colleagues, peers.
- Attendance/ leave.
- Demonstrated ability to improve quality, productivity, safety, cost and efficiency.
- Consistency in the quality of work.
- Willingness to accept tasks.

### **Welfare Measures:**

The Institute has various welfare mechanism for teaching and Non-Teaching Staff. The various welfare schemes are:

#### **Welfare Measures For Teaching Staff**

- 50% discount on OPD/ IPD charges except diagnostic, consumable, medicines and fees charged by outside consultants
- Up to Rs. 25000 incentive scheme to faculty members on publication of research papers etc.
- 50% reimbursement of registration fees and reimbursed of Rs.2, 000/- per day for Professor and Associate Professors and Rs. 1,500/- for Assistant Professor and Teaching Associate for fooding and stay is provided for attending FDP and MDP.
- The faculty members can avail duty leave for a maximum of 15 days in a calendar year for attending FDP/MDP/ QIP/ Presentation of Paper/Article/ Case study in the International and/ or National Conference/ Seminar, Ph.D. Research work and conductance of University Viva with prior approval of the Director.
- Maternity leave: 180 days.
- Accidental Insurance of 1 lakh.
- The Institute provides residential facility within the college campus for both teaching and non-teaching
- Medical Insurance: Insurance coverage upto a limit of Rs.50000
- 3 and 5 days leave and Rs 10,000/- and Rs 30000/- cash as reimbursement of expenses to go out with family for faculties who have completed 5 and 10 years of services and having salary above Rs. 30000.

#### **Welfare Measures For Non-Teaching Staff**

- Reimbursement of tuition fee up to two children @ Rs 750 per month per child.
- Rs. 4 per Km for two Wheeler and Rs. 10 per Km for four Wheeler is provided as reimbursement

for conveyance expenses.

- Free bus facility for any staff drawing salary less than Rs. 15000.
- For Staff who have completed 3 years of service and whose gross salary is less than Rs. 15000 per month can withdraw up to Rs. 1500 per year for every completed year of service (to a maximum of Rs. 25000) on the occasion of one's own marriage, sister's marriage, Daughter's marriage and son's marriage.
- 100% discount on OPD/ IPD charges except diagnostic, consumable, medicines and fees charged by outside consultants

File Description	Document
Upload Additional information	<a href="#">View Document</a>

### 6.3.2

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

**Response:** 0

**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**

2022-23	2021-22	2020-21	2019-20	2018-19
0	0	0	0	0

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

### 6.3.3

***Percentage of teaching and non-teaching staff participating in Faculty development Programmes (FDP), Management Development Programmes (MDPs) professional development /administrative training programs during the last five years***

**Response:** 17.38

**6.3.3.1 Total number of teaching and non-teaching staff participating in Faculty development Programmes (FDP), Management Development Programmes (MDPs) professional development /administrative training programs during the last five years**

2022-23	2021-22	2020-21	2019-20	2018-19
28	26	27	43	22

#### 6.3.3.2 Number of non-teaching staff year wise during the last five years

2022-23	2021-22	2020-21	2019-20	2018-19
81	81	81	81	81

File Description	Document
Refresher course/Faculty Orientation or other programmes as per UGC/AICTE stipulated periods, as participated by teachers year-wise.	<a href="#">View Document</a>
Institutional data in the prescribed format	<a href="#">View Document</a>
Copy of the certificates of the program attended by teachers.	<a href="#">View Document</a>
Annual reports highlighting the programmes undertaken by the teachers	<a href="#">View Document</a>

## 6.4 Financial Management and Resource Mobilization

### 6.4.1

**Institution has strategies for mobilization and optimal utilization of resources and funds from various sources (government/ nongovernment organizations) and it conducts financial audits regularly (internal and external)**

#### Response:

**Mobilization of funds** in the institute is through several ways, but the Primary source is through collection of tuition fees. Apart from these, some parts of the funds are generated through:

- Research grants
- Grants for conducting seminars / FDPs / workshops / symposiums
- Conducting various training programs
- Rent

#### Optimal utilization of resources

The College create the infrastructure and facilities with the aim for their optimum utilization by all stake

holders. Laboratories, research centres and other infrastructure have been designed to facilitate their optimum use by students, faculty and other stake holders for different purposes including but not limited to:

- Teaching and training of students, faculty and industry personnel
- Development and implementation of research projects
- Product development
- Patent filing
- Consultancy in different domains

The College has a Governing Body, Planning and Purchase Committee, Library and various associated bodies which help in the preparation, division, allocation and utilization of funds.

Institute prepares budget for probable expenses. The various heads include:

- Salary to the employees
- Staff welfare schemes
- Infrastructure augmentation
- Payment to Statutory bodies such as affiliation fee.
- Books & journals, Equipment. Computers etc.
- All type of maintenance
- E-governance
- Financial support for workshops Seminars, conferences
- Membership fee of professional bodies
- Scholarships to meritorious students and students from economically weaker section of the society.
- Student activities consumables

#### **Audit:**

The Institute has a mechanism for internal & external audit to ensure financial compliance.

#### **Internal Audit**

Institute monitors the effective and efficient use of financial resources through the system of internal audit. It has appointed a Chartered Accountant, who on regular basis conducts the internal audit. The scope of internal audit includes audit of all the transaction of the Institute, verification of fee reconciliation and checking of payroll of the Institute.

**While verifying the accounting vouchers, the internal auditor adopts suitable auditing standard to ensure the following:**

- expenditure is within the permissible limit of budgeted amount,
- at the time of recording of purchase, transaction is supported by approved requirement, gate pass and proper inward note
- In case of purchases or availment of services, transaction is supported by the purchase /work order as approved by the appropriate authority,
- bill is approved by the appropriate authority,

- transaction as recorded complies with all the legal requirement w.r.t TDS on payment to contractors/Professionals, PF & ESI etc., if applicable,

**Reconciliation of fees is done on half yearly basis and verified by internal auditor to ensure the following:**

- Academic fee and hostel fee has been due to the accounts of the students,
- In case fee (either academic or hostel) has been reversed due to admission withdrawal or hostel leaving, the same has been duly approved by the head of Institution,

**Verification of payroll is done by internal auditor to ensure the following:**

- Salary, as paid to all the employees, is in accordance with their approved salary structure and workings days as approved by HR.
- In case, there is revision in salary, then revised salary structure is as per the structure as approved by the director,

### **External Audit**

External audit is also conducted by auditors' M/s. Vipin Garg & Co., Ghaziabad and they conduct the audit twice a year. Auditors conduct the official scrutiny of accounts by going through routine college fee collections, bank payments and receipts, cash payments and receipts, undertake verification of bills and payment vouchers.

<b>File Description</b>	<b>Document</b>
Upload 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. It reviews teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals and records the incremental improvement in various activities**

#### **Response:**

The IQAC at ITSEC is well-established and is led by the institute's Director. The IQAC committee comprises representatives from all stakeholders, including faculty, administration, management, students, alumni, and local society/employers/industrialists. It has significantly contributed towards improving Academic Environment, Teaching, and Learning Process, Curriculum and Evaluation Methods and Research environment in the institution.

The IQAC develops a comprehensive audit protocol for each process of academic and administrative

activities as per policies, which is used by internal auditors to identify deviations from the established system. The policies are time to time reviewed based on the regulation led by Accreditation agencies, AICTE and university requirements in view of the institute's vision and mission.

All departments do CO-PO mapping and calculate CO and PO Attainments year wise and IQAC analysis the results and give feedback to departments for corrective measures. The IQAC take feedback from the Heads of the Departments to set the benchmark to ensure quality teaching learning process.

## **Best Practices**

### **Academic Audit of Departments**

The academic audit provides an opportunity to enhance the quality in teaching-learning process in the college. The academic audit is conducted for all under graduate Engineering Programmes and post graduate MBA programmes. The audit is conducted mainly at department level and then the report is reviewed by the IQAC. The audit comprises of around three sections namely Academic Teaching and learning, Examination, Faculty Readiness for core competency and skill enhancement, student Training and placement under CRC activities and Student co-curriculum, extra curriculum activities and welfare, and repair and maintenance of lab equipment and other infrastructure. This audit comprises of observations with regard to best academic practices of the institution and suggests areas for improvement. Finally, a summary of the audit is prepared and is placed for outlining an action plan to improve the quality of academic activities. Academic audit is normally conducted twice in a semester.

### **Enhancing Culture of Innovation and Incubation**

The college is enhancing the culture of innovation and incubation through IIC and IQAC is monitoring the innovation activities and keeping the data and records for various ranking framework. The college has been awarded **IIC Top Star Ranking in 2020, 2021 and 2022**. The college is also recognized in **ARIIA ranking in Top Twenty-five institutions in 2020, “Excellent Band” in 2021 and NIRF Innovation Ranking in Top 150 to 300 Band in 2022**. MoE Innovation Cell has recognized our IIC for **Mentor-Mentee Program** for harnessing innovation capacity building to other institutions too **in 2022**.

### **Keeping abreast of current knowledge:**

Skills enhancement programme are conducted for both students and faculty to introduce job-oriented and skill-based courses. The students are entrusted to organize cultural as well as technical event under the Mentorship of faculty to inculcate management, leadership qualities and team spirit.

Faculties are encouraged to attend FDP/STC/Conferences/Seminars to gain widened perspective. Institute has undertaken initiatives for skill development of students like the-state-of-art technology, laboratories have been developed with support of Industry like Rockwell Automation, SMC Pneumatics and Electro Pneumatics, e-yantra IIT Bombay, National Instruments, AWS Academy, and CISCO etc

All of its policies and strategies are oriented towards achieving this objective which is also an inherent part of its vision statement. Thus enhancing the skills of the students is the main priority and thrust area of our Institute.

File Description	Document
Upload Additional information	<a href="#">View Document</a>

### 6.5.2

Quality assurance initiatives of the institution include:

1. Regular meeting of Internal Quality Assurance Cell (IQAC); quality improvement initiatives identified and implemented
2. Academic and Administrative Audit (AAA) and follow-up action taken
3. Collaborative quality initiatives with other institution(s)
4. Participation in NIRF and other recognized rankings
5. Any other quality audit/accreditation recognized by state, national or international agencies such as NAAC, NBA etc.

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

File Description	Document
Quality audit reports/certificate as applicable and valid for the assessment period.	<a href="#">View Document</a>
NIRF report, AAA report and details on follow up actions	<a href="#">View Document</a>
List of Collaborative quality initiatives with other institution(s) along with brochures and geo-tagged photos with caption and date.	<a href="#">View Document</a>
Link to Minute of IQAC meetings, hosted on HEI website	<a href="#">View Document</a>

## Criterion 7 - Institutional Values and Best Practices

### 7.1 Institutional Values and Social Responsibilities

#### 7.1.1

**Institution has initiated the Gender Audit and measures for the promotion of gender equity during the last five years.**

*Describe the gender equity & sensitization in curricular and co-curricular activities, facilities for women on campus etc., within 500 words*

#### **Response:**

The Institution makes sincere efforts to empower its women faculty and students. ITS Engineering College **Internal Complaint Committee (ICC)** works towards the safety, security and empowerment of women. The Cell members for the benefit of girls and women regularly organize self-defense programs, Yoga, free health checkup for ladies. ITS Engineering College considers safety and security of the girl students as paramount and has initiated many fool-proof measures. The hostels are equipped with CCTV surrounding the building to monitor the movements. The hostels are fenced and gated properly. Further, the inward and outward movements of outsiders are recorded and monitored by professional security personnel. Apart from this, students are mandated to wear their IDs and monitored by the full time vigilant security personnel guarding the gates.

There is a **facility of Women Helpline**, with an intent to provide 24 hours immediate and emergency response to women affected by violence through referral (linking with appropriate authority such as police, One Stop Centre, hospital) through a single uniform number.

The objectives of the Women Helpline are:

- To provide toll-free 24-hours telecom service to women affected by violence seeking support and information.
- To facilitate crisis and non-crisis intervention through referral to the appropriate agencies such as police/Hospitals/Ambulance etc.

As soon as an aggrieved woman (AG) or somebody on her behalf will contact WHL, her information would be attended by the call responder appointed there.

To facilitate more secure environment, ITS Engineering College mandates and maintains timings for the student's entry into hostel and attendance in their hostel. The Women Hostel is monitored and is under the constant vigil of women warden and staff. The entry register is maintained in hostel to monitor the movement of the students. The College has in place all necessary measures to ensure girl student safety. **Ambulance is available at Surya Hospital which is the part of I.T.S The Education Group** and in the vicinity of 600 meters, hence it is available at any time.

The College is also organizing on regular basis several awareness programs such as **Girl Child Day, International Women Day, open house debate on the Identity based struggle in India and its**

### **solutions, poster making competition on Women, campaign for enhanced spirit of volunteerism and women safety and walkathon**

The College Internal Complaint Committee (ICC) holds several interactions with the students and faculty during academic and non-academic activities of the College. The issues addressed are maladjustment, academic performance anxiety, decision making, under achievement, peer pressure, relationship handling, women issues, absenteeism, malpractice, low self-esteem, emotional instability etc. Students who attended these sessions felt comfortable and emotionally secured at the end of the sessions.

The College has separate common rooms for the boys and girls of the college for healthy recreation and mutual contact among the students. The common rooms are equipped with indoor games like table tennis, carom, chess etc. Students can spend their spare times in the common room.

The **Anti-Ragging Committee** and squad monitor ensure that the campus and hostels are ragging-free. Anti-Ragging Helpline is established in the College.

<b>File Description</b>	<b>Document</b>
Upload Additional information	<a href="#">View Document</a>

#### **7.1.2**

##### **The Institution has facilities and initiatives for**

- 1. Alternate sources of energy and energy conservation measures**
- 2. Management of the various types of degradable and nondegradable waste**
- 3. Water conservation**
- 4. Green campus initiatives**
- 5. Disabled-friendly, barrier free environment**

**Response:** B. 3 of the above

<b>File Description</b>	<b>Document</b>
Policy document on the green campus/plastic free campus.	<a href="#">View Document</a>
Geo-tagged photographs/videos of the facilities.	<a href="#">View Document</a>
Circulars and report of activities for the implementation of the initiatives document	<a href="#">View Document</a>
Bills for the purchase of equipment's for the facilities created under this metric	<a href="#">View Document</a>

#### **7.1.3**

**Quality audits on environment and energy regularly undertaken by the Institution. The institutional environment and energy initiatives are confirmed through the following**

- 1.Green audit / Environment audit**
- 2.Energy audit**
- 3.Clean and green campus initiatives**
- 4.Beyond the campus environmental promotion activities**

**Response:** C. Any 2 of the above

<b>File Description</b>	<b>Document</b>
Report on Environmental Promotional activities conducted beyond the campus with geo tagged photographs with caption and date	<a href="#">View Document</a>
Policy document on environment and energy usage Certificate from the auditing agency	<a href="#">View Document</a>

#### **7.1.4**

**Describe the Institutional efforts/initiatives in providing an inclusive environment i.e., tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic and Sensitization of students and employees to the constitutional obligations: values, rights, duties and responsibilities of citizens (Within 500 words)**

**Response:**

I.T.S Engineering College, Greater Noida offers a conducive environment to its students hailing across the length and breadth of the country. The campus boasts of linguistically and culturally rich students from more than 10 states. The students coexist peacefully in an inclusive environment here with tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic and other diversities.

Diverse sports and cultural activities are organized inside the college premises to develop a sense of fellow feelings among the stakeholders and promote harmony towards one another. The annual events of college – Udghosh and Roo-ba-Roo - are good examples of unity in diversity where students of all ethnic groups and regions find a place to collaborate with one other thereby attributing inclusive quality to the institution.

Besides these, the College actively participates in the celebration of commemorative days like Women's Day, Yoga Day, World Ozone Day, World Science Day for Peace and Development, World Pi Day, Engineer day along with multiple regional festivals, such as Holi, Christmas, Diwali, Lohri etc. This establishes positive interaction among people of different racial, linguistic and cultural backgrounds.

Institute has code of ethics for students and a separate code of ethics for teachers and other employees which have to be followed by each one of them irrespective of their cultural, regional, linguistic, communal socioeconomic and other diversities.

Apart from providing quality education to engineers and management students, I.T.S Engineering College takes the ownership of sensitizing its students and employees to various constitutional obligations – values, rights, duties and responsibilities of citizens.

Blood donation camps are organized every year in the campus under the Corporate Social Responsibility wing. These camps enhance the social responsibility among students. Total 15 Volunteers performed a Street play on the cause and prevention of Dengue. They have also conducted Door to Door campaign and educated the residents to prevent Dengue from the locality.

Road Safety awareness programs are organized annually by the Institute which is presided by the Motor Vehicle Inspector. The primary objective of such programs is to educate the students about the DO's and DON'T's of traffic rules while driving. The programs offer instructions on safe practices and usage of roads. A traffic awareness session was organized on 18th November, 2019 by S P Traffic Office, Gautam Buddh Nagar which was attended by every single student and faculty member.

The College has a dedicated Unnat Bharat Abhiyan Cell (UBAC) and adopted five villages in its proximity named as Atta Gujran, Kondli Khadar, Nawada, Pali and Shafipur. The Cell has played a major role in creating awareness about constitutional rights, values, duties and responsibilities pertaining to citizens among students and employees. As per the requirement of the UBA, general surveys and household surveys of all the adopted villages are completed and uploaded on the UBA portal. Also with the help of a strong team of faculty members and students from various streams many events have been conducted in all the villages for the benefits of the population residing.

There are non credit courses on "Constitution of India, Law and Engineering" and "Indian Tradition, Culture and Society" in the syllabus for all students of III year B.Tech that covers the Indian Constitutional aspects and Indian moral and cultural values.

File Description	Document
Upload Additional information	<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:**

#### **BEST PRACTICE 1**

**1. Title of the Practice: Professional and technical quality enhancement incorporating various methods**

## 2. Goal

- a) To be in sync with the latest technologies which are not part of university curriculum
- b) To get exposure of real life working of any industry
- c) To develop entrepreneurial skills in the students
- d) To prepare students for industry readiness
- e) To improve the employability of the students
- f) To prepare students for various competitions for Govt. Jobs/ Higher Education

## 3. The Context

Theoretical studies are not sufficient for any aspiring engineering mind. Syllabus based experiments/practical are providing the fundamental exposure to the students. Additional efforts are required to expose the students about the latest technology as per the industry requirement. The exposure of basic engineering labs doesn't prepare students for industry readiness, doesn't promote their employability, and also not for competitive examinations for government jobs / higher education. Hence various different methods are being used to overcome this situation.

## 4. The Practice

1. Successful establishment and functioning of the state of art Skill Enhancement Centers (SEC) for latest technologies. These Centers include Rockwell Automation for industrial automation and drive, SMC for pneumatics and electro-pneumatics, National Instruments for industrial instrumentation and control, AWS Academy, CISCO Networking, Apple IOS for app development, SALT for software testing and E-Yantra for robotics applications.
2. Successful establishment and functioning of Entrepreneurship Development Cell (EDC) funded by NEWGEN IDC, Govt. of India initiative.
3. Regular conduction of Industrial Visits to top notch industries such as NPCL, New Holland, ABB, ST Microelectronics, Bisleri, Bikano, Mother Dairy, Anmol industries, Pragati Power station etc. Visits to Indian Expo Mart.
4. Conduction of various events such as seminar/ workshop/ short term training programs/ FDP/ SDP / conferences on regular basis by each department.
5. Regular classes for Aptitude and Reasoning
6. Conduction of various technical sessions/ GATE classes for PSU/ Higher education.

## 5. Evidence of Success

On monitoring the academic module, following were the observations:

1. A remarkable technological advancement is observed in students as the result of their COE training.
2. Our various students/alumni are now buddy entrepreneurs and running their business on their new and innovative ideas.
3. It is obviously observed that the students, who take interest in understanding the various processes in industry, can easily correlate the theoretical fundamentals with practical utilization. It also helps them in their campus interview selection process as the employers are interested in students who have knowledge of recent industry trends.
4. With the conduction of various events, it is observed that students and faculty are now more equipped and conversant with latest technological terms and ideas.
5. Students placement is enhanced due to increased confidence level and communication.

## 6. Problems Encountered and Resources Required

More resources and infrastructure are required for academic restructuring. New labs have to be established which have financial, infrastructural and training challenges however all problems are being managed with due efforts of management and faculty. Conduction of events needs expansion of resources and time. Time table have to re-adjust. Dedicated faculties are required for specific Trainings. Time is the big challenges in all these activities however with cumulative efforts and team works, all things are managed in stipulated time frame.

## BEST PRACTICE 2

### 1. Title of the Practice: Conduction of value based and personality development program

#### 2. Goal

1. To make the students good human being
2. To groom students for responsible citizen
3. To develop professional ethics in the students
4. To groom the students' personality
5. To inculcate the Indian culture and ethics in students
6. To inculcate entrepreneurial skills among students

### 3. The Context

The only technical subject knowledge and associated experimental studies cannot produce the good human being and responsible citizen. It is prime responsibility of any educational institute to inculcate the values and ethics in the students for their overall development and associated contribution towards society and country.

### 4. The Practice

1. Sending faculty members to various human values workshop/ refresher courses.
2. Establishment of value education cell.
3. Conduction of various personality development programs.
4. Conduction of fire safety and road safety programs.
5. Conduction of blood donation camps.
6. Implementation of Anti ragging rules.
7. Conduction of gender sensitization based program.
8. Organization of various cultural events.
9. Conduction of guest lectures, seminars and workshops to develop entrepreneurial skills in students

### 5. Evidence of Success

On monitoring the overall scenario of the college:

1. It is found that our students are more disciplined and cultured.
2. 40% of college faculty has attended the human value workshops.
3. There is no ragging case in the premises.
4. The college is a major partner with GOI in Unnat Bharat Abhiyan.
5. Students are capable enough to organize various cultural events on their own without any indiscipline case.
6. The students are voluntary participating in various CSR activities.
7. The college has been awarded **IIC Top Star Ranking in 2020, 2021 and 2022**. The college is also recognized in **ARIIA ranking in Top Twenty-five institutions in 2020, “Excellent Band” in 2021 and NIRF Innovation Ranking in Top 150 to 300 Band in 2022**. MoE Innovation Cell has recognized our IIC for **Mentor-Mentee Program** for harnessing innovation capacity building to other institutions too **in 2022**.

### 6. Problems Encountered and Resources Required

The time management is a major concern as lot of academic and non academic activities are going in parallel. Crowd management in events is also a challenge, however with mutual coordination of students, faculty and administrative staff, things are being managed.

File Description	Document
Best practices as hosted on the Institutional website	<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 has a great thrust of academic and technical excellence resulting into which we are consistently inspiring students and providing platform for technical skill development, Entrepreneurship development, multidisciplinary project development, Ethical as well as Human value development, and participation in various globally recognized competitions. The institute has believed in the philosophy that Innovative Technocrats Sparkle (ITS) everywhere. In a span of 08 years, the institute came up with various startups, innovations and patents. Herein our campus, students learn ethics, team building, technical skills, presentation skills, project management and financial management. Our institution not only encourages students to participate but also provides financial support.

The college is consciously working for Industry Academia connects, Collaborative Research and Entrepreneurial Initiative. The institute always encourages students to strive for innovative ideas and provides all possible support to convert their ideas into reality. The institute has accomplished exemplary work in the area of Innovation, Incubation and Entrepreneurship Development since 2015. The college has been awarded by the prestigious centers to promote Innovation and Entrepreneurship.

- I.T.S Engineering College has been approved as **Business Incubator (BI) / Host Institute (HI) by Ministry of Micro, Small & Medium Enterprises (MSME)**, Government of India since 2015.
- **Department of Science & Technology, Govt of India has established NewGen IEDC at I.T.S Engineering College, Gr. Noida in 2018.** NewGen IEDC has a mission to “promote knowledge based and technology-driven start-ups by harnessing young minds and their innovation potential in an academic environment”. The center is having 10,000 sq. ft. floor area, dedicated incubation team, Co-working space, Meeting Room, Conference Room, Refreshment room, Wi-Fi and Computers with high end configuration (Work Station and GPU). **Department of Science and Technology (DST) has provided grants of over Rs. 2.87 Crore for the period of 5 years.** Since 2018, students, faculty and staff have developed several start-ups, filed patents and represented the institute at national and international levels by participating in various competitions.
- Navrachana Foundation for Entrepreneurship Development is a section 8 company runs under the umbrella of ITS Engineering College, Greater Noida. It is established in 2020 by ITSEC for promotion of Innovation and Entrepreneurship among the students.

The Government of Uttar Pradesh has approved “**Startin UP Incubation Center**” at I.T.S Engineering college to be run under Navrachana Foundation for Entrepreneurship Development, supported by UP Electronics Ltd., Government of Uttar Pradesh under UP Startin UP policy 2020.

Under startin Up policy the incubation center will receive a **total grant of Rs. 2.5 Crores** for operations of the incubation center and IT Infrastructure setup will be provided the State Government. Schemes to promote startups incorporated in UP. **Incubation Operational expenditure Grant Rs. 30 Lacs per Annum and Rs. 1 corer for nonrecurring infrastructure out of which Rs 50 lacks will be boned by the college.**

#### **Incubation Support:**

1. **Sustenance allowance** of **Rs. 17,500/-** (50% more for women lead, Divyang Category, Bundelkhand & Purvanchal region) for 1 year.
2. **Prototype Grant** of **Rs. 5,00,000/-**
3. **Capital/ Marketing Grant** of **Rs. 7,50,000/-** (50% more for women lead, Divyang Category, Bundelkhand & Purvanchal region)

#### **Facilities Available at Incubation Center**

1. Dedicated Cabins
2. Co-working Space
3. Fabrication Lab
4. IT Facilities
5. Dedicated Mentoring Support
6. Legal Assistance
7. IPR Assistance
8. Meeting and Conference rooms
9. Free Wi-Fi
10. Cafeteria
11. Refreshment Zone
12. Library(Physical & Digital)
13. Funding Support
14. Investors Connect
15. Government Agencies Connect

**Presently Incubated 18 startups out of which 09 companies are successfully commercialized.**

Institute has also established the Institution’s Innovation Council (IIC) in 2018 and enthusiastically organizing various activities of MoE Innovation Cell and self-driven activities for fostering innovation culture among students. The college has been awarded **IIC Top Star Ranking in 2020, 2021 and 2022**. The college is also recognized in **ARIIA ranking in Top Twenty-five institutions in 2020, “Excellent Band” in 2021 and NIRF Innovation Ranking in Top 150 to 300 Band in 2022**. MoE Innovation Cell has recognized our IIC for **Mentor-Mentee Program** for harnessing innovation capacity building to

other institutions too **in 2022**.

Following are the outcome of the Institute in the area of innovation and incubation

- Contribution in Entrepreneurship Development via organizing various programmes like Entrepreneurship Awareness Programme (EAC), Entrepreneurial Development Programme (EDP), Women's Entrepreneurial Programme (WEDP), Technology Based Entrepreneurship Development Programme (TEDP) and Faculty Development programme supported by DST-NIMAT.
- **Institute has credit of filling 32 patents and 26 patents have been published till date.**
- Nine numbers of companies have been incorporated by our incubatees including women's founded Startup.
- **Seventy-two numbers of Proof of concept** have been developed at our NewGen IEDC.

Our students have participated in various globally recognized competitions such as NASA Human Exploration Rover Challenge (selected for best design award), Smart India Hackathon 2020 (selected for final round based on App Development on Food Processing Problem), Grid Tech 2019 competition (awarded 1st rank and Study Visa for Japan) , the Himalyan Startup Trek 2019 (bagged a grant of 7 lacs), teams from different branches participated in IIT Roorkee, IIT Delhi, IIT Mandi, IIT Kanpur and achieved 1st and 2nd positions in the different events like Robo-Wars, Robo-Race etc.

I.T.S Engineering College owns Skill Enhancement Centers that aim to bridge the gap between industry and academia by producing employable industry-ready students. The institute has established National Instruments Innovation Centre, Apple iOS Lab, Rockwell Automation, SMC Pneumatics & Electro Pneumatics, AWS Academy and eYantra.

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

## 5. CONCLUSION

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### Additional Information :

- Ranked amongst top 151-300 band in NIRF Innovation ranking 2023 across pan India
- Pan India highest rating by Institution's Innovation Council (IIC), Ministry of Education, Government of India in last 4 years

1. 4 Star in 2023
2. 4 Star in 2022
3. 4 Star in 2021
4. 5 Star in 2020
5. 3 Star in 2019

- Excellent ARIIA Rank 2021 and ARIIA Ranking 6-25 amongst Private Institutions 2020
- Ranked amongst top five by CSR in all India ranking of “**Outstanding Engineering Colleges of Excellence**” for 2021-22 & 2022-23.
- Strong and Resourceful network of over 2000 alumni
- DST Recognized Innovation and Incubation Centre **New Gen IEDC with 2.87 crores total grant** (Support of 2.5 lakhs per prototype) for 85 innovative ideas over a period of 5 years
- MSME approved Business Incubation Centre receiving regular grants every year for various projects from 2015 onwards.
- **StartinUP Incubation Centre** approved by UPIT, Government of Uttar Pradesh with approved **grant of 2.5 crores**.
- 176 companies visited college during session 2022-2023 for placements. Total offers received were 296 out of which 174 were individual selections.
- Skill Enhancement Centers with state of art infrastructure as per industry standards for SMC Pneumatics, Rockwell Automation, National Instruments, Apple IOS, R Systems, SALT and E-Yantra.
- Advanced training center for Robotics, IOT & Embedded Systems.
- Advanced Fabrication Lab including laser engraving machines, Plasma Cutting Machine, 3 D printers, Vinyl Cutter, GPUs & AI Software.

### Concluding Remarks :

ITS Engineering College promotes academic achievement, research, cultural awareness, social welfare, and personality development in order to enable the all-around development of its teachers and students. The Institute is dedicated to provide its teachers and students the best possible opportunities and resources in order to pique their curiosity and support them in pursuing their goals.

The educational institution has highly skilled staff members and state-of-the-art facilities to help our students reach their maximum potential. Apart from traditional educational and curriculum-based activities, the Institute offers a wide range of knowledge-boosting programs, specialized skill-based training, industry engagement possibilities, personality development initiatives, and participation incentives.

The amazing standard of excellence at ITS Engineering College is demonstrated by the outstanding academic performance of students who have been placed at the top of the class, the recognition that students have

received from various national contests, and the creation of Skill Enhancement Centers (SEC). The organization is dedicated to seeking future developments.

## 6.ANNEXURE

### 1.Metrics Level Deviations

Metric ID	Sub Questions and Answers before and after DVV Verification																														
1.2.1	<p><b>Number of Certificate/Value added courses offered and online courses of MOOCs, SWAYAM, NPTEL etc. (where the students of the institution have enrolled and successfully completed during the last five years)</b></p> <p>Answer before DVV Verification : 220 Answer After DVV Verification :151</p>																														
1.4.1	<p><b><i>Institution obtains feedback on the academic performance and ambience of the institution from various stakeholders, such as Students, Teachers, Employers, Alumni etc. and action taken report on the feedback is made available on institutional website</i></b></p> <p>Answer before DVV Verification : A. Feedback collected, analysed, action taken&amp; communicated to the relevant bodies and feedback hosted on the institutional website Answer After DVV Verification: A. Feedback collected, analysed, action taken&amp; communicated to the relevant bodies and feedback hosted on the institutional website</p>																														
2.1.2	<p><b><i>Percentage of seats filled against reserved categories (SC, ST, OBC etc.) as per applicable reservation policy for the first year admission during the last five years</i></b></p> <p><b>2.1.2.1. Number of actual students admitted from the reserved categories year wise during last five years (Exclusive of supernumerary seats)</b> Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2022-23</th> <th>2021-22</th> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> </tr> </thead> <tbody> <tr> <td>144</td> <td>131</td> <td>82</td> <td>113</td> <td>186</td> </tr> </tbody> </table> <p>Answer After DVV Verification :</p> <table border="1"> <thead> <tr> <th>2022-23</th> <th>2021-22</th> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> </tr> </thead> <tbody> <tr> <td>116</td> <td>107</td> <td>76</td> <td>108</td> <td>141</td> </tr> </tbody> </table> <p><b>2.1.2.2. Number of seats earmarked for reserved category as per GOI/ State Govt rule year wise during the last five years</b> Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2022-23</th> <th>2021-22</th> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	2022-23	2021-22	2020-21	2019-20	2018-19	144	131	82	113	186	2022-23	2021-22	2020-21	2019-20	2018-19	116	107	76	108	141	2022-23	2021-22	2020-21	2019-20	2018-19					
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2.4.1	<p><b>Percentage of full-time teachers against sanctioned posts during the last five years</b></p> <p><b>2.4.1.1. Number of sanctioned posts year wise during the last five years</b> Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2022-23</th> <th>2021-22</th> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> </tr> </thead> <tbody> <tr> <td>84</td> <td>87</td> <td>93</td> <td>102</td> <td>105</td> </tr> </tbody> </table> <p>Answer After DVV Verification :</p>	2022-23	2021-22	2020-21	2019-20	2018-19	84	87	93	102	105																				
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2022-23	2021-22	2020-21	2019-20	2018-19
92	92	104	116	116

Remark : As per the supporting documents provided by HEI

**3.1.1 Grants received from Government and non-governmental agencies for research projects / endowments in the institution during the last five years (INR in Lakhs)**

**3.1.1.1. Total Grants from Government and non-governmental agencies for research projects / endowments in the institution during the last five years (INR in Lakhs)**

Answer before DVV Verification:

2022-23	2021-22	2020-21	2019-20	2018-19
78.6	60	49	66	9.6

Answer After DVV Verification :

2022-23	2021-22	2020-21	2019-20	2018-19
50	50	37.5	25	0

**3.3.1 Number of research papers published per teacher in the Journals notified on UGC care list during the last five years**

**3.3.1.1. Number of research papers in the Journals notified on UGC CARE list year wise during the last five years**

Answer before DVV Verification:

2022-23	2021-22	2020-21	2019-20	2018-19
3	7	12	16	12

Answer After DVV Verification :

2022-23	2021-22	2020-21	2019-20	2018-19
2	6	11	13	7

**3.3.2 Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during last five years**

**3.3.2.1. Total number of books and chapters in edited volumes/books published and papers in national/ international conference proceedings year wise during last five years**

Answer before DVV Verification:

2022-23	2021-22	2020-21	2019-20	2018-19
4	4	8	7	8

Answer After DVV Verification :

2022-23	2021-22	2020-21	2019-20	2018-19
4	2	8	4	3

3.4.3 **Number of extension and outreach programs conducted by the institution through organized forums including NSS/NCC with involvement of community during the last five years.**

3.4.3.1. **Number of extension and outreach Programs conducted in collaboration with industry, community, and Non- Government Organizations through NSS/ NCC etc., year wise during the last five years**

Answer before DVV Verification:

2022-23	2021-22	2020-21	2019-20	2018-19
6	2	5	4	1

Answer After DVV Verification :

2022-23	2021-22	2020-21	2019-20	2018-19
1	2	5	4	1

3.5.1 **Number of functional MoUs/linkages with institutions/ industries in India and abroad for internship, on-the-job training, project work, student / faculty exchange and collaborative research during the last five years.**

Answer before DVV Verification : 11

Answer After DVV Verification : 10

4.3.2 **Student – Computer ratio (Data for the latest completed academic year)**

4.3.2.1. **Number of computers available for students usage during the latest completed academic year:**

Answer before DVV Verification : 475

Answer after DVV Verification: 475

5.1.2 **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. *ICT/computing skills*

Answer before DVV Verification : E. None of the above

Answer After DVV Verification: B. 3 of the above

Remark : As per the supporting documents provided by HEI

5.1.3 **Percentage of students benefitted by guidance for competitive examinations and career**

**counseling offered by the Institution during the last five years****5.1.3.1. Number of students benefitted by guidance for competitive examinations and career counselling offered by the institution year wise during last five years**

Answer before DVV Verification:

2022-23	2021-22	2020-21	2019-20	2018-19
983	598	587	285	283

Answer After DVV Verification :

2022-23	2021-22	2020-21	2019-20	2018-19
553	246	587	285	283

**5.1.4 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**

Answer before DVV Verification : A. All of the above

Answer After DVV Verification: B. 3 of the above

Remark : As per the supporting documents provided by HEI

**5.3.2 Average number of sports and cultural programs in which students of the Institution participated during last five years (organised by the institution/other institutions)****5.3.2.1. Number of sports and cultural programs in which students of the Institution participated year wise during last five years**

Answer before DVV Verification:

2022-23	2021-22	2020-21	2019-20	2018-19
36	34	0	29	28

Answer After DVV Verification :

2022-23	2021-22	2020-21	2019-20	2018-19
4	5	0	5	4

**6.3.3 Percentage of teaching and non-teaching staff participating in Faculty development Programmes (FDP), Management Development Programmes (MDPs) professional development /administrative training programs during the last five years****6.3.3.1. Total number of teaching and non-teaching staff participating in Faculty development Programmes (FDP), Management Development Programmes (MDPs) professional**

**development /administrative training programs during the last five years**

Answer before DVV Verification:

2022-23	2021-22	2020-21	2019-20	2018-19
30	27	36	43	21

Answer After DVV Verification :

2022-23	2021-22	2020-21	2019-20	2018-19
28	26	27	43	22

**6.3.3.2. Number of non-teaching staff year wise during the last five years**

Answer before DVV Verification:

2022-23	2021-22	2020-21	2019-20	2018-19
80	69	72	75	93

Answer After DVV Verification :

2022-23	2021-22	2020-21	2019-20	2018-19
81	81	81	81	81

6.5.2

**Quality assurance initiatives of the institution include:**

1. **Regular meeting of Internal Quality Assurance Cell (IQAC); quality improvement initiatives identified and implemented**
2. **Academic and Administrative Audit (AAA) and follow-up action taken**
3. **Collaborative quality initiatives with other institution(s)**
4. **Participation in NIRF and other recognized rankings**
5. **Any other quality audit/accreditation recognized by state, national or international agencies such as NAAC, NBA etc.**

Answer before DVV Verification : A. Any 4 or more of the above

Answer After DVV Verification: A. Any 4 or more of the above

7.1.2

**The Institution has facilities and initiatives for**

1. **Alternate sources of energy and energy conservation measures**
2. **Management of the various types of degradable and nondegradable waste**
3. **Water conservation**
4. **Green campus initiatives**
5. **Disabled-friendly, barrier free environment**

Answer before DVV Verification : A. 4 or All of the above

Answer After DVV Verification: B. 3 of the above

7.1.3

**Quality audits on environment and energy regularly undertaken by the Institution. The institutional environment and energy initiatives are confirmed through the following**

1. **Green audit / Environment audit**

2. **Energy audit**
3. **Clean and green campus initiatives**
4. **Beyond the campus environmental promotion activities**

Answer before DVV Verification : C. Any 2 of the above

Answer After DVV Verification: C. Any 2 of the above

Remark : As per the supporting documents provided by HEI

## 2.Extended Profile Deviations

Extended Profile Deviations
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No Deviations
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