



YEARLY STATUS REPORT - 2022-2023

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) **7798885025**
- 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 **Dr. M S Duttaragaon**
- Phone No. **023282242012**
- Mobile No: **7028152715**
- 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 **2**

- 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 considering NEP 2020 and AICTE model 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

Serious efforts towards implementing Outcome Based Education are taken and according changes are made in curriculum and examination system

To gain more credibility and recognition in engineering education, the Institutes has initiated necessary steps towards NBA accreditation

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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Empty space for plan of action and outcome	

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Nil	Nil
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<ul style="list-style-type: none"> Year 	
Year	Date of Submission
2022-23	04/03/2024
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

2704

Total number of students during the year:

File Description	Documents
Institutional data in Prescribed format	View File

2.2

764

Number of outgoing / final year students during the year:

File Description	Documents
Institutional Data in Prescribed Format	View File

2.3

1940

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

9

Number of courses in all programmes during the year:						
<table border="1"> <thead> <tr> <th>File Description</th> <th>Documents</th> </tr> </thead> <tbody> <tr> <td>Institutional Data in Prescribed Format</td> <td>View File</td> </tr> </tbody> </table>		File Description	Documents	Institutional Data in Prescribed Format	View File	
File Description	Documents					
Institutional Data in Prescribed Format	View File					
3.2	Number of full-time teachers during the year:	134				
<table border="1"> <thead> <tr> <th>File Description</th> <th>Documents</th> </tr> </thead> <tbody> <tr> <td>Institutional Data in Prescribed Format</td> <td>View File</td> </tr> </tbody> </table>		File Description	Documents	Institutional Data in Prescribed Format	View File	
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):	617				

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.

Our institute alliance the curriculum of all programs with the

latest trends, industry requirements and social needs to ensure the relevance and effectiveness and to provide high quality education that meets the demands of local, national, regional and global environment.

Our institute stay connected with the changing needs of society at all levels to design the curriculum for respective program considering POs, PSOs and COs to produce well equipped graduates who can contributes to society and industries keeping in mind the vision and mission statements of the institute. 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 to meet the needs.

The program curriculum has been revised for F.Y., S.Y., T.Y. B. Tech. and Final year B. Tech. Autonomous in the following years: 2019-20, 2020-21, 2021-22 and 2022-23 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.

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

File Description	Documents
Upload additional information, if any	View File
Link for additional information	Nil

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

76

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

76

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	View File
Any additional information	No File Uploaded
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

11

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

As per the NEP 2020 policy, the institute enriches the flexibility in curriculum with new course to accommodate changes in technology, industrial requirements and societal needs. Integration of interdisciplinary courses and skills can enhance the development of graduates and prepare them for multidisciplinary challenges.

The curriculum is set up so that cross-cutting issues are relevant to each course. This is to help students understand the ethical consideration and responsibility associated with their future careers such as case studies, group discussion, critical thinking and decision making skills. The curriculum is emphasized on outcome based education in achieving the objectives and maintains the quality education.

The institute conduct induction program on human values for all FY students which include all programs of the institute to create awareness of role playing exercises and ethical behavior.

And environmental study is mandatory course for all SY engineering programs. In civil engineering, a environment course is introduced for the study of environment impact assessment, audit, green audit, and water and energy conservation. Students learn the importance of conservation, resources management and sustainable practices.

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 to raise the awareness.

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	View File

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

13

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

785

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

2204

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	http://43.241.25.82:88/home
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

B. Feedback collected, analysed and action taken

File Description	Documents
Provide URL for stakeholders' feedback report	http://43.241.25.82:88/home
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

2704

File Description	Documents
Any additional information	View File
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)

874

File Description	Documents
Any additional information	View File
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.

The institute implements a system to distinguish between slow and advanced learners based on exam performance. Advanced learners are eligible for an honors degree and receive support through special classes conducted by the Career Development Cell to excel in national/international entrance exams. The Training and Placement Cell facilitates placement drives and offers training in interview skills and English proficiency to enhance employability. Advanced learners are encouraged to participate in inter-college technical festivals and are recognized with merit certificates. Slow learners receive makeup exams and personalized support from faculty, including remedial classes and access to question banks to improve performance.

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

2.2.2 - Student – Teacher (full-time) ratio

Year	Number of Students	Number of Teachers
01/08/2022	2704	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:

The curriculum emphasizes hands-on experimental learning, with

most courses featuring laboratory work where students conduct experiments and analyze results. Virtual Labs (V-Labs) are also utilized to enhance practical learning. Students engage in inquisitive learning in their first year, undertake mini-projects in their third year, and complete major projects in their final year, focusing on applied experimental learning.

Participative learning is encouraged through activities such as flipped classrooms, think-pair-share exercises, and group discussions. Blended learning approaches combine traditional teaching methods with ICT tools like presentations and online resources. Third-year students present seminars on topics of their choice, often extending beyond the syllabus. Participation in NCC and NSS fosters social awareness and a culture of participative learning.

Problem-solving methodologies are integrated throughout the curriculum, with students from the first to final year tackling real-life problems to develop viable solutions. Inquisitive learning, mini-projects, and final-year projects serve as platforms for problem-solving engagement.

These approaches expose students to real-world challenges, enabling them to propose feasible solutions and bridge the gap between theory and practical application.

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

In today's competitive landscape, students must grasp the latest technologies to thrive in the corporate world. Consequently, educators are integrating technology with traditional teaching methods to foster long-term learning engagement. The college utilizes Information and Communication Technology (ICT) to strengthen educational delivery, employing various tools such as LCD projectors (35), Writing Pads (06), document cameras(06), desktops, laptops, printers, photocopiers, scanners, seminar rooms, smart boards, auditorium equipment, online class platforms, coding competitions ,MOOC platforms, and digital library resources

like DEL NET

Faculty members employ ICT in several ways:

- A. They utilize Power Point presentations, supported by LCDs and projectors, leveraging digital libraries and online resources to craft effective teaching materials.
- B. Seminar and conference rooms are digitally equipped for guest lectures, expert talks, and student competitions.
- C. Video conferencing tools like Zoom and Google Meet aid student counseling sessions.
- D. Recorded video lectures are accessible to students for ongoing learning and future reference.
- E. Various technical and management events, including poster making, project presentations (Jidnyasa), paper presentations (Eureka) are organized using ICT tools.
- G. Workshops on cutting-edge topics like Ardinouno Programming, Matlab, AVEVA PDMS, Solid Works etc. conducted by faculty utilizing various ICT resources.

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	View File

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

The Academic Committee of the Institute annually formulates the academic calendar, which is subsequently discussed with the Chairman of the Board of Studies (BoS) and finalized upon approval from the Chairman of the Academic Council. This approved calendar is then prominently displayed on notice boards and the Institute's website before the commencement of each semester, detailing key dates such as the first and last day of instruction, total instructional days, and schedules of internal and external examinations (ISE and ESE).

The institution strictly adheres to the academic calendar, making necessary adjustments in consultation with department heads, the Academic Committee, and stakeholders in case of unforeseen circumstances. Any changes made are promptly communicated through notice boards and the website.

Before each semester begins, the BoS Chairman holds meetings with faculty members to allocate subjects. Subject in-charges then develop comprehensive teaching plans for both theory and laboratory courses. These plans include syllabus details, lecture content, experiment schedules, planned and actual completion dates. Progress of each course is monitored by the BoS Chairman and Academic Council to ensure timely and effective course completion within the specified timeframe.

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	View File
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

18

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

30

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

0

File Description	Documents
Upload the number of complaints and total number of students who appeared for exams during the year	No File Uploaded
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 committed to realizing its vision and mission, guided by Outcome Based Education (OBE), focusing on the attainment of Program Outcomes (POs), Program Specific Outcomes (PSOs), and Course Outcomes (COs). These outcomes, aligned with graduate attributes, are defined with input from the Board of Governors (BoG), Academic Council, Board of Studies (BoS), and Department Advisory Board (DAB). Once approved by all statutory bodies, they are published on the institution's website.

To ensure understanding and integration of the institution's vision and mission, Program Educational Objectives (PEOs), POs, and COs are communicated to faculty, students, and stakeholders. This communication is facilitated through various channels:

- At the beginning of each academic year, department faculty develop teaching-learning plans incorporating the perspective of COs, POs, and PSOs for their programs and courses.
- Learning outcomes are disseminated through publications such as syllabus books, calendars, and records, as well as displayed in HoD cabins, classrooms, laboratories, corridors, and the institution's website. Question papers also reflect the mapping of POs to COs, ensuring alignment with the educational objectives.

<http://tkietwarana.ac.in/IQAC/CO-PO-of-Different-Programs>

File Description	Documents
Upload COs for all courses (exemplars from the Glossary)	View File
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

The institute, having adopted Outcome Based Education (OBE) system, has devised a comprehensive process for calculating the attainment of Course Outcomes (COs) and Program Outcomes (POs), tailored to the requirements of an autonomous institution. Efforts have been made by the institute and the Internal Quality Assurance Cell (IQAC) to raise awareness among students and faculty regarding this process.

The process can be summarized as follows:

Direct methods, including End-Semester Examinations (ESE), In-Semester Examinations (ISE) I and II, Make-up Examination, Practical oral Examination, Presentation of Projects (POE), Seminars, and Inquisitive Learning, are utilized for assessment. These methods are evaluated through theory examinations, presentations, or predefined rubrics, with marks allocated based on their significance.

Course teachers establish targets for CO attainment, and the data from direct methods are analyzed to compare against these targets. Excel sheets is employed for this analysis, with attainment levels graded as Substantial (3), Moderate (2), or Lower (1).

COs-POs mapping is utilized to calculate PO attainment based on the direct methods.

Indirect methods, such as employer, parent, alumni feedback, and student exit surveys, are also used to assess PO attainment.

In the final calculation, 80% weightage is assigned to direct methods and 20% to indirect methods to determine the final PO and

PSO attainment.

This attainment calculation is further scrutinized to identify curriculum gaps for slow learners and to enhance the curriculum for advanced learners.

File Description	Documents
Upload any additional information	View File
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

690

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	View File
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://tkietwarana.ac.in/IOAC/Student-Satisfaction-Survey>

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 developed a comprehensive policy aimed at promoting and nurturing research and consultancy activities among both students and faculty. Students and faculty are encouraged to undertake research and consultancy projects, particularly those

addressing industrial or social problems, with appropriate incentives provided to faculty members for engaging in such projects. The institute has also introduced a subject called "Inquisitive Learning" from the first year onwards, aimed at promoting creative thinking and critical analysis skills among students. Necessary resources are provided to students to support their academic projects, ensuring they have the tools needed to succeed. The Chemical department hosts a Ph.D. research center approved by Shivaji University, Kolhapur, and the Mechanical department is in the process of establishing one, highlighting the institute's commitment to advanced research and academic excellence. Additionally, several departments offer postgraduate programs and maintain research laboratories equipped with infrastructure and resources to support student research endeavors. Each department receives annual development funds to upgrade their respective laboratories, ensuring that the infrastructure remains modern and conducive to research activities. Furthermore, the institute actively submits proposals to various funding agencies to secure research funds and support for laboratory upgrades, demonstrating a proactive approach to resource acquisition.

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	View File

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)

0.32

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	View File

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

5

File Description	Documents
e-copies of the award letters of the teachers	View File
List of teachers and details of their international fellowship(s)	View File
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)

62.95

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

7

File Description	Documents
Upload any additional information	View File
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

23

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

2

File Description	Documents
Supporting document from Funding Agencies	View File
Paste link to funding agencies' website	Nil
Any additional information	View File

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.

The institution has established an environment conducive to fostering innovation and entrepreneurship by setting up the Innovation and Entrepreneurship Development Cell (IEDC) and the Institute Innovation Council (IIC). Additionally, it has devised the National Innovation and Startup Policy (NISP) in alignment with the All India Council for Technical Education (AICTE) and the

Government of India's initiatives to promote entrepreneurship, offering technological, research, and industrial connectivity support.

To instill an innovative mindset in students, the institution has introduced Project-Based Learning (PBL) for first-year students. These projects serve as practical solutions to real-world problems, enhancing the learning experience alongside traditional classroom teaching.

In order to equip students with entrepreneurial skills, the institution collaborates with various entities including AICTE, IIC, NISP, ARIIA, Tata Centre IIT Mumbai, Million Mind, and the Maharashtra Cell for Entrepreneurship Development (MCED). Various sessions such as Entrepreneurship Awareness Camps (EAC), Business Idea Competitions, Expert Sessions, and MIC Driven Sessions are organized to enhance students' entrepreneurial capabilities.

File Description	Documents
Upload any additional information	No File Uploaded
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

30

File Description	Documents
Report of the events	View File
List of workshops/seminars conducted during the year	View File
Any additional information	No File Uploaded

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

D. Any 1 of the above

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

6

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	View File

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

29

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

4

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

0

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)

85.48

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	View File
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

0.30

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	View File
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's leadership consistently encourages both students and faculty to engage in social initiatives and uphold ethical principles. These activities encompass a range of endeavors, including tree planting, voluntary labor (Shram-daan) on the college campus, participation in the Maji-Vasundhara Abhiyan Oath, and the solemn observance of the 100th Death Anniversary of Shree Rajashri Shahu Maharaj with a campus-wide moment of silence lasting 100 seconds.

Additionally, the institute actively commemorates significant national events, such as the celebration of Azadi ka Amrut

Mahotsav in honor of India's 75th Independence Day anniversary. Faculty and students alike contribute to philanthropic efforts by visiting Warana Matimand Vidyalaya (School for the handicapped) and providing financial support. Flag hoisting ceremonies on Independence Day and Republic Day involve the participation of NSS & NCC students, local government officials, and honored guests.

The institute also hosts events like Eureka and Jidnyasa, which serve as platforms for students from various colleges to showcase and exchange their technical ideas. These initiatives not only foster a spirit of social responsibility but also promote collaboration and innovation within the student community.

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

91

File Description	Documents
Number of awards for extension activities in during the year	View File
e-copy of the award letters	View File
Any additional information	View File

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)

14

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

937

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

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

88

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)

23

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 enough physical space and infrastructure to support its continuous administrative, academic, and co-curricular programs in addition to extracurriculars. With an eye on the future, the Institute carefully and continuously builds the

necessary infrastructure, considering its necessity and use to fulfill impending demands. Each of the five major departments has a fully equipped lab, five well-furnished seminar halls, language labs, departmental libraries, and a state-of-the-art auditorium. The institute has excellent IT infrastructure, with over 650 PCs connected to a wired network and a 610 Mbps broadband connection. Over 12 TB of e-learning resources are stored in the data center.

Entire IT and ICT infrastructure management is the responsibility of a specialized SNS department. The institute's campus spans 15 acres and features a variety of leisure facilities, such as a gymnasium, café, bank extension counter area, indoor stadium, and indoor swimming pool. The curriculum and new programs will determine what extra infrastructure is available. Facilities and other infrastructure are widely available. The institution features spacious, pleasant classrooms with ICT facilities, as well as well-equipped lecture halls with audio-visual equipment. Each department is equipped with a range of state-of-the-art labs, including language, communication skills, and central computing facilities.

The institute provides 24-hour Internet access via Wi-Fi, e-learning tools, and a digital library including a substantial amount 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.)

All students are supported and encouraged to participate in sports as an extracurricular activity. It is headed by a dedicated Physical Director who is Post-Graduated in Master in Physical Education. The gymkhana department is in charge of organizing most sports events at the district, university, zone, inter-zonal, and state levels.

The school provides all the resources required to encourage students' interests in cultural activities. The school has established best practises for the administration of cultural events through the establishment of multiple committees comprising

members from the faculty and students. The Marathi Sahitya Mandal Committee, the Horizon Committee, the Culture Committee, and the Nature Club are some of these committees.

The Institute provides a well-equipped indoor, open auditorium for all cultural events attended by staff and students. Two yearly cultural events are Traditional Day and Annual Social Function. Students who were exceptionally talented musicians founded their own ensemble, known as "AKSHSTRA," or student orchestra. Yoga Center: The institute has a yoga and meditation center where various yoga camps are offered. These camps are organized by a number of volunteer academic staff members and students with the assistance of licensed yoga instructors.

File Description	Documents
Geotagged pictures	View File
Upload any additional information	No File Uploaded
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)

142.80

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)

Name of the ILMS software: Techno Aarv (Purna Library Management Solution Version 2)

Nature of automation (full or partial): Full

Version: 2.0

Year of automation: 2010

Link: <http://10.1.1.7:8180/Library/opacinfo/opac.jsp>

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 58,624 bibliographic records of books and 94 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	http://10.1.1.7:8180/Library/opacinfo/opac.jsp

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)

13.30

File Description	Documents
Audited statements of accounts	View File
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

311

File Description	Documents
Upload details of library usage by teachers and students	View File
Any additional information	View File

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

Yes, the Institute has an IT policy covering all major areas like Wi-Fi, cyber security etc. Which is updated or amended whenever required as per the need of the institute. The Tatyasaheb Kore

Institute of Engineering and Technology (TKIET), Warananagar (Autonomous), has a state-of-the-art IT infrastructure. It is conveniently accessible for the purpose of teaching and learning. The institute updates its ICT-enabled infrastructure on a regular basis. The IT policy of the institute requires that only authorized software be installed, and that regular maintenance be performed.

Hardware infrastructure:

- Computers - 645
- Servers - 10
- Data Centre - 1No
- Storage - 2 Nos (36TB + 72TB)
- Projectors - 49 Nos
- Printer - 45 Nos

Networking infrastructure:

- LAN (1000 nodes)
- Wi-Fi enabled network with 16 access points.
- Active and passive components for networking
- Core Switch
- Firewall Security System, internet applications

Online Services to the Students

- Online application portal
- Online fee payment
- Online mark statement
- Online provisional results

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
2704	645

File Description	Documents
Upload any additional information	View File

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: A. All four 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	View File
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)

141

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 following policies govern how various physical, academic, and support facilities are used and maintained. Classrooms and laboratories are assigned by Dean Academics Auditorium. Seminar Halls can only be reserved and allocated with the principal's prior consent. Assigned by the different in-charges are HoDs. The department in charge after an incident has to take care of any necessary cleaning and upkeep.

Annual Maintenance Contracts (AMC) are agreements that some departments have with suppliers and enterprises for the maintenance and repair of critical equipment. The main library is furnished with contemporary equipment, such as specialized reading rooms, top-of-the-line PCs with smooth Internet connectivity, and a touchscreen kiosk for information presentation. System and Network Support (SNS) personnel are responsible for the upkeep and management of all IT infrastructure. Repair and maintenance are the responsibility of the leader of the SNS team, the system network administrator, the technicians, and the corresponding lab assistants.

Logs are kept and utility services such as housekeeping, sewage treatment, air conditioning, elevators, and electrical systems are serviced on a regular basis. The dedicated sports department of the institute is led by a seasoned physical director, the physical director's assistant, and departmental coordinators. Peons are in charge of and maintain the sports facilities. Checking the inventory in the labs and classrooms is standard procedure. The lab has undergone routine cleaning operations. Lab assistants are in charge of calibrating, maintaining, and inspecting lab apparatus.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	http://tkietwarana.ac.in/home/Rules-and-Regulations

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

2247

File Description	Documents
Upload self-attested letters with the list of students receiving scholarships	View File
Upload any additional information	View File

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

363

File Description	Documents
Upload any additional information	View File
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	Nil
Details of capability development and schemes	View File
Any additional information	View File

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

1390

File Description	Documents
Any additional information	View File
Number of students benefitted 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	No File Uploaded
Upload any additional information	View File

5.2 - Student Progression

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

514

File Description	Documents
Self-attested list of students placed	View File
Upload any additional information	View File

5.2.2 - Number of outgoing students progressing to higher education

19

File Description	Documents
Upload supporting data for students/alumni	View File
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

10

File Description	Documents
Upload supporting data for students/alumni	View File
Any additional information	View File

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

112

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

The Student Council, established following the guidelines set forth by the UGC and the university, assumes a multifaceted role within the institute, encompassing administrative, academic, co-curricular, and extra-curricular domains. Operating under the mentorship of a senior faculty member, council members actively participate in a myriad of activities, including but not limited to serving on Departmental Advisory Boards, Boards of Studies, Departmental Associations, and the Institutional Quality Assurance Cell (IQAC).

Moreover, students take charge of organizing activities within their respective associations, fostering a culture of self-governance and leadership. They also play a pivotal role in representing the institute in inter-college cultural and sports events, facilitated by the Cultural and Sports Secretary.

Beyond the campus confines, students are encouraged to engage in extension and outreach initiatives such as the National Service Scheme (NSS) and Community Services, thereby fulfilling the institute's commitment to social responsibility.

Each committee within the institute, including but not limited to the IQAC, Anti-Ragging and Student Discipline, Library, Gymkhana, Cultural, Grievance Redressal, Hostel and Health Care, Women Empowerment Cell, Sexual Harassment Prevention, Innovation and Entrepreneurship Development Cell (IEDC), and Career Development Cell (CDC), operates under the guidance of dedicated faculty coordinators. These committees serve as vital platforms for student involvement, empowerment, and the holistic advancement of the institution.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	http://tkietwarana.ac.in/management/College-Development-Committee

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

31

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 boasts a duly registered Alumni Association, which spans various major cities including Kolhapur, Ratnagiri, Pune, Mumbai, Delhi, Chennai, Hyderabad, and Bangalore in India, as well as abroad (refer to the attached list detailing Functional Chapters).

Outlined below are the significant activities and contributions orchestrated by the Alumni Association:

- 1. Chapter Formation:** The Alumni Association orchestrates alumni gatherings both centrally and on a chapter-specific basis.
- 2. Student Training:** It facilitates training sessions for current students.
- 3. Placement Assistance:** The Association aids students in securing internships and employment opportunities.
- 4. Support for Needy Alumni:** Assistance is provided to alumni in need.

5. Institutional Development Contributions: Alumni have substantially contributed to the institute's progress by donating books to the library, providing licensed software, facilitating industrial training, extending placement support, and offering scholarships to deserving students.

6. Financial Support during the Academic Year (2022 -2023): A noteworthy sum of ₹15,68,616/- (Rupees Fifteen Lakh Sixty-Eight Thousand Six Hundred Sixteen Rupees only) was allocated for undergraduate student scholarships.

7. Additional Financial Contributions: An aggregate sum of Rs. ₹ 1,17,29,616 /-, inclusive of student scholarships, has been tendered.

This collective endeavour underscores the profound commitment of the Alumni Association towards the advancement of the institution and the holistic development of its student body.

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. This vision is being constantly achieved through activities like implementing quality teaching-learning processes by using ICT 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/vision-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	View File
Upload any additional information	No File Uploaded
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.

1. Syllabus setting and reframing the syllabus on proper timing to meet industrial and global standards as per guidelines given by AICTE and NEP rules.
2. Teaching learning
3. Mode and conduct of examination
4. Research and Development activities
5. Industry internships
6. Human Resource Management
7. Community engagement

8. E-books and journal services
9. Free book banks for all students
10. Newspaper clipping services
11. Best Reader award schemes
12. Best reviewer award schemes
13. Reference book services
14. Plagiarism checking services
15. Awareness Programs on National and International Entrances Exams
16. INFLIBNET, NDIL,
17. Good Internet Facilities in Libraries and computer Labs

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	View File

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 principalheads 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, 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	http://tkietwarana.ac.in/management/Governing%20Body
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	View File
Screen shots of user interfaces	View File
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-teaching staff.
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 examinations.

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	View File
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

14

File Description	Documents
Upload any additional information	View File
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

20

File Description	Documents
Reports of the Human Resource Development Centres (UGC HRDC/ASC or other relevant centres)	View File
Upload any additional information	View File

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.)

112

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	View File

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 tri-monthly 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	http://www.tkietwarana.ac.in/management/Finance%20Committee

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)

17.48

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	View File

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.

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.

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
- Late SrimatiShobha Tai Kore scholarship for meritorious as well as poor students.
- TKIET alumni scholarship for meritorious as well as poor students

File Description	Documents
Upload any additional information	View File
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)

Time to time examination reforms is essential 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, ESE examinations and also complete pre and post examination procedure efficiently.
 - All students have to register for their regular and supplementary examinations through online mode only.
 - Students could download their hall tickets through exam portal online.
 - Students and parents could see their results through online and get notifications also.

1. In today's globalization era, both journal publications and Intellectual Property Rights (IPR) contribute to an institute's growth, reputation, and impact on society. Considering this IQAC has emphasized on drafting Intellectual Property (IP) Policy and Research Policy for the Institute. In new IP Policy following ownership of IPR and Sharing of fees for IPR process are redefined.
 - IP Generated from Research Conducted by Utilizing Resources of TKIET.
 - IP Generated from Research & Development Conducted in Collaboration with External Partner.

Sharing of Costs with Regard to IP Protection.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	http://tkietwarana.ac.in/IQAC/Minutes-of-IQAC-Meetings

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) The IQAC administers student feedback and conducts Academic Audits (AA) for all programs each semester. The results of these initiatives, along with the actions taken, ensures maintaining of

high teaching quality.

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	http://tkietwarana.ac.in/IQAC/Minutes-of-IQAC-Meetings

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	http://tkietwarana.ac.in/IQAC/Minutes-of-IQAC-Meetings
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

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.

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 plant Wheeling to the Grid 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	No File Uploaded

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	No File Uploaded

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	View File
Certification by the auditing agency	View File
Certificates of the awards received	View File
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

B. Any 3 of the above

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, 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, (Mr. & Ms. Parampara Competition), maker sankranti, 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:

In the 1st year 1st semester of engineering, this audit course has MCQ type exam having a maximum of 50 marks. There are 25 MCQ-type questions and each question of 2 marks. Students get the institutional certificate signed by the principal after passing this exam.

By studying this audit course students get the knowledge of democracy. At the same time, they become curious about the constitution of India and aware of socioeconomic responsibilities towards the nation. 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, smart, and 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 Poster Presentation and Rangoli Competition on Occasion of National Voters Day. The objective was to create awareness about voting in grneral election and increase participation of students in election process.

File Description	Documents
Details of activities that inculcate values necessary to transform students into responsible citizens	View File
Any other relevant information	No File Uploaded

7.1.10 - The institution has a prescribed code of conduct for students, teachers, C. Any 2 of the above

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

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	No File Uploaded

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

Independence Day-15 August

Independence Day commemorates the end of British rule in India in 1947 and the birth of a free and independent country. Every year, TKIET commemorates Independence Day. The Administrative Officer hoists the flag and delivers a speech to the students and staff on the significance of Republic Day.

Teachers Day: 05 September

Teacher's Day is recognized to celebrate the difficulties, sacrifices, and unique role that teachers play in our lives. Teachers Day is one such event that both students and teachers anticipate. Teachers Day is organized by students from all departments, who assist faculty members and conduct a few events.

Engineers Day: 15 September

Engineer's Day is commemorated to recognize our country's engineers and to honor their accomplishments in all fields of

science and technology. Engineers play a critical role and contribute to a country's economic prosperity and development. InTKIET, students organize various activities on Engineers 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	View File
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

1. Title of the Practice: NCC (National Cadet Corps)

1. Objectives of the Practice:-

The objectives of an NCC (National Cadet Corps) unit at a college typically revolve around fostering holistic development among the cadets, instilling discipline, patriotism, and leadership qualities. Here are three to four common objectives:

1. Leadership Development: NCC aims to groom young cadets into future leaders by providing them with opportunities to take up leadership roles and responsibilities.
2. Character Building and Discipline: One of the primary objectives of NCC is to instill discipline, integrity, and a sense of responsibility among the cadets.
3. Physical Fitness and Adventure Activities: NCC promotes physical fitness and encourages cadets to participate in outdoor activities like trekking, camping, rock climbing, and sports.
4. Community Service and Social Awareness: NCC emphasizes the importance of serving the community and nation.

File Description	Documents
Best practices in the Institutional website	http://www.tkietwarana.ac.in/upload/naac/Best%20Practices/7.2-%20NCC.pdf
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 co-operative 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 41 years old institution has emerged as one of the premier institutions of higher learning in Maharashtra not only has the college continually serves thousands of needy students from the region but also has a long-standing tradition of academic excellence. The college is most sought after by students belonging to all educational demographics.

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 institute has accepted the challenges of autonomous status and devised the system to connect every student with the industries and societal needs. The unique feature of the curriculum in the autonomous system is well stood on four pillars those are 1. Acquiring knowledge than marks. 2. Inculcation of Soft Skills among the students. 3. Exposure to Industrial practices with strong industry connected credits. 4. Audit/Credit mandatory to participate in co curricular and extracurricular activities. With the above, these foundation pillars institute continuously strive for curricular excellence and produce the graduates to suit the needs of the 21st century.

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.

Our institute allianse the curriculum of all programs with the latest trends, industry requirements and social needs to ensure the relevance and effectiveness and to provide high quality education that meets the demands of local, national, regional and global environment.

Our institute stay connected with the changing needs of society at all levels to design the curriculum for respective program considering POs, PSOs and COs to produce well equipped graduates who can contributes to society and industries keeping in mind the vision and mission statements of the institute. 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 to meet the needs.

The program curriculum has been revised for F.Y., S.Y., T.Y. B. Tech. and Final year B. Tech. Autonomous in the following years: 2019-20, 2020-21, 2021-22 and 2022-23 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.

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

File Description	Documents
Upload additional information, if any	View File
Link for additional information	Nil

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

76

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

76

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	View File
Any additional information	No File Uploaded
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

11

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

As per the NEP 2020 policy, the institute enriches the flexibility in curriculum with new course to accommodate changes in technology, industrial requirements and societal needs. Integration of interdisciplinary courses and skills can enhance the development of graduates and prepare them for multidisciplinary challenges.

The curriculum is set up so that cross-cutting issues are relevant to each course. This is to help students understand the ethical consideration and responsibility associated with their future careers such as case studies, group discussion, critical thinking and decision making skills. The curriculum is emphasized on outcome based education in achieving the objectives and maintains the quality education.

The institute conduct induction program on human values for all FY students which include all programs of the institute to create awareness of role playing exercises and ethical behavior.

And environmental study is mandatory course for all SY engineering programs. In civil engineering, a environment course is introduced for the study of environment impact assessment, audit, green audit, and water and energy conservation. Students learn the importance of conservation, resources management and sustainable practices.

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 to raise the awareness.

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	View File

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

13

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

785

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	
2204	
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	http://43.241.25.82:88/home
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	B. Feedback collected, analysed and action taken
File Description	Documents
Provide URL for stakeholders' feedback report	http://43.241.25.82:88/home
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	
2704	

File Description	Documents
Any additional information	View File
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)

874

File Description	Documents
Any additional information	View File
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.

The institute implements a system to distinguish between slow and advanced learners based on exam performance. Advanced learners are eligible for an honors degree and receive support through special classes conducted by the Career Development Cell to excel in national/international entrance exams. The Training and Placement Cell facilitates placement drives and offers training in interview skills and English proficiency to enhance employability. Advanced learners are encouraged to participate in inter-college technical festivals and are recognized with merit certificates. Slow learners receive makeup exams and personalized support from faculty, including remedial classes and access to question banks to improve performance.

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

2.2.2 - Student – Teacher (full-time) ratio

Year	Number of Students	Number of Teachers
01/08/2022	2704	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:

The curriculum emphasizes hands-on experimental learning, with most courses featuring laboratory work where students conduct experiments and analyze results. Virtual Labs (V-Labs) are also utilized to enhance practical learning. Students engage in inquisitive learning in their first year, undertake mini-projects in their third year, and complete major projects in their final year, focusing on applied experimental learning.

Participative learning is encouraged through activities such as flipped classrooms, think-pair-share exercises, and group discussions. Blended learning approaches combine traditional teaching methods with ICT tools like presentations and online resources. Third-year students present seminars on topics of their choice, often extending beyond the syllabus.

Participation in NCC and NSS fosters social awareness and a culture of participative learning.

Problem-solving methodologies are integrated throughout the curriculum, with students from the first to final year tackling real-life problems to develop viable solutions. Inquisitive learning, mini-projects, and final-year projects serve as platforms for problem-solving engagement.

These approaches expose students to real-world challenges, enabling them to propose feasible solutions and bridge the gap between theory and practical application.

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

In today's competitive landscape, students must grasp the latest technologies to thrive in the corporate world. Consequently, educators are integrating technology with traditional teaching methods to foster long-term learning engagement. The college utilizes Information and Communication Technology (ICT) to strengthen educational delivery, employing various tools such as LCD projectors (35), Writing Pads (06), document cameras(06), desktops, laptops, printers, photocopiers, scanners, seminar rooms, smart boards, auditorium equipment, online class platforms, coding competitions ,MOOC platforms, and digital library resources like DEL NET

Faculty members employ ICT in several ways:

A. They utilize Power Point presentations, supported by LCDs and projectors, leveraging digital libraries and online resources to craft effective teaching materials.

B. Seminar and conference rooms are digitally equipped for guest lectures, expert talks, and student competitions.

C. Video conferencing tools like Zoom and Google Meet aid student counseling sessions.

D. Recorded video lectures are accessible to students for ongoing learning and future reference.

E. Various technical and management events, including poster making, project presentations (Jidnyasa), paper presentations (Eureka) are organized using ICT tools.

G. Workshops on cutting-edge topics like Ardinouno Programming, Matlab, AVEVA PDMS, Solid Works etc. conducted by faculty utilizing various ICT resources.

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	View File

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

The Academic Committee of the Institute annually formulates the academic calendar, which is subsequently discussed with the Chairman of the Board of Studies (BoS) and finalized upon approval from the Chairman of the Academic Council. This approved calendar is then prominently displayed on notice boards and the Institute's website before the commencement of each semester, detailing key dates such as the first and last day of instruction, total instructional days, and schedules of internal and external examinations (ISE and ESE).

The institution strictly adheres to the academic calendar, making necessary adjustments in consultation with department heads, the Academic Committee, and stakeholders in case of unforeseen circumstances. Any changes made are promptly communicated through notice boards and the website.

Before each semester begins, the BoS Chairman holds meetings with faculty members to allocate subjects. Subject in-charges then develop comprehensive teaching plans for both theory and laboratory courses. These plans include syllabus details, lecture content, experiment schedules, planned and actual

completion dates. Progress of each course is monitored by the BoS Chairman and Academic Council to ensure timely and effective course completion within the specified timeframe.

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	View File
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

18

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

30

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

0

File Description	Documents
Upload the number of complaints and total number of students who appeared for exams during the year	No File Uploaded
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 committed to realizing its vision and mission, guided by Outcome Based Education (OBE), focusing on the attainment of Program Outcomes (POs), Program Specific Outcomes (PSOs), and Course Outcomes (COs). These outcomes, aligned with graduate attributes, are defined with input from the Board of Governors (BoG), Academic Council, Board of Studies (BoS), and Department Advisory Board (DAB). Once approved by all statutory bodies, they are published on the institution's website.

To ensure understanding and integration of the institution's vision and mission, Program Educational Objectives (PEOs), POs, and COs are communicated to faculty, students, and stakeholders. This communication is facilitated through various

channels:

- At the beginning of each academic year, department faculty develop teaching-learning plans incorporating the perspective of COs, POs, and PSOs for their programs and courses.
- Learning outcomes are disseminated through publications such as syllabus books, calendars, and records, as well as displayed in HoD cabins, classrooms, laboratories, corridors, and the institution's website. Question papers also reflect the mapping of POs to COs, ensuring alignment with the educational objectives.

<http://tkietwarana.ac.in/IQAC/CO-PO-of-Different-Programs>

File Description	Documents
Upload COs for all courses (exemplars from the Glossary)	View File
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

The institute, having adopted Outcome Based Education (OBE) system, has devised a comprehensive process for calculating the attainment of Course Outcomes (COs) and Program Outcomes (POs), tailored to the requirements of an autonomous institution. Efforts have been made by the institute and the Internal Quality Assurance Cell (IQAC) to raise awareness among students and faculty regarding this process.

The process can be summarized as follows:

Direct methods, including End-Semester Examinations (ESE), In-Semester Examinations (ISE) I and II, Make-up Examination, Practical oral Examination, Presentation of Projects (POE), Seminars, and Inquisitive Learning, are utilized for assessment. These methods are evaluated through theory examinations, presentations, or predefined rubrics, with marks allocated

based on their significance.

Course teachers establish targets for CO attainment, and the data from direct methods are analyzed to compare against these targets. Excel sheets is employed for this analysis, with attainment levels graded as Substantial (3), Moderate (2), or Lower (1).

COs-POs mapping is utilized to calculate PO attainment based on the direct methods.

Indirect methods, such as employer, parent, alumni feedback, and student exit surveys, are also used to assess PO attainment.

In the final calculation, 80% weightage is assigned to direct methods and 20% to indirect methods to determine the final PO and PSO attainment.

This attainment calculation is further scrutinized to identify curriculum gaps for slow learners and to enhance the curriculum for advanced learners.

File Description	Documents
Upload any additional information	View File
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

690

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	View File
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://tkietwarana.ac.in/IOAC/Student-Satisfaction-Survey>

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 developed a comprehensive policy aimed at promoting and nurturing research and consultancy activities among both students and faculty. Students and faculty are encouraged to undertake research and consultancy projects, particularly those addressing industrial or social problems, with appropriate incentives provided to faculty members for engaging in such projects. The institute has also introduced a subject called "Inquisitive Learning" from the first year onwards, aimed at promoting creative thinking and critical analysis skills among students. Necessary resources are provided to students to support their academic projects, ensuring they have the tools needed to succeed. The Chemical department hosts a Ph.D. research center approved by Shivaji University, Kolhapur, and the Mechanical department is in the process of establishing one, highlighting the institute's commitment to advanced research and academic excellence. Additionally, several departments offer postgraduate programs and maintain research laboratories equipped with infrastructure and resources to support student research endeavors. Each department receives annual development funds to upgrade their respective laboratories, ensuring that the infrastructure remains modern and conducive to research activities.

Furthermore, the institute actively submits proposals to various funding agencies to secure research funds and support for laboratory upgrades, demonstrating a proactive approach to resource acquisition.

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	View File

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)

0.32

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	View File

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

5

File Description	Documents
e-copies of the award letters of the teachers	View File
List of teachers and details of their international fellowship(s)	View File
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)

62.95

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

7

File Description	Documents
Upload any additional information	View File
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

23

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

2

File Description	Documents
Supporting document from Funding Agencies	View File
Paste link to funding agencies' website	Nil
Any additional information	View File

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.

The institution has established an environment conducive to fostering innovation and entrepreneurship by setting up the Innovation and Entrepreneurship Development Cell (IEDC) and the Institute Innovation Council (IIC). Additionally, it has devised the National Innovation and Startup Policy (NISP) in alignment with the All India Council for Technical Education (AICTE) and the Government of India's initiatives to promote entrepreneurship, offering technological, research, and industrial connectivity support.

To instill an innovative mindset in students, the institution has introduced Project-Based Learning (PBL) for first-year students. These projects serve as practical solutions to real-world problems, enhancing the learning experience alongside traditional classroom teaching.

In order to equip students with entrepreneurial skills, the institution collaborates with various entities including AICTE, IIC, NISP, ARIIA, Tata Centre IIT Mumbai, Million Mind, and the

Maharashtra Cell for Entrepreneurship Development (MCED). Various sessions such as Entrepreneurship Awareness Camps (EAC), Business Idea Competitions, Expert Sessions, and MIC Driven Sessions are organized to enhance students' entrepreneurial capabilities.

File Description	Documents
Upload any additional information	No File Uploaded
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

30

File Description	Documents
Report of the events	View File
List of workshops/seminars conducted during the year	View File
Any additional information	No File Uploaded

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

D. Any 1 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

6

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	View File

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

29

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

4

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

0

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)

85.48

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	View File
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

0.30

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	View File
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's leadership consistently encourages both students and faculty to engage in social initiatives and uphold ethical principles. These activities encompass a range of endeavors, including tree planting, voluntary labor (Shram-daan) on the college campus, participation in the Maji-Vasundhara Abhiyan Oath, and the solemn observance of the 100th Death Anniversary of Shree Rajashri Shahu Maharaj with a campus-wide moment of silence lasting 100 seconds.

Additionally, the institute actively commemorates significant national events, such as the celebration of Azadi ka Amrut Mahotsav in honor of India's 75th Independence Day anniversary. Faculty and students alike contribute to philanthropic efforts by visiting Warana Matimand Vidyalaya (School for the handicapped) and providing financial support. Flag hoisting ceremonies on Independence Day and Republic Day involve the participation of NSS & NCC students, local government officials, and honored guests.

The institute also hosts events like Eureka and Jidnyasa, which serve as platforms for students from various colleges to showcase and exchange their technical ideas. These initiatives not only foster a spirit of social responsibility but also promote collaboration and innovation within the student community.

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

91

File Description	Documents
Number of awards for extension activities in during the year	View File
e-copy of the award letters	View File
Any additional information	View File

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)

14

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

937

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

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

88

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)

23

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 enough physical space and infrastructure to support its continuous administrative, academic, and co-curricular programs in addition to extracurriculars. With an eye on the future, the Institute carefully and continuously builds the necessary infrastructure, considering its necessity and use to fulfill impending demands. Each of the five major departments has a fully equipped lab, five well-furnished seminar halls, language labs, departmental libraries, and a state-of-the-art auditorium. The institute has excellent IT infrastructure, with over 650 PCs connected to a wired network and a 610 Mbps broadband connection. Over 12 TB of e-learning resources are stored in the data center.

Entire IT and ICT infrastructure management is the responsibility of a specialized SNS department. The institute's campus spans 15 acres and features a variety of leisure facilities, such as a gymnasium, café, bank extension counter area, indoor stadium, and indoor swimming pool. The curriculum and new programs will determine what extra infrastructure is available. Facilities and other infrastructure are widely available. The institution features spacious, pleasant classrooms with ICT facilities, as well as well-equipped lecture halls with audio-visual equipment. Each department is equipped with a range of state-of-the-art labs, including language, communication skills, and central computing facilities.

The institute provides 24-hour Internet access via Wi-Fi, e-learning tools, and a digital library including a substantial amount 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.)

All students are supported and encouraged to participate in sports as an extracurricular activity. It is headed by a dedicated Physical Director who is Post-Graduated in Master in Physical Education. The gymkhana department is in charge of organizing most sports events at the district, university, zone, inter-zonal, and state levels.

The school provides all the resources required to encourage students' interests in cultural activities. The school has established best practises for the administration of cultural events through the establishment of multiple committees comprising members from the faculty and students. The Marathi Sahitya Mandal Committee, the Horizon Committee, the Culture Committee, and the Nature Club are some of these committees.

The Institute provides a well-equipped indoor, open auditorium for all cultural events attended by staff and students. Two yearly cultural events are Traditional Day and Annual Social

Function. Students who were exceptionally talented musicians founded their own ensemble, known as "AKSHSTRA," or student orchestra. Yoga Center: The institute has a yoga and meditation center where various yoga camps are offered. These camps are organized by a number of volunteer academic staff members and students with the assistance of licensed yoga instructors.

File Description	Documents
Geotagged pictures	View File
Upload any additional information	No File Uploaded
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)

142.80

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)

Name of the ILMS software: Techno Aarv (Purna Library

Management Solution Version 2)

Nature of automation (full or partial): Full

Version: 2.0

Year of automation: 2010

Link: <http://10.1.1.7:8180/Library/opacinfo/opac.jsp>

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 58,624 bibliographic records of books and 94 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	http://10.1.1.7:8180/Library/opacinfo/opac.jsp

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)

13.30

File Description	Documents
Audited statements of accounts	View File
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

311

File Description	Documents
Upload details of library usage by teachers and students	View File
Any additional information	View File

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

Yes, the Institute has an IT policy covering all major areas like Wi-Fi, cyber security etc. Which is updated or amended whenever required as per the need of the institute. The Tatyasaheb Kore Institute of Engineering and Technology (TKIET), Warananagar (Autonomous), has a state-of-the-art IT infrastructure. It is conveniently accessible for the purpose of teaching and learning. The institute updates its ICT-enabled

infrastructure on a regular basis. The IT policy of the institute requires that only authorized software be installed, and that regular maintenance be performed.

Hardware infrastructure:

- Computers - 645
- Servers - 10
- Data Centre - 1No
- Storage - 2 Nos (36TB + 72TB)
- Projectors - 49 Nos
- Printer - 45 Nos

Networking infrastructure:

- LAN (1000 nodes)
- Wi-Fi enabled network with 16 access points.
- Active and passive components for networking
- Core Switch
- Firewall Security System, internet applications

Online Services to the Students

- Online application portal
- Online fee payment
- Online mark statement
- Online provisional results

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
2704	645

File Description	Documents
Upload any additional information	View File

4.3.3 - Bandwidth of internet connection in the Institution and the number of students on campus

A. 750 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: Facilities available for e-content development Media Centre Audio-Visual Centre Lecture Capturing System (LCS) Mixing equipments and software for editing

A. All four of the above

File Description	Documents
Upload any additional information	View File
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)

141

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 following policies govern how various physical, academic, and support facilities are used and maintained. Classrooms and laboratories are assigned by Dean Academics Auditorium. Seminar Halls can only be reserved and allocated with the principal's prior consent. Assigned by the different in-charges are HoDs. The department in charge after an incident has to take care of any necessary cleaning and upkeep.

Annual Maintenance Contracts (AMC) are agreements that some departments have with suppliers and enterprises for the maintenance and repair of critical equipment. The main library is furnished with contemporary equipment, such as specialized reading rooms, top-of-the-line PCs with smooth Internet connectivity, and a touchscreen kiosk for information presentation. System and Network Support (SNS) personnel are responsible for the upkeep and management of all IT infrastructure. Repair and maintenance are the responsibility of the leader of the SNS team, the system network administrator, the technicians, and the corresponding lab assistants.

Logs are kept and utility services such as housekeeping, sewage treatment, air conditioning, elevators, and electrical systems are serviced on a regular basis. The dedicated sports department of the institute is led by a seasoned physical director, the physical director's assistant, and departmental coordinators. Peons are in charge of and maintain the sports facilities. Checking the inventory in the labs and classrooms is standard procedure. The lab has undergone routine cleaning operations. Lab assistants are in charge of calibrating, maintaining, and inspecting lab apparatus.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	http://tkietwarana.ac.in/home/Rules-and-Regulations

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	
2247	
File Description	Documents
Upload self-attested letters with the list of students receiving scholarships	View File
Upload any additional information	View File
5.1.2 - Number of students benefitted by scholarships and freeships provided by the institution and non-government agencies during the year	
363	
File Description	Documents
Upload any additional information	View File
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	Nil
Details of capability development and schemes	View File
Any additional information	View File
5.1.4 - Number of students benefitted from guidance/coaching for competitive examinations and career counselling offered by the institution during the year	
1390	

File Description	Documents
Any additional information	View File
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	No File Uploaded
Upload any additional information	View File

5.2 - Student Progression

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

514

File Description	Documents
Self-attested list of students placed	View File
Upload any additional information	View File

5.2.2 - Number of outgoing students progressing to higher education

19

File Description	Documents
Upload supporting data for students/alumni	View File
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

10

File Description	Documents
Upload supporting data for students/alumni	View File
Any additional information	View File

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

112

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

The Student Council, established following the guidelines set forth by the UGC and the university, assumes a multifaceted role within the institute, encompassing administrative, academic, co-curricular, and extra-curricular domains. Operating under the mentorship of a senior faculty member,

council members actively participate in a myriad of activities, including but not limited to serving on Departmental Advisory Boards, Boards of Studies, Departmental Associations, and the Institutional Quality Assurance Cell (IQAC).

Moreover, students take charge of organizing activities within their respective associations, fostering a culture of self-governance and leadership. They also play a pivotal role in representing the institute in inter-college cultural and sports events, facilitated by the Cultural and Sports Secretary.

Beyond the campus confines, students are encouraged to engage in extension and outreach initiatives such as the National Service Scheme (NSS) and Community Services, thereby fulfilling the institute's commitment to social responsibility.

Each committee within the institute, including but not limited to the IQAC, Anti-Ragging and Student Discipline, Library, Gymkhana, Cultural, Grievance Redressal, Hostel and Health Care, Women Empowerment Cell, Sexual Harassment Prevention, Innovation and Entrepreneurship Development Cell (IEDC), and Career Development Cell (CDC), operates under the guidance of dedicated faculty coordinators. These committees serve as vital platforms for student involvement, empowerment, and the holistic advancement of the institution.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	http://tkietwarana.ac.in/management/College-Development-Committee

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

31

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 boasts a duly registered Alumni Association, which spans various major cities including Kolhapur, Ratnagiri, Pune, Mumbai, Delhi, Chennai, Hyderabad, and Bangalore in India, as well as abroad (refer to the attached list detailing Functional Chapters).

Outlined below are the significant activities and contributions orchestrated by the Alumni Association:

1. Chapter Formation: The Alumni Association orchestrates alumni gatherings both centrally and on a chapter-specific basis.

2. Student Training: It facilitates training sessions for current students.

3. Placement Assistance: The Association aids students in securing internships and employment opportunities.

4. Support for Needy Alumni: Assistance is provided to alumni in need.

5. Institutional Development Contributions: Alumni have substantially contributed to the institute's progress by donating books to the library, providing licensed software, facilitating industrial training, extending placement support, and offering scholarships to deserving students.

6. Financial Support during the Academic Year (2022 -2023): A noteworthy sum of ₹15,68,616/- (Rupees Fifteen Lakh Sixty-Eight Thousand Six Hundred Sixteen Rupees only) was allocated for undergraduate student scholarships.

7. Additional Financial Contributions: An aggregate sum of Rs. ₹ 1,17,29,616 /-, inclusive of student scholarships, has been tendered.

This collective endeavour underscores the profound commitment of the Alumni Association towards the advancement of the institution and the holistic development of its student body.

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. This vision is being constantly achieved through activities like implementing quality teaching-learning processes by using ICT 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	View File
Upload any additional information	No File Uploaded
Paste link for additional Information	http://tkietwarana.ac.in/about_tkiet/visi-on-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.

1. Syllabus setting and reframing the syllabus on proper timing to meet industrial and global standards as per guidelines given by AICTE and NEP rules.
2. Teaching learning
3. Mode and conduct of examination
4. Research and Development activities
5. Industry internships
6. Human Resource Management
7. Community engagement
8. E-books and journal services
9. Free book banks for all students
10. Newspaper clipping services
11. Best Reader award schemes
12. Best reviewer award schemes
13. Reference book services
14. Plagiarism checking services
15. Awareness Programs on National and International Entrances Exams
16. INFLIBNET, NDIL,
17. Good Internet Facilities in Libraries and computer Labs

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	View File

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, 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	http://tkietwarana.ac.in/management/Governing%20Body
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	View File
Screen shots of user interfaces	View File
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-teaching staff.
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 examinations.

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	View File
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

14

File Description	Documents
Upload any additional information	View File
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

20

File Description	Documents
Reports of the Human Resource Development Centres (UGC HRDC/ASC or other relevant centres)	View File
Upload any additional information	View File

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.)

112

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	View File

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 tri-monthly 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	http://www.tkietwarana.ac.in/management/Finance%20Committee

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)

17.48

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	View File

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.

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.

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
- Late SrimatiShobha Tai Kore scholarship for meritorious as well as poor students.
- TKIET alumni scholarship for meritorious as well as poor students

File Description	Documents
Upload any additional information	View File
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)

Time to time examination reforms is essential 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, ESE examinations and also complete pre and post examination procedure efficiently.
 - All students have to register for their regular and supplementary examinations through online mode only.
 - Students could download their hall tickets through exam portal online.
 - Students and parents could see their results through online and get notifications also.

1. In today's globalization era, both journal publications and Intellectual Property Rights (IPR) contribute to an institute's growth, reputation, and impact on society. Considering this IQAC has emphasized on drafting Intellectual Property (IP) Policy and Research Policy for the Institute. In new IP Policy following ownership of IPR and Sharing of fees for IPR process are redefined.
 - IP Generated from Research Conducted by Utilizing Resources of TKIET.
 - IP Generated from Research & Development Conducted in Collaboration with External Partner.

Sharing of Costs with Regard to IP Protection.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	http://tkietwarana.ac.in/IQAC/Minutes-of-IQAC-Meetings

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) The IQAC administers student feedback and conducts Academic Audits (AA) for all programs each semester. The results of

these initiatives, along with the actions taken, ensures maintaining of high teaching quality.

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	http://tkietwarana.ac.in/IQAC/Minutes-of-IQAC-Meetings

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	http://tkietwarana.ac.in/IOAC/Minutes-of-IOAC-Meetings
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

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.

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	No File Uploaded

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	No File Uploaded

7.1.5 - Green campus initiatives include

7.1.5.1 - The institutional initiatives for

A. Any 4 or All of the above

greening the campus are as follows:

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	View File
Certification by the auditing agency	View File
Certificates of the awards received	View File
Any other relevant information	No File Uploaded

7.1.7 - The Institution has a disabled-

B. Any 3 of the above

**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, 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, (Mr. & Ms. Parampara Competition), maker sankranti, 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:

In the 1st year 1st semester of engineering, this audit course has MCQ type exam having a maximum of 50 marks. There are 25 MCQ-type questions and each question of 2 marks. Students get the institutional certificate signed by the principal after passing this exam.

By studying this audit course students get the knowledge of democracy. At the same time, they become curious about the constitution of India and aware of socioeconomic responsibilities towards the nation. 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, smart, and 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 Poster Presentation and Rangoli Competition on Occasion of National Voters Day. The objective was to create awareness about voting in grneral election and increase participation of students in election process.

File Description	Documents
Details of activities that inculcate values necessary to transform students into responsible citizens	View File
Any other relevant information	No File Uploaded

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	No File Uploaded

7.1.11 - Institution celebrates / organizes national and international commemorative days, events and festivals
<p>Independence Day-15 August</p> <p>Independence Day commemorates the end of British rule in India in 1947 and the birth of a free and independent country. Every year, TKIET commemorates Independence Day. The Administrative Officer hoists the flag and delivers a speech to the students and staff on the significance of Republic Day.</p> <p>Teachers Day: 05 September</p>

Teacher's Day is recognized to celebrate the difficulties, sacrifices, and unique role that teachers play in our lives. Teachers Day is one such event that both students and teachers anticipate. Teachers Day is organized by students from all departments, who assist faculty members and conduct a few events.

Engineers Day: 15 September

Engineer's Day is commemorated to recognize our country's engineers and to honor their accomplishments in all fields of science and technology. Engineers play a critical role and contribute to a country's economic prosperity and development. InTKIET, students organize various activities on Engineers 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	View File
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

1. Title of the Practice: NCC (National Cadet Corps)

1. Objectives of the Practice:-

The objectives of an NCC (National Cadet Corps) unit at a college typically revolve around fostering holistic development among the cadets, instilling discipline, patriotism, and leadership qualities. Here are three to four common objectives:

1. Leadership Development: NCC aims to groom young cadets into future leaders by providing them with opportunities to take up leadership roles and responsibilities.
2. Character Building and Discipline: One of the primary objectives of NCC is to instill discipline, integrity, and a sense of responsibility among the cadets.
3. Physical Fitness and Adventure Activities: NCC promotes

physical fitness and encourages cadets to participate in outdoor activities like trekking, camping, rock climbing, and sports.

4. Community Service and Social Awareness: NCC emphasizes the importance of serving the community and nation.

File Description	Documents
Best practices in the Institutional website	http://www.tkietwarana.ac.in/upload/naac/Best%20Practices/7.2%20-%20NCC.pdf
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 co-operative 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 41 years old institution has emerged as one of the premier institutions of higher learning in Maharashtra not only has the college continually serves thousands of needy students from the region but also has a long-standing tradition of academic excellence. The college is most sought after by students belonging to all educational demographics.

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 institute has accepted the challenges of autonomous status and devised the system to connect every student with the industries and societal needs. The unique feature of the curriculum in the autonomous system is well stood on four pillars those are 1. Acquiring knowledge than marks. 2. Inculcation of Soft Skills among the students. 3. Exposure to Industrial practices with strong industry connected credits. 4. Audit/Credit mandatory to participate in co curricular and extracurricular activities. With the above, these foundation pillars institute continuously strive for curricular excellence and produce the graduates to suit the needs of the 21st century.

File Description	Documents
Appropriate link in the institutional website	http://tkietwarana.ac.in/IOAC/Institutional-Distinctiveness
Any other relevant information	No File Uploaded

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 in line with National Education Policy (NEP) as per the guidelines from Centre and State government.

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

- To implement National Education Policy (NEP) w.e. f. AY 2023-24
- To submit pro-forma for pre-qualifier for NBA Accreditation of UG programs in Mechanical, Civil, Chemical and E & TC
- To start new UG program in Computer Science and Business System
- To initiate PG program of M. B. A. and M. C. A.
- To establishing start-up and innovation unit at department levels
- Promote a culture of innovation by providing seed grants and resources for faculty and student-led research projects.
- Foster collaborations with L & T EduTech for knowledge exchange, skill development and establish Centre of Excellence in Electric Vehicles
- Engage alumni networks for mentorship, fundraising, academic reforms and advocacy efforts.
- Conducting activities to sharpen the creative skills of students and provide a platform to exhibit their creativity.