



YEARLY STATUS REPORT - 2021-2022

Part A

Data of the Institution

1.Name of the Institution

Tatyasaheb Kore Institute of
Engineering and Technology,
Warananagar

- Name of the Head of the institution **Dr. Sunil Vamanrao Anekar**
- Designation **Principal**
- Does the institution function from its own campus? **Yes**

- Phone No. of the Principal **023282242012**
- Alternate phone No. **023282242013**
- Mobile No. (Principal) **+917798885025**
- Registered e-mail ID (Principal) **principal@tkietwarana.ac.in**
- Address **A/P: Warananagar, Kodoli,**
- City/Town **Warananagar**
- State/UT **Maharashtra**
- Pin Code **416113**

2.Institutional status

- Autonomous Status (Provide the date of conferment of Autonomy) **22/12/2020**
- Type of Institution **Co-education**
- Location **Rural**

- Financial Status **Self-financing**
- Name of the IQAC Co-ordinator/Director **Prof. Subhash S. Patil**
- Phone No. **02328-2242012**
- Mobile No: **9423282658**
- IQAC e-mail ID **iqac@tkietwarana.ac.in**

3. Website address (Web link of the AQAR (Previous Academic Year)) <http://tkietwarana.ac.in/IOAC/AOAR>

4. Was the Academic Calendar prepared for that year? **Yes**

- if yes, whether it is uploaded in the Institutional website Web link: <http://tkietwarana.ac.in/academic/Academic-Calendar>

5. Accreditation Details

Cycle	Grade	CGPA	Year of Accreditation	Validity from	Validity to
Cycle 1	A+	3.27	2016	05/11/2016	31/12/2025

6. Date of Establishment of IQAC **02/07/2013**

7. Provide the list of Special Status conferred by Central and/or State Government on the Institution/Department/Faculty/School (UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC, etc.)?

Institution/ Department/Faculty/School	Scheme	Funding Agency	Year of Award with Duration	Amount
Nil	Nil	Nil	Nil	Nil

8. Provide details regarding the composition of the IQAC:

- Upload the latest notification regarding the composition of the IQAC by the HEI [View File](#)

9. No. of IQAC meetings held during the year **3**

- Were the minutes of IQAC meeting(s) and compliance to the decisions taken **Yes**

uploaded on the institutional website?

- If No, please upload the minutes of the meeting(s) and Action Taken Report
- No File Uploaded

10. Did IQAC receive funding from any funding agency to support its activities during the year? **No**

- If yes, mention the amount

11. Significant contributions made by IQAC during the current year (maximum five bullets)

Providing the guidelines as per the AICTE module curriculum for the first year, second-year, Third year, Final year B.Tech engineering under autonomy status. IQAC has been monitoring the entire process of curriculum development

Training program organized to faculty to create awareness about the implementation of good practices for the autonomous institution.

Visits organized for HODs and deans to understand functions of the autonomous institute and quality checks to be followed to the adjoining good academic institutions.

Different Examination reforms are made to conduct quality examinations of all programs and automation of process under autonomy status of Institute

To promote the research activities among faculty and students, IQAC suggested to redefine the research Publication policy and IPR policy of Institute.

12. Plan of action chalked out by IQAC at the beginning of the academic year towards quality enhancement and the outcome achieved by the end of the academic year:

Plan of Action	Achievements/Outcomes
Activities are carried out to enhance the overall placement of Institute	At end of academic year, placement account of students is more than that of previous year
Effective use of Examination software to carry out Pre and post Exam activities	Most of work of examination is done using examination software purchased by Institute.
Motivate faculty and students to participate in paper presentation and Publication	IPR and Research Publication policy is redefined to implement from next year
Department have advised to conduct industry related skill training	Each department have conducted add-on courses like PDMS, Stad Pro, ANSYS Angular J. S. Established centre of Excellence on AWS, Red-hat Academy, Cisco Academy, Palo Alto-cyber security center of Excellence

13. Was the AQAR placed before the statutory body? **No**

- Name of the statutory body

Name of the statutory body	Date of meeting(s)
Nil	Nil

14. Was the institutional data submitted to AISHE ? **Yes**

- Year

Part A

Data of the Institution

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6.Date of Establishment of IQAC			02/07/2013		
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• If No, please upload the minutes of the	No File Uploaded				

meeting(s) and Action Taken Report		
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Name of the statutory body	Date of meeting(s)
Nil	Nil
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<ul style="list-style-type: none"> Year 	
Year	Date of Submission
2021-22	10/01/2023
15. Multidisciplinary / interdisciplinary	
The Vision of National Education Policy, to provide high quality	

education to develop human resources in our nation as global citizens, is well taken by the Institution. A discussion among the faculty members were initiated on the key principles of NEP such as diversity for all curriculum and pedagogy with technological innovations in teaching and learning, encouraging logical decision making and innovation, critical thinking and creativity. In view of the NEP, the Institution has initiated new interdisciplinary minor course, open electives, skill course, integrating different departments in addition to the existing inter/multidisciplinary research and academics. Academic programmes are redesigned to include Multidisciplinary / Interdisciplinary courses as community engagement and services, environmental education, value based education. All programmes are designed in such a way that students get maximum flexibility to choose elective courses offered by other Departments. Final year projects are given to the students based on multidisciplinary discipline. It can be said that the Institution is proactively working towards implementation of the suggestions given in the NEP, towards the attainment of a holistic and multidisciplinary education.

16.Academic bank of credits (ABC):

Provisions of Academic bank of Credit proposed in the draft of NEP to facilitate multiple entries and exit points in their academic programs. This is an innovative idea to earn and deposit credit through National schemes like SWAYAM, NPTEL. It shall be also considered for credit transfer and accumulation in this provision. The students will able to earn credits and complete the program. External and Internal credit system is added advantage to our student community. TKIET shall abide by the curriculum and structure prepared by the Autonomous Institution in this regard, and will implement ABC from upcoming year.

17.Skill development:

As mentioned earlier TKIET is an Autonomous Institution and it is preparing and implementing its own curriculum. As far as skill development is concerned, TKIET offers skill development courses in professional communication, entrepreneurship development, also TKIET have signed MOU's with TCSion to provide skill courses in AI and ML, Cyber Security, Robotics and Automation. MOU with Honey Well for Unisim software skill and MOU's for skill in IDEAS, ANSYS, PRIMAVERA, STAD PRO, ASPEN, Promax, etc. TKIET offers a special skill courses for preparation to get employed in Indian defense services through TKIET's-AFPI wing, Aptitude Training, etc. Mandatory core courses are offered in our

Institution namely Industrial Internship Training, Aptitude Enhancement Courses (AEC), Employability Enhancement Courses (EEC), Professional Practice Courses (PPC), AWS Online Courses, NSS / NCC Training, Certificate Courses.

18.Appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using online course)

The preservation and promotion of India's cultural wealth must be considered a high priority for the country, as it is truly important for the nation's identity as well as for its Economy.

NCC,NSS programme and AICTE is orienting students towards inculcation of Universal Human Values (UHV) in Technical Education is organized each and every year. In this regard, appropriate integration of the Indian Knowledge system particularly Marathi Sahitya Mandal, Cultural clubs- Maha-natya every year, special sports like Malkhamb, Lathi-Kathi, etc.

A special project with IIT, Bombay- RGSTC has been implemented to automize traditional Jaggery making.

A special project of hostel waste water recycling using Indian traditional local plants and grass root zone techniques with help of company Parker Lords.

19.Focus on Outcome based education (OBE):Focus on Outcome based education (OBE):

All programmes are offered as outcomes-based education (OBE) which are designed keeping in mind the regional and global requirements. TKIET has implemented outcome-based education with clearly stated Programme Outcomes, Programme Specific Outcomes and course outcomes. All courses are designed with outcomes centered on cognitive abilities namely Remembering, Understanding, Applying, Analyzing, Evaluating and Creating.

Apart from the domain-specific skills, learning outcomes at all levels ensure social responsiveness and ethics, as well as entrepreneurial skills so that student contribute proactively to economic, environmental and social well-being of the nation. The Course Objectives (COs) are also aligned to the PO-PSO. All course syllabus have been designed with due consideration to macro-economic and social needs at large so as to apply the spirit of NEP.

20.Distance education/online education:

Due to the experience gained during the closure period of

Covid-19, access to online resources by educators and students will not be a constraint anymore. Faculties are encouraged to register for NPTEL courses at TKIET which promotes the blended learning system of learning. During the Covid pandemic, online classes were conducted very effectively by all faculties in all programs. Both teachers and learners have experienced the online teaching and evaluation process through different software.

Hence, the institution is well prepared in this regard. Many students were benefited by this facility, particularly students who are unable to enroll as a regular student can pursue higher education.

Extended Profile

1.Programme

1.1	9
Number of programmes offered during the year:	

File Description	Documents
Institutional Data in Prescribed Format	View File

2.Student

2.1	2671
Total number of students during the year:	

File Description	Documents
Institutional data in Prescribed format	View File

2.2	607
Number of outgoing / final year students during the year:	

File Description	Documents
Institutional Data in Prescribed Format	View File

2.3	1293
Number of students who appeared for the examinations conducted by the institution during the year:	

File Description	Documents
Institutional Data in Prescribed Format	View File
3.Academic	
3.1 Number of courses in all programmes during the year:	9
File Description	Documents
Institutional Data in Prescribed Format	View File
3.2 Number of full-time teachers during the year:	134
File Description	Documents
Institutional Data in Prescribed Format	View File
3.3 Number of sanctioned posts for the year:	134
4.Institution	
4.1 Number of seats earmarked for reserved categories as per GOI/State Government during the year:	1272
4.2 Total number of Classrooms and Seminar halls	40
4.3 Total number of computers on campus for academic purposes	610
4.4 Total expenditure, excluding salary, during the year (INR in Lakhs):	382.31

Part B

CURRICULAR ASPECTS

1.1 - Curriculum Design and Development

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

The curriculum of all programs is designed and developed keeping in mind the relevance of the courses to local, national, regional, and global development needs. The program curriculum reflects the autonomous institute's program outcomes, which are further aligned with the institute's mission and vision. The board of studies (BOS) comprises various stakeholders, such as eminent academicians and researchers from premier institutes and experts from industry; alumni deliver their inputs as per the changing scenario to frame the curriculum of all programs. While framing the course curriculums, keeping in mind that the COs are properly matched with the POs and PSOs of all the programs. The program curriculum has been revised for F.Y., S.Y., and T.Y. B.Tech. Autonomous in the following years: 2019-20, 2020-21, and 2021-22, respectively.

Different programs that activate students to analyze local needs and provide their solution based on knowledge acquired during engineering. They come with relevant scientific solutions, students get sponsored projects from local industries.

To acquire the entrepreneurial skills of students, the institute initiates collaboration with AICTE, IIC MHRD, and IEDC of the institute. To educate students about global health and pollution, we offer courses on renewable energy, climate change, and environmental effects.

File Description	Documents
Upload additional information, if any	No File Uploaded
Link for additional information	http://tkietwarana.ac.in/IOAC/CO-PO-of-Different-Programs

1.1.2 - Number of Programmes where syllabus revision was carried out during the year

5

File Description	Documents
Minutes of relevant Academic Council/BOS meeting	View File
Details of syllabus revision during the year	View File
Any additional information	No File Uploaded

1.1.3 - Number of courses focusing on employability/entrepreneurship/ skill development offered by the Institution during the year

64

File Description	Documents
Curriculum / Syllabus of such courses	View File
Minutes of the Boards of Studies/ Academic Council meetings with approval for these courses	View File
MoUs with relevant organizations for these courses, if any	No File Uploaded
Any additional information	No File Uploaded

1.2 - Academic Flexibility

1.2.1 - Number of new courses introduced across all programmes offered during the year

40

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	View File
Any additional information	View File
Institutional data in prescribed format (Data Template)	View File

1.2.2 - Number of Programmes offered through Choice Based Credit System (CBCS)/Elective Course System

5

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	View File
Any additional information	No File Uploaded
List of Add on /Certificate programs (Data Template)	View File

1.3 - Curriculum Enrichment

1.3.1 - Institution integrates cross-cutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability, and Human Values into the curriculum

The curriculum is set up so that cross-cutting issues are relevant to each course. This is to help students develop moral and ethical values through a value-added and holistic education. The institute conducts induction programs on ethics & human values for all F.Y. students which include all programs of the institute

An environmental study is a mandatory course for all second-year engineering programs. In Civil Engineering, a environment course is introduced for the study of environmental impact assessment, audit, green audit, and water and energy conservation. Students learn about climate change and environmental issues in these classes. They also help protect and preserve the natural ecosystem.

In TKIET, students from different states of the nation actively participate in core peer and group learning as well as extracurricular activities such as cultural, NSS and NCC, which include all ages, genders, and different cultures. Institute ensures to address the issue related to woman empowerment, equality in gender, child abuse & responsible living citizen of nation through rallies, street plays by students.

Students are trained in corporate, business, media ethics, and communication skills through training and placement cell.

The institute ensures managerial skills by introducing management courses, entrepreneurial workshops, industrial visits, etc.

File Description	Documents
Upload the list and description of the courses which address issues related to Gender, Environment and Sustainability, Human Values and Professional Ethics in the curriculum	View File
Any additional information	No File Uploaded

1.3.2 - Number of value-added courses for imparting transferable and life skills offered during the year

12

File Description	Documents
List of value-added courses	View File
Brochure or any other document relating to value-added courses	View File
Any additional information	View File

1.3.3 - Number of students enrolled in the courses under 1.3.2 above

745

File Description	Documents
List of students enrolled	View File
Any additional information	View File

1.3.4 - Number of students undertaking field work/projects/ internships / student projects

2166

File Description	Documents
List of programmes and number of students undertaking field projects / internships / student projects	View File
Any additional information	View File

1.4 - Feedback System

1.4.1 - Structured feedback and review of the syllabus (semester-wise / year-wise) is **A. All 4 of the above**

obtained from 1) Students 2) Teachers 3) Employers and 4) Alumni

File Description	Documents
Provide the URL for stakeholders' feedback report	Nil
Upload the Action Taken Report of the feedback as recorded by the Governing Council / Syndicate / Board of Management	View File
Any additional information	View File

1.4.2 - The feedback system of the Institution comprises the following

C. Feedback collected and analysed

File Description	Documents
Provide URL for stakeholders' feedback report	Nil
Any additional information	View File

TEACHING-LEARNING AND EVALUATION

2.1 - Student Enrollment and Profile

2.1.1 - Enrolment of Students

2.1.1.1 - Number of students admitted (year-wise) during the year

2671

File Description	Documents
Any additional information	No File Uploaded
Institutional data in prescribed format	View File

2.1.2 - Number of seats filled against reserved categories (SC, ST, OBC, Divyangjan, etc.) as per the reservation policy during the year (exclusive of supernumerary seats)

624

File Description	Documents
Any additional information	No File Uploaded
Number of seats filled against seats reserved (Data Template)	View File

2.2 - Catering to Student Diversity

2.2.1 - The institution assesses students' learning levels and organises special programmes for both slow and advanced learners.

Under autonomy status of institute, examination performance based mechanism is developed to identify slow and advanced learners. For advanced learners honors degree of advanced area is offered by the institute in which the higher CGPA scored students are allowed for admission. On the other hand make up examination based on the question bank is arranged for slow learner students those who are not able to get minimum required marks in ISE examination. These students are specially counseled by the mentors through remedial classes in addition to that advanced learners are motivated by following activities,

Students are encouraged to take part and organize Inter- college technical festivals like Eureka (Paper Presentation Competition) and Jidnyasa (Project Competition) organized by the institute,

Special classes are conducted by Career Development Cell (CDC) to help them to succeed in national/ international level entrance examinations like GATE, CAT and GRE, CEMAT, etc.

Rank holders are honored during the Annual Social Function with merit certificates and prizes.

For slow learns we are provided,

Remedial classes for respective subject.

Question bank and previous question papers with model answers are provided to these students which helps them to improve their performance in the examination

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	Nil

2.2.2 - Student – Teacher (full-time) ratio

Year	Number of Students	Number of Teachers
01/08/2021	2671	134

File Description	Documents
Upload any additional information	View File

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:

Experimental Learning- Majority of the courses are associated with laboratories wherein students perform various experiments and analyse the results thereof. Additionally, faculty and students are encouraged to use V-Labs. In view of applied experimental learning, students go through inquisitive learning during their F.Y., Mini-project during their T.Y. and Projects in their final year.

Participative Learning: Students are involved in participative learning through flipping classrooms, think pair share and group discussion. Additionally, blended learning technology is adopted wherein faculty combines the traditional method with ICT tools like presentations, online resources, pre-recorded contents. The students of T.Y. present a Seminar on the topic of their choice usually beyond the syllabus. Students are encouraged to participate in NCC and NSS inculcating social awareness and habit of participative learning.

Problem solving methodologies: Students of F.Y. to final year are engaged to work on real life problems to come up with feasible solutions. Inquisitive learning, mini project and final year project are the platforms the students use to involve in problem solving methodologies.

Impact: Through these processes student is exposed to real time problems to propose some feasible solutions and correlate what is learnt and how it is applied practically.

File Description	Documents
Upload any additional information	View File
Link for additional Information	Nil

2.3.2 - Teachers use ICT-enabled tools including online resources for effective teaching and learning

Teachers use e-content developed by them through ICT enabled tools and other e-resources to impart effective teaching. The institute encourages its faculty to participate in various refresher courses, FDPs and STTPs. In addition to this, the teachers are provided with following multimedia teaching aids:

- Number of LCD projectors: 35
- Number of writing pads: 06
- Number of document cameras: 06

To share e-content and assignments with students Google Classroom is used. To communicate important information such as notices with students and parent's technologies such as SMS packs, e-mail, institute portal used effectively.

File Description	Documents
Provide link for webpage describing ICT enabled tools including online resources for effective teaching and learning process	http://tkietwarana.ac.in/home/TKIET%20VLAB
Upload any additional information	No File Uploaded

2.3.3 - Ratio of students to mentor for academic and other related issues

2.3.3.1 - Number of mentors

134

File Description	Documents
Upload year-wise number of students enrolled and full-time teachers on roll	View File
Circulars with regard to assigning mentors to mentees	View File

2.3.4 - Preparation and adherence to Academic Calendar and Teaching Plans by the institution

Academic calendar: Every year Academic Committee of the Institute prepares the academic calendar & discussed with BoS Chairman's and finalized after the approval from the Chairman, Academic Council. The approved calendar will be made available by displaying on the notice boards and on the Institute website before the commencement of the semester of academic year which includes:

- First and last day of instruction, total instructional days in a given semester, schedules of ISE and ESE exams.
- The academic work of Institution strictly adheres with academic calendar. However, in case of any unexpected situations, necessary change will be made in consultation with all Heads, Academic Committee and the same is displayed in notice boards and websites.

Teaching Plan:

BoS Chairman's conducts meetings with their respective faculty well in advance of the commencement of the semester of academic year and allocate subjects. The concerned subject in-charge for each subject prepares a detailed lesson plan of theory and laboratory courses. It gives the syllabus, lecture-wise content, experiments with plan date, and actual date of completion. The BoS Chairman's and AC's check the progress of each course and ensure timely and effective completion of a course in the specified time frame.

File Description	Documents
Upload the Academic Calendar and Teaching Plans during the year	View File

2.4 - Teacher Profile and Quality

2.4.1 - Number of full-time teachers against sanctioned posts during the year

File Description	Documents
Year-wise full-time teachers and sanctioned posts for the year	View File
List of the faculty members authenticated by the Head of HEI	No File Uploaded
Any additional information	No File Uploaded

2.4.2 - Number of full-time teachers with PhD/ D.M. / M.Ch. / D.N.B Super-Specialty / DSc / DLitt during the year

20

File Description	Documents
List of number of full-time teachers with PhD./ D.M. / M.Ch. / D.N.B Super-Specialty / D.Sc. / D.Litt. and number of full-time teachers for 5 years	View File
Any additional information	No File Uploaded

2.4.3 - Total teaching experience of full-time teachers in the same institution: (Full-time teachers' total teaching experience in the current institution)

134

File Description	Documents
List of teachers including their PAN, designation, Department and details of their experience	View File
Any additional information	No File Uploaded

2.5 - Evaluation Process and Reforms

2.5.1 - Number of days from the date of last semester-end/ year- end examination till the declaration of results during the year

45

File Description	Documents
List of Programmes and the date of last semester-end / year-end examinations and the date of declaration of result	View File
Any additional information	No File Uploaded

2.5.2 - Number of students' complaints/grievances against evaluation against the total number who appeared in the examinations during the year

16

File Description	Documents
Upload the number of complaints and total number of students who appeared for exams during the year	View File
Upload any additional information	No File Uploaded

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

Examination Procedures and Assessment System:

The examination is conducted in two forms: the in-semester exam (ISE) and the end-semester exam.(ESE). In-semester examination (ISE) was conducted at the department level under the guidance of the head of the department. There were two in-semester tests each semester for every theory course. Each test was worth 40 marks, and the duration of each test was 90 minutes. The total in-semester exam marks were calculated as the average of all in-semester exams conducted. The ESE is conducted at the end of a semester and has a weightage of 60 marks. The questions covered the entire syllabus, and they are mapped with course and programme outcomes. The evaluation of the examination was done by two different internal examiners. i.e., Evaluator 1 and Evaluator 2

Processes for integrating IT

The entire exam system uses advanced software for all its operations, from entry to the student's exit from the institute. The institute has procured software from Bynaric Systems Ltd., Pune, which is capable of handling all the work related to the

examination.

Continuous Internal Assessment (CIA):

Every student undergoes a continuous assessment of his or her performance in a semester on the following criteria: attendance, assignments, test performance, oral, etc.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional Information	http://tkietwarana.ac.in/exam/

2.6 - Student Performance and Learning Outcomes

2.6.1 - Programme Outcomes and Course Outcomes for all Programmes offered by the institution are stated and displayed on the website and communicated to teachers and students

The institute is dedicatedly working to achieve the vision and mission of institute. The journey towards mission is frame worked with support of Outcome Based Education (OBE), which deals with POs, PSOs, and COs attainment. In the framework of this, POs, PSOs, and COS are defined with reference to graduate attributes. The members of the Board of Governors (BoG), Academic Council, Board of studies (BoS), and Department Advisory Board (DAB) contribute to the process of finalization of these statements. Once the approval is received from all statutory bodies, they are uploaded on the institution's website.

To make the awareness and realization of the depth of meaning of the institution's vision, missions in address developing into holistic professionals, PEOs, POs, and COs are communicated to all teachers, students, and major stakeholders.

The mechanism of communication is as follow,

1. At the commencement of the academic year, all department faculty prepare the teaching-learning plan by keeping in mind, the perspective of COs, POs, and PSOs of their program and courses.
2. Learning outcomes are publicized through
 - Publications - Syllabus books, Calendar, Records.
 - Display - HoD Cabine, Classrooms, Laboratories, Corridors, Website.

- Question Paper contains POs – COs mapping

File Description	Documents
Upload COs for all courses (exemplars from the Glossary)	No File Uploaded
Upload any additional information	No File Uploaded
Link for additional Information	http://tkietwarana.ac.in/IQAC/CO-PO-of-Different-Programs

2.6.2 - Attainment of Programme Outcomes and Course Outcomes as evaluated by the institution

A well-defined process for attainment calculations of COs, POs in Institute has adopted outcome best education system last year, the process of CO-PO attainment is defined and modified as per requirement of autonomous institute. Some special efforts have been done by the institute and IQAC to create awareness amongst the students and faculty. The entire process is summarized as follows,

Following Direct methods are used

1. ESE
2. ISE -I and II
3. MU Examination
4. POE
5. Seminar
6. PBL

These methods are assessed by conducting the theory examination, presentation, or using defined Rubrics. Different marks for these methods are allotted as per the importance of the method.

1. Course teachers decide the target for the attainment of COs. The data of the direct method is analyzed to compare the attainment target. The excel sheet/software is also used in this task. This attainment level is measured on the scale of Substantial -3, Moderate-2, and Lower -1.
2. After this, using COs- POs mapping the attainment of the POs are calculated based on the Direct methods.
3. For POs attainment, some indirect methods are also used such as Employer, parent, alumni feedback, and students exit survey.
4. In the end, 80 % weightage is given to direct methods and 20

% is given to indirect methods to calculate final POs and PSO attainment.

5. This attainment calculation is further analyzed to find the curriculum gap for slow learners or to enrich the curriculum for the advanced learner.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional Information	Nil

2.6.3 - Pass Percentage of students

2.6.3.1 - Total number of final year students who passed in the examinations conducted by Institution

607

File Description	Documents
Upload list of Programmes and number of students appear for and passed in the final year examinations	View File
Upload any additional information	No File Uploaded
Paste link for the annual report	Nil

2.7 - Student Satisfaction Survey

2.7.1 - Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design its own questionnaire). Results and details need to be provided as a weblink

<http://www.tkietwarana.ac.in/naac/details.aspx?title=Student%20Satisfaction%20Survey>

RESEARCH, INNOVATIONS AND EXTENSION

3.1 - Promotion of Research and Facilities

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

The institute has drafted all-inclusive and futuristic policy for promoting and inculcating the culture of research and consultancy. This policy is approved by the institute management. Students and

faculty are encouraged to undertake research and consultancy projects based on industrial or social problems. This practice ensures strengthening of research profile of the Individual as well as that of the Institute. Further, faculty are provided appropriate incentives for undertaking research projects and subsequent activities. Under academic autonomy, the institute has introduced the subject called "Inquisitive Learning" since first year to promote creative thinking and critical analysis skills amongst the students. Institute provides resources to students required to complete the academic projects. Chemical department of the institute hosts Ph.D. research centre approved by Shivaji University, Kolhapur. Three research scholars are pursuing their doctorate degree. Mechanical department is in process of applying for Ph.D. research centre. Four departments of the institute offer PG programs and hosts research laboratories where students are provided with infrastructure and facilities to work on their PG projects All departments are provided with annual development funds for upgrading respective labs. In addition to this, the institute also submits proposals to different funding agencies for research funds as well as lab up gradation.

File Description	Documents
Upload the Minutes of the Governing Council/ Syndicate/Board of Management related to research promotion policy adoption	View File
Provide URL of policy document on promotion of research uploaded on the website	Nil
Any additional information	No File Uploaded

3.1.2 - The institution provides seed money to its teachers for research

3.1.2.1 - Seed money provided by the institution to its teachers for research during the year (INR in lakhs)

1.87

File Description	Documents
Minutes of the relevant bodies of the institution regarding seed money	No File Uploaded
Budget and expenditure statements signed by the Finance Officer indicating seed money provided and utilized	View File
List of teachers receiving grant and details of grant received	No File Uploaded
Any additional information	No File Uploaded

3.1.3 - Number of teachers who were awarded national / international fellowship(s) for advanced studies/research during the year

0

File Description	Documents
e-copies of the award letters of the teachers	No File Uploaded
List of teachers and details of their international fellowship(s)	No File Uploaded
Any additional information	No File Uploaded

3.2 - Resource Mobilization for Research

3.2.1 - Grants received from Government and Non-Governmental agencies for research projects, endowments, Chairs during the year (INR in Lakhs)

36.39

File Description	Documents
e-copies of the grant award letters for research projects sponsored by non-governmental agencies/organizations	View File
List of projects and grant details	View File
Any additional information	No File Uploaded

3.2.2 - Number of teachers having research projects during the year

2

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional Information	Nil
List of research projects during the year	View File

3.2.3 - Number of teachers recognised as research guides

3

File Description	Documents
Upload copies of the letter of the university recognizing teachers as research guides	View File
Institutional data in Prescribed format	View File

3.2.4 - Number of departments having research projects funded by Government and Non-Government agencies during the year

1

File Description	Documents
Supporting document from Funding Agencies	View File
Paste link to funding agencies' website	Nil
Any additional information	No File Uploaded

3.3 - Innovation Ecosystem

3.3.1 - Institution has created an ecosystem for innovations and creation and transfer of knowledge supported by dedicated centres for research, entrepreneurship, community orientation, incubation, etc.

Yes, Institute has created an ecosystem to for innovation and entrepreneurship by establishing Innovation and entrepreneurship development cell (IEDC), Institute innovation council (IIC) for promoting innovation and entrepreneurship activity. Even Institute formulate National Innovation and startup policy(NISP) which inline All India council for technical education(AICTE) and Govt. of India initiative to promote entrepreneurship by providing

technology, research, Innovation and Industrial connectivity.

To inculcate innovation in student mindset under autonomy institute introduce Project Based Learning (PBL) to first year student. These projects are solution to real world a real world problem for better learning experience along with classroom teaching.

To acquire the entrepreneurship skills in students institute collaborate with All India council for technical education(AICTE), Institute innovation council (IIC), National Innovation Page and startup policy (NISP), ARIIA, Tata Centre IIT Mumbai, Million Mind, Maharashtra cell for entrepreneurship development (MCED).

We arrange Different session to boost entrepreneurial skills of student such as Entrepreneurship awareness camp (EAC), Business Idea Competitions, Expert session, MIC Driven Sessions ETC.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

3.3.2 - Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR), Entrepreneurship and Skill Development during the year

11

File Description	Documents
Report of the events	View File
List of workshops/seminars conducted during the year	View File
Any additional information	View File

3.4 - Research Publications and Awards

3.4.1 - The Institution ensures implementation of its Code of Ethics for Research uploaded in the website through the following: Research Advisory Committee Ethics Committee Inclusion of Research Ethics in the research methodology course

C. Any 2 of the above

**work Plagiarism check through
authenticated software**

File Description	Documents
Code of Ethics for Research, Research Advisory Committee and Ethics Committee constitution and list of members of these committees, software used for plagiarism check	View File
Any additional information	No File Uploaded

3.4.2 - Number of PhD candidates registered per teacher (as per the data given with regard to recognized PhD guides/ supervisors provided in Metric No. 3.2.3) during the year

3.4.2.1 - Number of PhD students registered during the year

4

File Description	Documents
URL to the research page on HEI website	Nil
List of PhD scholars and details like name of the guide, title of thesis, and year of registration	View File
Any additional information	No File Uploaded

3.4.3 - Number of research papers per teacher in CARE Journals notified on UGC website during the year

13

File Description	Documents
List of research papers by title, author, department, and year of publication	View File
Any additional information	No File Uploaded

3.4.4 - Number of books and chapters in edited volumes / books published per teacher during the year

1

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

3.4.5 - Bibliometrics of the publications during the year based on average Citation Index in Scopus/ Web of Science/PubMed

3.4.5.1 - Total number of Citations in Scopus during the year

78

File Description	Documents
Any additional information	No File Uploaded
Bibliometrics of the publications during the year	No File Uploaded

3.4.6 - Bibliometrics of the publications during the year based on Scopus/ Web of Science – h-Index of the University

3.4.6.1 - h-index of Scopus during the year

0

File Description	Documents
Bibliometrics of publications based on Scopus/ Web of Science - h-index of the Institution	No File Uploaded
Any additional information	No File Uploaded

3.5 - Consultancy

3.5.1 - Revenue generated from consultancy and corporate training during the year (INR in lakhs)

1.68

File Description	Documents
Audited statements of accounts indicating the revenue generated through consultancy and corporate training	View File
List of consultants and revenue generated by them	No File Uploaded
Any additional information	No File Uploaded

3.5.2 - Total amount spent on developing facilities, training teachers and clerical/project staff for undertaking consultancy during the year

1.68

File Description	Documents
Audited statements of accounts indicating the expenditure incurred on developing facilities and training teachers and staff for undertaking consultancy	View File
List of training programmes, teachers and staff trained for undertaking consultancy	No File Uploaded
List of facilities and staff available for undertaking consultancy	No File Uploaded
Any additional information	No File Uploaded

3.6 - Extension Activities

3.6.1 - Extension activities carried out in the neighbourhood sensitising students to social issues for their holistic development, and the impact thereof during the year

The institute management always inspires students and faculty participation in social activities and drives for adhering to ethical values. Social activities like tree plantation, COVID-2k19 Vaccination Camp at TKIET, Warananagar as well as at A/P Kekhale, Tal- Panhala Dist.- Kolhapur, Shram-daan at college campus, Maji-Vasundhara Abhiyan Oath, Organization of Shree Rajashri Shahu Maharaj 100th Death Anniversary with a silence of 100 seconds throughout in the campus. Also celebration of Azadi ka Amrut Mahotsav on the occasion of 75th Years of Celebration of India's Independence. All the Faculty members and students visit the Warana Matimand Vidyalaya (School of handicapped) and help them by

donating money. The flag hoisting ceremony conducted on Independence Day, Republic Day involving the NSS & NCC students, local government authorities and guests. Organize events like Eureka and Jidnyasa which bring students of various colleges and give them a platform to showcase and share their technical ideas.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	Nil

3.6.2 - Number of awards and recognition received by the Institution, its teachers and students for extension activities from Government / Government-recognised bodies during the year

17

File Description	Documents
Number of awards for extension activities in during the year	View File
e-copy of the award letters	No File Uploaded
Any additional information	No File Uploaded

3.6.3 - Number of extension and outreach programmes conducted by the institution through NSS/NCC/Red Cross/YRC, etc. during the year (including Government-initiated programmes such as Swachh Bharat, AIDS Awareness, and Gender Sensitization and those organised in collaboration with industry, community and NGOs)

20

File Description	Documents
Reports of the events organized	View File
Any additional information	No File Uploaded

3.6.4 - Number of students participating in extension activities listed in 3.6.3 during the year

1082

File Description	Documents
Reports of the events	View File
Any additional information	View File

3.7 - Collaboration

3.7.1 - Number of collaborative activities during the year for research/ faculty exchange/ student exchange/ internship/ on-the-job training/ project work

249

File Description	Documents
Copies of documents highlighting collaboration	View File
Any additional information	No File Uploaded

3.7.2 - Number of functional MoUs with institutions of national and/or international importance, other universities, industries, corporate houses, etc. during the year (only functional MoUs with ongoing activities to be considered)

31

File Description	Documents
e-copies of the MoUs with institution/ industry/ corporate house	View File
Details of functional MoUs with institutions of national, international importance, other institutions etc. during the year	View File
Any additional information	No File Uploaded

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 equipments, etc.

The institute has sufficient physical infrastructure and facilities for the ongoing academic and administrative programmes, co-curricular activities, and extracurriculars. The Institute develops the essential infrastructure in a methodical and ongoing manner with a futuristic perspective of necessity and usefulness in order to meet upcoming requirements. Five major departments each have a state-of-the-art auditorium, five well-furnished seminar halls, language labs, departmental libraries, equipped labs, and five well-appointed classrooms. Excellent IT facilities at the institute include a 610 Mbps broadband connection and over 650 PCs connected to a wired network. e-learning resources in the

data centre total more than 12 TB. A dedicated SNS (System Network Support) department is responsible for overseeing the complete ICT and IT infrastructure. The institute's campus covers a 15-acre area, and there are a number of recreational amenities there, including a playground, an indoor stadium, an indoor swimming pool, a gymnasium, a restaurant, and a bank extension counter area. The availability of additional infrastructure will depend on the curriculum and new programmes. Infrastructure and other facilities are in ample supply. The university has well-equipped seminar halls with an audio-visual equipment, as well as large, comfortable classrooms with ICT amenities. Each department has a variety of labs with cutting-edge gear and equipment, supported by a language lab, a communication skills lab, and a central computing facility. The institute offers e-learning tools, 24-hour Wi-Fi access to the Internet, and a digital library with a sizable selection of e-books and e-materials.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

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

Sports participation as an extracurricular activity is encouraged and supported for all students. The college has a gymkhana department run by a committed physical director to handle planning and promoting different sporting events. The majority of the athletic competitions held at the district, university, zone, inter-zonal, and state levels are organised by the gymkhana department. Additionally, the gymkhana department encourages students to take part in renowned sports competitions outside of campus at various levels. It hosts an annual sports day to recognise and honour deserving students who have competed in and won awards in team and individual sporting events at various locations. The institution offers all necessary facilities in order to promote the student's interest in cultural pursuits. By the formation of numerous committees made up of faculty and student representatives, the school has created best practices for the management of cultural events. These committees include the Culture Committee, the Horizon Committee, the Marathi Sahitya Mandal Committee, and the Nature Club. For all cultural events held for both staff and students, the Institute offers a well-

equipped indoor, open auditorium. Traditional Day and Annual Social Function are two annual cultural events. Students who excelled at performing musical art had formed their own group, "AKSHSTRA," or a student orchestra.

The institute features a centre for yoga and meditation where different yoga camps are held. Several academic staff members and students volunteer to arrange these camps with the help of certified yoga teachers.

File Description	Documents
Geotagged pictures	View File
Upload any additional information	View File
Paste link for additional information	Nil

4.1.3 - Number of classrooms and seminar halls with ICT-enabled facilities

29

File Description	Documents
Upload any additional information	View File
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	View File

4.1.4 - Expenditure for infrastructure augmentation, excluding salary, during the year (INR in Lakhs)

31.50

File Description	Documents
Upload audited utilization statements	No File Uploaded
Details of Expenditure, excluding salary, during the years	View File
Any additional information	No File Uploaded

4.2 - Library as a Learning Resource

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

The Library is fully automated with Purna Library Management Application (Library Management System) since 2010, the current version of the software is 2.0 this software package is an integrated multi-user Library management system that supports all in-house operations of the Library. The Purna Library Management Application consists of modules on Acquisition, Cataloguing, Circulation, Serial Control, Utilities and OPAC. Retrospective conversion of bibliographic records has been completed and more than 58,440 bibliographic records of books and 87 records of Print Journals are available in the library can now be accessed through this library management software OPAC. The database of books available in the Library is being updated on day to day basis with details of recently acquired books. Records of all the Library patrons have also been created in the Library Management System.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

4.2.2 - Institution has access to the following: A. Any 4 or more of the above e-journals e-ShodhSindhu Shodhganga Membership e-books Databases Remote access to e-resources

File Description	Documents
Details of subscriptions like e-journals, e-books, e-ShodhSindhu, Shodhganga membership	View File
Upload any additional information	View File

4.2.3 - Expenditure on purchase of books/ e-books and subscription to journals/e-journals during the year (INR in lakhs)

File Description	Documents
Audited statements of accounts	No File Uploaded
Any additional information	View File
Details of annual expenditure for purchase of books/e-books and journals/e- journals during the year (Data Template)	View File

4.2.4 - Usage of library by teachers and students (footfalls and login data for online access)

4.2.4.1 - Number of teachers and students using the library per day during the year

241

File Description	Documents
Upload details of library usage by teachers and students	View File
Any additional information	No File Uploaded

4.3 - IT Infrastructure

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

The current IT infrastructure is well-equipped in the institute. For the purpose of teaching and learning, it is easily accessible. The institute regularly updates its ICT-enabled infrastructure. The institute's IT policy mandates the installation of legal/licensed software as well as timely maintenance.

Hardware infrastructure:

- Computers - 520
- Servers - 10
- Data Centre - 1No
- Storage - 2 Nos (36TB + 72TB)
- Projectors - 52 Nos
- Printer - 45 Nos

Networking infrastructure:

- LAN (1000 nodes 1000 Mbps LAN with 10Gbps OFC backbone)
- Wi-Fi enabled network with 16 access points.
- Core Switch

(1) Bandwidth details: Total 610 Mbps

- 500 Mbps Airtel Leased Line (1:1),
- 100 Mbps In-Digital Broadband,
- 10 Mbps NKN BSNL Broadband
- 100 Mbps Wi-Fi Hotspots in Various Important Location, JioFi Wi-Fi Campus with 252 Wi-Fi Antenna in the entire campus

(2) Security Features (Firewall/Antivirus/CCTVs)

- Unified Threat Management (UTM) XG next-generation firewall, Cyberoam CR 300 iNG & SOPHOS XG 330 with user-based authentications, Intrusion Prevention, VPN, content access, controlled bandwidth
- Sophos Intercept X Endpoint Antivirus and Seqrite Antivirus Endpoint or Computer client
- 24/7 150 + CCTV Camera for monitoring for Computer Labs, passages & corridors of important palaces.

(3) Software Details (academic, examination, Server, Language base software)

- Office automation software CMS to automate all processes
- Library Automation software web OPAC, Eklavya Mobile App.
- Oriell Language lab software of 25 Nodes
- The institute has provided an official email address to every faculty with domain tkietwarana.ac.in. This enterprise email solution is provided by Google

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

4.3.2 - Student - Computer ratio

Number of Students	Number of Computers
2671	520

File Description	Documents
Upload any additional information	No File Uploaded

4.3.3 - Bandwidth of internet connection in the Institution and the number of students on campus **A. 50 Mbps**

File Description	Documents
Details of bandwidth available in the Institution	View File
Upload any additional information	No File Uploaded

4.3.4 - Institution has facilities for e-content development: **B. Any three of the above**
Facilities available for e-content development
Media Centre
Audio-Visual Centre
Lecture Capturing System (LCS)
Mixing equipments and software for editing

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	Nil
List of facilities for e-content development (Data Template)	View File

4.4 - Maintenance of Campus Infrastructure

4.4.1 - Expenditure incurred on maintenance of physical and academic support facilities, excluding salary component, during the year (INR in lakhs)

83

File Description	Documents
Audited statements of accounts	View File
Upload any additional information	No File Uploaded

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

The maintenance and use of diverse physical, academic, and support facilities are conducted in accordance with the following policies.

Dean Academics Auditorium assigns classrooms and laboratories. Seminar Halls are reserved and assigned with the previous approval of the principal. HoDs are assigned by the various in-charges. Following an event, the responsible department must provide necessary maintenance and cleanliness. Infrastructure, lab equipment, computers, etc. maintenance-related concerns are closely watched by the concerned maintenance team, and their reports are properly logged. For the repair and upkeep of important equipment, certain departments have Annual Maintenance Contracts (AMC) with the businesses/suppliers. The main library is outfitted with modern technology, including high-end computers with seamless Internet connectivity, dedicated reading rooms, and a touchscreen kiosk for displaying library information. All IT infrastructure must be maintained and cared for by the System and Network Support (SNS) staff. The SNS team's head, system network administrator, technicians, and corresponding lab assistants are in charge of repair and upkeep.

Utility services like housekeeping, electrical systems, elevators, air conditioners, and sewage treatment are periodically serviced, and logs are kept. An experienced physical director, assistant to the physical director, and departmental coordinators are in charge of the institute's devoted sports department. The sports facilities are maintained and controlled by peons. It is routine practise to check the inventory in the labs and classroom spaces. The laboratory have undergone regular sanitation procedures.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	Nil

STUDENT SUPPORT AND PROGRESSION

5.1 - Student Support

5.1.1 - Number of students benefitted by scholarships and freeships provided by the Government during the year

2172

File Description	Documents
Upload self-attested letters with the list of students receiving scholarships	View File
Upload any additional information	No File Uploaded

5.1.2 - Number of students benefitted by scholarships and freeships provided by the institution and non-government agencies during the year

310

File Description	Documents
Upload any additional information	No File Uploaded
Institutional data in prescribed format	View File

5.1.3 - The following Capacity Development and Skill Enhancement activities are organised for improving students' capabilities Soft Skills Language and Communication Skills Life Skills (Yoga, Physical fitness, Health and Hygiene) Awareness of Trends in Technology **A. All of the above**

File Description	Documents
Link to Institutional website	www.tkietwarana.ac.in
Details of capability development and schemes	View File
Any additional information	No File Uploaded

5.1.4 - Number of students benefitted from guidance/coaching for competitive examinations and career counselling offered by the institution during the year

954

File Description	Documents
Any additional information	No File Uploaded
Number of students benefited by guidance for competitive examinations and career counseling during the year (Data Template)	View File

5.1.5 - The institution adopts the following mechanism for redressal of students' grievances, including sexual harassment and ragging: Implementation of guidelines of statutory/regulatory bodies Creating awareness and implementation of policies with zero tolerance Mechanism for submission of online/offline students' grievances Timely redressal of grievances through appropriate committees

A. All of the above

File Description	Documents
Minutes of the meetings of students' grievance redressal committee, prevention of sexual harassment committee and Anti-ragging committee	View File
Details of student grievances including sexual harassment and ragging cases	View File
Upload any additional information	No File Uploaded

5.2 - Student Progression

5.2.1 - Number of outgoing students who got placement during the year

641

File Description	Documents
Self-attested list of students placed	View File
Upload any additional information	No File Uploaded

5.2.2 - Number of outgoing students progressing to higher education

53

File Description	Documents
Upload supporting data for students/alumni	No File Uploaded
Details of students who went for higher education	View File
Any additional information	No File Uploaded

5.2.3 - Number of students qualifying in state/ national/ international level examinations during the year

5.2.3.1 - Number of students who qualified in state/ national/ international examinations (e.g.: IIT-JAM/NET/SET/JRF/ GATE /GMAT /CAT/ GRE/ TOEFL/Civil Services/State government examinations) during the year

25

File Description	Documents
Upload supporting data for students/alumni	View File
Any additional information	No File Uploaded

5.3 - Student Participation and Activities

5.3.1 - Number of awards/medals for outstanding performance in sports and/or cultural activities at inter-university / state /national / international events (award for a team event should be counted as one) during the year

86

File Description	Documents
e-copies of award letters and certificates	View File
Any additional information	View File

5.3.2 - Presence of an active Student Council and representation of students in academic and administrative bodies/committees of the institution

Students Council is constituted, according to UGC and University guidelines, in the institute. The members on the student council involve in many administrative, academic, co-curricular and extra-curricular activities under the guidance of one of the senior faculty member.

The student's representatives serve on Departmental Advisory board, Board of Studies, Departmental Associations, IQAC etc. Activities under students association are completely organized by students.

For inter-college cultural & sports activities the Cultural and Sports Secretary forms the teams and represents the institute. Students are also encouraged to be a part of the extension and outreach activities like NSS, Community Services as an Institute Social Responsibility. For each committee, a dedicated faculty coordinator guides and manages all the activities in these committees.

Various committees have been structured in the institute:

- 1) IQAC
- 2) Anti Ragging and Student Discipline Committee etc.
- 3) Library committee
- 4) Gymkhana Committee
- 5) Cultural Committee
- 6) Grievance Redressal Committee
- 7) Hostel and Health Care Committee
- 8) Women Empowerment Cell
- 9) Sexual Harassment Prevention committee
- 10) Innovation and Entrepreneurship Development Cell (IEDC) identifies
- 11) Career Development Cell (CDC) promotes and encourages higher education, competitive examinations.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

5.3.3 - Number of sports and cultural events / competitions organised by the institution

16

File Description	Documents
Report of the event	View File
List of sports and cultural events / competitions organised per year	View File
Upload any additional information	No File Uploaded

5.4 - Alumni Engagement

5.4.1 - The Alumni Association and its Chapters (registered and functional) contribute significantly to the development of the institution through financial and other support services

The institution has registered Alumni Association. The chapters of association are formed at major cities like Kolhapur, Ratnagiri, Pune, Mumbai, Delhi, Chennai, and Hyderabad, Bangalore in India and abroad (List of Functional Chapters is attached).

Activities and contribution of Alumni Association

1. Chapter Formation: Organizing alumni meets centrally and chapter wise.
2. Providing training to the students.
3. Assisting in placement activity and internship to students.
4. Providing help for needy alumni.
5. Major contribution from Alumni for institutional development: Alumni have helped the institute in following ways like Donation of books to library, donating licensed software, industrial trainings, placement assistance, and scholarship to needy and budding students.
6. Financial Support during Academic Year (2021 -2022) - Rs. 16,10,544/- (Rupees Nineteen Lakhs twenty-one thousand one hundred twenty-two only) for UG students' scholarships.
7. The other financial contributions of Rs. Rs. 1,69,18,060/- including student scholarship.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	http://tkietwarana.ac.in/alumni/alumni-association

5.4.2 - Alumni's financial contribution during the year A. ? 15 Lakhs

File Description	Documents
Upload any additional information	View File

GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 - Institutional Vision and Leadership

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

The principal monitors the mechanism regarding administration and the academic process. He also ensures proper implementation of the policies, rules, and action plans of the college. The empowered team of the college involves the Principal, HODs, Registrar, Deans, TPO, convener of different committees, IQAC committee, teaching-staff, non-teaching and supporting staff, student's council, stakeholders, alumni and a college development committee is dedicated to catering quality technical education. IQAC, TPO, CDC, and student council are involved in the academic and administrative decision meetings. There is the well-organized composition of AC, BOS, BOE, and FC also exists with representatives from universities, other academic universities, Industrial alumni, and students which actively participate in the governance of the institute to meet expectations as per the institute's vision, mission, and quality policy.

There are many committees to support the vision and mission of the college like Examination cell, NSS, NCC, CDC, TPO, C.C, R&D, IEDC, etc. There are more than 30 different cells composed of staff and students who are also exposed to the decision as per cell objectives. The vision of the institute is to become an academy of excellence in technical education and human resource development. This vision is being constantly achieved through activities like implementing quality teaching-learning processes by using modern

tools, skilling students to become employable curricula in tune with industry needs, and inculcating attitudes in students for lifelong learning and ethics.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	http://tkietwarana.ac.in/about_tkiet/Visio n-Mission#

6.1.2 - Effective leadership is reflected in various institutional practices such as decentralization and participative management

The administrative and academic decentralization of powers in education promises to become efficient, and better reflect on local priority, encourage stakeholders' participation, enhances learning outcomes and teaching quality. Thus it makes institute practices transparent at all levels such as Management, administration, financial and Academic practices. The governing council is the apex authority that monitors and implements rules and regulations and to delegate the process to various bodies like AC, IQAC, BOS, BOE, and FC to look into activities and smooth functioning. The academic and administrative body of TKIET practices a culture of participative management by involving faculty members, student alumni, and employees in various committees.

The administrative powers and responsibilities are distributed and executed through the participative management of the Managing Committee, the administrative officer, the principal, the deans, the Heads of the Departments, and the Faculty members. Knowing the inclusive significance of decentralization and participative management, the principal heads the College Council which comprises all the deans, Heads of the Departments, and Special Invitees. To support and monitor co-curricular and extracurricular activities of the student institute has more than 10 committees at the department level as well as at institute levels. The committees are composed of faculty students and external members who effectively implement these activities.

File Description	Documents
Upload strategic plan and deployment documents on the website	No File Uploaded
Upload any additional information	View File
Paste link for additional Information	http://tkietwarana.ac.in/about_tkiet/Vision-Mission#

6.2 - Strategy Development and Deployment

6.2.1 - The institutional Strategic/ Perspective plan has been clearly articulated and implemented

In the preparation of the strategic plan top management and IQAC is involved. Aspects like new courses, additional intake, infrastructural development & welfare schemes extra will be decided by management. The institute has a strategic plan as per a quality policy confirming its Vision and Mission. While IQAC decides quality check system to be followed like feedback, from stakeholder academic audits, and accreditation. The quality improvement strategies for the following aspects have been decided along with their implementation plans.

- Teaching learning
- Mode and conduct of examination
- Research and Development activities
- Industry e internships
- Human Resource Management
- Community engagement
- e-books and journal services
- Free book banks for all students
- Newspaper clipping services
- Best Raider award schemes
- Best reviewer award schemes
- Reference book services
- Plagiarism checking services
- INFLIBNET, NDIL, and another nationally recognized library
- Separate reading hall study room facility for boys and girls
- Old question paper Bank facility to students
- Separate departmental libraries as an immediate source of reference

Using the TKIET library activity is one such strategic plan activity that ensures the use of library resources activity as the

strategic plan

All the library books have been coded and automated using PURNA-librarymanagement applications. Apart from a comprehensive collection of books the library also offers various vital services.

File Description	Documents
Strategic Plan and deployment documents on the website	No File Uploaded
Paste link for additional information	Nil
Upload any additional information	No File Uploaded

6.2.2 - The functioning of the various institutional bodies is effective and efficient as visible from the policies, administrative set-up, appointment and service rules, procedures, etc.

Tatyasaheb Kore Institute of Engineering and Technology has been established in 1983. It has a Governing body to monitor and achieve the vision and mission of the institution. It has an effective organizational structure that monitors and improves the institution. The organizational structure of the institution is given below.

Organizational Structure:

The basic structure of organizational management is prepared as per the guidelines of UGC, AICTE, DTE, and the university. The organizational functions and powers are also being governed as per the rules and regulations of Apex bodies.

The institute is run by the trust SWVSM. The trust has constituted governing body for the institute consisting of members from AICTE, UGC, DTE, and the university. The principal heads the academic and administrative departments and acts as an interface between management, staff, and students. The governing body has approved the TKIET handbook of rules regulations and responsibilities from the academic year 2020-21 which covers the rules and regulations for appointments, services r, rules and procedures for staff discipline, rules, and responsibilities, campus code of conduct, general guidelines, etc.

As per organizational structure, power has been decentralized to the Dean, HODs, COE (Control of Examiner), registrar, etc. These

officers execute the power for transparent smooth functioning of activities under institutional bodies like the Academic Council, IQAC, BOS, BOE(Board of Examination), etc.

File Description	Documents
Paste link to Organogram on the institution webpage	Nil
Upload any additional information	No File Uploaded
Paste link for additional Information	Nil

6.2.3 - Implementation of e-governance in areas of operation: Administration Finance and Accounts Student Admission and Support Examination

A. All of the above

File Description	Documents
ERP (Enterprise Resource Planning) Documen	No File Uploaded
Screen shots of user interfaces	No File Uploaded
Details of implementation of e-governance in areas of operation	View File
Any additional information	No File Uploaded

6.3 - Faculty Empowerment Strategies

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

The institute effectively implements various welfare schemes for its teaching and non-teaching staff regularly those are.

1. EPF
2. Group Insurance
3. Gratuity for the employees of the institution.
4. Safety shoes, aprons, and uniforms for non-teachingstaff.
5. Concession in tuition fees for children of the employee.
6. Dividends and Diwali gifts vouchers through credit society
7. Merit scholarships to children of an employee for securing rank or high marks (%) in various examination

All the teaching and non-teaching staff benefitted from the above schemes

Motivation through counseling is also available for staff members to create a healthy working environment. This not only increases the work-life balance of the employee; it also helps us in increasing productivity and allows our staff to work effectively with complete satisfaction. Skill development courses are organized for non-teaching staff to enhance their skills in the work environment.

Maternity leaves and study leaves are extra for eligible staff. Financial assistance for paper Publications, attending workshops and training programs by the industries ,Scholarships for ward of the staff for securing the highest marks and Standardized rent for staff members staying in staff quarters are some of the other schemes for the teaching and non-teaching staff.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	Nil

6.3.2 - Number of teachers provided with financial support to attend conferences / workshops and towards payment of membership fee of professional bodies during the year

2

File Description	Documents
Upload any additional information	No File Uploaded
Details of teachers provided with financial support to attend conference, workshops etc during the year (Data Template)	View File

6.3.3 - Number of professional development / administrative training programmes organized by the Institution for its teaching and non-teaching staff during the year

9

File Description	Documents
Reports of the Human Resource Development Centres (UGC HRDC/ASC or other relevant centres)	View File
Upload any additional information	No File Uploaded

6.3.4 - Number of teachers who have undergone online/ face-to-face Faculty Development Programmes during the year: (Professional Development Programmes, Orientation / Induction Programmes, Refresher Courses, Short-Term Course, etc.)

23

File Description	Documents
Summary of the IQAC report	No File Uploaded
Reports of the Human Resource Development Centres (UGC ASC or other relevant centers)	View File
Upload any additional information	No File Uploaded

6.4 - Financial Management and Resource Mobilization

6.4.1 - Institution conducts internal and external financial audits regularly

TKIET regularly conducts internal and external financial audits. It has had a full-time Treasurer and Accounts Department since its inception to ensure the maintenance of annual accounts and audits.

Internal audit is voluntary appraisal activity undertaken to assure the effectiveness of internal controls, risk management, and governance to facilitate the achievement of organizational objectives. Internal audit is covered our activities like

- Monitoring internal controls and proposing improvement
- To monitor the compliance of laws and regulations of trust
- Monitoring the instances of any wrong practice if any.
- Verifying necessary financial information Institute follows an audit system regularly

In the first phase, a trimonthly audit is done as an internal audit. The auditors are appointed by the governing body. The external audit is done once a year. This external audit is done by

a chartered accountant firm. The findings of internal audits will be discussed with the trust account officer and actions are taken to resolve discrepancies if any. Through the internal audit, the balance sheet along with the audit report is submitted to the trust authorities for review. The audited balance sheet is put before the finance committee and governing body for approval. As the use of auditable financial sources is effectively monitored their major financial objectives are pointed out hence confluence does not arise

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

6.4.2 - Funds / Grants received from non-government bodies, individuals, and philanthropists during the year (not covered in Criterion III and V) (INR in lakhs)

6

File Description	Documents
Annual statements of accounts	No File Uploaded
Details of funds / grants received from non-government bodies, individuals, philanthropists during the year	View File
Any additional information	No File Uploaded

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

The major sources of receipts for the institution are the tuition fees and other fees paid by the students. These fees are being approved by the fees regulating authority under the State Government of Maharashtra. Students who are taking the admission to the institute have applied for various scholarship schemes are

- Scholarship to reservation category and economically weaker students. these accounts are around more than 95% total scholarship received
- Tatyasaheb Kore SahakariSakharKarkhanamembers children's scholarship
- Late SrimatiShobha Tai Kore scholarship for meritorious as

well as poor students

- TKIET alumni scholarship for meritorious as well as poor students

At the beginning of the year financial provisions required for day-to-day functioning and development activities are from each department. Based on this account section prepares the budget and puts it for scrutiny and approval from the finance committee. Then the finance committee puts it in front of governing council for its final approval. All purchases are made with the recommendation of the purchase committee.

expenditure recurring or non-recurring transactions through the bank by online payment or by cheques. Every transaction is supported by vouchers.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional Information	Nil

6.5 - Internal Quality Assurance System

6.5.1 - Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing quality assurance strategies and processes visible in terms of incremental improvements made during the preceding year with regard to quality (in case of the First Cycle): Incremental improvements made during the preceding year with regard to quality and post-accreditation quality initiatives (Second and subsequent cycles)

Examination reforms are essential to time to time to accomplish the need of Education process under autonomy. IQAC has taken initiatives to make effective reforms in Pre and Post Exam process software, paper assessment and result declaration process. These are

1. The entire exam system uses advanced software for all its operation from entry to the exit of student from institute. Institute has procured software from Bynaric systems Ltd Pune which is capable of handling ISE and ESE . All work related to pre examination, its conduct and post examination are efficiently handled by software
1. All students had to register for their Regular and supplementary examinations through online mode only.

2. Students could download their hall tickets through exam portal online.
3. Students and parents could see their results through online and get notifications also.

IQAC has emphasised this issue by Intellectual Properties (IP) Policy and Research funding for Paper Publication Policies to accelerate this area. In new IP Policy following ownership of IPR and Sharing of fees for IPR process are redefined.

1. IP Generated from Research Conducted by Utilizing Resources of TKIET
2. ?IP Generated from Research & Development Conducted in Collaboration with External Partner
3. Sharing of Costs with Regard to IP Protection

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	Nil

6.5.2 - The institution reviews its teaching-learning process, structures and methodologies of operation and learning outcomes at periodic intervals through its IQAC as per norms

- 1) IQAC conductsthe Students feedback and Academic Audit (AA) of all programs for each semester. The outcomes of these activities and its action taken process maintain the good quality of the teaching.
- 2) IQAC collects the Continuous Assessment Report (CAR) of all courses of all departments to get idea about the syllabus completion or progress.
- 3) After ISE - I and II results, the slow learner students are identified and Make Up test is arranged for these students to make them ready forEnd Semester Examination (ESE).
- 4) Industrial Visit and In Plant Training are made compulsory forall Third and Final Year B. Tech. students to get real time industrial knowledge. IQAC keeps watch on the quality ofconduction of these activities.
- 5) IQAC takes care about arrangement of Co -curricular activities and extracurricular activities as per academic calendar

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	Nil

6.5.3 - Quality assurance initiatives of the institution include Regular meeting of the IQAC Feedback collected, analysed and used for improvement of the institution Collaborative quality initiatives with other institution(s) Participation in NIRF Any other quality audit recognized by state, national or international agencies (such as ISO Certification)

A. Any 4 or all of the above

File Description	Documents
Paste the web link of annual reports of the Institution	Nil
Upload e-copies of accreditations and certification	View File
Upload details of quality assurance initiatives of the institution	View File
Upload any additional information	No File Uploaded

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 year

One of the most pressing issues confronting society today is gender equality. Gender equality is promoted on a daily basis at the institute.

The institute has a clear gender independent policy with regards to the curricular, co-curricular and extra-curricular activities. Institute makes sure participation of girls with boys in NSS, NCC, Sports, AFPI, all curricular and extra-curricular activities. All girls have equal opportunities in all the endeavors. Guest

speakers from a variety of fields are asked to talk on the issue, which emphasizes the significance and contribution of women in society.

The following is a list of the institution's gender equity promotion programs:

The TKIET has a strong ethical work culture that is inclusive. In all of its operations, it follows the highest ethical standards. Gender, race, caste, colour, creed, language, religion, political or other opinions, national or social origin, property, birth, or other status are all given equal opportunity. TKIET's primary concerns include safety, security, and well-being, as well as gender equity and a pleasant workplace environment.

Institute carried out various activities for strengthening gender equity like celebration of International Women's Day and many others.

Women Development Cell has organised guest lecture on "Women Health & Hygiene" by Ms. Ankita Sukhwai CSR Executive Unicharm India New Delhi for girl students on 8 March 2022.

- Safety and Security
- Boys and Girls Hostel
- Counseling
- Common Rooms for Boys and Girls
- Gym and gymnasium Facility
- Any other relevant information

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	Nil

7.1.2 - The Institution has facilities for alternate sources of energy and energy conservation: Solar energy Biogas plant Wheeling to the Grid Sensor-based energy conservation Use of LED bulbs/ power-efficient equipment

A. Any 4 or All of the above

File Description	Documents
Geotagged Photographs	View File
Any other relevant information	No File Uploaded

7.1.3 - Describe the facilities in the institution for the management of the following types of degradable and non-degradable waste (within a maximum of 200 words)

TKIET is committed to generating less trash and recycling it by putting it through a mechanism that allows spent materials to be reused, hence conserving natural resources.

Solid waste management

The solid waste in the form of leaves, fruits etc. is collected and used for vermiculture and composting plants. Dustbins of suitable capacities are provided in each cabin, laboratory, office, canteen etc. to facilitate smooth collection. The College has contacted a recognized vendor who collects waste from the designated location, sorts it, recycles it, and disposes it.

Liquid waste management

There are two kinds of liquid waste produced by the College:

1. Sewage waste AND Laboratory, cafeteria effluent waste

The above waste is taken to the two wells and the water is used for watering the garden.

E-waste management

Old computers and equipment are sold to licensed vendor and college strictly follows old buy back scheme. Unused discs are given to schools as per the requirements for decorative and "Best from Waste" purpose. Electronic garbage that cannot be reused or recycled is disposed of centrally by government-approved suppliers.

Hazardous chemicals management

In the Engineering Chemistry and Chemical Engineering Laboratories carries various experiments and projects in which a number of

carcinogenic and hazardous chemicals are used to handle these chemical properly safety instructions are displayed to avoid the mishaps in these laboratories. After the use of hazardous chemicals, all the equipments are cleaned properly.

File Description	Documents
Relevant documents like agreements/MoUs with Government and other approved agencies	No File Uploaded
Geotagged photographs of the facilities	View File
Any other relevant information	View File

7.1.4 - Water conservation facilities available in the Institution: Rain water harvesting Bore well /Open well recharge Construction of tanks and bunds Waste water recycling Maintenance of water bodies and distribution system in the campus A. Any 4 or all of the above

File Description	Documents
Geotagged photographs / videos of the facilities	View File
Any other relevant information	View File

7.1.5 - Green campus initiatives include

7.1.5.1 - The institutional initiatives for greening the campus are as follows: A. Any 4 or All of the above

1. Restricted entry of automobiles
2. Use of bicycles/ Battery-powered vehicles
3. Pedestrian-friendly pathways
4. Ban on use of plastic
5. Landscaping

File Description	Documents
Geotagged photos / videos of the facilities	View File
Various policy documents / decisions circulated for implementation	No File Uploaded
Any other relevant documents	No File Uploaded

7.1.6 - Quality audits on environment and energy undertaken by the institution

7.1.6.1 - The institution's initiatives to preserve and improve the environment and harness energy are confirmed through the following:

B. Any 3 of the above

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

File Description	Documents
Reports on environment and energy audits submitted by the auditing agency	No File Uploaded
Certification by the auditing agency	No File Uploaded
Certificates of the awards received	No File Uploaded
Any other relevant information	No File Uploaded

7.1.7 - The Institution has a disabled-friendly and barrier-free environment: Ramps/lifts for easy access to classrooms and centres Disabled-friendly washrooms Signage including tactile path lights, display boards and signposts Assistive technology and facilities for persons with disabilities: accessible website, screen-reading software, mechanized equipment, etc. Provision for enquiry and information: Human assistance,

B. Any 3 of the above

reader, scribe, soft copies of reading materials, screen reading, etc.

File Description	Documents
Geotagged photographs / videos of facilities	View File
Policy documents and brochures on the support to be provided	No File Uploaded
Details of the software procured for providing assistance	No File Uploaded
Any other relevant information	No File Uploaded

7.1.8 - Describe the Institutional efforts/initiatives in providing an inclusive environment i.e. tolerance and harmony towards cultural, regional, linguistic, communal, socio-economic and other diversities (within a maximum of 200 words).

The institution creates an inclusive environment for everyone, promoting tolerance and harmony in the face of cultural, regional, linguistic, community, socioeconomic, and other differences. Students who are belonging in minority category like Muslim, Christian, Buddhist, Sikh, Parsi, Jain, Maratha, Brahmin etc have been equally treated and provided with equal opportunities to nurture their education skills. Institute has Inclusive strategies where all the facilities are available to every type (category) of students. Also to maintain the harmony between diverse group students institute organizes Sports, Cultural and Commemorative days like Get together, Ganesh Festival, Shivjayanti, Traditional Day, maker sankarnti , Women's day, Yoga day and Social Annual Function. In the institute, there are many grievance redressal cells, such as the Student Grievance Redressal Cell and the Internal Complaints Committee, which deal with complaints without regard to anyone's race or cultural background. The institute has a code of ethics for students as well as a separate code of ethics for teachers and other staff, both code of conduct must be followed by all personnel, regardless of their cultural, geographical, language, communal socioeconomic or other differences. All these facilities to the students are provided irrespective of their caste, creed, color, sex or socioeconomic background.

File Description	Documents
Supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	No File Uploaded

7.1.9 - Sensitization of students and employees of the institution to constitutional obligations: values, rights, duties and responsibilities of citizens:

TKIET is proud of the fact that, in addition to establishing a solid academic foundation for its students, the college is always working to help them grow as better citizens of the country. In this regard, the institute, in addition to providing professional legal education, fosters a sense of community among the learners through various practices and activities. The College celebrates Independence Day & Republic Day with great pomp and vigor.

In the syllabus of the institute, for the first year degree students, have an Audit course (subject), Democracy Election and Good governance for 1st Semester. The course improves the sensitization, values, rights, duties, and responsibilities according to constitution of India in students to the constitutional obligations.

By studying this audit course students get the knowledge of democracy, also they become curious about the constitution of India and aware of Socioeconomic responsibilities. In a real way, they understand the importance of voting in elections and the right of voting after the age of 18 years. Also by studying this course they desire good e-governance in the government. As result students who get success in competitive exams dare to implement smart and e-governance when they join the services.

First Year B. Tech. Department has organized Memes making competition and Essay writing competition on occasion of National voter day. The objective was to create awareness about voting in general election and increase participation of students in election process.

In this manner, students get constitutional awareness and responsibilities by studying this audit course.

File Description	Documents
Details of activities that inculcate values necessary to transform students into responsible citizens	View File
Any other relevant information	View File

7.1.10 - The institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic sensitization programmes in this regard: The Code of Conduct is displayed on the website There is a committee to monitor adherence to the Code of Conduct Institution organizes professional ethics programmes for students, teachers, administrators and other staff Annual awareness programmes on the Code of Conduct are organized C. Any 2 of the above

File Description	Documents
Code of Ethics - policy document	View File
Details of the monitoring committee composition and minutes of the committee meeting, number of programmes organized, reports on the various programmes, etc. in support of the claims	No File Uploaded
Any other relevant information	View File

7.1.11 - Institution celebrates / organizes national and international commemorative days, events and festivals

In academic year 2021 - 22 Institute has celebrated various commemorative days on various occasions as listed below.

1. 05 September 2021 Teachers Day 2. 15 September 2022 Engineers Day 3. 09 December 2021 NCC Day 4. 13 December 2021 Tatyasaheb Kore Punyatithi 5. 24 January 2022 National Girl Child Day 6. 26 January 2022 Republic Day 7. 19 February 2022 Shiivajayanti 8. 08 March 2022 International Woman's Day 9. 05 April 2022 Vilasrao Kore Punyatithi 10. 26 April 2022 World Intellectual Property Day 11. 11 May 2022 National Technology Day 12. 05 June 2022 World

Environment Day 13. 15 August 2022 Independence day

File Description	Documents
Annual report of the celebrations and commemorative events for during the year	View File
Geotagged photographs of some of the events	No File Uploaded
Any other relevant information	No File Uploaded

7.2 - Best Practices

7.2.1 - Provide the weblink on the Institutional website regarding the Best practices as per the prescribed format of NAAC

Title of the Practice:

This title should capture the keywords that describe the practice.

Career Development Cell.

Objectives of the Practice:-

Career Guidance to the students is the most vital aspect of college education so that the students can serve the needs of the ever-changing and dynamic market needs. To choose the right career path based on the interest of the students, offers education beyond the curriculum and provides career guidance to the students in following aspects.

1. Discovering various career options in various government and private sectors after completion of graduation.
2. Creating awareness of National Level Entrance Examinations like GATE, IES, UPSC, MPSC and Banking Examinations among the students.
3. Creating interest of higher studies in Abroad.
4. Promoting a culture among students for lifelong learning for creating their bright career.

File Description	Documents
Best practices in the Institutional website	http://tkietwarana.ac.in/IOAC/Institutional-Best-Practices
Any other relevant information	Nil

7.3 - Institutional Distinctiveness

7.3.1 - Highlight the performance of the institution in an area distinct to its priority and thrust (within a maximum of 200 words)

Honorable Shri Late Tatyasaheb Kore a visionary leader and father of Warana industrial and educational cooperative movement, in the honor the college is named with an objective that "Charity is to serve society through the development of education, industry and the poor farmers". True to this prophetic statement this 39 years old institution has emerged as one of the premier institutions of higher learning in Maharashtra. After striving for 39 years continuously for curricular excellence by incorporating extraordinary digital platforms it has now become an autonomous institute from 2020-21. Commensurate to its vision statement institute is now poised to produce its graduates who are "Locally rooted and globally competent" engineers under Autonomous culture". The unique feature of the curriculum in the autonomous system is well stood on four pillars those are Acquiring knowledge, Inculcation of Soft Skills, Exposure to Industrial practices, Audit/Credit mandatory to participate in co curricular and extracurricular activities. With the above, foundation pillars institute continuously strive for curricular excellence and produce the graduates. Excellence in academics of Institute is recognized by the Shivaji University, Kolhapur as the Institute holds Excellent remark in the Academic Audit by Shivaji University for academic year 2021 - 22, also Institute secured first rank in Engineering and Technology under rural category in Shivaji University Merit Scholarship Scheme. Institute has Nature Based Wastewater Treatment System(Reed Bed System) A project at TKIET Campus Under CSR By LORD , India Ltd with Capacity 200 MLD and Cost Rs. 35 L

Part B

CURRICULAR ASPECTS

1.1 - Curriculum Design and Development

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

The curriculum of all programs is designed and developed keeping in mind the relevance of the courses to local, national, regional, and global development needs. The program curriculum reflects the autonomous institute's program outcomes, which are further aligned with the institute's mission and vision. The board of studies (BOS) comprises various stakeholders, such as eminent academicians and researchers from premier institutes and experts from industry; alumni deliver their inputs as per the changing scenario to frame the curriculum of all programs. While framing the course curriculums, keeping in mind that the COs are properly matched with the POs and PSOs of all the programs. The program curriculum has been revised for F.Y., S.Y., and T.Y. B.Tech. Autonomous in the following years: 2019-20, 2020-21, and 2021-22, respectively.

Different programs that activate students to analyze local needs and provide their solution based on knowledge acquired during engineering. They come with relevant scientific solutions, students get sponsored projects from local industries.

To acquire the entrepreneurial skills of students, the institute initiates collaboration with AICTE, IIC MHRD, and IEDC of the institute. To educate students about global health and pollution, we offer courses on renewable energy, climate change, and environmental effects.

File Description	Documents
Upload additional information, if any	No File Uploaded
Link for additional information	http://tkietwarana.ac.in/IQAC/CO-PO-of-Different-Programs

1.1.2 - Number of Programmes where syllabus revision was carried out during the year

5

File Description	Documents
Minutes of relevant Academic Council/BOS meeting	View File
Details of syllabus revision during the year	View File
Any additional information	No File Uploaded

1.1.3 - Number of courses focusing on employability/entrepreneurship/ skill development offered by the Institution during the year

64

File Description	Documents
Curriculum / Syllabus of such courses	View File
Minutes of the Boards of Studies/ Academic Council meetings with approval for these courses	View File
MoUs with relevant organizations for these courses, if any	No File Uploaded
Any additional information	No File Uploaded

1.2 - Academic Flexibility

1.2.1 - Number of new courses introduced across all programmes offered during the year

40

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	View File
Any additional information	View File
Institutional data in prescribed format (Data Template)	View File

1.2.2 - Number of Programmes offered through Choice Based Credit System (CBCS)/Elective Course System

5

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	View File
Any additional information	No File Uploaded
List of Add on /Certificate programs (Data Template)	View File

1.3 - Curriculum Enrichment

1.3.1 - Institution integrates cross-cutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability, and Human Values into the curriculum

The curriculum is set up so that cross-cutting issues are relevant to each course. This is to help students develop moral and ethical values through a value-added and holistic education. The institute conducts induction programs on ethics & human values for all F.Y. students which include all programs of the institute

An environmental study is a mandatory course for all second-year engineering programs. In Civil Engineering, a environment course is introduced for the study of environmental impact assessment, audit, green audit, and water and energy conservation. Students learn about climate change and environmental issues in these classes. They also help protect and preserve the natural ecosystem.

In TKIET, students from different states of the nation actively participate in core peer and group learning as well as extracurricular activities such as cultural, NSS and NCC, which include all ages, genders, and different cultures. Institute ensures to address the issue related to woman empowerment, equality in gender, child abuse & responsible living citizen of nation through rallies, street plays by students.

Students are trained in corporate, business, media ethics, and communication skills through training and placement cell.

The institute ensures managerial skills by introducing management courses, entrepreneurial workshops, industrial visits, etc.

File Description	Documents
Upload the list and description of the courses which address issues related to Gender, Environment and Sustainability, Human Values and Professional Ethics in the curriculum	View File
Any additional information	No File Uploaded

1.3.2 - Number of value-added courses for imparting transferable and life skills offered during the year

12

File Description	Documents
List of value-added courses	View File
Brochure or any other document relating to value-added courses	View File
Any additional information	View File

1.3.3 - Number of students enrolled in the courses under 1.3.2 above

745

File Description	Documents
List of students enrolled	View File
Any additional information	View File

1.3.4 - Number of students undertaking field work/projects/ internships / student projects

2166

File Description	Documents
List of programmes and number of students undertaking field projects / internships / student projects	View File
Any additional information	View File

1.4 - Feedback System

1.4.1 - Structured feedback and review of the syllabus (semester-wise / year-wise) is obtained from 1) Students 2) Teachers 3) Employers and 4) Alumni

A. All 4 of the above

File Description	Documents
Provide the URL for stakeholders' feedback report	Nil
Upload the Action Taken Report of the feedback as recorded by the Governing Council / Syndicate / Board of Management	View File
Any additional information	View File

1.4.2 - The feedback system of the Institution comprises the following

C. Feedback collected and analysed

File Description	Documents
Provide URL for stakeholders' feedback report	Nil
Any additional information	View File

TEACHING-LEARNING AND EVALUATION

2.1 - Student Enrollment and Profile

2.1.1 - Enrolment of Students

2.1.1.1 - Number of students admitted (year-wise) during the year

2671

File Description	Documents
Any additional information	No File Uploaded
Institutional data in prescribed format	View File

2.1.2 - Number of seats filled against reserved categories (SC, ST, OBC, Divyangjan, etc.) as per the reservation policy during the year (exclusive of supernumerary seats)

624

File Description	Documents
Any additional information	No File Uploaded
Number of seats filled against seats reserved (Data Template)	View File

2.2 - Catering to Student Diversity

2.2.1 - The institution assesses students' learning levels and organises special programmes for both slow and advanced learners.

Under autonomy status of institute, examination performance based mechanism is developed to identify slow and advanced learners. For advanced learners honors degree of advanced area is offered by the institute in which the higher CGPA scored students are allowed for admission. On the other hand make up examination based on the question bank is arranged for slow learner students those who are not able to get minimum required marks in ISE examination. These students are specially counseled by the mentors through remedial classes in addition to that advanced learners are motivated by following activities,

Students are encouraged to take part and organize Inter-college technical festivals like Eureka (Paper Presentation Competition) and Jidnyasa (Project Competition) organized by the institute,

Special classes are conducted by Career Development Cell (CDC) to help them to succeed in national/ international level entrance examinations like GATE, CAT and GRE, CEMAT, etc.

Rank holders are honored during the Annual Social Function with merit certificates and prizes.

For slow learns we are provided,

Remedial classes for respective subject.

Question bank and previous question papers with model answers are provided to these students which helps them to improve their performance in the examination

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	Nil

2.2.2 - Student – Teacher (full-time) ratio

Year	Number of Students	Number of Teachers
01/08/2021	2671	134

File Description	Documents
Upload any additional information	View File

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:

Experimental Learning- Majority of the courses are associated with laboratories wherein students perform various experiments and analyse the results thereof. Additionally, faculty and students are encouraged to use V-Labs. In view of applied experimental learning, students go through inquisitive learning during their F.Y., Mini-project during their T.Y. and Projects in their final year.

Participative Learning: Students are involved in participative learning through flipping classrooms, think pair share and group discussion. Additionally, blended learning technology is adopted wherein faculty combines the traditional method with ICT tools like presentations, online resources, pre-recorded contents. The students of T.Y. present a Seminar on the topic of their choice usually beyond the syllabus. Students are encouraged to participate in NCC and NSS inculcating social awareness and habit of participative learning.

Problem solving methodologies: Students of F.Y. to final year are engaged to work on real life problems to come up with feasible solutions. Inquisitive learning, mini project and final year project are the platforms the students use to involve in problem solving methodologies.

Impact: Through these processes student is exposed to real time problems to propose some feasible solutions and correlate what is learnt and how it is applied practically.

File Description	Documents
Upload any additional information	View File
Link for additional Information	Nil

2.3.2 - Teachers use ICT-enabled tools including online resources for effective teaching and learning

Teachers use e-content developed by them through ICT enabled tools and other e-resources to impart effective teaching. The institute encourages its faculty to participate in various refresher courses, FDPs and STTPs. In addition to this, the teachers are provided with following multimedia teaching aids:

- Number of LCD projectors: 35
- Number of writing pads: 06
- Number of document cameras: 06

To share e-content and assignments with students Google Classroom is used. To communicate important information such as notices with students and parent's technologies such as SMS packs, e-mail, institute portal used effectively.

File Description	Documents
Provide link for webpage describing ICT enabled tools including online resources for effective teaching and learning process	http://tkietwarana.ac.in/home/TKIET%20VLAB
Upload any additional information	No File Uploaded

2.3.3 - Ratio of students to mentor for academic and other related issues

2.3.3.1 - Number of mentors

134

File Description	Documents
Upload year-wise number of students enrolled and full-time teachers on roll	View File
Circulars with regard to assigning mentors to mentees	View File

2.3.4 - Preparation and adherence to Academic Calendar and Teaching Plans by the institution

Academic calendar: Every year Academic Committee of the Institute prepares the academic calendar & discussed with BoS Chairman's and finalized after the approval from the Chairman, Academic Council. The approved calendar will be made available by displaying on the notice boards and on the Institute website before the commencement of the semester of academic year which includes:

- First and last day of instruction, total instructional days in a given semester, schedules of ISE and ESE exams.
- The academic work of Institution strictly adheres with academic calendar. However, in case of any unexpected situations, necessary change will be made in consultation with all Heads, Academic Committee and the same is displayed in notice boards and websites.

Teaching Plan:

BoS Chairman's conducts meetings with their respective faculty well in advance of the commencement of the semester of academic year and allocate subjects. The concerned subject in-charge for each subject prepares a detailed lesson plan of theory and laboratory courses. It gives the syllabus, lecture-wise content, experiments with plan date, and actual date of completion. The BoS Chairman's and AC's check the progress of each course and ensure timely and effective completion of a course in the specified time frame.

File Description	Documents
Upload the Academic Calendar and Teaching Plans during the year	View File

2.4 - Teacher Profile and Quality

2.4.1 - Number of full-time teachers against sanctioned posts during the year

134

File Description	Documents
Year-wise full-time teachers and sanctioned posts for the year	View File
List of the faculty members authenticated by the Head of HEI	No File Uploaded
Any additional information	No File Uploaded

2.4.2 - Number of full-time teachers with PhD/ D.M. / M.Ch. / D.N.B Super-Specialty / DSc / DLitt during the year

20

File Description	Documents
List of number of full-time teachers with PhD./ D.M. / M.Ch. / D.N.B Super-Specialty / D.Sc. / D.Litt. and number of full-time teachers for 5 years	View File
Any additional information	No File Uploaded

2.4.3 - Total teaching experience of full-time teachers in the same institution: (Full-time teachers' total teaching experience in the current institution)

134

File Description	Documents
List of teachers including their PAN, designation, Department and details of their experience	View File
Any additional information	No File Uploaded

2.5 - Evaluation Process and Reforms

2.5.1 - Number of days from the date of last semester-end/ year- end examination till the declaration of results during the year

45

File Description	Documents
List of Programmes and the date of last semester-end / year-end examinations and the date of declaration of result	View File
Any additional information	No File Uploaded

2.5.2 - Number of students' complaints/grievances against evaluation against the total number who appeared in the examinations during the year

16

File Description	Documents
Upload the number of complaints and total number of students who appeared for exams during the year	View File
Upload any additional information	No File Uploaded

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

Examination Procedures and Assessment System:

The examination is conducted in two forms: the in-semester exam (ISE) and the end-semester exam.(ESE). In-semester examination (ISE) was conducted at the department level under the guidance of the head of the department. There were two in-semester tests each semester for every theory course. Each test was worth 40 marks, and the duration of each test was 90 minutes. The total in-semester exam marks were calculated as the average of all in-semester exams conducted. The ESE is conducted at the end of a semester and has a weightage of 60 marks. The questions covered the entire syllabus, and they are mapped with course and programme outcomes. The evaluation of the examination was done by two different internal examiners. i.e., Evaluator 1 and Evaluator 2

Processes for integrating IT

The entire exam system uses advanced software for all its operations, from entry to the student's exit from the institute. The institute has procured software from Bynaric

Systems Ltd., Pune, which is capable of handling all the work related to the examination.

Continuous Internal Assessment (CIA):

Every student undergoes a continuous assessment of his or her performance in a semester on the following criteria: attendance, assignments, test performance, oral, etc.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional Information	http://tkietwarana.ac.in/exam/

2.6 - Student Performance and Learning Outcomes

2.6.1 - Programme Outcomes and Course Outcomes for all Programmes offered by the institution are stated and displayed on the website and communicated to teachers and students

The institute is dedicatedly working to achieve the vision and mission of institute. The journey towards mission is frame worked with support of Outcome Based Education (OBE), which deals with POs, PSOs, and COs attainment. In the framework of this, POs, PSOs, and COS are defined with reference to graduate attributes. The members of the Board of Governors (BoG), Academic Council, Board of studies (BoS), and Department Advisory Board (DAB) contribute to the process of finalization of these statements. Once the approval is received from all statutory bodies, they are uploaded on the institution's website.

To make the awareness and realization of the depth of meaning of the institution's vision, missions in address developing into holistic professionals, PEOs, POs, and COs are communicated to all teachers, students, and major stakeholders.

The mechanism of communication is as follow,

1. At the commencement of the academic year, all department faculty prepare the teaching-learning plan by keeping in mind, the perspective of COs, POs, and PSOs of their program and courses.
2. Learning outcomes are publicized through
 - Publications - Syllabus books, Calendar, Records.

- Display - HoD Cabine, Classrooms, Laboratories, Corridors, Website.
- Question Paper contains POs - COs mapping

File Description	Documents
Upload COs for all courses (exemplars from the Glossary)	No File Uploaded
Upload any additional information	No File Uploaded
Link for additional Information	http://tkietwarana.ac.in/IQAC/CO-PO-of-Different-Programs

2.6.2 - Attainment of Programme Outcomes and Course Outcomes as evaluated by the institution

A well-defined process for attainment calculations of COs, POs in Institute has adopted outcome based education system last year, the process of CO-PO attainment is defined and modified as per requirement of autonomous institute. Some special efforts have been done by the institute and IQAC to create awareness amongst the students and faculty. The entire process is summarized as follows,

Following Direct methods are used

1. ESE
2. ISE -I and II
3. MU Examination
4. POE
5. Seminar
6. PBL

These methods are assessed by conducting the theory examination, presentation, or using defined Rubrics. Different marks for these methods are allotted as per the importance of the method.

1. Course teachers decide the target for the attainment of COs. The data of the direct method is analyzed to compare the attainment target. The excel sheet/software is also used in this task. This attainment level is measured on the scale of Substantial -3, Moderate-2, and Lower -1.
2. After this, using COs- POs mapping the attainment of the POs are calculated based on the Direct methods.

3. For POs attainment, some indirect methods are also used such as Employer, parent, alumni feedback, and students exit survey.
4. In the end, 80 % weightage is given to direct methods and 20 % is given to indirect methods to calculate final POs and PSO attainment.
5. This attainment calculation is further analyzed to find the curriculum gap for slow learners or to enrich the curriculum for the advanced learner.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional Information	Nil

2.6.3 - Pass Percentage of students

2.6.3.1 - Total number of final year students who passed in the examinations conducted by Institution

607

File Description	Documents
Upload list of Programmes and number of students appear for and passed in the final year examinations	View File
Upload any additional information	No File Uploaded
Paste link for the annual report	Nil

2.7 - Student Satisfaction Survey

2.7.1 - Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design its own questionnaire). Results and details need to be provided as a weblink

<http://www.tkietwarana.ac.in/naac/details.aspx?title=Student%20Satisfaction%20Survey>

RESEARCH, INNOVATIONS AND EXTENSION

3.1 - Promotion of Research and Facilities

3.1.1 - The institution's research facilities are frequently updated and there is a well-defined

policy for promotion of research which is uploaded on the institutional website and implemented

The institute has drafted all-inclusive and futuristic policy for promoting and inculcating the culture of research and consultancy. This policy is approved by the institute management. Students and faculty are encouraged to undertake research and consultancy projects based on industrial or social problems. This practice ensures strengthening of research profile of the Individual as well as that of the Institute. Further, faculty are provided appropriate incentives for undertaking research projects and subsequent activities. Under academic autonomy, the institute has introduced the subject called "Inquisitive Learning" since first year to promote creative thinking and critical analysis skills amongst the students. Institute provides resources to students required to complete the academic projects. Chemical department of the institute hosts Ph.D. research centre approved by Shivaji University, Kolhapur. Three research scholars are pursuing their doctorate degree. Mechanical department is in process of applying for Ph.D. research centre. Four departments of the institute offer PG programs and hosts research laboratories where students are provided with infrastructure and facilities to work on their PG projects All departments are provided with annual development funds for upgrading respective labs. In addition to this, the institute also submits proposals to different funding agencies for research funds as well as lab up gradation.

File Description	Documents
Upload the Minutes of the Governing Council/ Syndicate/Board of Management related to research promotion policy adoption	View File
Provide URL of policy document on promotion of research uploaded on the website	Nil
Any additional information	No File Uploaded

3.1.2 - The institution provides seed money to its teachers for research

3.1.2.1 - Seed money provided by the institution to its teachers for research during the year (INR in lakhs)

1.87

File Description	Documents
Minutes of the relevant bodies of the institution regarding seed money	No File Uploaded
Budget and expenditure statements signed by the Finance Officer indicating seed money provided and utilized	View File
List of teachers receiving grant and details of grant received	No File Uploaded
Any additional information	No File Uploaded

3.1.3 - Number of teachers who were awarded national / international fellowship(s) for advanced studies/research during the year

0

File Description	Documents
e-copies of the award letters of the teachers	No File Uploaded
List of teachers and details of their international fellowship(s)	No File Uploaded
Any additional information	No File Uploaded

3.2 - Resource Mobilization for Research

3.2.1 - Grants received from Government and Non-Governmental agencies for research projects, endowments, Chairs during the year (INR in Lakhs)

36.39

File Description	Documents
e-copies of the grant award letters for research projects sponsored by non-governmental agencies/organizations	View File
List of projects and grant details	View File
Any additional information	No File Uploaded

3.2.2 - Number of teachers having research projects during the year

2

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional Information	Nil
List of research projects during the year	View File

3.2.3 - Number of teachers recognised as research guides

3

File Description	Documents
Upload copies of the letter of the university recognizing teachers as research guides	View File
Institutional data in Prescribed format	View File

3.2.4 - Number of departments having research projects funded by Government and Non-Government agencies during the year

1

File Description	Documents
Supporting document from Funding Agencies	View File
Paste link to funding agencies' website	Nil
Any additional information	No File Uploaded

3.3 - Innovation Ecosystem

3.3.1 - Institution has created an ecosystem for innovations and creation and transfer of knowledge supported by dedicated centres for research, entrepreneurship, community orientation, incubation, etc.

Yes, Institute has created an ecosystem to for innovation and entrepreneurship by establishing Innovation and entrepreneurship development cell (IEDC), Institute innovation council (IIC) for promoting innovation and entrepreneurship activity. Even Institute formulate National Innovation and startup policy(NISP) which inline All India council for technical education(AICTE) and Govt. of India initiative to promote entrepreneurship by providing technology, research, Innovationand Industrial connectivity.

To inculcate innovation in student mindset under autonomy institute introduce Project Based Learning (PBL) to first year student. These projects are solution to real world a real world problem for better learning experience along with classroom teaching.

To acquire the entrepreneurship skills in students institute collaborate with All India council for technical education(AICTE), Institute innovation council (IIC), National InnovationPageand startup policy (NISP), ARIIA, Tata Centre IIT Mumbai,Million Mind, Maharashtra cell for entrepreneurship development(MCED).

We arrange Different session to boost entrepreneurial skills of student such as Entrepreneurship awareness camp (EAC), Business Idea Competitions, Expert session, MIC Driven Sessions ETC.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

3.3.2 - Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR), Entrepreneurship and Skill Development during the year

11

File Description	Documents
Report of the events	View File
List of workshops/seminars conducted during the year	View File
Any additional information	View File

3.4 - Research Publications and Awards

3.4.1 - The Institution ensures implementation of its Code of Ethics for Research uploaded in the website through the following: Research Advisory Committee Ethics Committee Inclusion of Research Ethics in the research methodology course work Plagiarism check through authenticated software

C. Any 2 of the above

File Description	Documents
Code of Ethics for Research, Research Advisory Committee and Ethics Committee constitution and list of members of these committees, software used for plagiarism check	View File
Any additional information	No File Uploaded

3.4.2 - Number of PhD candidates registered per teacher (as per the data given with regard to recognized PhD guides/ supervisors provided in Metric No. 3.2.3) during the year

3.4.2.1 - Number of PhD students registered during the year

4

File Description	Documents
URL to the research page on HEI website	Nil
List of PhD scholars and details like name of the guide, title of thesis, and year of registration	View File
Any additional information	No File Uploaded

3.4.3 - Number of research papers per teacher in CARE Journals notified on UGC website during the year

13

File Description	Documents
List of research papers by title, author, department, and year of publication	View File
Any additional information	No File Uploaded

3.4.4 - Number of books and chapters in edited volumes / books published per teacher during the year

1

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

3.4.5 - Bibliometrics of the publications during the year based on average Citation Index in Scopus/ Web of Science/PubMed

3.4.5.1 - Total number of Citations in Scopus during the year

78

File Description	Documents
Any additional information	No File Uploaded
Bibliometrics of the publications during the year	No File Uploaded

3.4.6 - Bibliometrics of the publications during the year based on Scopus/ Web of Science – h-Index of the University

3.4.6.1 - h-index of Scopus during the year

0

File Description	Documents
Bibliometrics of publications based on Scopus/ Web of Science - h-index of the Institution	No File Uploaded
Any additional information	No File Uploaded

3.5 - Consultancy

3.5.1 - Revenue generated from consultancy and corporate training during the year (INR in lakhs)

1.68

File Description	Documents
Audited statements of accounts indicating the revenue generated through consultancy and corporate training	View File
List of consultants and revenue generated by them	No File Uploaded
Any additional information	No File Uploaded

3.5.2 - Total amount spent on developing facilities, training teachers and clerical/project staff for undertaking consultancy during the year

1.68

File Description	Documents
Audited statements of accounts indicating the expenditure incurred on developing facilities and training teachers and staff for undertaking consultancy	View File
List of training programmes, teachers and staff trained for undertaking consultancy	No File Uploaded
List of facilities and staff available for undertaking consultancy	No File Uploaded
Any additional information	No File Uploaded

3.6 - Extension Activities

3.6.1 - Extension activities carried out in the neighbourhood sensitising students to social issues for their holistic development, and the impact thereof during the year

The institute management always inspires students and faculty participation in social activities and drives for adhering to ethical values. Social activities like tree plantation, COVID-2k19 Vaccination Camp at TKIET, Warananagar as well as at A/P Kekhale, Tal- Panhala Dist.- Kolhapur, Shram-daan at college campus, Maji-Vasundhara Abhiyan Oath, Oraganization of Shree Rajashri Shahu Maharaj 100th Death Anniversary with a silence of 100 seconds throughout in the campus. Also celebration of Azadi ka Amrut Mahotsav on the occasion of 75th Years of Celebration of India's Independence. All the Faculty members and students visit the Warana Matimand Vidyalaya (School of handicapped) and help them by donating money. The flag hoisting ceremony conducted on Independence Day, Republic Day involving the NSS & NCC students, local government authorities and guests. Organize events like Eureka and Jidnyasa which bring students of various colleges and give them a platform to showcase and share their technical ideas.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	Nil

3.6.2 - Number of awards and recognition received by the Institution, its teachers and students for extension activities from Government / Government-recognised bodies during the year

17

File Description	Documents
Number of awards for extension activities in during the year	View File
e-copy of the award letters	No File Uploaded
Any additional information	No File Uploaded

3.6.3 - Number of extension and outreach programmes conducted by the institution through NSS/NCC/Red Cross/YRC, etc. during the year (including Government-initiated programmes such as Swachh Bharat, AIDS Awareness, and Gender Sensitization and those organised in collaboration with industry, community and NGOs)

20

File Description	Documents
Reports of the events organized	View File
Any additional information	No File Uploaded

3.6.4 - Number of students participating in extension activities listed in 3.6.3 during the year

1082

File Description	Documents
Reports of the events	View File
Any additional information	View File

3.7 - Collaboration

3.7.1 - Number of collaborative activities during the year for research/ faculty exchange/ student exchange/ internship/ on-the-job training/ project work

249

File Description	Documents
Copies of documents highlighting collaboration	View File
Any additional information	No File Uploaded

3.7.2 - Number of functional MoUs with institutions of national and/or international importance, other universities, industries, corporate houses, etc. during the year (only functional MoUs with ongoing activities to be considered)

31

File Description	Documents
e-copies of the MoUs with institution/ industry/ corporate house	View File
Details of functional MoUs with institutions of national, international importance, other institutions etc. during the year	View File
Any additional information	No File Uploaded

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 equipments, etc.

The institute has sufficient physical infrastructure and facilities for the ongoing academic and administrative programmes, co-curricular activities, and extracurriculars. The Institute develops the essential infrastructure in a methodical and ongoing manner with a futuristic perspective of necessity and usefulness in order to meet upcoming requirements. Five major departments each have a state-of-the-art auditorium, five well-furnished seminar halls, language labs, departmental libraries, equipped labs, and five well-appointed classrooms. Excellent IT facilities at the institute include a 610 Mbps broadband connection and over 650 PCs connected to a wired network. e-learning resources in the data centre total more than 12 TB. A dedicated SNS (System Network Support) department is responsible for overseeing the complete ICT and IT infrastructure. The institute's campus covers a 15-acre area, and there are a number of recreational amenities there, including a playground, an indoor stadium, an indoor swimming

pool, a gymnasium, a restaurant, and a bank extension counter area. The availability of additional infrastructure will depend on the curriculum and new programmes. Infrastructure and other facilities are in ample supply. The university has well-equipped seminar halls with an audio-visual equipment, as well as large, comfortable classrooms with ICT amenities. Each department has a variety of labs with cutting-edge gear and equipment, supported by a language lab, a communication skills lab, and a central computing facility. The institute offers e-learning tools, 24-hour Wi-Fi access to the Internet, and a digital library with a sizable selection of e-books and e-materials.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

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

Sports participation as an extracurricular activity is encouraged and supported for all students. The college has a gymkhana department run by a committed physical director to handle planning and promoting different sporting events. The majority of the athletic competitions held at the district, university, zone, inter-zonal, and state levels are organised by the gymkhana department. Additionally, the gymkhana department encourages students to take part in renowned sports competitions outside of campus at various levels. It hosts an annual sports day to recognise and honour deserving students who have competed in and won awards in team and individual sporting events at various locations. The institution offers all necessary facilities in order to promote the student's interest in cultural pursuits. By the formation of numerous committees made up of faculty and student representatives, the school has created best practices for the management of cultural events. These committees include the Culture Committee, the Horizon Committee, the Marathi Sahitya Mandal Committee, and the Nature Club. For all cultural events held for both staff and students, the Institute offers a well-equipped indoor, open auditorium. Traditional Day and Annual Social Function are two annual cultural events. Students who excelled at performing musical art had formed their own group,

"AKSHSTRA," or a student orchestra.

The institute features a centre for yoga and meditation where different yoga camps are held. Several academic staff members and students volunteer to arrange these camps with the help of certified yoga teachers.

File Description	Documents
Geotagged pictures	View File
Upload any additional information	View File
Paste link for additional information	Nil

4.1.3 - Number of classrooms and seminar halls with ICT-enabled facilities

29

File Description	Documents
Upload any additional information	View File
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	View File

4.1.4 - Expenditure for infrastructure augmentation, excluding salary, during the year (INR in Lakhs)

31.50

File Description	Documents
Upload audited utilization statements	No File Uploaded
Details of Expenditure, excluding salary, during the years	View File
Any additional information	No File Uploaded

4.2 - Library as a Learning Resource

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

The Library is fully automated with Purna Library Management

Application (Library Management System) since 2010, the current version of the software is 2.0 this software package is an integrated multi-user Library management system that supports all in-house operations of the Library. The Purna Library Management Application consists of modules on Acquisition, Cataloguing, Circulation, Serial Control, Utilities and OPAC. Retrospective conversion of bibliographic records has been completed and more than 58,440 bibliographic records of books and 87 records of Print Journals are available in the library can now be accessed through this library management software OPAC. The database of books available in the Library is being updated on day to day basis with details of recently acquired books. Records of all the Library patrons have also been created in the Library Management System.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

4.2.2 - Institution has access to the following: e-journals e-ShodhSindhu Shodhganga Membership e-books Databases Remote access to e-resources

A. Any 4 or more of the above

File Description	Documents
Details of subscriptions like e-journals, e-books, e-ShodhSindhu, Shodhganga membership	View File
Upload any additional information	View File

4.2.3 - Expenditure on purchase of books/ e-books and subscription to journals/e-journals during the year (INR in lakhs)

17

File Description	Documents
Audited statements of accounts	No File Uploaded
Any additional information	View File
Details of annual expenditure for purchase of books/e-books and journals/e- journals during the year (Data Template)	View File

4.2.4 - Usage of library by teachers and students (footfalls and login data for online access)

4.2.4.1 - Number of teachers and students using the library per day during the year

241

File Description	Documents
Upload details of library usage by teachers and students	View File
Any additional information	No File Uploaded

4.3 - IT Infrastructure

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

The current IT infrastructure is well-equipped in the institute. For the purpose of teaching and learning, it is easily accessible. The institute regularly updates its ICT-enabled infrastructure. The institute's IT policy mandates the installation of legal/licensed software as well as timely maintenance.

Hardware infrastructure:

- Computers - 520
- Servers - 10
- Data Centre - 1No
- Storage - 2 Nos (36TB + 72TB)
- Projectors - 52 Nos
- Printer - 45 Nos

Networking infrastructure:

- LAN (1000 nodes 1000 Mbps LAN with 10Gbps OFC backbone)
- Wi-Fi enabled network with 16 access points.

- Core Switch

(1) Bandwidth details: Total 610 Mbps

- 500 Mbps Airtel Leased Line (1:1),
- 100 Mbps In-Digital Broadband,
- 10 Mbps NKN BSNL Broadband
- 100 Mbps Wi-Fi Hotspots in Various Important Location, JioFi Wi-Fi Campus with 252 Wi-Fi Antenna in the entire campus

(2) Security Features (Firewall/Antivirus/CCTVs)

- Unified Threat Management (UTM) XG next-generation firewall, Cyberoam CR 300 iNG & SOPHOS XG 330 with user-based authentications, Intrusion Prevention, VPN, content access, controlled bandwidth
- Sophos Intercept X Endpoint Antivirus and Seqrite Antivirus Endpoint or Computer client
- 24/7 150 + CCTV Camera for monitoring for Computer Labs, passages & corridors of important palaces.

(3) Software Details (academic, examination, Server, Language base software)

- Office automation software CMS to automate all processes
- Library Automation software web OPAC, Eklavya Mobile App.
- Oriell Language lab software of 25 Nodes
- The institute has provided an official email address to every faculty with domain tkietwarana.ac.in. This enterprise email solution is provided by Google

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

4.3.2 - Student - Computer ratio

Number of Students	Number of Computers
2671	520

File Description	Documents
Upload any additional information	No File Uploaded

4.3.3 - Bandwidth of internet connection in the Institution and the number of students on campus	A. 750 Mbps
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File Description	Documents
Details of bandwidth available in the Institution	View File
Upload any additional information	No File Uploaded

4.3.4 - Institution has facilities for e-content development: Facilities available for e-content development Media Centre Audio-Visual Centre Lecture Capturing System (LCS) Mixing equipments and software for editing	B. Any three of the above
--	---------------------------

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	Nil
List of facilities for e-content development (Data Template)	View File

4.4 - Maintenance of Campus Infrastructure

4.4.1 - Expenditure incurred on maintenance of physical and academic support facilities, excluding salary component, during the year (INR in lakhs)

83

File Description	Documents
Audited statements of accounts	View File
Upload any additional information	No File Uploaded

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

etc.

The maintenance and use of diverse physical, academic, and support facilities are conducted in accordance with the following policies.

Dean Academics Auditorium assigns classrooms and laboratories. Seminar Halls are reserved and assigned with the previous approval of the principal. HoDs are assigned by the various in-charges. Following an event, the responsible department must provide necessary maintenance and cleanliness. Infrastructure, lab equipment, computers, etc. maintenance-related concerns are closely watched by the concerned maintenance team, and their reports are properly logged. For the repair and upkeep of important equipment, certain departments have Annual Maintenance Contracts (AMC) with the businesses/suppliers. The main library is outfitted with modern technology, including high-end computers with seamless Internet connectivity, dedicated reading rooms, and a touchscreen kiosk for displaying library information. All IT infrastructure must be maintained and cared for by the System and Network Support (SNS) staff. The SNS team's head, system network administrator, technicians, and corresponding lab assistants are in charge of repair and upkeep.

Utility services like housekeeping, electrical systems, elevators, air conditioners, and sewage treatment are periodically serviced, and logs are kept. An experienced physical director, assistant to the physical director, and departmental coordinators are in charge of the institute's devoted sports department. The sports facilities are maintained and controlled by peons. It is routine practise to check the inventory in the labs and classroom spaces. The laboratory have undergone regular sanitation procedures.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	Nil

STUDENT SUPPORT AND PROGRESSION

5.1 - Student Support

5.1.1 - Number of students benefitted by scholarships and freeships provided by the

Government during the year	
2172	
File Description	Documents
Upload self-attested letters with the list of students receiving scholarships	View File
Upload any additional information	No File Uploaded
5.1.2 - Number of students benefitted by scholarships and freeships provided by the institution and non-government agencies during the year	
310	
File Description	Documents
Upload any additional information	No File Uploaded
Institutional data in prescribed format	View File
5.1.3 - The following Capacity Development and Skill Enhancement activities are organised for improving students' capabilities Soft Skills Language and Communication Skills Life Skills (Yoga, Physical fitness, Health and Hygiene) Awareness of Trends in Technology	A. All of the above
File Description	Documents
Link to Institutional website	www.tkietwarana.ac.in
Details of capability development and schemes	View File
Any additional information	No File Uploaded
5.1.4 - Number of students benefitted from guidance/coaching for competitive examinations and career counselling offered by the institution during the year	
954	

File Description	Documents
Any additional information	No File Uploaded
Number of students benefited by guidance for competitive examinations and career counseling during the year (Data Template)	View File

5.1.5 - The institution adopts the following mechanism for redressal of students' grievances, including sexual harassment and ragging: Implementation of guidelines of statutory/regulatory bodies Creating awareness and implementation of policies with zero tolerance Mechanism for submission of online/offline students' grievances Timely redressal of grievances through appropriate committees	A. All of the above
---	----------------------------

File Description	Documents
Minutes of the meetings of students' grievance redressal committee, prevention of sexual harassment committee and Anti-ragging committee	View File
Details of student grievances including sexual harassment and ragging cases	View File
Upload any additional information	No File Uploaded

5.2 - Student Progression

5.2.1 - Number of outgoing students who got placement during the year

641

File Description	Documents
Self-attested list of students placed	View File
Upload any additional information	No File Uploaded

5.2.2 - Number of outgoing students progressing to higher education

53

File Description	Documents
Upload supporting data for students/alumni	No File Uploaded
Details of students who went for higher education	View File
Any additional information	No File Uploaded

5.2.3 - Number of students qualifying in state/ national/ international level examinations during the year

5.2.3.1 - Number of students who qualified in state/ national/ international examinations (e.g.: IIT-JAM/NET/SET/JRF/ GATE /GMAT /CAT/ GRE/ TOEFL/Civil Services/State government examinations) during the year

25

File Description	Documents
Upload supporting data for students/alumni	View File
Any additional information	No File Uploaded

5.3 - Student Participation and Activities

5.3.1 - Number of awards/medals for outstanding performance in sports and/or cultural activities at inter-university / state /national / international events (award for a team event should be counted as one) during the year

86

File Description	Documents
e-copies of award letters and certificates	View File
Any additional information	View File

5.3.2 - Presence of an active Student Council and representation of students in academic and administrative bodies/committees of the institution

Students Council is constituted, according to UGC and University guidelines, in the institute. The members on the student council involve in many administrative, academic, co-curricular and extra-curricular activities under the guidance of one of the senior faculty member.

The student's representatives serve on Departmental Advisory board, Board of Studies, Departmental Associations, IQAC etc. Activities under students association are completely organized by students.

For inter-college cultural & sports activities the Cultural and Sports Secretary forms the teams and represents the institute. Students are also encouraged to be a part of the extension and outreach activities like NSS, Community Services as an Institute Social Responsibility. For each committee, a dedicated faculty coordinator guides and manages all the activities in these committees.

Various committees have been structured in the institute:

- 1) IQAC
- 2) Anti Ragging and Student Discipline Committee etc.
- 3) Library committee
- 4) Gymkhana Committee
- 5) Cultural Committee
- 6) Grievance Redressal Committee
- 7) Hostel and Health Care Committee
- 8) Women Empowerment Cell
- 9) Sexual Harassment Prevention committee
- 10) Innovation and Entrepreneurship Development Cell (IEDC) identifies
- 11) Career Development Cell (CDC) promotes and encourages higher education, competitive examinations.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

5.3.3 - Number of sports and cultural events / competitions organised by the institution

16

File Description	Documents
Report of the event	View File
List of sports and cultural events / competitions organised per year	View File
Upload any additional information	No File Uploaded

5.4 - Alumni Engagement

5.4.1 - The Alumni Association and its Chapters (registered and functional) contribute significantly to the development of the institution through financial and other support services

The institution has registered Alumni Association. The chapters of association are formed at major cities like Kolhapur, Ratnagiri, Pune, Mumbai, Delhi, Chennai, and Hyderabad, Bangalore in India and abroad (List of Functional Chapters is attached).

Activities and contribution of Alumni Association

1. Chapter Formation: Organizing alumni meets centrally and chapter wise.
2. Providing training to the students.
3. Assisting in placement activity and internship to students.
4. Providing help for needy alumni.
5. Major contribution from Alumni for institutional development: Alumni have helped the institute in following ways like Donation of books to library, donating licensed software, industrial trainings, placement assistance, and scholarship to needy and budding students.
6. Financial Support during Academic Year (2021 -2022) - Rs. 16,10,544/- (Rupees Nineteen Lakhs twenty-one thousand one hundred twenty-two only) for UG students' scholarships.
7. The other financial contributions of Rs. Rs. 1,69,18,060/- including student scholarship.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	http://tkietwarana.ac.in/alumni/alumni-association

5.4.2 - Alumni's financial contribution during the year

A. ? 15 Lakhs

File Description	Documents
Upload any additional information	View File

GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 - Institutional Vision and Leadership

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

The principal monitors the mechanism regarding administration and the academic process. He also ensures proper implementation of the policies, rules, and action plans of the college. The empowered team of the college involves the Principal, HODs, Registrar, Deans, TPO, convener of different committees, IQAC committee, teaching-staff, non-teaching and supporting staff, student's council, stakeholders, alumni and a college development committee is dedicated to catering quality technical education. IQAC, TPO, CDC, and student council are involved in the academic and administrative decision meetings. There is the well-organized composition of AC, BOS, BOE, and FC also exists with representatives from universities, other academic universities, Industrial alumni, and students which actively participate in the governance of the institute to meet expectations as per the institute's vision, mission, and quality policy.

There are many committees to support the vision and mission of the college like Examination cell, NSS, NCC, CDC, TPO, C.C, R&D, IEDC, etc. There are more than 30 different cells composed of staff and students who are also exposed to the decision as per cell objectives. The vision of the institute is to become an academy of excellence in technical education and human resource development. This vision is being constantly achieved

through activities like implementing quality teaching-learning processes by using modern tools, skilling students to become employable curricula in tune with industry needs, and inculcating attitudes in students for lifelong learning and ethics.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	http://tkietwarana.ac.in/about_tkiet/Visi-on-Mission#

6.1.2 - Effective leadership is reflected in various institutional practices such as decentralization and participative management

The administrative and academic decentralization of powers in education promises to become efficient, and better reflect on local priority, encourage stakeholders' participation, enhances learning outcomes and teaching quality. Thus it makes institute practices transparent at all levels such as Management, administration, financial and Academic practices. The governing council is the apex authority that monitors and implements rules and regulations and to delegate the process to various bodies like AC, IQAC, BOS, BOE, and FC to look into activities and smooth functioning. The academic and administrative body of TKIET practices a culture of participative management by involving faculty members, student alumni, and employees in various committees.

The administrative powers and responsibilities are distributed and executed through the participative management of the Managing Committee, the administrative officer, the principal, the deans, the Heads of the Departments, and the Faculty members. Knowing the inclusive significance of decentralization and participative management, the principal heads the College Council which comprises all the deans, Heads of the Departments, and Special Invitees. To support and monitor co-curricular and extracurricular activities of the student institute has more than 10 committees at the department level as well as at institute levels. The committees are composed of faculty students and external members who effectively implement these activities.

File Description	Documents
Upload strategic plan and deployment documents on the website	No File Uploaded
Upload any additional information	View File
Paste link for additional Information	http://tkietwarana.ac.in/about_tkiet/Vision-Mission#

6.2 - Strategy Development and Deployment

6.2.1 - The institutional Strategic/ Perspective plan has been clearly articulated and implemented

In the preparation of the strategic plan top management and IQAC is involved. Aspects like new courses, additional intake, infrastructural development & welfare schemes extra will be decided by management. The institute has a strategic plan as per a quality policy confirming its Vision and Mission. While IQAC decides quality check system to be followed like feedback, from stakeholder academic audits, and accreditation. The quality improvement strategies for the following aspects have been decided along with their implementation plans.

- Teaching learning
- Mode and conduct of examination
- Research and Development activities
- Industry e internships
- Human Resource Management
- Community engagement
- e-books and journal services
- Free book banks for all students
- Newspaper clipping services
- Best Raider award schemes
- Best reviewer award schemes
- Reference book services
- Plagiarism checking services
- INFLIBNET, NDIL, and another nationally recognized library
- Separate reading hall study room facility for boys and girls
- Old question paper Bank facility to students
- Separate departmental libraries as an immediate source of reference

Using the TKIET library activity is one such strategic plan activity that ensures the use of library resources activity as the strategic plan

All the library books have been coded and automated using PURNA- library management applications. Apart from a comprehensive collection of books the library also offers various vital services.

File Description	Documents
Strategic Plan and deployment documents on the website	No File Uploaded
Paste link for additional information	Nil
Upload any additional information	No File Uploaded

6.2.2 - The functioning of the various institutional bodies is effective and efficient as visible from the policies, administrative set-up, appointment and service rules, procedures, etc.

Tatyasaheb Kore Institute of Engineering and Technology has been established in 1983. It has a Governing body to monitor and achieve the vision and mission of the institution. It has an effective organizational structure that monitors and improves the institution. The organizational structure of the institution is given below.

Organizational Structure:

The basic structure of organizational management is prepared as per the guidelines of UGC, AICTE, DTE, and the university. The organizational functions and powers are also being governed as per the rules and regulations of Apex bodies.

The institute is run by the trust SWVSM. The trust has constituted governing body for the institute consisting of members from AICTE, UGC, DTE, and the university. The principal heads the academic and administrative departments and acts as an interface between management, staff, and students. The governing body has approved the TKIET handbook of rules regulations and responsibilities from the academic year 2020-21 which covers the rules and regulations for appointments, services r, rules and procedures for staff discipline, rules, and responsibilities, campus code of conduct, general guidelines, etc.

As per organizational structure, power has been decentralized to the Dean, HODs, COE (Control of Examiner), registrar, etc. These officers execute the power for transparent smooth functioning of activities under institutional bodies like the Academic Council, IQAC, BOS, BOE(Board of Examination), etc.

File Description	Documents
Paste link to Organogram on the institution webpage	Nil
Upload any additional information	No File Uploaded
Paste link for additional Information	Nil

6.2.3 - Implementation of e-governance in areas of operation: Administration Finance and Accounts Student Admission and Support Examination

A. All of the above

File Description	Documents
ERP (Enterprise Resource Planning) Documen	No File Uploaded
Screen shots of user interfaces	No File Uploaded
Details of implementation of e-governance in areas of operation	View File
Any additional information	No File Uploaded

6.3 - Faculty Empowerment Strategies

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

The institute effectively implements various welfare schemes for its teaching and non-teaching staff regularly those are.

1. EPF
2. Group Insurance
3. Gratuity for the employees of the institution.
4. Safety shoes, aprons, and uniforms for non-teachingstaff.
5. Concession in tuition fees for children of the employee.
6. Dividends and Diwali gifts vouchers through credit society

7. Merit scholarships to children of an employee for securing rank or high marks (%) in various examination

All the teaching and non-teaching staff benefitted from the above schemes

Motivation through counseling is also available for staff members to create a healthy working environment. This not only increases the work-life balance of the employee; it also helps us in increasing productivity and allows our staff to work effectively with complete satisfaction. Skill development courses are organized for non-teaching staff to enhance their skills in the work environment.

Maternity leaves and study leaves are extra for eligible staff. Financial assistance for paper Publications, attending workshops and training programs by the industries ,Scholarships for ward of the staff for securing the highest marks and Standardized rent for staff members staying in staff quarters are some of the other schemes for the teaching and non-teaching staff.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	Nil

6.3.2 - Number of teachers provided with financial support to attend conferences / workshops and towards payment of membership fee of professional bodies during the year

2

File Description	Documents
Upload any additional information	No File Uploaded
Details of teachers provided with financial support to attend conference, workshops etc during the year (Data Template)	View File

6.3.3 - Number of professional development / administrative training programmes

organized by the Institution for its teaching and non-teaching staff during the year

9

File Description	Documents
Reports of the Human Resource Development Centres (UGC HRDC/ASC or other relevant centres)	View File
Upload any additional information	No File Uploaded

6.3.4 - Number of teachers who have undergone online/ face-to-face Faculty Development Programmes during the year: (Professional Development Programmes, Orientation / Induction Programmes, Refresher Courses, Short-Term Course, etc.)

23

File Description	Documents
Summary of the IQAC report	No File Uploaded
Reports of the Human Resource Development Centres (UGC ASC or other relevant centers)	View File
Upload any additional information	No File Uploaded

6.4 - Financial Management and Resource Mobilization

6.4.1 - Institution conducts internal and external financial audits regularly

TKIET regularly conducts internal and external financial audits. It has had a full-time Treasurer and Accounts Department since its inception to ensure the maintenance of annual accounts and audits.

Internal audit is voluntary appraisal activity undertaken to assure the effectiveness of internal controls, risk management, and governance to facilitate the achievement of organizational objectives. Internal audit is covered our activities like

- Monitoring internal controls and proposing improvement
- To monitor the compliance of laws and regulations of trust
- Monitoring the instances of any wrong practice if any.
- Verifying necessary financial information Institute

follows an audit system regularly

In the first phase, a trimonthly audit is done as an internal audit. The auditors are appointed by the governing body. The external audit is done once a year. This external audit is done by a chartered accountant firm. The findings of internal audits will be discussed with the trust account officer and actions are taken to resolve discrepancies if any. Through the internal audit, the balance sheet along with the audit report is submitted to the trust authorities for review. The audited balance sheet is put before the finance committee and governing body for approval. As the use of auditable financial sources is effectively monitored their major financial objectives are pointed out hence confluence does not arise

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

6.4.2 - Funds / Grants received from non-government bodies, individuals, and philanthropists during the year (not covered in Criterion III and V) (INR in lakhs)

6

File Description	Documents
Annual statements of accounts	No File Uploaded
Details of funds / grants received from non-government bodies, individuals, philanthropists during the year	View File
Any additional information	No File Uploaded

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

The major sources of receipts for the institution are the tuition fees and other fees paid by the students. These fees are being approved by the fees regulating authority under the State Government of Maharashtra. Students who are taking the admission to the institute have applied for various scholarship schemes are

- Scholarship to reservation category and economically weaker students. these accounts are around more than 95% total scholarship received
- Tatyasaheb Kore SahakariSakharKarkhanamembers children's scholarship
- Late SrimatiShobha Tai Kore scholarship for meritorious as well as poor students
- TKIET alumni scholarship for meritorious as well as poor students

At the beginning of the year financial provisions required for day-to-day functioning and development activities are from each department. Based on this account section prepares the budget and puts it for scrutiny and approval from the finance committee. Then the finance committee puts it in front of governing council for its final approval. All purchases are made with the recommendation of the purchase committee.

expenditure recurring or non-recurring transactions through the bank by online payment or by cheques. Every transaction is supported by vouchers.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional Information	Nil

6.5 - Internal Quality Assurance System

6.5.1 - Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing quality assurance strategies and processes visible in terms of incremental improvements made during the preceding year with regard to quality (in case of the First Cycle): Incremental improvements made during the preceding year with regard to quality and post-accreditation quality initiatives (Second and subsequent cycles)

Examination reforms are essential to time to time to accomplish the need of Education process under autonomy. IQAC has taken initiatives to make effective reforms in Pre and Post Exam process software, paper assessment and result declaration process. These are

1. The entire exam system uses advanced software for all its operation from entry to the exit of student from institute. Institute has procured software from Bynaric

systems Ltd Pune which is capable of handling ISE and ESE . All work related to pre examination, its conduct and post examination are efficiently handled by software

1. All students had to register for their Regular and supplementary examinations through online mode only.
2. Students could download their hall tickets through exam portal online.
3. Students and parents could see their results through online and get notifications also.

IQAC has emphasised this issue by Intellectual Properties (IP) Policy and Research funding for Paper Publication Policies to accelerate this area. In new IP Policy following ownership of IPR and Sharing of fees for IPR process are redefined.

1. IP Generated from Research Conducted by Utilizing Resources of TKIET
2. ?IP Generated from Research & Development Conducted in Collaboration with External Partner
3. Sharing of Costs with Regard to IP Protection

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	Nil

6.5.2 - The institution reviews its teaching-learning process, structures and methodologies of operation and learning outcomes at periodic intervals through its IQAC as per norms

- 1) IQAC conducts the Students feedback and Academic Audit (AA) of all programs for each semester. The outcomes of these activities and its action taken process maintain the good quality of the teaching.
- 2) IQAC collects the Continuous Assessment Report (CAR) of all courses of all departments to get idea about the syllabus completion or progress.
- 3) After ISE - I and II results, the slow learner students are identified and Make Up test is arranged for these students to make them ready for End Semester Examination (ESE).
- 4) Industrial Visit and In Plant Training are made compulsory

for all Third and Final Year B. Tech. students to get real time industrial knowledge. IQAC keeps watch on the quality of conduction of these activities.

5) IQAC takes care about arrangement of Co-curricular activities and extracurricular activities as per academic calendar

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	Nil

6.5.3 - Quality assurance initiatives of the institution include Regular meeting of the IQAC Feedback collected, analysed and used for improvement of the institution Collaborative quality initiatives with other institution(s) Participation in NIRF Any other quality audit recognized by state, national or international agencies (such as ISO Certification)

A. Any 4 or all of the above

File Description	Documents
Paste the web link of annual reports of the Institution	Nil
Upload e-copies of accreditations and certification	View File
Upload details of quality assurance initiatives of the institution	View File
Upload any additional information	No File Uploaded

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 year

One of the most pressing issues confronting society today is

gender equality. Gender equality is promoted on a daily basis at the institute.

The institute has a clear gender independent policy with regards to the curricular, co-curricular and extra-curricular activities. Institute makes sure participation of girls with boys in NSS, NCC, Sports, AFPI, all curricular and extra-curricular activities. All girls have equal opportunities in all the endeavors. Guest speakers from a variety of fields are asked to talk on the issue, which emphasizes the significance and contribution of women in society.

The following is a list of the institution's gender equity promotion programs:

The TKIET has a strong ethical work culture that is inclusive. In all of its operations, it follows the highest ethical standards. Gender, race, caste, colour, creed, language, religion, political or other opinions, national or social origin, property, birth, or other status are all given equal opportunity. TKIET's primary concerns include safety, security, and well-being, as well as gender equity and a pleasant workplace environment.

Institute carried out various activities for strengthening gender equity like celebration of International Women's Day and many others.

Women Development Cell has organised guest lecture on "Women Health & Hygiene" by Ms. Ankita Sukhwai CSR Executive Unicharm India New Delhi for girl students on 8 March 2022.

- Safety and Security
- Boys and Girls Hostel
- Counseling
- Common Rooms for Boys and Girls
- Gym and gymnasium Facility
- Any other relevant information

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	Nil

<p>7.1.2 - The Institution has facilities for alternate sources of energy and energy conservation: Solar energy Biogas plant Wheeling to the Grid Sensor-based energy conservation Use of LED bulbs/ power-efficient equipment</p>	<p>A. Any 4 or All of the above</p>
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File Description	Documents
Geotagged Photographs	View File
Any other relevant information	No File Uploaded

7.1.3 - Describe the facilities in the institution for the management of the following types of degradable and non-degradable waste (within a maximum of 200 words)

TKIET is committed to generating less trash and recycling it by putting it through a mechanism that allows spent materials to be reused, hence conserving natural resources.

Solid waste management

The solid waste in the form of leaves, fruits etc. is collected and used for vermiculture and composting plants. Dustbins of suitable capacities are provided in each cabin, laboratory, office, canteen etc. to facilitate smooth collection. The College has contacted a recognized vendor who collects waste from the designated location, sorts it, recycles it, and disposes it.

Liquid waste management

There are two kinds of liquid waste produced by the College:

1. Sewage waste AND Laboratory, cafeteria effluent waste

The above waste is taken to the two wells and the water is used for watering the garden.

E-waste management

Old computers and equipment are sold to licensed vendor and college strictly follows old buy back scheme. Unused discs are given to schools as per the requirements for decorative and

"Best from Waste" purpose. Electronic garbage that cannot be reused or recycled is disposed of centrally by government-approved suppliers.

Hazardous chemicals management

In the Engineering Chemistry and Chemical Engineering Laboratories carries various experiments and projects in which a number of carcinogenic and hazardous chemicals are used to handle these chemical properly safety instructions are displayed to avoid the mishaps in these laboratories. After the use of hazardous chemicals, all the equipments are cleaned properly.

File Description	Documents
Relevant documents like agreements/MoUs with Government and other approved agencies	No File Uploaded
Geotagged photographs of the facilities	View File
Any other relevant information	View File

7.1.4 - Water conservation facilities available in the Institution: Rain water harvesting Bore well /Open well recharge Construction of tanks and bunds Waste water recycling Maintenance of water bodies and distribution system in the campus

A. Any 4 or all of the above

File Description	Documents
Geotagged photographs / videos of the facilities	View File
Any other relevant information	View File

7.1.5 - Green campus initiatives include

7.1.5.1 - The institutional initiatives for greening the campus are as follows:

A. Any 4 or All of the above

1. Restricted entry of automobiles
2. Use of bicycles/ Battery-powered vehicles

- 3. Pedestrian-friendly pathways**
- 4. Ban on use of plastic**
- 5. Landscaping**

File Description	Documents
Geotagged photos / videos of the facilities	View File
Various policy documents / decisions circulated for implementation	No File Uploaded
Any other relevant documents	No File Uploaded

7.1.6 - Quality audits on environment and energy undertaken by the institution

7.1.6.1 - The institution's initiatives to preserve and improve the environment and harness energy are confirmed through the following:

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

B. Any 3 of the above

File Description	Documents
Reports on environment and energy audits submitted by the auditing agency	No File Uploaded
Certification by the auditing agency	No File Uploaded
Certificates of the awards received	No File Uploaded
Any other relevant information	No File Uploaded

7.1.7 - The Institution has a disabled-friendly and barrier-free environment: Ramps/lifts for easy access to classrooms and centres Disabled-friendly washrooms Signage including tactile path lights, display boards and signposts Assistive

B. Any 3 of the above

technology and facilities for persons with disabilities: accessible website, screen-reading software, mechanized equipment, etc. Provision for enquiry and information: Human assistance, reader, scribe, soft copies of reading materials, screen reading, etc.

File Description	Documents
Geotagged photographs / videos of facilities	View File
Policy documents and brochures on the support to be provided	No File Uploaded
Details of the software procured for providing assistance	No File Uploaded
Any other relevant information	No File Uploaded

7.1.8 - Describe the Institutional efforts/initiatives in providing an inclusive environment i.e. tolerance and harmony towards cultural, regional, linguistic, communal, socio-economic and other diversities (within a maximum of 200 words).

The institution creates an inclusive environment for everyone, promoting tolerance and harmony in the face of cultural, regional, linguistic, community, socioeconomic, and other differences. Students who are belonging in minority category like Muslim, Christian, Buddhist, Sikh, Parsi, Jain, Maratha, Brahmin etc have been equally treated and provided with equal opportunities to nurture their education skills. Institute has Inclusive strategies where all the facilities are available to every type (category) of students. Also to maintain the harmony between diverse group students institute organizes Sports, Cultural and Commemorative days like Get together, Ganesh Festival, Shivjayanti, Traditional Day, maker sankarnti , Women's day, Yoga day and Social Annual Function. In the institute, there are many grievance redressal cells, such as the Student Grievance Redressal Cell and the Internal Complaints Committee, which deal with complaints without regard to anyone's race or cultural background. The institute has a code of ethics for students as well as a separate code of ethics for teachers and other staff, both code of conduct must be followed by all personnel, regardless of their cultural, geographical, language, communal socioeconomic or other differences. All these facilities to the students are provided

irrespective of their caste, creed, color, sex or socioeconomic background.

File Description	Documents
Supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	No File Uploaded

7.1.9 - Sensitization of students and employees of the institution to constitutional obligations: values, rights, duties and responsibilities of citizens:

TKIET is proud of the fact that, in addition to establishing a solid academic foundation for its students, the college is always working to help them grow as better citizens of the country. In this regard, the institute, in addition to providing professional legal education, fosters a sense of community among the learners through various practices and activities. The College celebrates Independence Day & Republic Day with great pomp and vigor.

In the syllabus of the institute, for the first year degree students, have an Audit course (subject), Democracy Election and Good governance for 1st Semester. The course improves the sensitization, values, rights, duties, and responsibilities according to constitution of India in students to the constitutional obligations.

By studying this audit course students get the knowledge of democracy, also they become curious about the constitution of India and aware of Socioeconomic responsibilities. In a real way, they understand the importance of voting in elections and the right of voting after the age of 18 years. Also by studying this course they desire good e-governance in the government. As result students who get success in competitive exams dare to implement smart and e-governance when they join the services.

First Year B. Tech. Department has organized Memes making competition and Essay writing competition on occasion of National voter day. The objective was to create awareness about voting in general election and increase participation of students in election process.

In this manner, students get constitutional awareness and responsibilities by studying this audit course.

File Description	Documents
Details of activities that inculcate values necessary to transform students into responsible citizens	View File
Any other relevant information	View File

7.1.10 - The institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic sensitization programmes in this regard: The Code of Conduct is displayed on the website There is a committee to monitor adherence to the Code of Conduct Institution organizes professional ethics programmes for students, teachers, administrators and other staff Annual awareness programmes on the Code of Conduct are organized	C. Any 2 of the above
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File Description	Documents
Code of Ethics - policy document	View File
Details of the monitoring committee composition and minutes of the committee meeting, number of programmes organized, reports on the various programmes, etc. in support of the claims	No File Uploaded
Any other relevant information	View File

7.1.11 - Institution celebrates / organizes national and international commemorative days, events and festivals
In academic year 2021 - 22 Institute has celebrated various commemorative days on various occasions as listed bellow.
1. 05 September 2021 Teachers Day 2. 15 September 2022 Engineers Day 3. 09 December 2021 NCC Day 4. 13 December 2021 Tatyasaheb Kore Punyatithi 5. 24 January 2022 National Girl Child Day 6. 26 January 2022 Republic Day 7. 19 February 2022 Shiivajayanti 8. 08 March 2022 International Woman's Day 9. 05 April 2022 Vilasrao Kore Punyatithi 10. 26 April 2022 World

Intellectual Property Day 11. 11 May 2022 National Technology
Day 12. 05 June 2022 World Environment Day 13. 15 August 2022
Independence day

File Description	Documents
Annual report of the celebrations and commemorative events for during the year	View File
Geotagged photographs of some of the events	No File Uploaded
Any other relevant information	No File Uploaded

7.2 - Best Practices

7.2.1 - Provide the weblink on the Institutional website regarding the Best practices as per the prescribed format of NAAC

Title of the Practice:

This title should capture the keywords that describe the practice.

Career Development Cell.

Objectives of the Practice:-

Career Guidance to the students is the most vital aspect of college education so that the students can serve the needs of the ever-changing and dynamic market needs. To choose the right career path based on the interest of the students, offers education beyond the curriculum and provides career guidance to the students in following aspects.

1. Discovering various career options in various government and private sectors after completion of graduation.
2. Creating awareness of National Level Entrance Examinations like GATE, IES, UPSC, MPSC and Banking Examinations among the students.
3. Creating interest of higher studies in Abroad.
4. Promoting a culture among students for lifelong learning for creating their bright career.

File Description	Documents
Best practices in the Institutional website	http://tkietwarana.ac.in/IOAC/Institutional-Best-Practices
Any other relevant information	Nil

7.3 - Institutional Distinctiveness

7.3.1 - Highlight the performance of the institution in an area distinct to its priority and thrust (within a maximum of 200 words)

Honorable Shri Late Tatyasaheb Kore a visionary leader and father of Warana industrial and educational cooperative movement, in the honor the college is named with an objective that "Charity is to serve society through the development of education, industry and the poor farmers". True to this prophetic statement this 39 years old institution has emerged as one of the premier institutions of higher learning in Maharashtra. After striving for 39 years continuously for curricular excellence by incorporating extraordinary digital platforms it has now become an autonomous institute from 2020-21. Commensurate to its vision statement institute is now poised to produce its graduates who are "Locally rooted and globally competent" engineers under Autonomous culture". The unique feature of the curriculum in the autonomous system is well stood on four pillars those are Acquiring knowledge, Inculcation of Soft Skills, Exposure to Industrial practices, Audit/Credit mandatory to participate in co curricular and extracurricular activities. With the above, foundation pillars institute continuously strive for curricular excellence and produce the graduates. Excellence in academics of Institute is recognized by the Shivaji University, Kolhapur as the Institute holds Excellent remark in the Academic Audit by Shivaji University for academic year 2021 - 22, also Institute secured first rank in Engineering and Technology under rural category in Shivaji University Merit Scholarship Scheme. Institute has Nature Based Wastewater Treatment System(Reed Bed System) A project at TKIET Campus Under CSR By LORD , India Ltd with Capacity 200 MLD and Cost Rs. 35 L

File Description	Documents
Appropriate link in the institutional website	Nil
Any other relevant information	View File

7.3.2 - Plan of action for the next academic year

Engineering drives innovation through the new processes and Technology, hence forestry innovation is an important goal of Engineering Education. In this line TKIET has created conducive environment for progressive implementation of its Autonomy.

The institute is currently, undergoing third year of its Autonomy. So, it has been decided to implement following Academic, Administrative and Infrastructural reforms for its smooth functioning.

- To establishing start-up and innovation unit at department levels.
- To organize at least 02 activities with the MoU signed organization in an academic year by every department.
- Organizing at least 01 Faculty Induction Program for the faculty and staff by each department.
- To carry out industry activities related to course.
- Conducting activities to sharpen the creative skills of students and provide a platform to exhibit their creativity.
- To further emphasize on the ICT.