



# **SELF STUDY REPORT**

**FOR**

**1<sup>st</sup> CYCLE OF ACCREDITATION**

**IDEAL INSTITUTE OF TECHNOLOGY**

**VIDYUT NAGAR, KAKINADA**

**533003**

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

**Submitted To**

**NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL**

**BANGALORE**

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# 1. EXECUTIVE SUMMARY

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## 1.1 INTRODUCTION

The Ideal Institute of Technology is sponsored by the Governing body of Ideal College of Arts & Sciences, Kakinada which by itself is a parent body for Junior, Degree and P.G. colleges. The society comprises intellectuals and patriots along with educationalists like col. Dr P V N Raju, the founder and President, Dr N S R Sastry, Dr P Chiranjeevini Kumari and others over inspired by the great patriot's col. Dr D.S.Raju was the personal physician for Netaji Subhas Chandra Bose. Now the college is under the Chairmanship of Dr P.Krishna Rao.

There was a need for a sterling Technical Education Institution which contributes to the overall development of human resources in the heart of the town of Kakinada, combining educational values and skill-oriented courses, to create an integrated and competent human resource hence Ideal Institute of Technology was started in 2009 in midst of Kakinada in the vicinity of JNTUK, Medical College, Women's Polytechnic and such other educational Institutions giving an intellectual atmosphere to the Institution. It has the advantage of, not only being at the doorstep of parents but also having accessibility to learnt professors and faculty of institutions like JNTUK.

Initially, the Ideal Institute of Technology was started with four disciplines Civil, Mechanical, Computer Science and ECE. Encouraged by intake and based on demand from Parents, two more sections are added one in Mechanical and another in ECE. Now as per the demand for emerging courses additional sections in CSE new courses CSE in artificial Intelligence and Machine Learning were started in the 2021-22 academic year in place of conventional branches i.e., Civil and EEE.

Ten acres of land was secured for the college and sufficient infrastructure was raised along with a big workshop which was 2000 sq. feet and a state-of-art library with four thousand sq. feet was provided. The Workshop has all the required equipment and there are 240 computers for use in the Computer Laboratory, English Lab and office and staff use. About 2 acres of land is earmarked for sports which have eight courts with well-equipped. The college provides required facilities to students like CRT, Placement Officer, Opportunities of Off-campus and on-campus recruitment facilities.

### **Vision**

To emerge as a premier institution for technical education in the country through academic excellence and to be recognized as a centre for excellence in research & development, catering to the needs of our country.

### **Mission**

To realize a strong institution by consistently maintaining state-of-art infrastructure and building a cohesive, world-class team and providing need-based technical education, research And development through enhanced industry interaction.

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

### Institutional Strength

1. A suitable, experienced and dedicated teacher.
2. The staff is very energetic and research is intended.
3. We support technical and non-technical staff.
4. Well-maintained infrastructure with generous development.
5. Impressive and outstanding results on university exams
6. Progressive Growth of Campus Placements and Internships
7. Outstanding student-teacher relationships with an emphasis on mentoring and guidance.
8. Rooted cultural values, and moral responsibility reflected in successful graduates
9. Functional IQAC and Alumni Association
10. Very good interface to industry, research and other educational institutions
11. Located in the centre of the city and very well connected to all means of transportation
12. Well-maintained sports ground for conducting events.
13. Projects useful to institutions Unique Development and Society
14. Management with years of experience in running educational institutions with good background and fame
15. Helping students to participate in extracurricular activities and sports in intra-institutional and inter-institutional competitions
16. The institution has a good, well-organized counselling and community service program and range.

### Institutional Weakness

1. Poor socio-economic status of the students
2. No proper cadre ratio of faculty in a few departments
3. No Research and development activities, patents and funded projects
4. Poor communication skills of students as many are from local medium up to grade X and XII

### Institutional Opportunity

1. Increased access to job opportunities
2. Preparation for a specialized career by increasing more number of core placements related to all the departments
3. Personal growth and improved self-esteem
4. Economic stability
5. A pathway to advancement
6. Networking opportunities
7. Can impart UG level of engineering and technology with on-demand courses
8. Establish a centre of excellence in departments with the collaboration of companies
9. Establish Research and development centre in the departments for improving the student research activities

### Institutional Challenge

1. Affordability is the most significant challenge facing higher education
2. Competition from a group of engineering colleges in the district
3. To obtain NBA, and UGC 12(B) status
4. To attain the autonomous status
5. To improve the research facilities and hence the research activities
6. To develop more innovative projects through funded research

## 1.3 CRITERIA WISE SUMMARY

### Curricular Aspects

Ideal Institute of Technology strictly adheres to the academic calendar developed by JNTUK, Kakinada. The College offers five programmes in Under Graduate stream catering to a diverse range of learners in terms of Core options, Electives and add-on courses also.

Our institution believes in the continuous progression of students and hence keeping up with the trend has included new branches in Computer Science and Engineering. The institution has a choice based credit system which helps students pursue their studies of interest. More than 50% of students have participated in various add-on certificate programs that were offered in our institution. Our college gives utmost priority to Gender equality, Ethics, and Human values and teaches students to be part of the environment. The teaching staff regularly encourages students to build entrepreneurship qualities among themselves and makes them job-ready.

Around 37% of the students participate in project work, internships and field trips. The college regularly conducts feedback sessions with Students, Teachers, Employers and Alumni and tries to keep up with their anticipations and suggestions. Quality in terms of academics, co-curricular and extra-curricular activities are enhanced with the proper guidance of the IQAC committee.

### Teaching-learning and Evaluation

This criterion deals with the efforts of an Institution to serve students of different backgrounds and abilities, through effective teaching-learning experiences. Interactive instructional techniques that engage students in higher-order 'thinking' and investigation, through the use of interviews, focused group discussions, debates, projects, presentations, experiments, internships and application of ICT resources, are important considerations.

Out of the total seats sanctioned 90.13% of students are admitted to the institution in the last five years, and around 75% of seats are filled against seats reserved for various categories. The institution encourages students from diverse backgrounds. The slow learners and advanced learners are identified based on the student performance and special strategies are adopted to overcome the learning barriers. Remedial classes are organized for students who have problems coping with the classwork. Traditional teaching has been enriched with more innovative and creative ways of disseminating, sharing and facilitating knowledge development in students that include workshops, technical seminars, group projects, quizzes, group discussions, and so on.

The department-wise Mentorship is allotted to continue the student-centric learning approach. The current year's Mentor-Mentee Ratio is 22:1. The learning experience of the students is enhanced with several fun-filled, innovative and creative teaching methods. More than 10% full time teachers are having doctoral degrees. The total experience of full time teachers in our institutions is 308. The pass percentage is around 85 in the final

semester during assesment period.

IQAC of the College supported by the senior faculty members monitors all the curricular, co-curricular and extra-curricular activities in the college and ensures to provide all the necessary support to teachers and students for better teaching and learning processes.

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

The inistitution received 71.58 Lacs grants from various Governemnt and non Governement agencies. Ideal Institute of Technology is concentrating on establishing an innovative ecosystem and culture to embrace and encourage the young talents so that they could make a world-changing impact with their innovative ideas. The institution promotes research and development in newly emerging and challenging areas of engineering, technology, science and humanities which aims to nurture a research culture in the college. This enhances the general research capabilities of budding technocrats by way of participating in conferences, seminars and workshops. A total of 32 workshops were conducted in various departments during the last 5 years.

The institution has developed an excellent group of experienced and dedicated faculty from academia and industry to co-relate the academic inputs to practice real-life environment. The faculty members with the support of IQAC provide critical knowledge which allows faculty innovations and helps transfer new ideas into innovations. intotal 132 teachers are published papers in UGC approved journals and 78 teachers are participated in conferences during the assesment period.

The institute has built up an NSS unit which aims to develop amongst students a sense of participation in nation-building through social work. The NSS indulges in a wide range of activities, which indulges regular activities like blood detection camps, blood donation etc. Extension activities are carried out for the development of the latent aspect of the student's personality. This helps them to develop awareness and knowledge of social realities to have concern for the wellbeing of the community and engage in creative and constructive social activities. our NSS Unit received 28 recognitions from variuos bodies during the assesment period. Our NSS unit oraganized 43 extension activities and more than 50% students are participated during assesment period. 44 MoUs are signed with various industry partners and institutions and organized 75 activities during the assesment period.

### **Infrastructure and Learning Resources**

Provision of adequate infrastructural facilities for Teaching and Learning has always been the top priority area at Ideal Institute of Technology, the campus is situated on 2.88 acres of land in a clean and green environment. The Institute has state-of-the-art infrastructure and learning resources including ICT enabled classrooms, seminar halls, equipped laboratories, computer labs, library and other support facilities. The Institute has a substantial infrastructure for sports and other extracurricular activities.

The Institute has an automated library with 16000 volumes and 2600 titles covering all disciplines, rare books, manuscripts and special reports and it has access to Learning Resources like J-Gate, DELNET, and NDLI for e-journals, e-books, Shodhganga, e-Shodhsindhu and databases. Budget for infrastructure, library and other learning resources are earmarked annually based on the recommendations of respective committees.

The overall functioning of IT resources, review and up gradation of IT infrastructure are carried out annually

according to the plan and approval of the Finance Committee. The college has a student to computer ratio of 1:5 with 80 Mbps bandwidth for internet connection. Feedback is from stakeholders sought about infrastructure and learning resources and a continuous review is carried out by respective committees and the recommendations are integrated into the annual planning for upgrading, maintaining and utilizing physical, academic and support facilities. Classrooms and laboratories are equipped with multimedia teaching aids like LCD projectors. The latest equipment is available for regular experiments/ student projects and research. Other supporting facilities like playground and gymnasium are provided within the campus. The campus facilities are maintained through full-time staff appointed by the Management and by maintenance contractors.

### **Student Support and Progression**

The Institute has an excellent student support and progression system for the all-around development of each and every student.. The Average percentage of students who benefitted from these scholarships and freeships for the past five years is 66.1%. Guidance for Competitive Examinations and Career Counselling, personality skill development, and Language labs are provided by the Institution. The Average percentage of students who benefitted from these activities which is guidance for competitive examinations and career counselling offered by the Institution during the last five years is about 45%.

The Women's Welfare Committee organizes activities specifically related to "gender awareness", violence against women and the law on sexual harassment of women in the workplace. The Ragging Prevention Committee will be formed according to the guidelines of AICTE and the JNTUK. Students who are sincere, well-behaved, disciplined, and worthy are the additional members of the committee apart from all faculty members. This committee deals with all ragging related issues in and around the college campus. The internship site is active and organizes skills development and career counselling to promote student internships. The average placement rate during the last five years is 55.45% and also nearly 70students had progressed to higher education during the last five years. During the last five years more than 70% of attended students are qualified in various competitive examination.Sports and Cultural activities within the college and intercollegiate levels are held annually. During the last five years, 118 of our students had won awards/medals for their outstanding performance in sports/cultural activities and enormous number of students have participated in 97 extra curricular activities inside and outside of the campus.

The Ideal Institute of Technology Alumni Association is formed with a view to creating a platform that helps in improving student interaction and relations after completion of their course. It's all about Enterprise, inspiration and mentoring by notable Alumni.

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

Ideal Institute of Technology strictly adheres to the Vision and Mission of the Institution formulated by the Governing Body. Effective leadership of the Principal and supportive Management form the backbone of the Institution.

The Institution deploys a well-structured strategic plan and strictly follows the regulations of the JNTUK, Kakinada. The Principal decentralizes monitoring activities among staff thus imposing self-discipline among staff too. The Principal strictly reviews the Teaching-Learning process regularly. The decentralized and well-structured organogram of the Institution ensures complete e-governance in all the areas of administration.

The management regularly encourages the Staff to enhance their academic and professional growth, also providing financial support for the same. The institution follows a regular feedback mechanism where feedback is collected from the students and alumni covering all aspects of academics and organization. The institution organized more than 50 Professional Development Programs during the assessment period. And around 40% of teachers have participated in various Professional Development Programs during the assessment period and also the institution has provided financial support to more than 30% of full time teachers during the assessment period.

The institute carries out both internal and external audits regularly and in a transparent manner. Scrutiny of internal audit is carried out in a hierarchy starting with the Officer-in-charge followed by the Administrative Officer and finally by the Principal. The external audit which is carried out annually is done by the Chartered Accountants from TSR Associates, Kakinada. Mobilization of funds and Resource utilization is well balanced and maintained. The institution received around 12 Lakhs received from individuals and various NGOs.

The institution has constantly been guided and benefitted by the significant contribution of the Internal Quality Assurance Cell. The resolutions listed out in the IQAC minutes of meetings are carried out meticulously to enhance the overall quality of the organization, improving its excellence and enhancing its potential to the fullest.

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

Ideal Institute of Technology organizes various activities for the sensitization of the students and employees for inculcating values, rights, duties and responsibilities for being responsible citizens of India. Every year our institution celebrates theme-based women empowerment programs on International Women's Day and we give self-defence training to the girl students. Our NSS unit conducts awareness programs on the campus and surrounding villages regarding Gender Equity. The non-biodegradable solid waste generated on the campus includes paper, plastics, etc. Our college generates biogas by using food wastage.

The institution has been taking several efforts and initiatives in providing an inclusive environment i.e., tolerance and harmony towards cultural, regional, linguistic, communal socio-economic and other diversities by celebrating many National and International Days, events and festivals.

The institution has an NSS wing to inculcate a sense of unity, discipline and harmony. Many girls are encouraged to take up leadership roles and participate actively in all student activities. Industrial visits expose students to practical challenges and also make the students from different backgrounds adapt to one another to create tolerance and harmony in the organization. Voter's Day and International Yoga Day had been conducted by the institution from time to time. Guest lectures are arranged by eminent personalities to deliver lectures on ethics, values, duties and responsibilities. The institute organized awareness programs on "Traffic rules and regulations" by District police Department, Traffic DSP is invited to give guidelines to students on road safety and to emphasize their responsibility of following rules. The institute conducted awareness programs and rallies on the ban on plastics, cleanliness, Swachh Bharat etc. involving students.

## 2. PROFILE

### 2.1 BASIC INFORMATION

Name and Address of the College	
Name	IDEAL INSTITUTE OF TECHNOLOGY
Address	Vidyut Nagar, Kakinada
City	Kakinada
State	Andhra Pradesh
Pin	533003
Website	<a href="http://www.idealtech.edu.in">www.idealtech.edu.in</a>

Contacts for Communication					
Designation	Name	Telephone with STD Code	Mobile	Fax	Email
Principal	T Srikanth	0884-2363345	9848179610	0884-2363345	principal@idealtech.edu.in
IQAC / CIQA coordinator	P Radhika Krupalini	0884-2378586	9246691771	0884-2378586	pradhikakrupalini@idealtech.edu.in

Status of the Institution	
Institution Status	Private and 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	
Date of establishment of the college	29-06-2009

**University to which the college is affiliated/ or which governs the college (if it is a constituent college)**

State	University name	Document
Andhra Pradesh	Jawaharlal Nehru Technological University,Kakinada	<a href="#">View Document</a>

**Details of UGC recognition**

Under Section	Date	View Document
2f of UGC		
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>	02-07-2021	12	Extension for one year

**Details of autonomy**

Does the affiliating university Act provide for conferment of autonomy (as recognized by the UGC), on its affiliated colleges?	No
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**Recognitions**

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

<b>Location and Area of Campus</b>				
<b>Campus Type</b>	<b>Address</b>	<b>Location*</b>	<b>Campus Area in Acres</b>	<b>Built up Area in sq.mts.</b>
Main campus area	Vidyut Nagar, Kakinada	Urban	2.88	9607

## 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,Mechanical Engineering	48	Interemdiat	English	60	7
UG	BTech,Electronics And Communication Engineering	48	Interemdiat	English	60	60
UG	BTech,Computer Science And Engineering	48	Interemdiat	English	60	60
UG	BTech,Computer Science And Engineering	48	Interemdiat	English	120	120

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

<b>Teaching Faculty</b>												
	<b>Professor</b>				<b>Associate Professor</b>				<b>Assistant Professor</b>			
	Male	Female	Others	Total	Male	Female	Others	Total	Male	Female	Others	Total
Sanctioned by the UGC /University State Government	0				0				0			
Recruited	0	0	0	0	0	0	0	0	0	0	0	0
Yet to Recruit	0				0				0			
Sanctioned by the Management/Society or Other Authorized Bodies	7				1				64			
Recruited	7	0	0	7	1	0	0	1	36	28	0	64
Yet to Recruit	0				0				0			

<b>Non-Teaching Staff</b>						
	<b>Male</b>		<b>Female</b>		<b>Others</b>	<b>Total</b>
Sanctioned by the UGC /University State Government						0
Recruited	0		0		0	0
Yet to Recruit						0
Sanctioned by the Management/Society or Other Authorized Bodies						24
Recruited	17		7		0	24
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				6
Recruited	6	0	0	6
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.	7	0	0	0	0	0	0	0	0	7
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	1	0	0	36	28	0	65
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>
	0	0	0	0	0

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

Programme		From the State Where College is Located	From Other States of India	NRI Students	Foreign Students	Total
UG	Male	174	0	0	0	174
	Female	93	0	0	0	93
	Others	0	0	0	0	0

Provide the Following Details of Students admitted to the College During the last four Academic Years						
Category		Year 1	Year 2	Year 3	Year 4	
SC	Male	25	20	20	23	
	Female	9	13	17	14	
	Others	0	0	0	0	
ST	Male	7	10	10	10	
	Female	1	2	5	3	
	Others	0	0	0	0	
OBC	Male	58	60	59	60	
	Female	29	27	28	27	
	Others	0	0	0	0	
General	Male	58	72	63	87	
	Female	59	68	49	54	
	Others	0	0	0	0	
Others	Male	11	8	4	1	
	Female	10	8	5	0	
	Others	0	0	0	0	
Total		267	288	260	279	

### Institutional preparedness for NEP

1. Multidisciplinary/interdisciplinary:	The new National Education Policy started with a vision to provide Quality education to enlighten and enrich our students to compete with the global Opportunities. A detailed discussion was done among
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	<p>the faculty regarding the key initiatives of the NEP such as the diversity in the curriculum pattern and pedagogy with new technological initiatives in teaching and learning enhancing logical thinking and innovations, and encouraging creativity and critical decision making. In order to gear up with the NEP, The institute has started new interdisciplinary projects by the students by integrating different departments and also by starting new emerging courses The University curriculum is designed to get benefit the students with the flexibility to select electives offered by other Departments. The University is actively working on the implementation of the NEP it is scrupulously followed by the institute. The basic aim of the National Education Policy for higher education is to transform the institutions into massive interdisciplinary Universities and higher education institutions as Knowledge hubs The aim of the Ideal Institute of Technology according to the NEP is to be accredited by NAAC with a good grade and to strive for autonomy. In our institutions apart from the regular curriculum, we encourage the students to do different certifications, life skills, yoga, sports and cultural sessions. We regularly organize society outreach programs like blood donation camps, health awareness drives, counselling and moral support to patients affected with different diseases like a corona. Leadership and effective governance and leadership for higher education institutions: A) Ideal institute of Technology is a self-finance private HEI under the affiliation of JNTUK, Kakinada and it derives to become a self-governing independent Institution with the aim to produce quality education along with accreditation.</p>
2. Academic bank of credits (ABC):	<p>Academic bank of credits is the chief component of NEP-2020 that academic institutions must adopt the integration of higher education institutions in the global space is vital we encourage our students to take online courses through swayam, NPTEL, unacademy etc.</p>
3. Skill development:	<p>As per the 12th five-year plan, only 5% of the Indian workers between the age of 19-24 are getting formal vocational education. The skill department becomes critical as the vocational education is extended with the introduction of NEP there is a surge in the skill department through vocational education All HEIs</p>

	<p>have to provide the vocational courses as part of their curriculum In the near future vocational education will be completely integrated into schools and colleges. The institution moves forward with a motive to ensure the student's empowerment and cater to the engineering requirement. Our institution is implementing the following plan.</p> <ol style="list-style-type: none"> <li>1. In R 20 University regulation 5 skill-oriented courses of engineering</li> <li>2. In R19 University regulations also skill-oriented courses are introduced in all branches</li> <li>3. To acquaint the students with the job environment through internships and on-job training.</li> <li>4. To focus on innovative practices in the teacher and learner process</li> <li>5. Facilitating lateral mobility of vocational students</li> <li>6. By collaborating with industries for importing hands an experience, practical skills and design of industry-related courses</li> <li>7. By the introduction of new teaching methods with digital tools and several online courses</li> <li>8. Development of a holistic system of assessment and evaluation.</li> <li>9. By measuring the learning outcomes through various parameters as defined by the outcome-based education system with a 360 degree evaluation and assessment.</li> </ol>
<p>4. Appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using online course):</p>	<p>Promoting the characteristics of Indian Culture such as civilized communication, beliefs, values, etiquette and rituals, is beneficial to the growth of every individual. Engineering being a professional course requires the English language as a medium of communication and for conducting course work in all programmes. Ideal Institute of technology observes significant dates and conducts activities in regional languages to promote regional pride. Patriotic days such as Independence Day and Republic day are celebrated with fervour where the students are addressed in their native languages. Women's day is commemorated to instil respect in the minds of young students. Native festivals like Sankranti and Vinayaka Chavithi are celebrated on the campus, where students dress up in traditional attire and participate in competitions like Rangoli and Kite flying which promote awareness of the Indian culture and regional languages. Engineers Day and Teachers Day are celebrated to revere the importance of knowledge. Constitution Day and Yoga day which radiates the importance of Indian culture and values are observed in the Institute every year.</p>

5. Focus on Outcome based education (OBE):	<p>Ideal Institute of Technology has adopted Outcome – Based Education where teaching is student-centric and the learning methodology is planned to achieve the stated objectives and outcomes. Based on the outcomes targeted, the role of the faculty adapts into instructor, trainer, facilitator and mentor. All courses help to enhance cognitive abilities like reading, learning, remembering, logical reasoning and paying attention to develop entrepreneurial skills following the JNTUK norms. Professional ethics and human values is a value-based-education course which describes the accepted principles and standards of conduct regarding moral duties and virtues. We have various community outreach initiatives such as student clubs, National Service Scheme (NSS) to cater to extension activities in the community.</p>
6. Distance education/online education:	<p>Education is an integral part of people’s lives. The covid-19 has resulted in colleges being shut all across the world. As a result education has changed dramatically, with the distinctive rise of e-learning, whereby teaching is undertaken remotely and on digital platforms. Online learning has helped students to become independent learners, which helped them to develop new skills and capabilities accelerating their growth trajectory. Ideal Institute of Technology has successfully communicated all its course content delivery in online mode with tools such as Zoom and Microsoft Teams.</p>

## Extended Profile

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### 1 Program

#### 1.1

**Number of courses offered by the Institution across all programs during the last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
338	334	330	328	328
File Description		Document		
Institutional data in prescribed format		<a href="#">View Document</a>		

#### 1.2

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

2020-21	2019-20	2018-19	2017-18	2016-17
05	05	05	05	05

### 2 Students

#### 2.1

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

2020-21	2019-20	2018-19	2017-18	2016-17
1164	1161	1093	955	846
File Description		Document		
Institutional data in prescribed format		<a href="#">View Document</a>		

#### 2.2

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

2020-21	2019-20	2018-19	2017-18	2016-17
200	200	170	170	170

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

### 2.3

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

2020-21	2019-20	2018-19	2017-18	2016-17
296	301	197	159	188

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

## 3 Teachers

### 3.1

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

2020-21	2019-20	2018-19	2017-18	2016-17
62	63	62	52	42

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

### 3.2

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

2020-21	2019-20	2018-19	2017-18	2016-17
22	16	17	21	13

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

## 4 Institution

### 4.1

#### Total number of classrooms and seminar halls

**Response: 24**

**4.2**

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

2020-21	2019-20	2018-19	2017-18	2016-17
108.1	63.42	238.6	205.51	162.27

**4.3**

**Number of Computers**

**Response: 240**

**4.4**

**Total number of computers in the campus for academic purpose**

**Response: 231**

## 4. Quality Indicator Framework(QIF)

### Criterion 1 - Curricular Aspects

#### 1.1 Curricular Planning and Implementation

##### 1.1.1 The Institution ensures effective curriculum delivery through a well planned and documented process

###### Response:

**Vision:** To emerge as a premier institution for technical education in the country through academic excellence and also to be recognized as a centre for excellence in research & development, catering to the needs of our country.

**Mission:** To realize as a strong institution by consistently maintaining state-of-art infrastructure and building a cohesive, world-class team and providing need-based technical education, research and development through enhanced industry interaction.

Ideal Institute of Technology was established in the year of 2009. This Institution is located in Kakinada, Andhra Pradesh, India. The institution is affiliated with Jawaharlal Nehru Technological University, Kakinada. It is also certified by ISO 9001:2015. The institution started with admissions in 5 UG programmes offering CE, EEE, MECH, ECE and CSE branches with an intake of 300 students. The institution is now (2020-2021) offering a new UG programme – CSM (sub-branch of CSE) and also increased the number of seats in CSE from 60 to 120. It has a good Alumni base with some of them being talented professionals in India and abroad. Many of our students are placed in the local and MNC companies in India.

The institute has well qualified and experienced faculty. All the academic activities from the commencement of classes, internal assessment, and academic and Co-curricular events, are planned meticulously for the entire academic year. The departments will follow the syllabus prescribed by the JNTUK, Kakinada. The Timetable headed by the HOD and a Faculty Member from each department frames a detailed timetable which efficiently deploys the units of time for academic and Co-curricular purposes.

The faculty members adopt outcome-based teaching-learning methods and prepare lesson plans which include course outcomes and course objectives. The University syllabus for each subject and paper is also provided to the students. The faculty engages in extra classes as and when necessary. There is optimum utilization of well-equipped laboratories and faculty members certify the laboratory records. The faculty uses charts and maps along with chalk and board. Study materials, notes and question banks are provided in the class. For online classes, technology is used for the delivery of lectures that enhances the learning capability of graduates during the pandemic. The tools used for online classes are Google meet, Zoom and Teams etc. The students are updated with information about their academic calendar.

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

**1.1.2 The institution adheres to the academic calendar including for the conduct of CIE****Response:**

Ideal Institute of Technology receives programme and semester wise academic calendar from JNTUK. As we are an affiliated institution, we follow the academic calendar prescribed by Jawaharlal Nehru Technological University Kakinada. The university academic calendar focuses on the date of commencement of the classwork, and a number of instructional weeks in relation to the mid-term syllabus including the mid-term examination schedule and semester-end examinations schedule.

The faculty strictly adhere to the academic calendar while preparing their teaching plans. The Internal Quality Assurance Cell (IQAC) and the Department Academic Committee (DAC) regularly monitor whether adherence to the teaching plan as per the academic calendar is being followed or not.

The institution strictly adheres to the academic calendar given by the university for the conduction of Continuous Internal Evaluation (CIE). Internal Assessment tests (IA) and assignments are part of the Continuous Internal Evaluation (CIE) of students. There is a well-defined process for the conduct of CIE as per the calendar. The course instructors prepare IA question papers based on the revised curriculum along with the scheme of evaluation, reviewed and approved by the Heads of the Departments. The internal assessment test timetable is issued by JNTUK and is conducted as per the schedule. Continuous evaluation and assessments are also done for laboratory courses, project work, seminars, and internships. Conduction of laboratory experiments and viva, Submission of records are the major components of laboratory course evaluation.

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

**1.1.3 Teachers of the Institution participate in following activities related to curriculum development and assessment of the affiliating University and/are represented on the following academic bodies during the last five years**

- 1. Academic council/BoS of Affiliating university**
- 2. Setting of question papers for UG/PG programs**
- 3. Design and Development of Curriculum for Add on/ certificate/ Diploma Courses**
- 4. Assessment /evaluation process of the affiliating University**

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

<b>File Description</b>	<b>Document</b>
Institutional data in prescribed format	<a href="#">View Document</a>
Details of participation of teachers in various bodies/activities provided as a response to the metric	<a href="#">View Document</a>

## 1.2 Academic Flexibility

### 1.2.1 Percentage of Programmes in which Choice Based Credit System (CBCS)/ elective course system has been implemented

**Response:** 100

#### 1.2.1.1 Number of Programmes in which CBCS/ Elective course system implemented.

**Response:** 05

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

### 1.2.2 Number of Add on /Certificate programs offered during the last five years

**Response:** 45

#### 1.2.2.1 How many Add on /Certificate programs are offered within the last 5 years.

2020-21	2019-20	2018-19	2017-18	2016-17
09	09	09	09	09

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>
Brochure or any other document relating to Add on /Certificate programs	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

### 1.2.3 Average percentage of students enrolled in Certificate/ Add-on programs as against the total number of students during the last five years

**Response:** 50.79

#### 1.2.3.1 Number of students enrolled in subject related Certificate or Add-on programs year wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
538	565	547	496	483

File Description	Document
Details of the students enrolled in Subjects related to certificate/Add-on programs	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

## 1.3 Curriculum Enrichment

### 1.3.1 Institution integrates crosscutting issues relevant to Professional Ethics ,Gender, Human Values ,Environment and Sustainability into the Curriculum

#### Response:

A professional with a strong sense of ethics and values of education can distinguish between right and wrong, and hence a better decision-making process. The curriculum is established, developed, and enhanced with the aim of integrating ardent issues with national and global implications for the long-term sustainability of future generations. Along with the Standard learning plan, the curriculum is enriched by including courses relevant to environmental sustainability, gender, Human Values, Professional Ethics and the constitution of India.

**Environmental and sustainability:** Environmental and sustainability courses are incorporated into the curriculum with the goal of helping students comprehend human life and the natural system. Non-Conventional Energy resources courses are introduced to Civil, Electrical and Mechanical Branches. Environmental courses are offered for Civil Engineering students on Waste Water Management, Solid Waste Disposal, Sewage Treatment Techniques etc. Programs are organized on special days like Environment Day, Earth Day, and Water Day. Students are involved in Energy Club to create awareness of the conservation of energy.

**Gender Sensitization:** The institute organizes special programs for girl students to achieve woman empowerment and gender sensitization and also, various awareness programs and events are organized on all national and international days of importance such as international Women's day, and World cancer day, World AIDS day etc. Programmes like "Awareness on Sexual Harassment at Work Place" was conducted.

**Human Values and Professional Ethics:** For a better society, engineering graduates should have strong human values and strong professional ethics. Values serve as individual supervisory notions and are an important component of self-concept. Human values are the characteristics that lead people to consider the human component when communicating with another human being. Professional engineers and consulting engineering firms control the quality of life of all people in society, as well as the quality of all sectors of the economy. In the course of their studies, students must take an obligatory course called "Human Values and Professional Ethics" in order to become altruistic and conscientious professionals. Tree planting, blood

donation camps, and disaster recovery programmes are organized as a part of the National Service Scheme (NSS)

**Constitution of India:** The constitution of India is incorporated into the curriculum with the goal of teaching students that the constitution embodies the ideals that India celebrates every day. Liberty, equality, fraternity, and secularism are among the principles that are embraced around the world, and the Indian Union is a testament to these values. Constitution day is celebrated every year to give awareness about the constitution of India.

File Description	Document
Upload the list and description of courses which address the Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum.	<a href="#">View Document</a>

### 1.3.2 Average percentage of courses that include experiential learning through project work/field work/internship during last five years

**Response:** 57.94

#### 1.3.2.1 Number of courses that include experiential learning through project work/field work/internship year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
208	194	196	187	176

File Description	Document
Minutes of the Boards of Studies/ Academic Council meetings with approvals for these courses	<a href="#">View Document</a>
Institutional data in prescribed format	<a href="#">View Document</a>

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

**Response:** 36.77

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

**Response:** 428

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

## 1.4 Feedback System

**1.4.1 Institution obtains feedback on the syllabus and its transaction at the institution from the following stakeholders 1) Students 2) Teachers 3) Employers 4) Alumni**

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

File Description	Document
Any additional information (Upload)	<a href="#">View Document</a>
Action taken report of the Institution on feedback report as stated in the minutes of the Governing Council, Syndicate, Board of Management (Upload)	<a href="#">View Document</a>
URL for stakeholder feedback report	<a href="#">View Document</a>

**1.4.2 Feedback process of the Institution may be classified as follows: Options:**

- 1. Feedback collected, analysed and action taken and feedback available on website**
- 2. Feedback collected, analysed and action has been taken**
- 3. Feedback collected and analysed**
- 4. Feedback collected**
- 5. Feedback not collected**

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

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

## Criterion 2 - Teaching-learning and Evaluation

### 2.1 Student Enrollment and Profile

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

**Response:** 90.13

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

2020-21	2019-20	2018-19	2017-18	2016-17
267	288	260	279	258

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

2020-21	2019-20	2018-19	2017-18	2016-17
300	300	300	300	300

#### File Description

#### Document

Institutional data in prescribed format

[View Document](#)

Any additional information

[View Document](#)

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

**Response:** 77.21

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

2020-21	2019-20	2018-19	2017-18	2016-17
150	148	148	138	117

#### File Description

#### Document

Institutional data in prescribed format

[View Document](#)

Any additional information

[View Document](#)

## 2.2 Catering to Student Diversity

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

#### **Response:**

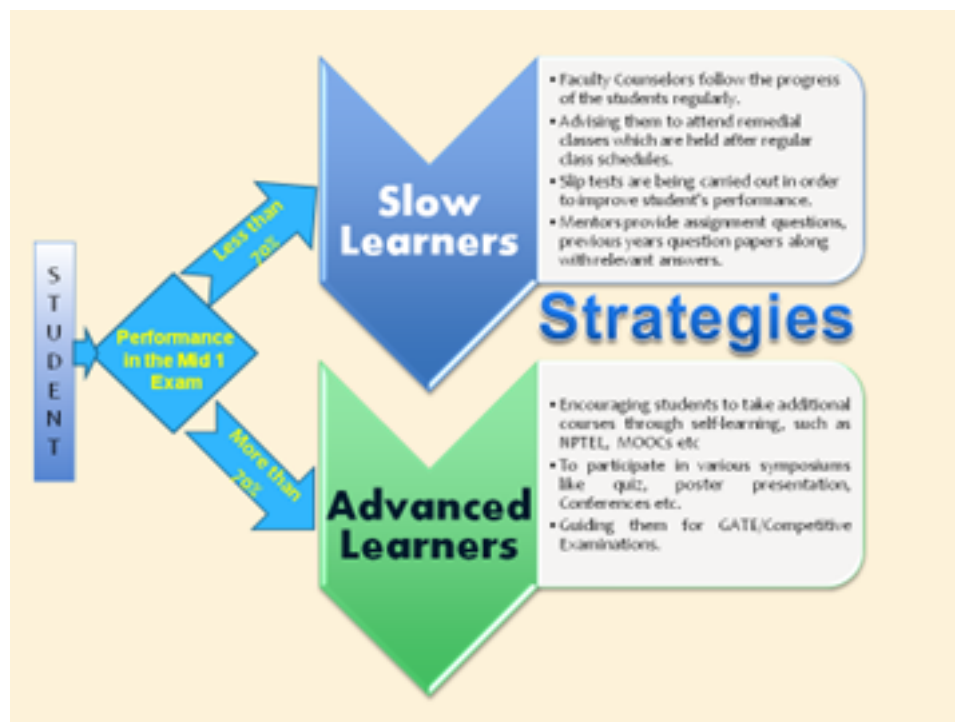
Ideal Institute of Technology provides quality education with a structured curriculum, as well as a solid foundation for the student's nourishment and overall development for strengthening their physical and intellectual abilities.

**Induction/ Orientation Programme:** The Principal will address the gathering comprising students, parents, guardians, faculty and the supporting staff. To bridge the gap between intermediate education and the foundation required for professional education a detailed orientation in Mathematics, Physics, and Chemistry is provided to the students.

**Counselling system:** As the freshers are new to the campus, mentors will nurture them in all aspects. The mentor-mentee association is much needed for the growth of the personalities of the students. The teaching faculty will act as the mentors/ Counselors who will be allotted 20 students. Counsellors keep a close eye on these students and keep their parents updated about their ward's performance.

**Learners:** The students are classified into two groups, Slow learners and Advanced learners based on their performance in the first mid examinations of the semester. The identification of weak and bright students is a continuous process.

**Slow Learners:** Students learning abilities are assessed in subsequent semesters through mid-term exams, assignments and classroom interactions. Prior to the first mid exams, special classes are conducted, such classes have a positive impact on the student's performance, simultaneously boosting their confidence levels by the end of the sessions. This is clearly reflected in the result analysis of final exams.



### STRATEGIES FOR SLOW LEARNERS

Identification Criteria	Actions taken
Students scoring less than 70% of marks in Internal Assessment.	<ol style="list-style-type: none"> <li>1. Faculty Counselors follow the progress of the students irregularly, advising them to attend remedial classes which are held after regular class schedules on specific days for each course.</li> <li>2. Slip tests are being carried out in order to improve students' performance.</li> <li>3. Mentors provide assignment questions and previous years' question papers along with relevant answers.</li> </ol>
Students who fail semester exams	Conduction of extra remedial classes

**Advanced Learners:** The students who distinguish themselves in academics by securing more than 70% marks come under the group of the Advanced Learners. Slow learners are thus given adequate attention and streamlined into the academic mainstream. Slow learners are thus given adequate attention and streamlined into the academic mainstream.

### STRATEGIES FOR ADVANCED LEARNERS

1. Semester toppers and university rank holders are honoured with Career books.
2. Bright and diligent students are motivated and inspired to get ranks at the university level.

3. Encouraging students to take additional courses through self-learning, such as NPTEL, MOOCs etc and to participate in various symposiums like quizzes, poster presentations, Conferences etc. and guiding them for GATE/Competitive Examinations.
4. Encourages them to participate in special training offered by APSSDC, ARC etc. on new Technologies such as IoT, AI & ML, and data sciences to improve their technical skills.

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

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

**Response:** 18.77

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

## 2.3 Teaching- Learning Process

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

**Response:**

The teaching-learning process is the main objective and strength of an Institute which provides an effective platform for students to enhance their modern skills, technical knowledge and ethics which help shape their behaviour. All departments conduct innovative programs which stimulate creativity in students thus providing them with a platform to nurture their problem-solving skills. The institute organizes an annual technical fest, where students showcase their learning in the form of innovative projects.

The Institute focuses on the student-centric methods of enhancing life-long learning skills. Faculty members make efforts in making the learning activity more interactive by adopting the following student-centric methods.

**1) Pedagogical initiatives:** Pedagogical initiatives are adopted to improve the quality of the teaching-learning process. Teaching-learning methods are used in addition to 'CHALK and TALK' and 'PPT' presentations.

- Experiential Learning
- Problem-based learning
- Learning Management System

**a) Experiential learning:** Each department conducts add-on programs to support students in their

experiential learning. The Institution imparts the following practices

- The curriculum provides laboratory courses to emphasize the concepts learnt in theoretical subjects.
- In every laboratory, at least one experiment in a virtual lab is introduced.
- Add-on Courses on the latest technologies with NPTEL, ICT-IITK, SAP, Coursera etc.
- Project development on the latest technologies.

**b) Problem-based learning:** In this type of learning, students participate in various activities such as Seminars, Group discussions, Poster presentations, Projects, and skill-based add on courses.

- The students solve the problem through mini projects and major projects. Selected projects are displayed on a larger platform.
- Quizzes are organized to participate at both intra and inter-college levels.
- Students develop technical skills by presenting papers in Seminars.
- Case studies.

**c) LMS (Learning Management System):**

- **Modern Tools:** Tools like Google meet, Zoom and Teams etc. are used for online classes, to enhance the learning capabilities. Faculty members share course plans, e-books, course materials, video lectures, question banks and other materials.

**2. E-Learning:** E-learning is a structured course or learning experience that is delivered electronically. The purpose of e-learning is to enable people to learn for personal fulfilment or to obtain a professional degree without physically attending any academic setting.

**Moodle and Self-Learning:** Moodle is used for creating personalized learning environments and faculty will upload syllabus, lesson plans, materials, PPTs, videos, Model question papers, assignment question papers, and also conduct online quizzes.

**3. Collaborative learning:** The college collaborates with industry and academic experts to arrange Guest Lectures/ Seminars/ Workshops.

- Students are encouraged to present technical papers at conferences and workshops and to participate in certification courses like Blue Prism Academia Program for Robotic Process, Eduskills Center of excellence, APSSDC, AWS training and certification course, Salesforce certification & training by Smart interns, Cloud computing training & Internship programme by Juniper Academy, Training & Certification courses offered by Microchip Services.
- Industrial visits are arranged for the students to observe the working methods and employment practices.
- Regularly Workshops/ Seminars/ Guest lectures are arranged for the students.

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

### 2.3.2 Teachers use ICT enabled tools for effective teaching-learning process.

#### Response:

IDEAL INSTITUTE OF TECHNOLOGY believes that students must be rendered competent, employable and relevant to the global needs. Teachers use the conventional chalk and talk method, PowerPoint presentation, animation and video lectures to introduce the concept, principles and procedure, functionality and relevant applications to inculcate interest among learners with real-time examples. Teachers use NPTEL lectures, and other E-learning resources such as Udemy, Coursera, and MOOC LIST. Teachers also use the LMS resources like Moodle open-source learning platform and also Target Portal developed by the Technical Hub team for conducting tests on courses, Workshop assessment tests, placement training tests

In addition to using the conventional teaching methodologies, innovative teaching technologies are vigorously used in every department. LCD projectors are used to give interactive lectures and present PPTs. The faculty uses different teaching methods such as group discussions, and PowerPoint presentations to facilitate a better understanding of the concepts. A unit is divided into topics and they are numbered. After the unit is over, the student is given a topic randomly and asked to deliver a seminar on it.

The faculty guide students on current innovations. The college conducts workshops seminars guest lectures by experienced people to enhance the student's overall knowledge and learning experience. The notes prepared by the lectures and subject materials are shared with the students.

The senior members of the faculty interact with new recruits and brief them on the teaching materials followed in the college. They also help them to get acquainted with question paper setting and other related matters. The college deposes faculty to different orientation classes involving a teaching-learning process to better their skills in teaching. The internal assessment of the student is a continuous process, done through assignments, seminars, debates and discussions. Along with academics, the students are encouraged to co-curriculum and extra-curricular activities.

Usage of an online coding platform for computer programming laboratories. Digital Library for 24x7 access to online books, journals, magazines and other learning resources through electronic resources from platforms like DELNET, NPTEL, SWAYAM, COURSERA, Digital Library for updating themselves with the state of the art technologies. MS Teams and Google classrooms are also used as online classrooms.

These platforms facilitate sharing the learning materials, resources, quizzes and assignments with the students. Wi-Fi enabled campus with 100Mbbs bandwidth. Roof-mounted LCD projectors, interactive projectors and interactive classrooms.

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

### 2.3.3 Ratio of students to mentor for academic and other related issues (Data for the latest completed academic year )

**Response:** 22:1

**2.3.3.1 Number of mentors ?????????????? ???????**

Response: 54

File Description	Document
Upload year wise, number of students enrolled and full time teachers on roll.	<a href="#">View Document</a>

## 2.4 Teacher Profile and Quality

**2.4.1 Average percentage of full time teachers against sanctioned posts during the last five years**

**Response:** 322.19

File Description	Document
List of the faculty members authenticated by the Head of HEI	<a href="#">View Document</a>
Institutional data in prescribed format	<a href="#">View Document</a>

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

**Response:** 10.3

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

2020-21	2019-20	2018-19	2017-18	2016-17
06	06	04	06	06

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

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

**Response:** 4.97

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

Response: 308

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

**2.5 Evaluation Process and Reforms****2.5.1 Mechanism of internal assessment is transparent and robust in terms of frequency and mode****Response:**

Ideal Institute of Technology is affiliated with JNTUK and follows the evaluation guidelines of the university. The academic calendar is available on the college website and on noticeboards of every Department. This helps the students to know about the exam dates well in advance and provides them ample time to plan their studies. Students are made aware of various parameters of the Internal Evaluation system. The internal marks are based on the mid tests and assignments.

As per the JNTUK regulations, two internal mid-term examinations will be conducted. As per R13 regulation, better performance in either of the examinations is considered for internal marks and as per R16 and R19 regulations, best performance will carry 80% and the other one carries 20% of weightage in the total internal mid marks. Each Mid-term consists of an objective, descriptive assignment. The objective test is an automated online exam conducted by the university. After the evaluation process by the concerned faculty, the answer scripts are shown to the students to rule out any disparities.

The lab exams are internally and externally assessed. Internal assessment includes the parameters like day to day evaluation in the lab, internal practical examination and maintenance of records. Marks in each midterm exam are displayed on the notice boards and the result is communicated to the parents.

Project and Seminar evaluations are done based on the rubrics defined by considering various parameters. The rubrics are informed well in advance to students at the beginning of the semester. Seminars and projects are also transparently assessed. The faculty evaluates the presentation skills of the students during seminars. Departmental level Project Review Committee (PRC) is constituted along with the head of the department, senior faculty and respective guides. Periodical project reviews are conducted for continual assessment of the progress made by the students. The evaluation and remarks of the review proceedings are shared with the respective batches. This practice promotes transparency as well as gives input to the students for their improvisation. After the evaluation, the marks are displayed on the notice boards for verification.

The Internal Quality Assurance Cell (IQAC) plays a crucial role in maintaining quality and transparency by conducting the exams and internal assessments justly. Any variance is immediately brought to the notice of the Officer-In-Charge of Examinations.

### **2.5.2 Mechanism to deal with internal examination related grievances is transparent, time- bound and efficient**

#### **Response:**

Ideal Institute of Technology is affiliated with JNTUK, the rules and regulations for the evaluation process are laid down by the affiliating University and are communicated to students. The schedules of internal assessments are communicated to students and faculty at the beginning of the semester. Schedule for end semester examinations will be communicated during the semester as and when the schedule is released by the University.

As part of Internal Examinations, internal assignments and mid examinations are conducted. The examinations are conducted with the utmost care given to transparency and fairness. After every Mid Exam, the answer scripts are evaluated based on the evaluation scheme prepared by the concerned subject teachers. The question paper of exams is also discussed by the respective subject teachers in the classroom after the completion of Internals. The valued scripts are shown to students to maintain transparency in the evaluation process. After preparing the assessment report it is shown to the students, if any grievances are there they can be resolved immediately and submitted by the concerned faculty to the department. The institute follows a transparent assessment system by displaying the students' performance on the respective departmental notice boards. If the student is still dissatisfied, he/she can represent his/her grievance to the Principal for necessary action. The final average marks are submitted through the online portal of the University at the end of the semester, and the same is acknowledged by the students, subject faculty, HODs and Principal.

Any grievances related to university question papers like syllabus repeated questions, the improper split of marks, marks missed, or wrong question numbers during semester exams are addressed to the principal, after making an analysis of day by day university question papers by the subject handling faculties with Department Head, in turn, he proceeds the same to the university immediately. Students' grievances are addressed at the earliest for the betterment of the student with active involvement and support of the Examination Cell Officer In-charge of the institution. Also, The Examination Cell Officer In-charge brings notable grievances immediately to the notice of the Chief Superintendent for necessary action.

## **2.6 Student Performance and Learning Outcomes**

### **2.6.1 Teachers and students are aware of the stated Programme and course outcomes of the Programmes offered by the institution.**

#### **Response:**

The primary objective of our educational institute is to make sure that Outcome-Based Education is implemented at each and every stage of the faculty-student interactions, as it directly impacts the quality of education provided by the institute. On the receiving end, it is of utmost importance to the students as observed by our institute.

We receive our academic curriculum from JNTUK, Kakinada (our institute is affiliated with JNTUK, Kakinada) and is immediately studied thoroughly by our IQAC and it identifies course outcomes each time a new regulation is released (at present we are following R16 for IV Year, R19 for III Year and R20 for II and I Years). Then it is checked whether they are meeting with Programme Educational Objectives and Programme Specific Objectives of each department.

The course outcomes are displayed on our website, Notice boards and are conveyed to the students directly by the subject experts whenever they take classes. These are also listed in laboratory manuals. The faculty are reminded by the HoDs from time to time to implement the OBE in their regular classwork and laboratory experiments. During laboratory classes outcomes of all experiments are explained to the students.

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

#### **Response:**

In our institute we prepare course files, conduct internal exams and give assignments keeping in view of COs. COs and POs show the knowledge student gained and indicate how much employable he is. Internal marks are evaluated for 30% and externals are evaluated for 70% of the total marks. In the internals, two mid exams and two assignments are included. If POs and COs are not met in the prescribed syllabus, then the assignments are used to fill the gaps.

COs and POs are evaluated twice a semester and we follow a continuous assessment scheme. Faculty checks every weekend the content delivered and attainment of COs. At the end of the semester, all the theory and laboratory exam question papers are analyzed and CO and PO attainment is checked to compare with results in the examinations obtained by the students. A number of additional problems are solved, theoretical concepts are explained and videos related to the latest technological advancements in industries are shown to the students so that at the end of the B.Tech course student will be industry-ready.

Question papers for mid-semester exams are prepared to keep in view of COs of the concerned subject and during valuation, it is checked how many students are able to meet the requirements. Assignments are given and questions are asked to the students from time to time during teaching sessions. These are utilized for assessing students' performance and to what extent the COs are met. We conduct seminars to assess the student's analytical skills in each subject once a month. We observe their knowledge level and suggest how they have to improve themselves.

Questions related to course outcomes of each subject are collected from students and are circulated among students and faculty. The faculty conducts a question and answer sessions from this information and the students are assessed where they stand in Bloom's Taxonomy knowledge levels. Creative question-solving sessions are conducted in the class where students have to answer from various textbooks up to application level.

### **2.6.3 Average pass percentage of Students during last five years**

**Response:** 85.29

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

2020-21	2019-20	2018-19	2017-18	2016-17
255	251	161	139	165

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

2020-21	2019-20	2018-19	2017-18	2016-17
296	301	197	159	188

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

**2.7 Student Satisfaction Survey****2.7.1 Online student satisfaction survey regarding teaching learning process****Response:** 3.96

<b>File Description</b>	<b>Document</b>
Upload database of all currently enrolled students (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: 0.5

##### 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)

2020-21	2019-20	2018-19	2017-18	2016-17
0.50	00	00	00	00

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>
e-copies of the grant award letters for sponsored research projects / endowments	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

#### 3.1.2 Percentage of departments having Research projects funded by government and non government agencies during the last five years

Response: 8

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

2020-21	2019-20	2018-19	2017-18	2016-17
02	00	00	00	00

##### 3.1.2.2 Number of departments offering academic programmes

2020-21	2019-20	2018-19	2017-18	2016-17
05	05	05	05	05

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

### 3.1.3 Number of Seminars/conferences/workshops conducted by the institution during the last five years

**Response:** 32

#### 3.1.3.1 Total number of Seminars/conferences/workshops conducted by the institution year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
02	08	13	03	06

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

## 3.2 Research Publications and Awards

### 3.2.1 Number of papers published per teacher in the Journals notified on UGC website during the last five years

**Response:** 1.64

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

2020-21	2019-20	2018-19	2017-18	2016-17
50	35	01	03	03

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

### 3.2.2 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:** 1.39

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

2020-21	2019-20	2018-19	2017-18	2016-17
40	32	02	02	02

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

### 3.3 Extension Activities

#### 3.3.1 Extension activities are carried out in the neighborhood community, sensitizing students to social issues, for their holistic development, and impact thereof during the last five years.

**Response:**

The Ideal Institute of Technology promotes institution-neighbourhood community network and student engagement, contributing to good citizenship, service orientation towards society and holistic development of students.

The Ideal Institute of Technology promotes social responsibilities and citizenship roles in the students with continuous interface with the community through extension activities.

The Ideal Institute of Technology encourages all the faculty and students to recognize the importance of providing their services in rural areas. The Ideal Institution takes up several co-curricular and extension activities/ programs to promote social responsibilities and to inculcate good citizenship roles in the students such as:

- Campaigning on health and Dental hygiene
- Corona Awareness walk
- AIDS awareness programmes
- Pulse polio immunization programmes
- Swatch Bharat program
- Blood donation camps
- Vanam- Manam (Seedlings Plantation at different locations)
- Fire safety awareness
- Emotional support to COVID patients

- Created awareness of Hepatitis and Anaemia by distributing Leaflets to the village people.

The Ideal Institute of Technology promotes an institution-neighbourhood network by taking initiative and responding to the local and social needs of the community. The Ideal institution maintains an excellent rapport with the neighbourhood and also has very good networking with community stakeholders like Counsellors, ward members, Community Based Organizations, Govt servants. All the activities are organized in consultation and with the active participation of the community for “Sustained Development.”

This Ideal Institution-neighbourhood network helps:

- Students, teachers, and the community share ideas, knowledge, resources and experiences to create healthier communities.
- Community and teacher interaction provides an opportunity for the student to learn various methods in research and development of knowledge.
- The faculty and students utilize the community as a source of teaching-learning material.

The Ideal Institute of Technology ensures the participation of all the students and faculty in extension activities through the following strategies:

- The institute is actively involved in programs such as social work, health and hygiene awareness, AIDS awareness, environmental awareness, Swatch Bharat, etc.
- As part of the co-curricular and extracurricular activities of the students, the ideal institute of technology organizes the following extension activities in the neighbouring areas.
  - Sensitizing the community on health and health awareness promotion activities. Adoption of villages for sustainable and holistic development.
  - Awareness programs on all national health and other programs. Educating rural people about the health hazards of alcoholism, tobacco chewing, smoking, corona, AIDS, etc.

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

### 3.3.2 Number of awards and recognitions received for extension activities from government/ government recognised bodies during the last five years

**Response:** 0

#### 3.3.2.1 Total number of awards and recognition received for extension activities from Government/ Government recognised bodies year-wise during the last five years.

2020-21	2019-20	2018-19	2017-18	2016-17
00	00	00	00	00

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>
e-copy of the award letters	<a href="#">View Document</a>

### 3.3.3 Number of extension and outreach programs conducted by the institution through NSS/NCC, Government and Government recognised bodies during the last five years

**Response:** 25

#### 3.3.3.1 Number of extension and outreach programs conducted by the institution through NSS/NCC, Government and Government recognised bodies during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
09	04	04	05	03

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

### 3.3.4 Average percentage of students participating in extension activities at 3.3.3. above during last five years

**Response:** 29.09

#### 3.3.4.1 Total number of Students participating in extension activities conducted in collaboration with industry, community and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
521	358	264	282	137

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

## 3.4 Collaboration

**3.4.1 The Institution has several collaborations/linkages for Faculty exchange, Student exchange, Internship, Field trip, On-job training, research etc during the last five years****Response:** 50**3.4.1.1 Number of linkages for faculty exchange, student exchange, internship, field trip, on-job training, research etc year-wise during the last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
10	10	10	10	10

**File Description****Document**

Institutional data in prescribed format

[View Document](#)**3.4.2 Number of functional MoUs with national and international institutions, universities, industries, corporate houses etc. during the last five years****Response:** 43**3.4.2.1 Number of functional MoUs with Institutions of national, international importance, other universities, industries, corporate houses etc. year-wise during the last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
9	8	8	8	10

**File Description****Document**

Institutional data in prescribed format(Data template)

[View Document](#)

e-Copies of the MoUs with institution./ industry/ corporate houses

[View Document](#)

## Criterion 4 - Infrastructure and Learning Resources

### 4.1 Physical Facilities

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

**Response:**

Ideal Institute of Technology offers UG programs and it provides good infrastructure for all programs to conduct curriculum activities and their facilities. The college is spread over 2.88 acres with the Main building for academic activities and administrative works. The institution has an adequate number of comfortable classrooms and Laboratories as per norms of statutory bodies: JNTUK and AICTE. It also has a Separate Examination branch, Placement cell and Accounts Section. There are 20 classrooms and 4 tutorials, 2 e-classrooms, 42 laboratories, 2 drawing halls, a central library, 2 seminar halls and an auditorium. All the classrooms, seminar halls and an auditorium are equipped with fixed and movable projectors. Wi-Fi is provided for the entire campus. All the laboratories were reinstalled with the latest apparatus and equipment to perform experiments according to the syllabus. All the labs have lab manuals. Exclusive Engineering workshops and Engineering drawing halls are available. Sufficient safety measurements have been incorporated and are displayed in all the laboratories. To improve communication skills, the institution provides an English language lab with software along with recording and presentation facilities. For every department, computer laboratories are provided with the required software for running experiments. The laboratories are kept open beyond the working hours depending on the needs of the staff and students.

The institution has a central library with working hours from 09:00 am to 06:00 pm and every department provides a departmental library facility. To enhance the knowledge of students and faculty, the central library has enormous collections of textbooks, journals and magazines. NPTEL lectures like videos and texts can be accessed through the central library. The institution provides a digital library facility where students and faculty can access e-journals, online books and materials. All the departments have been provided with LCD projectors for supporting the teaching-learning process and, they have well-furnished separate cubicles for the faculty members with good ventilation. Every department has a separate HoD room and a department library. LAN connections for the Internet facility are provided in the departments, in addition to this, Wi-Fi is enabled for the entire campus. The institution has an auditorium and seminar halls for conducting various student development and faculty development programs. The institution also has an open stage for conducting outdoor gatherings. A/C Conference Hall is also available for conducting Staff Meetings and Board Meetings. Moreover, the Institute building has a generator and UPS for good power backup.

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

**4.1.2 The Institution has adequate facilities for cultural activities, sports, games (indoor, outdoor), gymnasium, yoga centre etc.**

**Response:****Sports & Game Facilities:**

Participation in Games & Sports is mandatory for all the students. The Institute encourages the students to take part in Inter-collegiate, District and Inter-University Tournaments. The department organizes intra-departmental competitions in various games and sports for boys and girls.

The institution has a fully qualified and competent Physical Director to train the students to participate in events conducted by the State/University. The institution has numerous sports facilities. A well-equipped gymnasium is available. Indoor game facilities are provided for Table Tennis, Caroms and Chess. Outdoor sports facilities are provided for Athletic track, Badminton, Cricket, Kho-Kho, Kabaddi, Volleyball, Basketball, Tennikoit, Throwball and Handball Facilities are also provided for field events like Javelin throw, Shot-put, Discus throw, long jump and High jump.

**Cultural Activities:**

The students participate in the various cultural events organized during the college cultural fest. They are also encouraged to take part in competitions organized in other colleges and universities Cultural activities are frequently conducted in the institution to develop soft skills like resource management, public speaking and leadership qualities among students. Students are encouraged for participating in NSS activities like Blood donation camps and Social Awareness activities.

**Co-curricular activities:**

Every Department conducts seminars, workshops and technical contests in areas concerning their programs to strengthen the theoretical and practical knowledge of the students. There are also student members in the respective professional societies and these societies promote technical activities and students' participation. The institution facilitates these activities for the benefit of students. Seminar halls, classrooms and other amenities are made available by the respective faculty coordinator. The planning and conduct of the activities are also supervised by the coordinators along with the student members. The institution is equipped with facilities such as lifts, and washrooms and, it also provides facilities for disabled people. Each floor is facilitated with RO Purified water/cooler for students and staff members. The institution has separate common rooms for boys and girls. However, the campus is under the surveillance of CCTV cameras all the time.

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

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

**Response:** 58.33

##### **4.1.3.1 Number of classrooms and seminar halls with ICT facilities**

Response: 14	
File Description	Document
Institutional data in prescribed format(Data template)	<a href="#">View Document</a>
Paste link for additional information	<a href="#">View Document</a>

#### 4.1.4 Average percentage of expenditure, excluding salary for infrastructure augmentation during last five years(INR in Lakhs)

**Response:** 50.64

##### 4.1.4.1 Expenditure for infrastructure augmentation, excluding salary year-wise during last five years (INR in lakhs)

2020-21	2019-20	2018-19	2017-18	2016-17
24.5	38.40	18	170.74	128.8

File Description	Document
Upload audited utilization statements	<a href="#">View Document</a>
Institutional data in prescribed format(Data template)	<a href="#">View Document</a>

## 4.2 Library as a Learning Resource

### 4.2.1 Library is automated using Integrated Library Management System (ILMS)

**Response:**

Library functions as an essential integral component in Higher Education System. The library is the nerve centre of Higher Education and Learning and plays a vital role in support of all the activities such as teaching, research and publications. The main object of the library is to cater the right information to the right user at the right time for the faculty, scholars and students.

The Department of Library and Information Science in Ideal Institute of Technology was started in 2009 in the area of 424 sq. Mt with five sections such as Reference Section, Reading Section, Periodical Section, Circulation Section and Digital Library Section with a seating capacity of one hundred and fifty users. The Library has a total collection of more than 16000 volumes with 2600 Titles, nearly 45 International and National Journals, 15 Magazines and 6 News Papers, e-books and e-journals.

The Library is greatly supporting the students appearing for various competitive Examinations by providing General collections such as GATE, GRE, TOEFL, CAT, MAT, GMAT, CIVILS, GROUPS and

all other competitive books kept in the Reference Section. The Library is open from 09.00 A.M. to 06.00 P.M on all working days. The Library follows the OPEN ACCESS SYSTEM and the users have the freedom to browse the books kept on the shelves and select them of their choice. The Digital Library has 1100 NPTEL and Subject Related CDs and DVDs. The Digital library also has the E-Resources of J-GATE, DELNET AND NDLI (CLUB MEMBER) for E-Journals and E-books.

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

#### 4.2.2 The institution has subscription for the following e-resources

- 1.e-journals
- 2.e-ShodhSindhu
- 3.Shodhganga Membership
- 4.e-books
- 5.Databases
- 6.Remote access to e-resources

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

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

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

**Response:** 1.66

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

2020-21	2019-20	2018-19	2017-18	2016-17
6.37	1.17	0.13	0.53	0.12

File Description	Document
Institutional data in prescribed format(Data template)	<a href="#">View Document</a>
Audited statements of accounts	<a href="#">View Document</a>

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

**Response:** 22.84

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

Response: 280

File Description	Document
Details of library usage by teachers and students	<a href="#">View Document</a>

### 4.3 IT Infrastructure

#### 4.3.1 Institution frequently updates its IT facilities including Wi-Fi

**Response:**

Ideal Institute of Technology, Kakinada was established in the year 2009 with an aim of bringing quality engineering education closer to both rural and rural area students. The institution has 240 systems which cater to the needs of students. Computer systems are upgraded with the latest configuration wherever it is required. All the computer systems on the campus are regularly monitored by the system administrator and maintenance staff. Problems experienced by the computers in the office and various laboratories are solved by the laboratory programmers/technicians. The maintenance staff will then go to the respective laboratories to identify the problems and resolves the same at the respective places.

The entire campus is Wi-Fi enabled. The institution has been providing a Wi-Fi facility since 2009 with 80 Mbps bandwidth across the college. The service is provided by City-online, Excel broadband and Jio companies. The institution has a digital library where the students can access e-Journals, publications and access data for their knowledge enhancement.

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

#### 4.3.2 Student - Computer ratio (Data for the latest completed academic year)

**Response:** 5:1

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Student – computer ratio	<a href="#">View Document</a>

#### 4.3.3 Bandwidth of internet connection in the Institution

**Response:** A. 750 MBPS

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

### 4.4 Maintenance of Campus Infrastructure

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

**Response:** 31.43

**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)**

2020-21	2019-20	2018-19	2017-18	2016-17
62.61	15.17	136.08	14.85	17.94

File Description	Document
Institutional data in prescribed format(Data template)	<a href="#">View Document</a>
Audited statements of accounts	<a href="#">View Document</a>

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

**Response:**

Ideal Institute of Technology has clear policies and procedures for managing all resources like classrooms, laboratories, seminar halls, workshops, staff rooms, libraries and sports facilities with skilled personnel. IT components like computers, laptops, projectors and servers are managed by hardware

technicians. General maintenance is taken care of by the establishment officer, Supervisor and other supporting staff who are specialized in civil, electrical, air conditioning, horticulture, etc. are supervised by the establishment officer. The team oversees the cleanliness of the buildings, classrooms, labs, furniture, seminar halls, conference hall, campus ground, sports facilities, staff, students, amenity areas, canteen etc. They supervise the maintenance of sewerage treatment, rainwater harvesting pits, elevators, water coolers, water purifiers, fire safety, pest control etc. Regular visits on a periodical basis are conducted by the team head and based on the site conditions, renovations are proposed for works such as civil work, electrical work, painting, furniture etc. The institution has a separate computer centre to examine the maintenance of computers and related accessories. The team is headed by a coordinator (faculty) from the computer science and engineering department and supporting staff.

The maintenance works include replacement or repair of computers and accessories, hardware up-gradation, software installation, Wi-Fi maintenance and troubleshooting issues etc. The periodical examination is made by the supporting staff of all the departments and the status of computers and associated equipment are sent to the computer centre every month for necessary action. The institution treats the library as the main knowledge centre. Procurement of books, journals, magazines, and digital resources is a continuous activity at the institute. To inculcate the habit of visiting the library and spending time with books, library hour is introduced in the timetable. Many well-wishers donate books to the Ideal Institute of Technology Library; rare books and manuscripts that attract curious students and faculty are there in the library. The Institute library has its dedicated human resource and the departmental libraries are taken care of by the department office assistant and a faculty In-charge of the concerned department.

All the departments take care of the timely maintenance of the laboratory equipment. Most of the maintenance work is completed during summer break and close monitoring of maintenance activities is a prime responsibility of the head of the departments. Extra lab hours and remedial laboratory sessions ensure that students develop a practical bent of mind. Sports activities and extracurricular activities are conducted regularly with vigour to keep the students physically fit and mentally alert. The laboratory equipment is maintained and calibrated by professional engineers to ensure the accuracy of experiments. A dedicated maintenance team is deputed to undertake this. Computer centres are equipped with state-of-the-art hardware and software facilities. A separate computer maintenance team and IT Support team handle the college/departmental requirements., minor software and hardware problems are being handled by the concerned lab technicians. Sports play an important role in shaping one's personality and good health.

The institute provides all the sports facilities for students. The necessary equipment is provided in the college to play all the major games. The college has spacious ground which supports playing all types of games. Ground gardening is maintained by a skilled person twice a month. Moreover, all these are taken care of by the physical director of the Institute. Canteen maintenance is done by the housekeeping workers. Food safety measurements are taken to keep it hygienic. The floor of the canteen, tables, cutlery, and utensils are always maintained neatly. All the waste material and leftovers of food are converted to compost. However, waste management is done properly and regularly to maintain the surroundings clean.

## Criterion 5 - Student Support and Progression

### 5.1 Student Support

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

Response: 66.1

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

2020-21	2019-20	2018-19	2017-18	2016-17
678	726	753	699	572

#### File Description

Institutional data in prescribed format

#### Document

[View Document](#)

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

Response: 4.76

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

2020-21	2019-20	2018-19	2017-18	2016-17
45	33	42	53	65

#### File Description

Institutional data in prescribed format

#### Document

[View Document](#)

#### 5.1.3 Capacity building and skills enhancement initiatives taken by the institution include the following

##### 1. Soft skills

2. Language and communication skills
3. Life skills (Yoga, physical fitness, health and hygiene)
4. ICT/computing skills

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

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

#### 5.1.4 Average percentage of students benefitted by guidance for competitive examinations and career counselling offered by the Institution during the last five years

**Response:** 44.36

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

2020-21	2019-20	2018-19	2017-18	2016-17
568	580	489	356	347

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

#### 5.1.5 The Institution has a transparent mechanism for timely redressal of student grievances including sexual harassment and ragging cases

1. Implementation of guidelines of statutory/regulatory bodies
2. Organisation wide awareness and undertakings on policies with zero tolerance
3. Mechanisms for submission of online/offline students' grievances
4. Timely redressal of the grievances through appropriate committees

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

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Minutes of the meetings of student redressal committee, prevention of sexual harassment committee and Anti Ragging committee	<a href="#">View Document</a>
Details of student grievances including sexual harassment and ragging cases	<a href="#">View Document</a>

## 5.2 Student Progression

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

**Response:** 55.45

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

2020-21	2019-20	2018-19	2017-18	2016-17
207	125	160	82	62

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

### 5.2.2 Average percentage of students progressing to higher education during the last five years

**Response:** 23.65

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

Response: 70

File Description	Document
Upload supporting data for student/alumni	<a href="#">View Document</a>
Institutional data in prescribed format	<a href="#">View Document</a>

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

**Response:** 70.87

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

2020-21	2019-20	2018-19	2017-18	2016-17
26	14	21	05	06

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

2020-21	2019-20	2018-19	2017-18	2016-17
28	16	27	12	11

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

### 5.3 Student Participation and Activities

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

**Response:** 44

**5.3.1.1 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) year-wise during the last five years.**

2020-21	2019-20	2018-19	2017-18	2016-17
13	9	8	11	3

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>
e-copies of award letters and certificates	<a href="#">View Document</a>

### **5.3.2 Institution facilitates students' representation and engagement in various administrative, co-curricular and extracurricular activities (student council/ students representation on various bodies as per established processes and norms )**

#### **Response:**

Ideal Institute of Technology creates a platform for students to actively participate in numerous committees such as academic and administrative bodies, as well as other activities.

With the help of faculty members, students are coordinating and arrange numerous academic, co-curricular, and extracurricular activities in order to improve leadership skills, knowledge, and abilities in specific fields. The Institute has established a number of committees to help students improve their role by raising understanding of institutional policies, and social obligations, and assisting them in achieving their short- and long-term goals.

Apart from the student council, our students successfully participated in and organised a national level technical fest with faculty coordinators such as Pragnaan 2016,2017,2018,2k19,2k20 and cultural, and administrative events on the campus. These activities assist students in expanding their technical knowledge and improving their performance.

The college physical Education department has been conducting games and sports like Cricket, Kabaddi, Kho-Kho, Volleyball, Tennicoit, Chess, Caroms, Athletic competitions, etc., The students take the initiative to involve in games, sports and utilise Gym facility for the development of physical fitness. The students participated in university-level games and bagged different awards and prizes along with merit certificates from the university.

The Institution has the following committees:

- Student representation in Anti Ragging Committee
- Student representation in Grievance Redressal Committee
- Student representation in Sports Committee
- Student representation in Alumni Committee
- Student representation in Transport Committee
- Student representation in Extracurricular activities Committee
- Student representation in SC-ST Committee
- Student representation in the Disciplinary and Code of Conduct Committee
- Student representation in Women Empowerment Committee
- Student representation in Campus facilities and Maintenance Committee
- Student representation in Minority Committee
- Student representation in Student Counselling Committee
- Student representation in Grievances/Suggestions Box Committee
- Student representation in National Service Scheme(NSS) Committee
- Student representation in the Entrepreneurship and Development Committee
- Student representation in Placement Cell Committee
- Student representation in Women Protection Committee
- Student representation in College hostel Committee
- Student representation in OBC Committee

**5.3.3 Average number of sports and cultural events/competitions in which students of the Institution participated during last five years (organised by the institution/other institutions)****Response:** 5.2**5.3.3.1 Number of sports and cultural events/competitions in which students of the Institution participated year-wise during last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
02	07	05	05	07

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Institutional data in 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:**

The Ideal Institute of Technology Alumni Association (IITAA) has been active on the campus since 2013, with a registered number of 120 students. The Association's major goal is to keep the relationship between Campus and Alumni alive by allowing them to share information about their professional accomplishments. The Ideal Institute of Technology Alumni Association is a student-run organisation that works on a student career area that gives information, skill development and nourishing skills in the academic realm. Alumni students created a portal for their juniors to find jobs in their field of study.

Every year, the IITAA members gather for an annual get-together and also outstation alumni who choose to attend are invited, during the visit all of the alumni presents are taken on a tour of the campus. When alumni return to their hometown, they are welcomed to visit the Ideal Institute of Technology campus.

Alumni are welcomed by the department faculty, who can offer their valuable professional expertise to the students. For any assistance, students are free to contact the Principals/HODs and the Alumni Association, Coordinator. Alumni assist final-year students with project work and provide job possibilities in their respective organisations both in India and abroad. IITAA is hosting guest lectures by well-known alumni to expose students to cutting-edge technology, research and development, and entrepreneurship.

In their different fields, the Alumni held numerous lectures on new approaches, innovative talents, and information. Students' recognition of engineering elements improves as a result of this. Alumni students

play an important role in the institution's growth. They raise awareness about the latest technology and its application in each dimension.

The Alumni public to give their willingness to work on their delicate and proficient abilities. They help to lead proficient preparation segments and modern visits. They likewise give knowledge about the current circumstances in the market connecting with business, Start-ups and so on, so understudies can take suitable choices

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

#### 5.4.2 Alumni contribution during the last five years (INR in lakhs)

**Response:** A. ? 5 Lakhs

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

## Criterion 6 - Governance, Leadership and Management

### 6.1 Institutional Vision and Leadership

#### 6.1.1 The governance of the institution is reflective of and in tune with the vision and mission of the institution

**Response:**

**Vision:**

To emerge as a premier institution for technical education through academic excellence and to be recognized as a centre for excellence in research & development, catering to the needs of our country.

**Mission:**

- To realize a strong institution by consistently maintaining state-of-art-infrastructure
- Building a cohesive, world-class team
- Provide need-based technical education, research and development through enhanced industry interaction.

**Reflection of vision and mission in Governance:**

The team of Ideal Institute of Technology abides by the vision and mission of the institution. The head of the Institution looks into the day-to-day activities of the college and closely monitors its functionality.

- The Principal ensures that proper discipline is maintained in the institution and encourages students to be regular and punctual.
- The faculty ensures that on-time and quality content is imparted to students and gives priority to value-based education.
- The admin team is very supportive and extends cooperation in all aspects.

**Reflection of vision and mission in Perspective plans:**

- The Governing Body of Ideal Institute of Technology follows a clear cut perspective plan providing the goals, policies and strategies that have to be followed by the institution and the Principal implements all of those decisions for the institution's development and day-to-day operations.
- The HODs follow the academic plan and make sure that the faculty are on par with the curriculum which is assured by constant communication and cooperation among the members of each department.
- The faculty show their dedication to making the student job ready right from the early semesters. Apart from maintaining quality in teaching, they are also keen on inculcating values and ethics among students thus reflecting the vision and mission of our Institute.
- The Management also plays a key role by providing a good strategic plan and all the support and necessary facilities needed for the smooth and successful running of the Institution and leaves no stone unturned.

**Reflection of vision and mission in teaching fraternity:**

Our teachers have been actively participating in various committees including Academics, Finance, Library, Training and Placement, IQAC, Anti-ragging, Grievances, Sports and NSS etc. During the meetings conducted by each committee, the teachers address the issues of concern and give their suggestions regarding the same. They also contribute innovative ideas and trends that will enhance the quality of the teaching-learning process. These suggestions are then penned down and reviewed by the Principal, Management and Governing Body. Promising and feasible ideas are approved and then included in the strategic plan of the Institution.

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

#### **Response:**

The institution defines decentralization as working through delegation of authority. Personnel at different levels implement the decisions. The delegation of authority can be organized in the form of a pyramid.

Top-level managers are responsible for controlling and overseeing the entire institution. It includes the Chairman, Governing Council, and Principal. The Governing Council assists the Chairman with regard to broad guidelines, policies and frameworks for the improvement of the quality of education in the institution. The management through the Principal involves the faculty members in various activities related to the development of the Institute. The Principal heads the academic and administrative activities of the Institute. He forms various committees and appoints their members.

Mid-level managers act as an intermediary between top-level management and low-level management. It includes Heads Of the Departments, librarians, and Physical Education directors. They help in the execution of institutional plans.

Low-level Managers include faculty, non-teaching staff and others. They help the middle-level managers by coordinating the activities delegated to them.

The college does promote a culture of participative management In all academic and non-academic activities, the college is following participative management. The Institute follows a committee system for the implementation of all its decisions. The IQAC has initiated the formation of a Research and development council in the institution. There is at least one representative from each department.

## **6.2 Strategy Development and Deployment**

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

#### **Response:**

Ideal Institute of Technology has prepared a strategic plan for the improvement in the areas of

1. Teaching-learning process

2. Academic infrastructure facilities
3. Skill development courses
4. Student development activities and student progression
5. Institutional values and best practices
6. Internal Quality Assurance System

At the beginning of the academic year, the College Academic Committee(CAC) of the institution, works out the strategic plan of the events and activities which will support the growth and development in these key areas and at the end of the year, a review is taken about implementation and the outcomes of the perspective plans. The institute has conducted various programs to meet this goal. The institute always encourages the faculty to attend various activities pertaining to research.

Some of the activities to attain this goal are specified below:

1. A faculty development program on the latest teaching methodologies was conducted in which new techniques were explained and practical sessions were conducted.
2. Training workshops were organized for the students to equip them with the latest methodologies.
3. Every department in the institute conducted FDPs on the latest trends in academics.
4. MOUs have been initiated with various industries and colleges for the purpose of internships, guest lecturers for students, faculty training, consultancy and research.
5. Conferences and seminars were conducted by all the departments to give exposure to both faculty and students about the latest global trends in academics, and industries.
6. Ideal institute of technology has made a great effort in imparting English communication skills among the faculty and students by conducting workshops on soft skills.
7. A plan for an e-class room which can facilitate the use of modern technology.

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

#### **Response:**

The organizational structure of the college consists of the management, Governing body, the principal, the teaching staff, the non-teaching staff and the students. The Principal is the chief academic administrator who ensures the smooth running of both academic and administrative matters. The Principal need to make financial decisions in consultation with management for the development of academic infrastructures.

The policies and procedures on academic matters are taken care of by an Academic Council. This consists of the Principal as the Chairman, all heads of the departments, representatives of industry, and university nominees as members. The financial administration of the institute is monitored by an administrative officer. HODs are responsible for the functioning of their respective department as per the policies of the institute. As per the instructions from HOD several activities like monitoring syllabus coverage, planning and conducting seminars, workshops, seminar classes and remedial classes are conducted.

Various committees such as Anti-ragging Committee, Financial Committee, SC/ST Committee, Sports Board Committee, Students Council Committee, Internal Complaint Committee, Grievance Committee etc

have been constituted at the institute level involving faculty and students for the smooth functioning of the institution. All these committees function under the overall guidance of the Principal. Training and placement officer (TPO) who reports to the Principal deals with the training of the students and organizing campus drives. The TPO of our college is efficient in maintaining good rapport with leading companies and industries. TPO plays a pivotal role in getting maximum placements in major reputed companies.

The library organization includes librarians and library attendants. The librarian of our institution is well disciplined and always encourages both staff and students to access various digital libraries and take advantage of online resources. Student council meetings are held regularly to address student-related issues and organise extracurricular activities through various cultural societies. In addition suggestion boxes are provided at various locations in the academic block to receive feedback/complaints from students. The non-teaching staff are active and are apt to complete tasks assigned to them. They show high dedication towards the college and its management.

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

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

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

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

## 6.3 Faculty Empowerment Strategies

### 6.3.1 The institution has effective welfare measures for teaching and non-teaching staff

**Response:**

Ideal Institute of Technology, Kakinada has evolved an excellent work culture of respecting each other and also creating an ambience congenial for academic and personal growth. We believe that as the staff grows the institution also grows.

The Institute has set up high standards for imparting quality education, recruiting faculty with higher academic profiles with an urge to excel in their respective fields, to serve the students and the Institution with dedication and high-quality standards.

The institution has established a professional development allowance for several academic activities for all levels and has encouraged the faculty to participate in Conferences, Symposia, Workshops, Training programs etc by monetary/financial assistance too. The Institution also encourages the faculty to register

for PhD program.

For the non-teaching staff, the Institution has organized computer proficiency upgradation programs, training on equipment, preparation of reagents, cleaning and maintenance of glass wear, equipment etc, to achieve the desired standards. The non-teaching staff has been motivated to undergo training and demonstration programs to handle the equipment.

Along with these, the institution also provides welfare measures like:

- Incentives to teaching and non-teaching staff on the basis of their performance.
- Awards for well worthy projects and publications
- Health insurance and accidental insurance facilities are provided for both teaching and non-teaching
- Medical leave
- CC Camera surveillance
- Fire extinguisher facility for safety

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

**Response:** 31.5

#### **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**

2020-21	2019-20	2018-19	2017-18	2016-17
32	26	19	09	07

<b>File Description</b>	<b>Document</b>
Upload any additional information	<a href="#">View Document</a>
Institutional data in prescribed format(Data template)	<a href="#">View Document</a>

### **6.3.3 Average number of professional development /administrative training programs organized by the institution for teaching and non teaching staff during the last five years**

**Response:** 11.4

#### **6.3.3.1 Total number of professional development /administrative training Programmes organized by the institution for teaching and non teaching staff year-wise during the last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
08	13	12	12	12

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

### 6.3.4 Average percentage of teachers undergoing online/ face-to-face Faculty Development Programmes (FDP)during the last five years (Professional Development Programmes, Orientation / Induction Programmes, Refresher Course, Short Term Course ).

**Response:** 39.35

#### 6.3.4.1 Total number of teachers attending professional development Programmes viz., Orientation / Induction Programme, Refresher Course, Short Term Course year-wise during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
37	29	20	12	15

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

### 6.3.5 Institutions Performance Appraisal System for teaching and non-teaching staff

**Response:**

The college follows a systematic Performance Appraisal System for teaching and non-teaching staff. The institution/management evaluates teachers based on teaching, research and participation in development activities and due importance is given to all the activities. The institution evaluates non-teaching staff based on performance in technical work and administration related activities, co-curricular, professional, development-related activities, academic contributions, general conduct and qualities.

A structured “Self Appraisal Form” is given to each and every faculty member for this purpose, wherein he/she gives the details of his/her performance and participation in all the activities assigned to him/her by the department /college. The concerned HOD give their remarks on the performance of the

faculty member. The faculty performance appraisal system is evaluated in 6 categories namely teaching-learning, co-curricular activities, research activities, academic performance- evaluated from the feedback from students, expert review feedback and management feedback. Every category has a maximum score of 150 out of which the minimum requirement is 75.

The management evaluates the faculty members and staff by merit rating based on their performance during the period of evaluation. They are recognized and awarded for academic performances and publication during the Engineer's Day function each year. In addition, the salary revisions periodically are based on the performances indicated by results, project guidance, peer-reviewed publications, and contribution towards achieving institutional goals in case of non-teaching staff. The above methodology of merit rating has helped the institution to identify and reward meritorious employees and positively motivate them.

## 6.4 Financial Management and Resource Mobilization

### 6.4.1 Institution conducts internal and external financial audits regularly

#### Response:

Ideal Institute of Technology conducts internal and external audits on a regular basis

#### Internal audit

Ideal Institute of Technology conducts internal audits regularly which ensures transparency in every financial transaction. The officer-in-charge scrutinizes and verifies the financial data by checking cashbooks, bank statements, ledgers, bills, vouchers etc. This is again scrutinized by the Administrative Officer and the Principal. Income/Expenditure is closely monitored by the Principal and the Accounts Officer. A procedure is adopted for procurement. Quotations are called for and prices are compared. The Institution has formed a Purchase Committee for the purpose.

#### External Audit:

The external audit takes place annually after the completion of every financial year. External auditors have been appointed by the institution as per the statutory requirement. Chartered Accountants, from TSR associates, Kakinada have been auditing for this institute whose main role is to examine the income and expenditure accounts, and also to verify the financial statements. Finally, annual external audit reports are submitted to the management.

### 6.4.2 Funds / Grants received from non-government bodies, individuals, philanthropers during the last five years (not covered in Criterion III)

Response: 2.18

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

2020-21	2019-20	2018-19	2017-18	2016-17
0.22	1.03	0.93	00	00

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

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

#### Response:

Ideal Institute of Technology follows a well-planned procedure for mobilizing resources as well as ensuring transparency in financial management. Financial assistance and encouragement to the faculty are given priority to enhance their quality of education so as to impart quality education to the students and to uplift the reputation of the Institute.

The different ways of mobilizing the funds in the institution are as follows

#### 1. Tuition fee:

- The tuition fee is the main financial resource for the institute. The tuition fee is fixed based on the decision of the Andhra Pradesh Higher Education Regulatory and Monitoring Commission (APHERMC).

#### 2. Rentals:

- The institute's computer laboratories are also used as test centres for competitive examinations conducted by Govt and Non-Govt sectors
- Canteen & Stationery outlets in the institute premises.

#### Resource Utilization:

An annual budget is prepared to ensure optimal utilization of financial resources, based on the estimates received from the departments and functional units of the institute. The amount is sanctioned by the managing committee/Board of Governors. Monthly statements are prepared for income and expenditure. The audit is performed periodically to ensure that the budget is optimally utilized for the purpose intended.

The resources are utilized for the following as per the approved budget

- Employee Salaries & benefits are a major component of expenditure.
- Furniture, Laboratory Equipment and Consumables, etc.
- Library.
- Software procurement, up-gradation and maintenance.

- Skill Development and Innovation.
- Training & Placement.
- Wi-Fi, Internet & Networking.
- Student Services - NSS, Sports.
- Power and fuel.
- Printing and Stationery.
- Postage and telephones. Affiliation and Renewals.
- Travel and conveyance.
- Repair, Replacements, and Maintenance.
- Scholarships to merit and poor students.
- Taxes and licenses.
- Campus maintenance.
- Basic amenities.
- Miscellaneous expenses.
- Events.

## 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

#### Response:

Ideal Institute of Technology has constituted the Internal Quality Assurance Cell (IQAC) in June 2019 to continuously upgrade the quality of the institute in all aspects. The following issues were under the monitoring of The College Academic Committee (CAC) before the establishment of IQAC.

#### Objectives:

- To ensure that there is continuous improvement in all the operations of the institution.
- To ensure quality and integrity to all the stakeholders.
- To develop a strategic action plan to improve the academic and administrative performance of the institute.
- To foster best practices and implement various measures for upgrading the quality of the institute.

#### Functions:

- Collecting feedback from stakeholders of the institute on quality initiatives.
- Creating awareness of various quality parameters.
- Documenting the various programs/activities that lead to quality improvement.
- Organizing workshops and seminars on quality development for the faculty and students.
- Working continuously for the adoption of pedagogical advancement strategies to match the changing needs of students & industry.

#### Strategies and Processes:

## 1. Institutionalization of Online Certification Courses:

In the year 2019-20, as suggested by IQAC students and staff were encouraged to take up certification courses. Enrollments for the online courses offered by various platforms such as NPTEL, COURSERA, etc. were taken up to enhance the domain and interdisciplinary knowledge.

**Outcome:** Faculty are participating in the online certification courses both by mentoring the students and also undergoing certification.

## 2. Infrastructure:

### CAC / IQAC infrastructure initiatives:

- The institute increased the total number of computers from 280 to 310 during the last five years.
- Internet bandwidth of 25 Mbps in 2015 was enhanced to 50 Mbps in 2017 and 80 Mbps in 2019 through multiple ISP connections.
- The institute has online exam centres for NSEIT, CDAC, and Cambridge University exams. It also facilitates online bank exams.
- Increasing the number of volumes every year in the library and acquiring subscriptions for NDLI, allowing faculty to promote learning-oriented events, both online and offline.
- A new set of classrooms and laboratories were developed to accommodate the growing needs of the institute.
- The concept of the “smart classroom” was established in 2020 which was carried out as the final year project where the students successfully implemented the functionality of smart lights and smart curtains that were operated based on motion sensors.
- Another initiative with the final year students was the College Surveillance project where students built up a project using Arduino Uno and cameras, the output of which can be observed on a large display in the Principal room.
- The establishment of the college’s Result Portal was done in 2017 which was further enhanced with face recognition and voice recognition features.
- An initiative for ERP management has also been done in 2020.

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

**Response:**

**Focus on the teaching-learning process:**

### 1. Maintaining academic excellence

The college maintains course files for every branch. The contents of the course file include the following:

- Course Syllabus Sheet
- Teaching Plan
- Assignment Questions
- Unit wise Question Bank
- Subject Material

The Head of the Department acts as the coordinator who reviews the course file and maintains it. The course file also includes PowerPoint presentation slides of the subjects of each year. The Head of the Department also monitors the proper implementation of the timetable by checking whether the classes are running as per schedule, whether the topics covered are relevant, whether the students are to understand and so on.

Faculty themselves take responsibility for monitoring the submission of assignments, conducting seminars, quizzes and other learner-centric methods. Monthly meetings are conducted to review the status.

#### **Outcome:**

- By delegating the responsibility to the concerned Head of the Departments and faculty improvement in the standard of the faculty was observed.

## **2. Bridging the gap between slow learners and fast learners**

A strategic plan was initiated by IQAC which emphasized maintaining equal standards among all the students. The plan included the following steps:

- Conducting internal reviews to students on academic curriculum
- Gather the results and identify slow learners
- Plan remedial classes for the slow learners where fast learners are given the opportunity to share their experiences and tips and tricks to learn the content fast.

#### **Outcomes:**

- We have observed that by carrying out the above strategy, the gap between the slow and fast learners gradually decreased.
- Moreover, a stronger bond was observed being built among the students further enhancing their relationship.

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

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

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

<b>File Description</b>	<b>Document</b>
Upload any additional information	<a href="#">View Document</a>
Institutional data in prescribed format(Data template)	<a href="#">View Document</a>

## Criterion 7 - Institutional Values and Best Practices

### 7.1 Institutional Values and Social Responsibilities

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

##### Response:

##### Gender Equity:

The overall objective of gender equality is a society in which women and men enjoy the same opportunities, rights and obligations in all spheres of life. Ideal Institute of Technology organizes gender equity programs on a regular basis. Every year National and International Women's Day is celebrated on the 8th of March with a particular theme based on women empowerment. Programs like self-defence training in collaboration with different training institutes and NSS unit are conducted not only within the campus but also in the surrounding villages to create awareness regarding Gender Equity.

##### Women Empowerment Cell:

Women Empowerment Cell takes care of empowerment and motivation of the girl students and college always permits them to go and participate in women empowerment related programs. It conducts regular counselling sessions. Equal opportunity and active participation from boys and girls in activities held by Committees including Sports and cultural events at University and Institute levels. It also conducts awareness activities for staff and students to keep them updated about women's rights and issues. In addition, the institute has an Anti-Sexual Harassment and anti-ragging Cell which creates awareness and provides information about the empowerment strategies of sexual harassment acts to the students during the orientation program.

##### Safety and security:

Our campus well is protected with walls on all sides and gates. Movement of staff and students through CCTV surveillance, and register also maintained. Ideal Institute of Technology takes care of the health and security of the students and staff members by providing various facilities for women on the campus. IIT takes care of the security of all the staff members, students and specially girl students with the help of CCTV surveillance. Our college also has security guards and watchmen present shift wise near the campus main gate and at strategic locations inside the campus. Wearing ID cards is made compulsory for all the staff and students for identification.

##### Common rooms:

Separate common rooms for boys and girls are made available on the campus. The common rooms are provided with all the basic facilities like washroom, mirrors, hand wash soap and sanitisers, dustbin etc.

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

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

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

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

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

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

**Response:**

Ideal Institute of Technology designed methods for the management of waste generated in the campus using the basic waste management strategy of 3R's: Reduce, Reuse and Recycle i.e., Reduce the amount of waste generated, Reuse everything to its maximum after proper segregation and cleaning and keeping things which can be Recycled aside and handed over to appropriate agencies. The waste generated in the campus includes liquid waste and solid waste- both of biodegradable and non-biodegradable nature & chemical waste. No classified hazardous waste is generated in the campus. The environmental policy of the institute is to achieve zero discharge and complete utilization of waste with well-designed strategies to make campus clean, hygienic and healthy.

#### **Solid waste management**

Solid waste includes both biodegradable and non-biodegradable components. The non-biodegradable solid waste generated in the campus include, paper, plastics, etc. Biodegradable waste includes food waste, leaves etc. Food waste and non-biodegradable waste are collected in separate bins. By using food waste, our college generating biogas.

#### **Liquid waste management:**

Liquid waste that is generated in the institute falls into the following categories. Waste water generated from the sanitary facilities is disposed off into septic tanks located at different places on the campus. Waste water is used for gardening, watering trees etc. The excess waste water will be directed into the natural drain passing nearby the college campus. Waste water generated from the laboratories is very less in quantity, which can be stored in separate places and later handover to agencies.

**Bio-Medical waste:**

There is no bio-medical waste generated here because we don't use biomedical products or things.

**E-waste management:**

Electronic waste or e-waste describes discarded electrical or electronic devices. Used electronics which are destined for refurbishment, reuse, resale, salvage recycling through material recovery, or disposal are also considered e-waste. Our Institution has less E-waste. E-waste mainly includes obsolete electronic devices, such as computer systems, servers, monitors, compact discs (CDs), printers, scanners, copiers, calculators, fax machines, battery cells etc. E-waste is disposed off through vendors.

**Waste recycling system:**

Wastewater from Wash Basins is directed to the ground through pipelines to the outdoor plants. Water Runoff from the spillover of overhead tanks is also directed to the ground by a separate pipeline system to the plants.

**Hazardous chemicals and radioactive waste management:**

Hazardous chemical waste which is generated in the chemistry laboratories is collected at a specific location and transferred to a collection tank for safe disposal. Hence there is no hazardous and radioactive waste management system.

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

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

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

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

**7.1.5 Green campus initiatives include:**

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

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

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

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

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

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

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

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

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

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

File Description	Document
Policy documents and information brochures on the support to be provided	<a href="#">View Document</a>

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

**Response:**

The institution has been taking several efforts and initiatives in providing an inclusive environment i.e., tolerance and harmony towards cultural, regional, linguistic, communal socio-economic and other diversities. By celebrating many National and International Days, Events and Festivals the institution aims

at bringing tolerance and harmony among the students and staff and other stakeholders. Ideal Institute of Technology is proactively taking efforts in providing an inclusive environment. The initiatives are to promote better education, economic liftmen of the needy and setting communal harmony.

The institute maintains complete transparency in admissions conducted on a merit basis. The institution believes in equality of all cultures and traditions as is evident from the fact that students belonging to different caste, religions and regions are studying in the college without any discrimination. There is no segregation of students on the basis of their socioeconomic, regional, lingual or communal background.

Equal opportunities are provided to the students to participate in various activities conducted irrespective of their caste, creed, religion and region. The institution has an NSS wing to inculcate a sense of unity, discipline and harmony. The activities are undertaken by the NSS unit in our institution mitigate the socioeconomic diversities and progress them towards leading a tolerant and harmonious living.

The anti-ragging cell acts as a key factor in maintaining tolerance and harmony among students. The girls are encouraged to take up leadership roles and participate actively in all student activities. Events to promote gender equity are also conducted. Industrial visits expose students to practical challenges and also make the students from different backgrounds adapt to one another to create tolerance and harmony in the organization.

Central Library has a facility to issue books from the book banks to SC/ST students supplied by the social welfare department. Our institution celebrates days like Women's day, Teacher's day, Yoga day, and national festivals that are also celebrated in the college. Conduction of such events helps in promoting regional, linguistic, communal socio-economic and other diversities.

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

**Response:**

Ideal Institute of Technology organizes various activities for the sensitization of the students and employees for inculcating values, rights, duties and responsibilities for being responsible citizens of India. Ideal Institute of Technology had arranged a number of programs covering freedom of expression through which the students can get the courage to express themselves. The issues related to problems of consumers are expressed through the programs arranged on the topics like Consumer's Act, Rights of Consumers etc. The Voter's Day, International Yoga Day, and Freedom of expression programs had been conducted by the institution from time to time.

Ideal Institute of Technology organizes Swachh Bharath Abhiyan to create awareness about cleanliness in and around the campus. Ideal Institute of Technology celebrates the National Days of India such as Independence Day and Republic Day every year. These events begin with the hoisting of the national flag by the Chairman, Secretary & Correspondent, principal, Staff and Students. On this day, speech and essay writing competitions about freedom fighters will be organized for the students.

The institute hoists the flag during national festivals and invites eminent persons to inspire students and staff by informing the qualities of freedom fighters and emphasizing the duties and responsibilities of

citizens. The students are inspired by conducting various programs on culture, traditions, values, duties and responsibilities by inviting people to ISKCON and competitions are conducted among students for Rangoli.

The personality development of the citizen in the aspects of intellectual, mental, physical and spiritual is a rich heritage of our composite culture and is a panacea for all social ills. The college establishes policies that reflect core values. A Code of conduct is prepared for students and staff and everyone should obey the conduct rules. The Student curriculum is framed with mandatory courses like Professional ethics and human values, Constitution of India, and Essence of Indian Traditional Knowledge, as a small step to inculcate constitutional obligations among the students. Guest lectures are arranged by eminent personalities to deliver lectures on ethics, values, duties and responsibilities and on saving the environment.

The institute organized an awareness program on "Traffic rules and regulations" by District police Department, traffic DSP is invited to give guidelines to students on road safety and to emphasize their responsibility of following rules. Ethical Values, rights, duties and responsibilities of citizens are some of the topics that are enlisted in Elocution, Debates or in Communication lab activities. The institute conducted awareness programs and rallies on the ban on plastics, cleanliness, Swachh Bharat etc. involving students. On Orientation day and fresher's day, reputed persons from the police department are invited to speak about the duties and responsibilities of citizens and the consequences of ragging.

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

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

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

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

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

**Response:**

Ideal Institute of Technology aims to inculcate values and nationalism in the students by celebrating the national festivals and birth anniversaries of great Indian personalities on the college campus every year.

The celebrations include Essay Writing and Elocution. Eminent personalities are invited to motivate staff and students through their inspirational speeches on those days. The days are a reminder to cherish the achievements of our founding fathers.

**Republic Day and Independence Day:** Every year the Institution celebrates Republic Day and Independence Day by hoisting the national flag by the Chief Guest of the Programme and presenting medals and certificates to the NCC cadets for their best performance. Students and staff salutes the flag and then sang the National Anthem.

**Gandhi Jayanthi:** Gandhi Jayanthi is celebrated in memory of the Father of the Nation, who devoted his whole life preaching Truth and following Ahimsa.

**Teachers Day:** The Institution celebrates Teacher's Day commemorating the birthday of Dr Sarvepalli Radha Krishnan, a great teacher. On that day the Institution felicitates eminent personalities from the educational field.

**Youth Day:** National Youth Day is celebrated on 12th January on the college campus with the aim of motivating the youth through the way of life and ideas of Swami Vivekananda to generate a positive attitude towards the people to provide them with every knowledge about how to behave in a proper way in the society.

**Engineer's day:** The organization celebrates Engineer's Day on 15th September to mark the birth anniversary of Sir Mokshagundam Visvesvaraya through project exhibitions. Different project models are developed and exhibited by the students.

**National Unity Day:** National Unity Day is celebrated on 31st October, the birth anniversary of Sardar Vallabhbhai Patel. All students and staff take part in the Run for Unity followed by the National Unity pledge.

**Netaji Subhas Chandra Bose's Birth Anniversary:** Netaji Subhas Chandra Bose's birth anniversary was celebrated on 23rd January. to pay Tributes to Netaji Subhas Chandra Bose. The college management arranged Inspirational speeches by eminent Speakers.

**Martyrs Day:** Mahatma Gandhi Death Day is celebrated as a Martyr's day on 30th January. On this day all Students and Staff pay homage to the victims who fought for the freedom, welfare and progress of India and sacrificed their lives.

**Women's Day:** Lady Advisory Committee organizes Women's Day on 8th March for the girl students and lady staff members in the college and conducts various events and competitions.

**National Voters Day:** National Voters Day is celebrated every year on the 25th of January to spread awareness about the necessity of voting and to encourage the young generation toward voting rights.

**International Yoga Day:** International Yoga day is celebrated on 21st June every year on the campus. The sessions include orientation on Yoga, its mental and physical benefits and the actual performance of some yoga asanas.

## 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:**

**TITLE OF THE PRACTICE:** STUDENTS MENTORING SYSTEM

**OBJECTIVE OF THE PRACTICE:** The goal is to establish a trusting relationship between the Mentor and the Mentee and to help the mentees attain their aims.

**CONTEXT:** A set of twenty students are assigned to faculty mentors from their first year. Mentors create a better environment for their mentees and the mentees can approach their mentors for educational, personal guidance and knowledge enhancement.

**PRACTICE:** The mentors closely monitor their mentee's performance and provide ongoing support. They also provide awareness and guidance about competitive examinations and courses required for placements. A mentor encourages the students for pursuing higher studies and encourages entrepreneurship. Each and every detail regarding the student is noted down in their mentor book to maintain a hard copy for reference. Frequent counselling sessions help the student in expressing their opinions and problems with ease. Counselling is done after tests and after the University exam Results. Mentor books are updated with their results, achievements, certifications, attendance, scholarships and project details.

**EVIDENCE OF SUCCESS:** The evidence of success is the percentage of students who passed in the last five years from 2016 to 2020 increased as an academic result, an increased number of students placed in the campus recruitment. After implementing the practice there is an increase in the pass percentage, the number of Rank holders and Placement records.

**PROBLEMS ENCOUNTERED AND RESOURCES REQUIRED:** Faculty faced difficulties in conducting counselling sessions with the students due to a lack of motivation and support from the student's side.

**Best Practice 2:**

**Title of the Practice:** Institutional Academic Audit

**Objectives of the Practice:** Academic Audit is an initiative focused on improving academic quality, and highly collegial, faculty-driven practice. It has a structured linkage between the faculty members and the internal auditors to examine the possibilities for improvement and achieve commitments for change. The academic audit primarily focuses on improving the teaching and learning process which is an institutional priority. The audit also facilitates active discussion and deliberations on means for improving the teaching and learning process at the department level as well as at the institutional level.

**The Context:** The main focus of an academic audit is to assess all the existing programmes for their

overall academic contribution and efforts for improving academic activities, research and extension activities through a systematic process. The steps are taken to strengthen the existing programmes wherein the institution's performance as a whole needs to bring in more uniformity in the process and the suggestions and criticisms from the audit are valuable for the future upgradation of departments in turn highlighting the glory of our institution. All the departments have gone through the feedback of academic audit reports obtained from the evaluators. The suggestions discussed in the audit reports are taken into consideration for further improvement in quality in the coming years.

**The Practice:** Academic quality work embedded in the Academic Audit systematizes an institution's approach to quality by focusing on a body of content that must be considered before an analysis can be accepted or complete. This body of content is the focal areas of quality work: 1) learning objectives 2) curriculum, 3) teaching

**Evidence of Success:** The following steps were taken to strengthen the existing programmes through the improvement of the quality of academic performance based on the suggestions provided by the audit team.

1. Increased good publications especially Journals are of very good quality and with an impact factor.
2. Faculty members at the junior level participated in active research.
3. International Conferences in thrust area conducted in the academic years 2016-17 and 2017-18
4. Faculty members initiated more externally funded research projects from national-level funding agencies like UGC, DST, etc. Efforts were also made to attract consultancy projects.
5. Took up interdisciplinary projects in collaboration with other departments.
6. Conducted academic events/activities of good quality, besides conducting extension and public service activities.
7. The existing programmes transformed into an Outcome-Based Approach.
8. Enough market study conducted to ensure that there are enough placement opportunities for the graduates.
9. Internships in the industry have been promoted through Internshala and a few industry linkages.
10. Student-centric learning/knowledge exchange activities have been encouraged.
11. Student summer internships and summer training programs to enhance technical and soft skills are made compulsory.
12. A number of dignitaries visited the institution and delivered lectures on various topics of current relevance.
13. Theme-based fieldwork from the second semester is encouraged.

**Problems Encountered and Resources Required:** During the first time academic audit, there were certain inconsistencies and non-uniformities which were solved in forthcoming years.

1. The possibility of engaging more visiting professors and emeritus professors will also help to improve the teaching-learning process.
2. Most of the faculty have to concentrate more on publications in professional journals and impact factor journals to get more citations which were found to be very few in number.
3. However, there are still areas for improvement in research studies which will also help the students in gaining exposure to the emerging areas. The devotion and commitment of the faculty need to be specially commended for noteworthy achievements in academics and in research aspects and learning methods.
4. Student learning assessments
5. Research and Development.

## 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:

IDEAL Institute of Technology is established with a vision to emerge as a premier institution for technical education in the country through academic excellence and also to be recognized as a centre for excellence in research & development, catering to the needs of our country.

The primary objective of the institution is the pursuit of Academic Excellence and Placements. The institute also aims at vitalizing the learning skills with a focus on futuristic demands, vitalizing the teaching-learning process, ICT, Human Values, and functional relationship with all the stakeholders for the holistic development of the individual and society. It also strives to create virtuous, meritorious personalities and to prepare professional, creative, and humane students to serve humanity by setting a commendable tradition of initiative and imagination. The institution stands apart from all other colleges by placing greater emphasis on producing professional students by providing value-based education and enabling the students to face challenges in modern life. The institute aims at instilling a sense of self-discipline and accountability among students and developing a respect for democratic, ethical, and moral values. The college provides the best amenities required for students to enhance their Technical skills, Academics, and Extracurricular activities and brings out the best in them.

Institute has distinctive practices to make teaching-learning effective so that the institute can reroute in its vision by providing placements to the students.

#### Quality Initiatives - New Initiatives for effective Teaching:

- Faculty skill upgradation at regular intervals through FDP programs.
- Encouraging Faculty for Higher Studies and PhD programs
- Research support system through activities of Research and Innovation Cell
- Encouraging to use of ICT facilities in content delivery
- High-speed internet facility to support researchers
- Senior faculty involves the students in their research activities.
- Student-centric teaching activities - Project-Based Learning, Problem Solving Skills

#### Quality Initiatives – New Initiatives for Enhanced Learning:

- Induction Program
- Importance to Laboratory Activity / Project work
- Project-Based learning / EAKTRA / HACKATHON / Industry Visits
- Add on Courses / Certificate Courses / Value Added Courses
- Extra Classes / Makeup classes / Remedial Classes
- Awareness Programs / Seminars / Workshops
- imparting Social responsibility / Environmental Consciousness / Values
- Employable Skills upgradation by CRT training

- Enhanced English Proficiency through multimedia assisted language laboratory
- Result Analysis – Parent-Teacher meeting – feedback.
- Assessment of Quality improvement Strategies by AAC / BOG and corrective measures / redefining benchmarks.

**Placements:**

The placement cell “TRAINING AND PLACEMENT” is an integral part of our institution, and ensures that the students are well trained and prepared to face their campus interviews effectively. Training is imparted to the students from their second year in soft skills and technical skills. The academic and placement processes are complemented by a diverse array of opportunities provided to the students in enhancing their knowledge beyond academics. Various conferences, guest lectures, workshops, summits, and celebrity chats are organized throughout the year, by which the students are exposed to the outside world's work ethics and all the recent developments and innovations. Students are encouraged to develop their own projects that are funded by both the State and Central Government of India to help them explore their creative ideas. To bring out the concealed talents of the students every year the institution conducts Tech Fests cultural extravaganza. This event throws light on various arts and thus pushes the students to excel in Co-Scholastic areas as well. The institution has provided the best possible facilities in terms of infrastructure for teaching, learning and sports activities to make a student complete in all dimensions. The Classrooms, Laboratories, Smart classrooms, Group discussion halls, Library, Solved Question bank for all subjects and Administrative office are highly conducive to the overall academic environment.

## 5. CONCLUSION

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### Additional Information :

- **NPTEL/SWAYAM:** The Institute Students registered with NPTEL/SWAYAM courses.
- **APITA:** The Institution has an association with the Andhra Pradesh information academy (APITA) for conducting career guidance training sessions and job fairs for the students in support of the various Training Parameters across India.
- **Test Center:** the Institute has approved the conduction of NTA(National Testing Agency) examinations in our institute. The institute has conducted online examinations for different Agencies like NSEIT Limited, GSR online academy, Bizzlon management solution Pvt Limited, SAVIR consultants Pvt Limited, Pondichery University, Bank Recruitments, Cambridge university and Vizag Steel Plant.
- **Airforce:** The Institute has conducted STAR(Airforce) Examinations organised by CDAC in our institute.
- **NCC:** the college has provided infrastructure for NCC-B Certificate Examinations conducted by NCC Unit Kakinada.
- **Eduskills:** the college has collaborated with the eduskills foundation to enable the student's industry-ready by providing AICTE oriented internships in the niche Technologies like cloud computing, robotic process automation, machine learning etc.
- **BLUE PRISM University:** The college also collaborated with Blue prism university to provide training to the students in the field of robotic process automation.
- **IBM academic initiative:** The college is transforming into IBM academic initiative to make students benefit from present-day software trends.
- **Awareness Programme:** The Institute has conducted awareness mock online tests for AP Police recruitment examinations in our computer lab.
- The Kakinada Municipal Corporation has conducted a sadhikara survey entry in our computer lab The Social Welfare Department has utilized our computer lab for the updation of the Janabhumi portal. The college is notified as to the counting centre for General Elections.

### Concluding Remarks :

The Institution inexorably strives to produce quality education with ethics and morals for the comprehensive development of the graduates with lots of enthusiasm for their careers.

The Institution identifies the importance of accreditation from various bodies. The organization is on its way to becoming autonomous with NBA accreditation for the further upgradation of the organization. The college wishes to offer advanced and emerging technologies and multidisciplinary courses for the enhancement of the prospects of the students. The institution aspires to do innovative projects and research activities. Due to the lack of PG courses, the research is a bit passive in the institution.

The Institution has statutory bodies such as Governing body, the Academic Council, the Finance Committee and other non-statutory committees that take care of decisions regarding college policy and the implementation of academic and non-academic activities. IQAC significantly contributes to maintaining and enhancing the quality in all aspects for the efficient functioning of the institution. All the faculty and staff are administered by service rules of the institution in accordance with the regulatory bodies.

The training and placement cell focuses on the training of the student and securing good placements. The Institution strives to make many more initiatives for the students to progress towards higher education. It also endeavours to take new initiation for inspiring the students toward environmental consciousness and gender equality

## 6.ANNEXURE

### 1.Metrics Level Deviations

Metric ID	Sub Questions and Answers before and after DVV Verification																				
1.2.1	<p><b>Percentage of Programmes in which Choice Based Credit System (CBCS)/ elective course system has been implemented</b></p> <p>1.2.1.1. <b>Number of Programmes in which CBCS/ Elective course system implemented.</b>            Answer before DVV Verification : 05            Answer after DVV Verification: 05</p>																				
1.2.2	<p><b>Number of Add on /Certificate programs offered during the last five years</b></p> <p>1.2.2.1. <b>How many Add on /Certificate programs are offered within the last 5 years.</b>            Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> <th>2016-17</th> </tr> </thead> <tbody> <tr> <td>10</td> <td>10</td> <td>10</td> <td>10</td> <td>10</td> </tr> </tbody> </table> <p>Answer After DVV Verification :</p> <table border="1"> <thead> <tr> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> <th>2016-17</th> </tr> </thead> <tbody> <tr> <td>09</td> <td>09</td> <td>09</td> <td>09</td> <td>09</td> </tr> </tbody> </table> <p>Remark : Input edited as per supporting documents</p>	2020-21	2019-20	2018-19	2017-18	2016-17	10	10	10	10	10	2020-21	2019-20	2018-19	2017-18	2016-17	09	09	09	09	09
2020-21	2019-20	2018-19	2017-18	2016-17																	
10	10	10	10	10																	
2020-21	2019-20	2018-19	2017-18	2016-17																	
09	09	09	09	09																	
1.3.2	<p><b>Average percentage of courses that include experiential learning through project work/field work/internship during last five years</b></p> <p>1.3.2.1. <b>Number of courses that include experiential learning through project work/field work/internship year-wise during last five years</b>            Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> <th>2016-17</th> </tr> </thead> <tbody> <tr> <td>212</td> <td>194</td> <td>196</td> <td>187</td> <td>176</td> </tr> </tbody> </table> <p>Answer After DVV Verification :</p> <table border="1"> <thead> <tr> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> <th>2016-17</th> </tr> </thead> <tbody> <tr> <td>208</td> <td>194</td> <td>196</td> <td>187</td> <td>176</td> </tr> </tbody> </table> <p>Remark : Input edited as per supporting documents</p>	2020-21	2019-20	2018-19	2017-18	2016-17	212	194	196	187	176	2020-21	2019-20	2018-19	2017-18	2016-17	208	194	196	187	176
2020-21	2019-20	2018-19	2017-18	2016-17																	
212	194	196	187	176																	
2020-21	2019-20	2018-19	2017-18	2016-17																	
208	194	196	187	176																	
2.3.3	<p><b>Ratio of students to mentor for academic and other related issues (Data for the latest completed academic year )</b></p>																				

**2.3.3.1. Number of mentors ?????????????? ???????**

Answer before DVV Verification : 54

Answer after DVV Verification: 54

**2.4.3 Average teaching experience of full time teachers in the same institution (Data for the latest completed academic year in number of years)****2.4.3.1. Total experience of full-time teachers**

Answer before DVV Verification : 308

Answer after DVV Verification: 308

**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:

2020-21	2019-20	2018-19	2017-18	2016-17
71.59	00	00	00	00

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
0.50	00	00	00	00

Remark : Input edited excluding the grants of Rs. 71.09 lakhs awarded to some other institution.

**3.1.2 Percentage of departments having Research projects funded by government and non government agencies during the last five years****3.1.2.1. Number of departments having Research projects funded by government and non-government agencies during the last five years**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17

**3.1.2.2. Number of departments offering academic programmes**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
05	05	05	05	05

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17

05	05	05	05	05
----	----	----	----	----

**3.2.1 Number of papers published per teacher in the Journals notified on UGC website during the last five years**

**3.2.1.1. Number of research papers in the Journals notified on UGC website during the last five years.**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
76	47	01	05	03

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
50	35	01	03	03

Remark : Input edited by considering the publications with ISSN numbers in journals notified on UGC CARE list

**3.3.2 Number of awards and recognitions received for extension activities from government/ government recognised bodies during the last five years**

**3.3.2.1. Total number of awards and recognition received for extension activities from Government/ Government recognised bodies year-wise during the last five years.**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
04	06	07	03	08

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
00	00	00	00	00

Remark : Input edited as appreciation certificates can not be considered

**3.3.3 Number of extension and outreach programs conducted by the institution through NSS/NCC, Government and Government recognised bodies during the last five years**

**3.3.3.1. Number of extension and outreach programs conducted by the institution through NSS/NCC, Government and Government recognised bodies during the last five years**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17

09	08	08	10	08
----	----	----	----	----

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
09	04	04	05	03

Remark : Input edited by excluding International women's day and the other day celebrations.

**3.3.4 Average percentage of students participating in extension activities at 3.3.3. above during last five years**

**3.3.4.1. Total number of Students participating in extension activities conducted in collaboration with industry, community and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., year-wise during last five years**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
521	661	609	674	352

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
521	358	264	282	137

Remark : Input edited as per metric 3.3.3

**3.4.1 The Institution has several collaborations/linkages for Faculty exchange, Student exchange, Internship, Field trip, On-job training, research etc during the last five years**

**3.4.1.1. Number of linkages for faculty exchange, student exchange, internship, field trip, on-job training, research etc year-wise during the last five years**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
29	12	12	11	11

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
10	10	10	10	10

Remark : Input edited as per supporting documents

**3.4.2 Number of functional MoUs with national and international institutions, universities, industries, corporate houses etc. during the last five years**

**3.4.2.1. Number of functional MoUs with Institutions of national, international importance, other universities, industries, corporate houses etc. year-wise during the last five years**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
10	11	11	11	10

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
9	8	8	8	10

Remark : Input edited as per supporting documents

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

**5.3.1.1. 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) year-wise during the last five years.**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
20	27	20	34	17

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
13	9	8	11	3

Remark : Input edited referring data uploaded by HEI

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

**5.3.3.1. Number of sports and cultural events/competitions in which students of the Institution participated year-wise during last five years**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
15	25	16	21	20

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17

02	07	05	05	07
----	----	----	----	----

Remark : Input edited as Events cannot be split into activities.

**6.4.2 Funds / Grants received from non-government bodies, individuals, philanthropers during the last five years (not covered in Criterion III)**

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

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
10.22	1.03	0.93	00	00

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
0.22	1.03	0.93	00	00

Remark : Input edited as HEI seems to have taken the loan which cannot be considered as grants.

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

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

Answer before DVV Verification : A. All of the above

Answer After DVV Verification: C. 2 of the above

Remark : Input edited as per supporting documents

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

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

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

Answer After DVV Verification: C. 2 of the above

Remark : Input edited as per supporting documents

**2.Extended Profile Deviations**

ID	Extended Questions																				
1.2	<p><b>Number of programs offered year-wise for last five years</b></p> <p>Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> <th>2016-17</th> </tr> </thead> <tbody> <tr> <td>05</td> <td>05</td> <td>05</td> <td>05</td> <td>05</td> </tr> </tbody> </table> <p>Answer After DVV Verification:</p> <table border="1"> <thead> <tr> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> <th>2016-17</th> </tr> </thead> <tbody> <tr> <td>05</td> <td>05</td> <td>05</td> <td>05</td> <td>05</td> </tr> </tbody> </table>	2020-21	2019-20	2018-19	2017-18	2016-17	05	05	05	05	05	2020-21	2019-20	2018-19	2017-18	2016-17	05	05	05	05	05
2020-21	2019-20	2018-19	2017-18	2016-17																	
05	05	05	05	05																	
2020-21	2019-20	2018-19	2017-18	2016-17																	
05	05	05	05	05																	
2.1	<p><b>Number of full time teachers year-wise during the last five years</b></p> <p>Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> <th>2016-17</th> </tr> </thead> <tbody> <tr> <td>63</td> <td>64</td> <td>62</td> <td>52</td> <td>42</td> </tr> </tbody> </table> <p>Answer After DVV Verification:</p> <table border="1"> <thead> <tr> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> <th>2016-17</th> </tr> </thead> <tbody> <tr> <td>62</td> <td>63</td> <td>62</td> <td>52</td> <td>42</td> </tr> </tbody> </table>	2020-21	2019-20	2018-19	2017-18	2016-17	63	64	62	52	42	2020-21	2019-20	2018-19	2017-18	2016-17	62	63	62	52	42
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