



**INSTITUTIONAL ASSESSMENT AND ACCREDITATION
(Effective from July 2017)**

Accreditation - (Cycle - 2)

**PEER TEAM REPORT ON
INSTITUTIONAL ACCREDITATION OF
KOLHAPUR INSTITUTE OF TECHNOLOGY'S COLLEGE OF
ENGINEERING (AUTONOMOUS)
C-10996**

**Kolhapur
Maharashtra
416234**

**NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL
An Autonomous Institution of the University Grants Commission
P.O. Box No. 1075, Nagarbhavi, Bengaluru - 560 072, INDIA**

Section I:GENERAL INFORMATION

1.Name & Address of the institution:	KOLHAPUR INSTITUTE OF TECHNOLOGY'S COLLEGE OF ENGINEERING (AUTONOMOUS) Kolhapur Maharashtra 416234	
2.Year of Establishment	1983	
3.Current Academic Activities at the Institution(Numbers):		
Faculties/Schools:		
Departments/Centres:	10	
Programmes/Course offered:	16	
Permanent Faculty Members:	197	
Permanent Support Staff:	93	
Students:	3840	
4.Three major features in the institutional Context (Asperceived by the Peer Team):	1. Effective e-governance system is in Place along with a Learning Management system across all departments 2. Examination system is completely digitized and transparent mechanism is followed in all aspects of exams. 3. Funding support from Govt and Non-govt bodies to the institute for establishment of LABs and other centre.	
5.Dates of visit of the Peer Team (A detailed visit schedule may be included as Annexure):	From : 24-08-2023 To : 25-08-2023	
6.Composition of Peer Team which undertook the on site visit:		
	Name	Designation & Organisation Name
Chairperson	DR. PROF KOONA RAMJI	Vice Chancellor,Dr B R AMBEDKAR UNIVERSITY SRIKAKULAM
Member Co-ordinator:	DR. AJAY KUMAR BANSAL	Professor,Central University Of Haryana
Member:	DR. RATHINAVELU ARUMUGAM	FormerPrincipal,DR MAHALINGAM COLLEGE OF ENGINEERING AND TECHNOLOGY
NAAC Co - ordinator:	Dr. Neelesh Pandey	

Section II: CRITERION WISE ANALYSIS

Observations (Strengths and/or Weaknesses) on each qualitative metrics of the key Indicator under the respective criterion (This will be a qualitative analysis of descriptive nature aimed at critical analysis presenting strength and weakness of HEI under each criteria)

Criterion1 - Curricular Aspects (Key Indicator and Qualitative Metrics(QIM) in Criterion1)	
1.1	Curriculum Design and Development
1.1.1 QIM	Curricula developed and implemented have relevance to the local, national, regional and global developmental needs which is reflected in Programme outcomes (POs), Programme Specific Outcomes(PSOs) and Course Outcomes(COs) of the Programmes offered by the Institution.
1.2	Academic Flexibility
1.3	Curriculum Enrichment
1.3.1 QIM	Institution integrates crosscutting issues relevant to Professional Ethics ,Gender, Human Values ,Environment and Sustainability into the Curriculum
1.4	Feedback System

Qualitative analysis of Criterion 1

Kholhapur Institute of Technology (KIT) Autonomous college is affiliated to Shivaji University, Kolhapur. It follows the curriculum revision (One in last five years) on its own by following AICTE & affiliated university guidelines and ensures effective delivery of it and also taking into account of all stakeholder's feedback to meet the local/national/regional/global developmental needs. It also reflecting Programme outcomes (POs), Programme Specific Outcomes (PSOs) and Course Outcomes (COs) of the Programmes offered by the Institution. The curriculum is aligned with the PO's and PSO's and updated regularly by the Boards of Studies (BoS) consisting of senior academicians and renowned experts from industry. PEOs and PSOs are clearly delineated to meet objectives of Outcome Based Education (OBE) during curriculum design. The BoS approved syllabus is further proposed for approval from the statutory bodies like Academic Standing Committee and Academic Council respectively for final approval.

For every semester in accordance with the KIT academic schedule, institute does internal assessments for theory and lab courses and external examinations. Each department of the institute have industry advisory panel (IAP) to take care of industry requirements while framing the curriculum and contents of the various programs and their courses. Identified Curriculum gaps implementation is not much visible.

The curriculum has integrated the cross-cutting issues such as Human values and professional ethics, gender equality, environment and sustainability, through number of courses. The Institution gives special emphasis to these issues in the various courses offered across academic units. The curricula provide interdisciplinary interactions in addition to discipline-oriented courses, and value-added courses. The syllabi have strong components of skill development, employability, competence, entrepreneurship, and societal relevance. The institute itself is involved in rain water harvesting, making the campus green by continuous plantation, waste management, using solar energy, pollution free environment like following No Vehicle Day etc.

The college follows curriculum prescribed and integrates various socially relevant cross cutting issues like ethics, human values, environment, etc., across UG and PG programs to sensitize the students. The students of First Year UG undergo Student Induction Program in which cross-cutting issues like Human Values and Professional Ethics are addressed. The institute organizes various awareness programs and activities on cross-cutting issues with the support of external organizations and experts in the NSS activities, Unnat Maharashtra

Abhiyan, blood donation and health awareness camps.

Criterion2 - Teaching-learning and Evaluation (Key Indicator and Qualitative Metrics(QIM) in Criterion2)	
2.1	Student Enrollment and Profile
2.2	Catering to Student Diversity
2.2.1 QIM	The institution assesses the learning levels of the students and organises special Programmes for advanced learners and slow learners
2.3	Teaching- Learning Process
2.3.1 QIM	Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences
2.3.2 QIM	Teachers use ICT enabled tools including online resources for effective teaching and learning process.
2.3.4 QIM	Preparation and adherence of Academic Calendar and Teaching plans by the institution
2.4	Teacher Profile and Quality
2.5	Evaluation Process and Reforms
2.5.3 QIM	IT integration and reforms in the examination procedures and processes including Continuous Internal Assessment (CIA) have brought in considerable improvement in Examination Management System (EMS) of the Institution
2.6	Student Performance and Learning Outcomes
2.6.1 QIM	Programme and course outcomes for all Programmes offered by the institution are stated and displayed on website and communicated to teachers and students.
2.6.2 QIM	Attainment of programme outcomes and course outcomes are evaluated by the institution.
2.7	Student Satisfaction Survey

Qualitative analysis of Criterion 2

The college claims that conventional direct Assessment methods such as internal tests, assignments Viva Voce, presentations/seminars, etc. are used to evaluate the attainment of programme outcomes and the course outcomes. For both internal and external examinations, the evaluation is formative at the department level and summative at the Institute level. The result of the students, placement, Feedback from employers, teachers, students and Alumni about curriculum also helps in identifying the attainment of POs & COs. Student's extracurricular achievements, awards, fellowships, academic progression to higher level of education indicates the attainment of COs. The documentation and awareness among faculty and students is not upto the mark.

The college have policy document for identifying Bright students and weak students. as per document, the students are assigned to mentor and mentor prepare a checklist for each student. First, if Mentor finds 'Yes' for more than 5 behaviours then, Student is considered to be a Weak student and second according to Academic Performance. The college uses conventional methods such as class tests, assignments, tutorials, presentation and Internal exams to assess the learning levels of the students. Accordingly, additional Practical Assignments are given to weak students. Bright Students are encourage to enrol for B.Tech. Honors Degree Encourage to earn professional certifications like NPTEL and Spoken Tutorial. The special program are not effectively utilized to improving the performance level of students upto the satisfaction level.

The faculty of the college are adopting various student centric methods such as participative learning and problem solving methodologies for better learning outcomes. Some of the teachers/units conduct field work and community based extension activities also to create an environment of experiential learning. Also some

faculty evolved various methods to improve the teaching-learning process by using orientation programmes, industrial visits, projects market survey learning and computer based learning etc. Experiential Learning Methods used are Practical experiments, Industrial training and visits, Software training, Assignments, Projects management system “Moodle” is used as an e-learning platform at institute level.

Academic calendar of the Institute is prepared before the start of each academic semester in the academic year. The institute level academic activities such as the exam schedule of ISE, MSE and ESE, and cultural events, technical events are mentioned in the calendar. The Academic calendar is approved by the Academic council. The faculty prepares a 'Course Plan' which gives the number of hours required to complete each unit. The follow up and regular monitoring of the course plan need to be done at the department level.

The internal assessment is a regular feature adopted by the college, and all the teachers conduct various types of tests and activities to assess the performance of the students. In Semester Evaluation (ISE) and Mid Semester Examination (MSE) are the two components of CIA. The process is quite transparent. The grievances of students relating to internal/external examinations are addressed appropriately at all level. The whole examination process was executed through digital platform software called “CONTINEO” (Student Information Management System). The degree programmes with their POs and credits, their courses with content and COs, their continuous Internal Examinations and Final Examinations are all conducted as per the guidelines of NEP, UGC, Shivaji University and the directives of the Department of Higher Education.

COs, POs, PSOs and PEOs are defined for all subjects and displayed on website. The teachers share and discuss the OBE parameters with students in the initial classrooms and the website displays vital information about the academic programmes. The college has defined method (direct and indirect) of assessment for the attainment of COs and POs and its mapping. The awareness of the OBE is not satisfactory among the students and other stakeholders. The teachers are not using and discussing the OBE during the regular classes.

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Criterion3 - Research, Innovations and Extension (Key Indicator and Qualitative Metrics(QIM) in Criterion3)	
3.1	Promotion of Research and Facilities
3.1.1 QIM	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
3.2	Resource Mobilization for Research
3.3	Innovation Ecosystem
3.3.1 QIM	Institution has created an eco system for innovations, creation and transfer of knowledge supported by dedicated centers for research, entrepreneurship, community orientation, Incubation etc.
3.4	Research Publications and Awards
3.5	Consultancy
3.6	Extension Activities
3.6.1 QIM	Extension activities are carried out in the neighbourhood community,-sensitising students to social issues, for their holistic development, and impact thereof during the last five years
3.7	Collaboration

Qualitative analysis of Criterion 3

KIT (Autonomous) mainly focuses on research, development and innovation. The institute has Research and Development Cell and it consist of academicians from reputed institutes and research organizations in India and abroad such as BARC, IITB, COEP with wide research areas of experts in the committee. The Institute encourages active participation of students and faculty in workshops/training programs to get exposed to current problems and to find out solutions for the same. The institute id organizing Periodic meetings with presentations are made related to the R & D initiatives and future plans, Applied different research proposals from funding agencies namely DST, AICTE etc. and also giving Valuable inputs to applicants.

Out of 10 departments in the institution, seven departments have MOU with various professional bodies which are helping the students in providing various internships under different companies, technical talks, and guidance for student field and industry based projects. The three departments of the institution are recognized as research centre by Sivaji University. Institution has received funds from government and non-government agencies . Most of the departments in the Institute have project labs wherein students are exhibiting their ideas and innovations and provide space for execution of their models.

It is usual practice of the institution to allow admissible leave facilities to faculty to attend seminars, workshops and faculty development programs. The staff members of the institution are engaged in the publication of research papers in Scopus, Springer, IEEE, UGC Journals.

The institution motivates the students to take up projects related to social concerns. KIT promoting the students to establish contact with the neighbourhood communities and interact with them to explore the opportunities for social work. The institution has Adopting villages, NSS, NCC units continuously engaged in extension activities to sensitize students on social issues. The institute fosters on extension activities mainly to sensitize the students on the impacts of technology and related holistic developments. Students are participating in activities ranging from planting of trees to blood donation camps to helping the poor and marginalized society, from enacting drama to sensitize the importance of education and Swatch Bharat had been undertaken by students with the guidance of faculty. COVID awareness program is conducted to the neighbourhood communities by the institute and highlights the ill-effects of the water borne diseases.

The institution formulated various R & D policies with incentive scheme to faculty and students for different research verticals such as faculty publications, filing patents, sanction of research & consultancy projects, seed funding for promoting research culture amongst the students and faculties in the institute, Support for higher studies etc.. Also, the policies are formulated to depute the faculty for higher studies.

Central Research facility is created for the benefit of all internal stake holders (Faculty and all UG, PG, Ph.D. students) as well as nearby HEIs in which 3D printers, 3D Scanners, Laser cutting machine, all in one CNC Router, PCB Milling Machine, simulation software, analysis, and advance sensor lab is available. This resulted to get research funding worth of Rs. 8.4 crores, filed 25 patents, produced 47 PhD holders and 2 Post doctorates, 24 faculty members have received funding from Shivaji University, Kolhapur under Research Initiation scheme, set up MAYURA AICTE IDEA lab etc. during last five years. Very few faculty are participating in all the above activities and it is to be encouraged further. More number of Networking and Collaborative activities for research, faculty exchange, student exchange/internship are to be encouraged. Research publications in reputed and high cited journals are to be boosted and Consultancy to be enhanced in most of the departments.

The institution has established an ecosystem in the form of KITE through various cells namely, MAYURA AICTE IDEA Lab which operates 24x7, Incubation centre (Rs.5 Crores received from DST in the year 2020), Institutional Innovation Council (IIC) established in the year 2018-19, IPR Cell, KIT's Incubation for Technology Entrepreneurship (Started in the year 2019) with E-Cell, MSME champion scheme of MoE, GoI with funding Rs.14 Lakhs, Rs.5 Crores received from DST for setting of Technology Incubation Centre in the year 2020), Indian Knowledge System (IKS) for aligned with NEP 2020 etc. for active flow of information and resources for transforming innovative ideas into reality in prototype form and also into entrepreneurial ventures.

With the help of DST supported KIT's Technology Incubation Centre, the institute has established section 8 company with the name of KIT's innovation and Research foundation in the year 2022 and at present incubation centre have 3 Start-ups. IIC-KITE was ranked with 1-Star rating during pandemic and it is increased to 4 in the year 2021 and 2022 for creating an impact through various activities related to innovation, entrepreneurship, IPR and start-up. Institute was also got certificate of Atal Ranking of Institutions on Innovation Achievements (ARIIA 2019).

A miniscule of research project grants have so far been received by the institution and with few percentage of faculty are involved in this activity. Only a few major and minor research project grants from different organizations. The faculty motivation and incentive scheme for publication of research paper and how to submit research project proposals and getting project is available but not being utilised effectively by the most of the faculty of the institution. Despite being close to an industrial and economic hub the consultancy activities/initiatives in the institute are visible only in Civil and Environment Engg. and not visible in other departments. Networking and Collaborative activities are also not much visible on record. The number of research publications by faculty in terms of publications in quality indexed refereed and high cited and listed journals is few. Major thrust in improving the quality research and efforts to publish them in quality journals is needed.

Extension activities related to social, outreach and environmental awareness related activities are conducted by the faculty and students through the created clubs and centres and cells to sensitize and encourage the students to showcase their intellectual and independent thinking skills; imbibe a sense of confidence and managerial capabilities; promote the ability to work in team; build responsiveness about the society and environment.

The institution has NSS unit, National Cadet Corps Unit, Women Development and Gender Equality Cell and other clubs and centres. NSS Cell have adopted five villages for conducting sensitization activities among the residents under MoE, GoI supported scheme of “UNNAT BHARAT ABHIYAN” for contribution to rural development. The NSS unit organized a Residential Camp in the above adopted village and several activities are carried out such as village cleaning, tree plantation, water conservation, social interactions, street plays, environmental awareness. The other activities undertaken are: blood donation, plastic ban, Organised Guest Lectures on various social themes, Flood Relief Campaign, Blood donation camp, vaccination camp, Health check-up camp, Cycle Safari, Interactions with IAS, IPS Officers and Defence Officers, Constitution Day Celebration, Word Association & Quiz competitions etc.

With the existing 1 MAH Artillery Battery Unit of NCC unit organizes various extension activities such as Single Used Plastic Collection Drive, Statue Cleaning, International Yoga Day Celebration, Campus Cleaning Drive, Tree Plantation, Road Safety Awareness Program, Rankala Lake and Panchaganga River Cleaning, Ahimanyu: Quiz Contest, Flyers and Sprinters (Soft Skill Development Programs) and Abhigyan: International Student Conference etc

There is no evidence of Networking/Collaborations with premier institutions/research organizations for access to research facilities by the faculty/researchers of the institute.

DST supported Technology Incubation Centre facility is kept open for school children, ITI, Engineering college students and innovators. Agriculture projects are performed by the students by learning traditional method and implementing advanced processes.

Criterion4 - Infrastructure and Learning Resources (Key Indicator and Qualitative Metrics(QIM) in Criterion4)	
4.1	Physical Facilities
4.1.1 QIM	The Institution has adequate infrastructure and physical facilities for teaching- learning. viz., classrooms, laboratories, computing equipment etc.
4.1.2 QIM	The institution has adequate facilities for cultural activities, yoga, games and sports (indoor & outdoor); (gymnasium, yoga centre, auditorium, etc.,)
4.2	Library as a Learning Resource
4.2.1 QIM	Library is automated using Integrated Library Management System (ILMS)
4.3	IT Infrastructure
4.3.1 QIM	<i>Institution has an IT policy covering wi-fi, cyber security, etc., and allocated budget for updating its IT facilities</i>
4.4	Maintenance of Campus Infrastructure
4.4.2 QIM	There are established systems and procedures for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc.

Qualitative analysis of Criterion 4

KIT has green campus of 28.67 acres. The college has infrastructure and physical facilities to conduct its curricular/co-curricular activities. It is a engineering institution providing education in Engineering, Business Management. There are 15 programmes in the institute and majority of departments have their separate building and equipped labs. Total 55 class rooms and 1 seminar halls equipped with audio-visual systems & LCD projectors/ interactive panels exist. Entire Institute is Wi-Fi enabled with smart classrooms. Online study

materials, e- books, MOOCs, online courses, online journals are available. 67 no. of well-equipped labs are there in the institute. The college is making optimum use of its facilities. However these facilities are not sufficient. Class room in very soothing ambit is required. LCDs, Net, interactive boards, display boards, reprographic facilities and different educational software's are provided to various departments.

The college has sports facilities for Outdoor games with large open playground for football, cricket, volleyball, kho kho, kabbadi, basketball of 4.00 acres. One sports/gymkhana area with approx.150 sq.m for carom/chess and 210 sq.m. for other internal sports like table tennis, pool table etc. Besides, the college also has Recreational facilities, gymnasium, yoga centre, etc. A Large OPENAIR Amphitheatre of 1000+ seating capacity hosts several prestigious events, talk shows etc..

The Central Library is fully automated by using Vidyasagar Library Management Software which is a web-based Integrated Library Management System. Average number of walk in per day is very low. Web OPAC (Online Public Access Catalogue) facility is made available through ILMS to know the bibliographical details about the collection.

The college has managed to provide basic IT facilities for students, teachers and administration with Wi-fi facility for regular usage. With limited IT infrastructure, the college maintains and updates the facilities with ordinary practices in place. Computers and Accessories are maintained by skilled technicians. Internet facility and LAN available. All the software of the college are procured from the original manufacturer. The college does not have IT policy document. The institute is providing budget for the updating of the IT facilities. The College has adequate IT infrastructures with a total of 1 GBPS internet bandwidth but the campus have many areas where Wi-Fi is not available.

The college maintains and utilizes its facilities through various coordinators, departments, offices and units responsible for various segments. The assets are monitored and audited annually through physical stock and infrastructure verification conducted at regular intervals. Routine maintenance is carried out by the regular staff appointed for maintenance and cleaning of the building. The computers and electronic devices are maintained and repaired through the funds available in the institution by prior approval from Dean-ICT.

Criterion5 - Student Support and Progression (Key Indicator and Qualitative Metrics(QIM) in Criterion5)

5.1	Student Support
5.2	Student Progression
5.3	Student Participation and Activities
5.3.2 QIM	Presence of an active Student Council & representation of students on academic & administrative bodies/committees of the institution
5.4	Alumni Engagement
5.4.1 QIM	The Alumni Association / Chapters (registered and functional) contributes significantly to the development of the institution through financial and other support services.

Qualitative analysis of Criterion 5

On an average 64% of students are benefitted by scholarships and freeships provided by the government during last 5 years. Institution must give scholarships to needy students in both genders. Institution organized capacity development and skills enhancement activities to students to enhance soft skills, language and communication skills, life skills and awareness of trends in emerging technologies. Around 1000 students are getting benefitted every year in the recent years. Needs some improvement to monitor and focus on Redressal of student grievances. feedback mechanism and mentor system are in place already.

There is an active alumni association at college - KITAA functioning with proper registration since 2005. alumni meetings are conducted at the institute level through alumni association to plan and execute institute level and department level activities. Alumni contributes to institute for overall development through financial and non-financial means. Mayura AICTE IDEA Lab is very good example by sponsoring amount to establish the LAB in the college.

Criterion6 - Governance, Leadership and Management (Key Indicator and Qualitative Metrics(QIM) in Criterion6)	
6.1	Institutional Vision and Leadership
6.1.1 QIM	The governance of the institution is reflective of an effective leadership in tune with the vision and mission of the Institution
6.1.2 QIM	The effective leadership is reflected in various institutional practices such as decentralization and participative management.
6.2	Strategy Development and Deployment
6.2.1 QIM	The institutional Strategic / Perspective plan is effectively deployed
6.2.2 QIM	The functioning of the institutional bodies is effective and efficient as visible from policies, administrative setup, appointment, service rules and procedures, etc.
6.3	Faculty Empowerment Strategies
6.3.1 QIM	The institution has effective welfare measures for teaching and non-teaching staff and avenues for career development/ progression
6.4	Financial Management and Resource Mobilization
6.4.1 QIM	Institution conducts internal and external financial audits regularly
6.4.3 QIM	Institutional strategies for mobilisation of funds and the optimal utilisation of resources
6.5	Internal Quality Assurance System
6.5.1 QIM	Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing the quality assurance strategies and processes visible in terms of – Incremental improvements made for the preceding five years with regard to quality (in case of first cycle) Incremental improvements made for the preceding five years with regard to quality and post accreditation quality initiatives (second and subsequent cycles)
6.5.2 QIM	The institution reviews its teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals through IQAC set up as per norms and recorded the incremental improvement in various activities (For first cycle - Incremental improvements made for the preceding five years with regard to quality For second and subsequent cycles - Incremental improvements made for the preceding five years with regard to quality and post accreditation quality initiatives)

Qualitative analysis of Criterion 6

The institute offers both UG and PG courses in a diversified field of engineering education. It includes Mechanical, Civil, Environment, Electronics, Telecommunication, Computer science, Biotechnology and

AIML courses. The college leadership is in tune with the vision and mission of the institution. They must plan well for next few years.

The College Development Cell consists of both Teaching and non-Teaching staff to recommend the requirements to administration / management team in various issues related to college development as part of college governance. The active participation of teachers and students in various important committees is not properly reflects that the leadership is quite effective in implementation of policies such as decentralisation and participative management. It is not clear from the report if Strategic plan and Deployment documents are available in the Institute. Decentralization and participative management may be encouraged-like in the areas of Internal Assessment, Civil construction etc. The functions of various bodies, service rules, and recruitment and promotion policies require to be documented. More subcommittees suggested for smooth functioning of administration.

The institute strategic plan is prepared very long back. There is no updating, modification in the strategic plan done during past few years. The institute must develop a strategic plan for effective development in the forthcoming years. The involvement of the stakeholders must be improved during the making of the plan and points must be derived from the stakeholders like faculty, employers, parents , alumni and students.

Various committees are functioning to manage institutional development like Governing council, Academic Council, BOS. Institute has implemented E-governance in administration, Finance and accounts, Student admission and support and examination. Transparency system is to be developed for faculty HR aspects.

Welfare schemes are provided for both teaching and non-teaching staff such as Required furniture, Wi-Fi, Medical leaves, Casual leaves, maternity leaves, study and duty leave etc. Faculty members are to be motivated to attend more workshops / online / physical FDPs each year. Around 20 % of total faculty benefitted in the last 5 years. More number of professional development and administrative training programme is to be attended by teaching and non-teaching staff every year.

Both internal and external audits are done in the proper channel yearly. The Audited Annual Financial Statements are displayed on the Institution's website for all stakeholders.

Around 84 lakhs are received from non-government bodies, individuals, philanthropists during the last five years. But it is not sufficient. institute must plan to develop strategies for mobilisation of funds and the optimal utilisation of resources.

Institute has established an IQAC cell in the year 2014 to look after quality improvement of the institute. Two of major achievements done by IQAC cell are AICTE margadarshan scheme and NBA accreditation of different programs during recent 5 years. There is less participation of the IQAC in the finalization of the policies. The IQAC functioning need to be strengthened. There is no proper faculty appraisal system exists in the college and IQAC have no role in the faculty appraisal system. No faculty documents related to participation, organization, paper publication was exists in the IQAC office. There is some improvement in the quality initiatives of the college.

A separate Dean is appointed to look after their day to day activities. Institute conducts IQAC meetings to manage their accreditation and ranking process. Focus on IQAC functionality is to be improved. The documentation and file system is to be improved. The IQAC is not regularly monitoring the teaching learning process. The faculty recruitment, promotion and appraisal system is not improving.

Criterion7 - Institutional Values and Best Practices (Key Indicator and Qualitative Metrics(QIM) in Criterion7)	
7.1	Institutional Values and Social Responsibilities
7.1.1 QIM	Measures initiated by the Institution for the promotion of gender equity during the last five years.
7.1.3 QIM	Describe the facilities in the Institution for the management of the following types of degradable and non-degradable waste (within 500 words) <ul style="list-style-type: none"> • Solid waste management • Liquid waste management • Biomedical waste management • E-waste management • Waste recycling system • Hazardous chemicals and radioactive waste management
7.1.8 QIM	Describe the Institutional efforts/initiatives in providing an inclusive environment i.e., tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic and other diversities (within 500 words).
7.1.9 QIM	Sensitization of students and employees of the Institution to the constitutional obligations: values, rights, duties and responsibilities of citizens (within 500 words).
7.1.11 QIM	Institution celebrates / organizes national and international commemorative days, events and festivals (within 500 words).
7.2	Best Practices
7.2.1 QIM	Describe two best practices successfully implemented by the Institution as per NAAC format provided in the Manual.
7.3	Institutional Distinctiveness
7.3.1 QIM	Portray the performance of the Institution in one area distinctive to its priority and thrust within 1000 words

Qualitative analysis of Criterion 7

KIT (A) College of engineering aims at providing the right environment to develop quality education for all, irrespective of caste, creed or religion to produce future leaders. Right to Equality is a Fundamental Right that includes the right to equality before law, prohibition of discrimination and equality of opportunities in matters of employment. In this direction, College has constituted committees namely Internal Complaints Committee (ICC) and Women Development and Gender Equity Cell (WDGEC).

The Institute has a zero-tolerance policy towards sexual harassment and gender discrimination. Women warden and staff look after the girl's hostel. To maintain safety and security to the girl students and women employee's CCTVs are deployed across the campus for round-the-clock surveillance. Lady Security guards are available in the hostel 24/7. In order to ensure students' safety and make them more responsible, an out pass system is being practiced for hostel inmates. The Anti-Ragging Committee actively involves guaranteeing that there is no ragging in campus.

The college is providing counselling is to help students reach their full potential by concentrating on their conduct, career planning, academics, and creativity. Through counselling, students are managing their emotions, interpersonal interactions and manage to overcome their weaknesses. In this regard, the institution started counselling and have benefited few number of students till date. The Practice Counsellors provide counselling programs in three domains: academic, career and personal/social. The college also has

various committees like Student Counselling/Grievances Redressal Committee, Internal Complaint Committee to address the issues of students irrespective of gender. The college has MOU for Counselling, Training and Research centre for counselling of students. They provide exclusive counselling sessions for girls by lady counsellor. The student welfare officer also involve herself in addressing grievances of students counselling is to help students reach their full potential by concentrating on their conduct, career planning, academics, and creativity. It also supporting and Providing students to get confidence and positive outlook they need to deal with both professional and personal life difficulties. 2) Inculcating in students a sense of self-respect and imbining values for the ethics in life.

The institute has health monitoring and addressing system via community health centre and by an on-campus doctor. First aid kits are managed as per norms and if necessary, student will be taken to nearby hospitals during emergency. The ground floor of the building has an exclusive women's restroom with two beds for emergency cases. The sanitary napkin vending machines are installed in the rest room for the health and hygiene maintenance for the girls.

Republic Day, Independence Day, Teacher's Day, Engineer's Day, Karnataka Rajyotsava, International Women's Day, National Sadhbhavana Divas and Aakriti and College Day are some of the important National and International commemorative days observed in the campus.

Institute Vision and mission are in line with creating responsible citizens as reflected in the Constitution of India. In order to inculcate the sense of patriotism and to make students understand the values and visions of our forefathers "Constitution of India, Professional ethics and cyber law" is being taught as a core subject in the second year of engineering for students of all the branches.

Student will be able to realize the importance of engineering ethics and responsibilities as engineers in their professional career; identify their individual roles and ethical responsibilities towards society. Student shall learn about the cybercrimes and cyber laws for cyber safety measures.

College celebrates National Festivals i.e. Independence Day, Republic day to promote the pride of being an Indian and awareness about the sacrifices made to achieve this. Student Induction program is conducted at the beginning of the engineering program for all students to make them aware about their responsibilities and contribution to the society as engineers. This program which is scheduled as per the Universal Human Values, familiarizes students with the ethos and culture of the institution, a healthy daily routine is set and a bonding between the students and faculty members are created, students get a holistic vision of Life. Students develop awareness and are sensitized about the social evils. A brief understanding of Universal Human values and its implications is imparted during this induction program.

KIT's college of Engineering has Waste management mechanism and focused on the segregation of waste materials properly in three colored waste bins under Solid Waste Management Rules, 2016, and are kept at different locations on the campus. Green color bins: for biodegradable (solid and liquid) waste Blue color bins: for non-biodegradable waste Red color bins: for domestic hazardous waste. They have waste recycling system.

The institute ensures proper disposal of electronic waste (e-waste) through signed Memorandums of Understanding (MoUs) with recycling firm Mahalaxmi Recyclers. E-waste is generated in high amounts in the institute and it is collection by Mahalaxmi Recyclers from KIT's college of Engineering. Depending on the waste generated, the vendor is called once or twice yearly for collection and disposal. The wastewater generated in the institute's canteen is reused for gardening purposes.

Awareness Campaign is conducted on Reducing and Recycling of Single use Plastic and Objectives of this practice is: 1. To spread awareness about the hazards of plastic. 2. To impart knowledge about the reduction and re-use of plastic. 3. To contribute towards preserving the environment and reduction of plastic pollution.

Biomedical waste is generated during various laboratory experiments and by using “Autoclave” instrument to sterilizing biomedical waste. The sterilized waste is then stored in a secure area till the selected vendor collects it for its final disposal.

KIT’s College of Engineering (Autonomous), Kolhapur is putting efforts to provide an inclusive environment such as tolerance and harmony towards cultural, linguistic, communal, socio-economic, and other diversities like admissions are made as per the guidelines made by the DTE, Government of Maharashtra. After the admissions, dividing all the students equally into various divisions considering their gender, percentile, branch, etc. Such diversity is also addressed at various stages, like in the classroom, during practical sessions, industry visits, projects, workshops, and other departmental student organizations.

During the Annual Social Gathering (MERAKI), the institute promotes an inclusive environment and encourages students from various sections to participate. The Students admitted also through Prime Minister’s Special Scholarship Scheme, EWS and J & K quota. Various committees are in place, such as Anti-Ragging, Equal Opportunity, Grievance Redressal, Students Development, Students with Disabilities etc., to address the diversity of students. In addition to this the institute has faculty as well as students from various parts of the nation such as Maharashtra, Karnataka, Jammu and Kashmir, Rajasthan, Gujrat, Bihar, etc.,

Induction Programme is organized with various sessions on the values, ethics, rights, duties, and responsibilities of a true citizen of the nation. In addition, various sessions are arranged by the departments on professional ethics and mannerism. Involving many students participation in various activities like blood donation camps, covid 19 vaccination camp, campus cleaning drives, passport registration drive, river cleaning drives etc., are also conducted under NSS, NCC, and other student institutional committees and student clubs for this purpose. Human Values and Professional Ethics taught by the internal faculties trained by the AICTE to teach such courses. This course includes various aspects of constitutional obligations such as value based education, understanding happiness, prosperity, system values and sub-values, civic virtues, etc. The awareness, sensitization of the students and employee is not satisfactory visible and institute need to focus on these issues.

The college celebrates the important national days and festivals including regional festivals and anniversary of legendaries personalities. For example International Yoga Day, World environment day, Engineers day, Independence day, Republic day, constitution day, Ganesh Festival, Marathi Language Day, Women’s day, Chhatrapati Shivaji Maharaj Jayanti.

The institute has put two best practices namely 1. KIT’s Incubation for Technology Entrepreneurship (KITE) and 2. Industry Advisory Panel for Curriculum Enrichment. Under KIT’s Incubation for Technology Entrepreneurship (KITE) activity the following activities are visible namely: First-Got funding from MSME, MoE, GoI for an amount 14 lacs as champion scheme under Idea Hackathon 2022 for the short-listed idea. 2. Three start-ups Registered 3. Two startups Received support 4. Institute organized FDPs related to Entrepreneurship/Innovation related courses in academics. 5. Institute has realized the importance of dedicated infrastructure & facilities and, after taking initiatives, applied for the AICTE IDEA Lab proposal and received the sanction of IDEA lab in the 2021. Second-Under the Industry Advisory Panel (IAP), All the departments identified and formed Industry Advisory Panel with elite expert industrial members from various MNCs. Number of brainstorming sessions have been arranged with Industry Advisory Panel to discuss effective

curriculum design, but that impact is not much visible.

Under Institut's distinction, Institute has implemented an Examination Management System with Digital Assessment and Evaluation (EMSDAE). The Examination Cell headed by Dean Exam and Evaluation. The Institute has implemented unique features in its examination process, like the "Question Paper Quality Review System(QPQRS)," "On-screen evaluation of answer sheets," and "Soft Copy Paper Showing Activity for students" to enhance quality, transparency, and digitalization. The examination System measures the students' performance through Continuous Internal Assessment (CIA) and End Semester Examination (ESE). In-semester evaluation is conducted using MOODLE platform (open-source e-learning). Final grades are computed using CIA (out of 50) and ESE (out of 50).

Section III:OVERALL ANALYSISbased on Institutional strengths.Weaknesses,Opportunities & Challenges(SWOC)(up to 500 words)

Overall Analysis

Strength:

1. Decent admission in the recent years and good demand for UG programs.
2. Alumni Supports for admission through their reference.
3. Institute is having 4 decades of existence with legacy.
4. E- Governance with customized ERP system.
5. Govt. recognized incubation center and AICTE idea lab is functioning.
6. Proper internal and external academic audits are conducted regularly.
7. Instiute created a innovative, enterpresunship and incubative environment.
8. Each department have Industry advisory pannel for curriculume enrichment.
9. Carrer guidance, motivating students for competitive exams is well established.

Weaknesses:

1. Communication with students and grievance redressal is not proper.
2. Awareness of OBE concepts among stakeholders is not upto the mark..
3. Industrial visits and internships are not properly conducted.
4. Annual appraisal and promotion policy are not in practice effectively.
5. Lack of technology transfer to industry and commercialization of patents.
6. Gaps in the curriculum is not properly identified.
7. Number of faculties with Ph.D. qualification, retention and cadre ratio is weak.
8. Sports and extra-curricular facilities and activities are very less.
9. Multistrand- multidisciplinary and crossdisciplinarity research as per NEP 2020 is not in place.

Opportunities:

1. To sign MOUs with export companies around Kolhapur for better placement of students.
2. Attract and retain good qualified faculty across all departments.
3. Management must devise attractive welfare schemes to keep faculty members encourage.
4. Alumni networking can be done for academic support and placement activities.
5. Industry – academic relationship can be developed towards collaborations, incubation, internships, industry visits and consultancy activities
6. Resource mobilisation for R & D Innovation with proper networking and collaborations.

7. Roadmap with short term and long term goals is to be developed to achieving the excellence.

Challenges:

1. Locational disadvantage to retain faculty
2. Commitment of management and faculty is important to engage with stakeholders regularly because of locational disadvantage.
3. To develop better research culture in campus.
4. More faculties need to pursue Ph.D. courses.
5. To receive more grants from Govt. agencies.
6. To improve soft skills of students.

Section IV: Recommendations for Quality Enhancement of the Institution

(Please limit to **ten major ones** and use telegraphic language) (It is not necessary to indicate all the ten bullets)

- Proper Appraisal system and well defined promotion policy should be made more effective.
- Library ambiance, utilisation and maintenance can be strengthened and library staff must be training.
- Placement, training and career guidance activities should be made more robust. Effects to be made for improving the placement number and average package.
- Support from alumni & parents can be sought for the overall development of the students and extension activities.
- Effective governance is required to improve the functional of various committee for improving the grievance free campus.
- Soft skills training as well as classes for competitive examinations should be strengthened.
- Language lab should be accessible by the students on demand.
- A good industry – academia relationship may be developed.
- Faculty members can be motivated to receive more research projects, consultancy projects, publication in high impact journals and pursue Ph.Ds.

I have gone through the observations of the Peer Team as mentioned in this report

Signature of the Head of the Institution

Seal of the Institution

Sl.No	Name		Signature with date
1	DR. PROF KOONA RAMJI	Chairperson	
2	DR. AJAY KUMAR BANSAL	Member Co-ordinator	
3	DR. RATHINAVELU ARUMUGAM	Member	
4	Dr. Neelesh Pandey	NAAC Co - ordinator	

Place

Date