YEARLY STATUS REPORT - 2020-2021

Part A	
Data of the Institution	
1.Name of the Institution	K. K. WAGH INSTITUTE OF ENGINEERING EDUCATION AND RESEARCH, NASHIK
• Name of the Head of the institution	Prof. Dr. Keshav N. Nandurkar
• Designation	Principal
• Does the institution function from its own campus?	Yes
• Phone no./Alternate phone no.	02532221302
• Mobile No:	9922325472
• Registered e-mail	kkwieer@kkwagh.edu.in
• Alternate e-mail	knnandurkar@kkwagh.edu.in
• Address	K. K. Wagh Institute of Engineering Education and Research, Hirabai Haridas Vidyanagari, Amrut Dham, Panchavati.
• City/Town	Nashik
• State/UT	Maharashtra
• Pin Code	422003
2.Institutional status	
• Type of Institution	Co-education

• Location	**Urban**
• Financial Status	**Self-financing**
• Name of the Affiliating University	**Savitribai Phule Pune University, Pune**
• Name of the IQAC Coordinator	**Prof. Mrs. Tanuja N. Date**
• Phone No.	**02532221217**
• Alternate phone No.	**02532221318**
• Mobile	**9850832871**
• IQAC e-mail address	**iqac_engg@kkwagh.edu.in**
• Alternate e-mail address	**tndate@kkwagh.edu.in**
3.Website address (Web link of the AQAR (Previous Academic Year)	https://engg.kkwagh.edu.in/iqac_detail/index/190
4.Whether Academic Calendar prepared during the year?	**Yes**
• if yes, whether it is uploaded in the Institutional website Web link:	https://engg.kkwagh.edu.in/academic_calender

5.Accreditation Details

Cycle	Grade	CGPA	Year of Accreditation	Validity from	Validity to
Cycle 1	**A**	**3.03**	**2018**	**26/09/2018**	**25/09/2023**

6.Date of Establishment of IQAC	**10/11/2016**

7.Provide the list of funds by Central / State Government UGC/CSIR/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.,

Institutional/Department /Faculty	Scheme	Funding Agency	Year of award with duration	Amount
KKWIEER / IQAC	AICTE Training and Learning (ATAL) FDP	AICTE	2020	93000
E&TC Engg.	MODROB	AICTE	2019-20, 2 Years	1062353
Computer Engg.	MODROB	AICTE	2019-20, 2 Years	1284706
E&TC Engg.	SPDC	AICTE	2019-20, 3 Years	1664586

8.Whether composition of IQAC as per latest NAAC guidelines	**Yes**
• Upload latest notification of formation of IQAC	<u>View File</u>
9.No. of IQAC meetings held during the year	**02**
• Were the minutes of IQAC meeting(s) and compliance to the decisions have been uploaded on the institutional website?	**Yes**
• If No, please upload the minutes of the meeting(s) and Action Taken Report	No File Uploaded
10.Whether IQAC received funding from any of the funding agency to support its activities during the year?	**Yes**
• If yes, mention the amount	**93000**

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

* Conduction of FDP on Design Thinking under AICTE ATAL funding scheme. * Academic and Administrative Audit * Feedback collection from all Stakeholders and Analysis * Student Satisfaction Survey * Training Programmes for Teaching faculty and Non-teaching staff. *

MKCL LearniCo Implementation for improvement in teaching-learning

12.Plan of action chalked out by the IQAC in 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
Quality Enhancement of teaching learning process	1. Seminar on NAAC Quality Indicator Framework (QIF) by Dr. Amiya Kumar Rath, Advisor (SOR), NAAC on 8th Sept. 2020. 2.MKCL LearniCo Implementation for all classes 3.FDP for Teaching Learning Enhancement -LearniCo Training for Faculty 4..Workshop on Design Thinking, 17,18 &20 July 2020 5. ATAL FDP on Design Thinking 21-25 Sept. 2020 6.Project Quality & Management Workshop (12 & 26 Feb 2021)
Feedback Collection and Analysis	1.EndSem Teacher Feedback for all Courses 2. Student Satisfaction Survey
Application for NBA and Autonomy	1. Mechanical Department has applied for NBA Committee Visit is awaited. 2. Application of Autonomy submitted. Committee Visit is awaited
Academic Administrative Audit (AAA)	Academic Administrative Audit Academic Administrative Audit (AAA) for two semesters for all Engineering departments and support sections.
Participation in Nationwide Ranking Survey	1.Participation in NIRF in Feb. 2021 2. Participation in AICTE-CII Survey 2020 Platinum Level 3. Participation in ATAL ARIIA Ranking of Institutions on Innovation Achievements (Institute ID: ARI-C-41256) (Recognised in the Performer Band)
Planning and Conduction of Certificate / Add-on Programs at Department level	843 students certified in 20 courses
13.Whether the AQAR was placed before statutory body?	Yes

- Name of the statutory body

Name	Date of meeting(s)
Governing body meeting	27/11/2021

14.Whether institutional data submitted to AISHE

Year	Date of Submission
2020-2021	08/01/2022

Extended Profile

1.Programme

1.1 Number of courses offered by the institution across all programs during the year	622

File Description	Documents
Data Template	[View File](#)

2.Student

2.1 Number of students during the year	4342

File Description	Documents
Data Template	[View File](#)

2.2 Number of seats earmarked for reserved category as per GOI/ State Govt. rule during the year	673

File Description	Documents
Data Template	[View File](#)

2.3 Number of outgoing/ final year students during the year	1156

File Description	Documents
Data Template	[View File](#)

3.Academic

3.1	**214**
Number of full time teachers during the year	

File Description	Documents
Data Template	[View File](#)

3.2	**212**
Number of Sanctioned posts during the year	

File Description	Documents
Data Template	[View File](#)

4.Institution

4.1	**48**
Total number of Classrooms and Seminar halls	
4.2	**1773.35721**
Total expenditure excluding salary during the year (INR in lakhs)	
4.3	**1341**
Total number of computers on campus for academic purposes	

Part B

CURRICULAR ASPECTS

1.1 - Curricular Planning and Implementation

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

- **The institute follows the curriculum and academic calendar prescribed by the university and plans for effective implementation.**
- **The course structure and contents of all the programmes are available on the university website.**

- Before the commencement of the semester, courses are allocated to respective teachers based on their specialization, experiences and choice.
- Department wise academic calendar, activity calendar, class time table and laboratory time table is prepared.
- Faculty develops teaching plan / laboratory plan / tutorial plan as per guidelines received from the university.
- Academic Preparation Plan consisting of high quality videos to be shared with students, Multiple choice questions to be asked through LearniCo / Google Forms, Assignments & Question Banks, use of simulation / modeling tools, ideas for mini projects is followed by all teachers.
- The course files are prepared / updated by respective faculty.
- Laboratory manuals / journals are prepared.
- The monthly attendance record is prepared by class coordinator and communicated to every student and their parents.
- The academic activities and progress of students are reviewed by head of the department with the help of class coordinators and corrective measures are discussed with the faculty.
- Continuous assessment of students is made with the help of rubrics developed by each faculty for laboratory course.
- The planning for project and seminar work is done at the beginning of every semester. The students are encouraged to carry out their projects in collaboration with industries.

File Description	Documents
Upload relevant supporting document	[View File](#)
Link for Additional information	Nil

1.1.2 - The institution adheres to the academic calendar including for the conduct of Continuous Internal Evaluation (CIE)

- In view of online conduction of lectures and practicals, course teachers prepared and shared videos/presentations/demonstrations for the content of their respective courses. The online lectures/ practicals are conducted regularly using various platforms.
- For each practical /tutorial course, evaluation criterion is decided and continuous assessment sheet is prepared by respective faculty and the students are made aware of the assessment strategy before the commencement of the course.
- For each practical /tutorial course, continuous assessment of a student is made with the help of rubrics by respective

faculty and registered in continuous assessment sheet during the semester.

- At the end of semester students submit term work in the form of journal / worksheets in ERP/Google Classroom.
- Evaluation criteria for term work based on continuous assessment, timely submission and regular attendance are conveyed to the students before the commencement of the course.
- The attendance record of each student is maintained in theory class and practical sessions and cumulative attendance is conveyed to each student and if required to his/her parents as well.
- Two unit tests are conducted and corrected answer sheets of Unit test are shown to students for further improvement.

- The efforts are taken by mentors and class coordinators to boost the moral of students during Covid pandemic and encourage them to cope up with online teaching-learning and evaluation.
- The overall development of students gets reflected not only in academic performance, but also in their personality and confidence and thereby in campus placements due to acquired knowledge and skills.
- Independent learning of the student is tested while doing seminars, mini - projects, and final year projects and evaluated as per the guidelines provided by the University.

File Description	Documents
Upload relevant supporting documents	[View File](#)
Link for Additional information	Nil

1.1.3 - Teachers of the Institution participate in **A. All of the above**
following activities related to curriculum
development and assessment of the affiliating
University and/are represented on the
following academic bodies during the year.
Academic council/BoS of Affiliating University
Setting of question papers for UG/PG
programs Design and Development of
Curriculum for Add on/ certificate/ Diploma
Courses Assessment /evaluation process of the
affiliating University

File Description	Documents
Details of participation of teachers in various bodies/activities provided as a response to the metric	View File
Any additional information	View File

1.2 - Academic Flexibility

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

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

File Description	Documents
Any additional information	**No File Uploaded**
Minutes of relevant Academic Council/ BOS meetings	**No File Uploaded**
Institutional data in prescribed format (Data Template)	View File

1.2.2 - Number of Add on /Certificate programs offered during the year

1.2.2.1 - How many Add on /Certificate programs are added during the year. Data requirement for year: (As per Data Template)

File Description	Documents
Any additional information	**No File Uploaded**
Brochure or any other document relating to Add on /Certificate programs	View File
List of Add on /Certificate programs (Data Template)	View File

1.2.3 - Number of students enrolled in Certificate/ Add-on programs as against the total number of students during the year

843

1.2.3.1 - Number of students enrolled in subject related Certificate or Add-on programs during

the year

File Description	Documents
Any additional information	[View File](#)
Details of the students enrolled in Subjects related to certificate/Add-on programs	[View File](#)

1.3 - Curriculum Enrichment

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

Environmental Studies-I and II are incorporated in curriculum of first year engineering coursewhich build the concepts and strategies related to sustainable development and variouscomponents of environment.

Environmental Engineering as a course has been offered to create awareness of environmental ethics and protocol to be followed for industrial practices to protect environment and promote sustainable development.

A course on Humanity and Social Science enable students to explore aspects of human society and to develop characteristics that encourage personal fulfillment, meaningful professional life and responsible citizenship.

Audit course on Smart Cities explores dynamic behavior of the urban system by going beyond the physical appearance and by focusing on representations, properties and impact factors. Audit courses like Code of Conduct & Moral Values, Human Values & Professional Ethics recognize and evaluate ethical challenges that students may face in their professional careers and build their decision making skills in such challenging scenarios.

A course on 'Writingand PublishingResearchPaper' emphasizes awareness ofresearchethics and integrity

MBA Courses like Indian Ethos & Business Ethics and Corporate Social Responsibility & Sustainability provide the insights to the students about legislative provisions, environmental aspects, best practices, complexity, scope, social framework etc. related to CSR, business ethics & sustainability development.

The institute has Women Grievance Cell and Grievance Redressal Cell to provide counseling to students, promote gender equity among students and also deal with related issues of safety and security of female students, staff and faculty.

File Description	Documents
Any additional information	**No File Uploaded**
Upload the list and description of courses which address the Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum	View File

1.3.2 - Number of courses that include experiential learning through project work/field work/internship during the year

48

File Description	Documents
Any additional information	**No File Uploaded**
Programme / Curriculum/ Syllabus of the courses	View File
Minutes of the Boards of Studies/ Academic Council meetings with approvals for these courses	**No File Uploaded**
MoU's with relevant organizations for these courses, if any	**No File Uploaded**
Number of courses that include experiential learning through project work/field work/internship (Data Template)	View File

1.3.3 - Number of students undertaking project work/field work/ internships

3525

File Description	Documents
Any additional information	**No File Uploaded**
List of programmes and number of students undertaking project work/field work/ /internships (Data Template)	View File

1.4 - Feedback System

1.4.1 - Institution obtains feedback on the syllabus and its transaction at the institution from the following stakeholders Students Teachers Employers Alumni

A. All of the above

File Description	Documents
URL for stakeholder feedback report	**No File Uploaded**
Action taken report of the Institution on feedback report as stated in the minutes of the Governing Council, Syndicate, Board of Management (Upload)	**No File Uploaded**
Any additional information(Upload)	**No File Uploaded**

1.4.2 - Feedback process of the Institution may be classified as follows

A. Feedback collected, analyzed and action taken and feedback available on website

File Description	Documents
Upload any additional information	**No File Uploaded**
URL for feedback report	https://engg.kkwagh.edu.in/a_y_2020_21/index

TEACHING-LEARNING AND EVALUATION

2.1 - Student Enrollment and Profile

2.1.1 - Enrolment Number Number of students admitted during the year

2.1.1.1 - Number of sanctioned seats during the year

1074

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

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

2.1.2.1 - Number of actual students admitted from the reserved categories during the year

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

2.2 - Catering to Student Diversity

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

In order to understand special learning needs of the students, an initial assessment of their learning levels was carried out with the help of a Profiling (Psychometric) Test for the first year students of 2019-20. The scores of students in different categories of the test like Logical Reasoning, Numerical ability, Linguistic ability helped to identify advanced and slow learners in general. However to identify advanced learners with finer characteristics, the profiling test was redesigned in 2020-21. Based on the scores obtained in the profiling test, appropriate thresholds were decided to identity the advanced and slow learners. Special programs were designed and implemented at department level. Mechanism is established to track the performance of advanced and slow learners by respective departments

Additionally, advanced and slow learners in individual subjects are identified by subject teachers with the help of LearniCo scores and necessary corrective measures are taken.

48 Remedial online lectures were conducted for all FE divisions in Engg. Mechanics course by Prof. Milind Murugkar, Challenging Assignments/Gate Questions are shared with advanced learners.

Scholarships are awarded to top three meritorious students from each class. Apart from regular library facility, additional two books are provided to meritoriousstudents.

File Description	Documents
Link for additional Information	**Nil**
Upload any additional information	[View File](#)

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

Number of Students	Number of Teachers
Nil	**Nil**

File Description	Documents
Any additional information	**No File Uploaded**

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

Participative Learning – In an attempt to enable students to understand concepts thoroughly, the classroom environment is made conducive for mutual interactions between students and teachers. Learning in classrooms improves significantly if there are meaningful interactions between inquisitive learners and experienced teachers. Such meaningful interactions are systematically introduced during teaching with the help of ICT tools and innovative teaching methodologies. To allow students to participate and answer even during online lectures, the Audience Response System, named MKCL LearniCo was adopted. It is used for teaching of all subjects in all classes. Experiential Learning – Opportunities are provided through the use of Simulation Tools and Internships. Modeling and simulation tools such as Ansys & Creo, Aspen Plus, Bison, CIM Design, Cisco packet tracer, D3.js, ETAP, Excel, Flexsim, Geogebra, Hysis V 8.8, Keil micro vision, MATLAB, Minitab, MyCompiler Assembler, PHA ISOGRAPH Software, PLC virtual lab, Proteus, Pythontutor, R online simulator, Scikit learn, Star UML, Testing tool Selenium, JUnit, Tinker Cad, ThingSpeak IoT Cloud, UniSim Design, AutoCAD, DWSIM are used.

Problem Solving Methodologies –Opportunities for Problem solving are

provided in Tutorial classes of different courses, Project Based Learning in FE, SE and TE classes, Final Year Projects and Additional Challenging Problems/Assignments.

File Description	Documents
Upload any additional information	**No File Uploaded**
Link for additional information	**Nil**

2.3.2 - Teachers use ICT enabled tools for effective teaching-learning process. Write description in maximum of 200 words

Teachers have used various ICT enabled tools for effective teaching-learning process such as -

- **Use of Online Platforms for Lecture Conduction - No. of Online lectures conducted – 27100, No. of Videos prepared by teachers -3175, No. of Youtube Video Links shared - 8191**
- **Use of ERP/Google Classroom etc. for Assignment submissions - No. of Assignments in ERP/ Google Classroom -2886**
- **Use of ICT tools like LearniCo/ Polls etc. in teaching-learning - No. of LearniCo sessions conducted -2193**
- **Use of ICT tools for Formative and Summative Assessment**
- **Use of Simulation tools - Modeling and simulation tools such as Ansys & Creo, Aspen Plus, Bison, CIM Design, Cisco packet tracer, D3.js, ETAP, Excel, Flexsim, Geogebra, Hysis V 8.8, Keil micro vision, MATLAB, Minitab, MyCompiler Assembler, PHA ISOGRAPH Software, PLC virtual lab, Proteus, Pythontutor, R online simulator, Scikit learn, Star UML, Testing tool Selenium, JUnit, Tinker Cad, ThingSpeak IoT Cloud, UniSim Design, AutoCAD, DWSIM are used.**

File Description	Documents
Upload any additional information	**No File Uploaded**
Provide link for webpage describing the ICT enabled tools for effective teaching-learning process	**Nil**

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

2.3.3.1 - Number of mentors

214

File Description	Documents
Upload, number of students enrolled and full time teachers on roll.	**No File Uploaded**
Circulars pertaining to assigning mentors to mentees	**No File Uploaded**
mentor/mentee ratio	**No File Uploaded**

2.4 - Teacher Profile and Quality

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

214

File Description	Documents
Full time teachers and sanctioned posts for year (Data Template)	[View File](#)
Any additional information	**No File Uploaded**
List of the faculty members authenticated by the Head of HEI	**No File Uploaded**

2.4.2 - Number of full time teachers with Ph. D. / D.M. / M.Ch. /D.N.B Superspeciality / D.Sc. / D.Litt. during the year (consider only highest degree for count)

2.4.2.1 - Number of full time teachers with Ph. D. / D.M. / M.Ch. /D.N.C Superspeciality / D.Sc. / D.Litt. during the year

File Description	Documents
Any additional information	**No File Uploaded**
List of number of full time teachers with Ph. D. / D.M. / M.Ch./ D.N.B Super specialty / D.Sc. / D.Litt. and number of full time teachers for year(Data Template)	[View File](#)

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

2.4.3.1 - Total experience of full-time teachers

2591

File Description	Documents
Any additional information	**No File Uploaded**
List of Teachers including their PAN, designation, dept. and experience details(Data Template)	[View File](#)

2.5 - Evaluation Process and Reforms

2.5.1 - Mechanism of internal assessment is transparent and robust in terms of frequency and mode. Write description within 200 words.

- **Evaluation criteria for term work based on continuous assessment, timely submission and regular attendance are conveyed to the students before the commencement of the course.**
- **The attendance record of each student is maintained in theory class and practical sessions and cumulative attendance is conveyed to each student and if required to his/her parents as well.**

- **Independent learning of the student is tested while doing seminars, mini - projects, and final year projects and evaluated as per the guidelines provided by the University.**
- **Two Unit tests are conducted in each semester for all the theory courses.**

File Description	Documents
Any additional information	**No File Uploaded**
Link for additional information	**Nil**

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

- **Students are made aware of Continuous assessment scheme for lab work, project work and seminars as per the evaluation criteria. Term work marks are displayed on notice board. Any discrepancy in continuous assessment is resolved at department level, within two days.**
- **Corrected answer sheets of Unit test are shown to students within one week from end of internal exams. The points raised by students related to marking scheme are resolved immediately**

and corrected results are displayed, if necessary.

File Description	Documents
Any additional information	**No File Uploaded**
Link for additional information	**Nil**

2.6 - Student Performance and Learning Outcomes

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

The institute follows the guidelines provided by AICTE, New Delhi for institutes affiliated to university. As per these guidelines, each department follows the twelve Programme Outcomes (POs).

In addition to POs, Programme Specific Outcomes (PSOs) are defined as per the need of the programme. Each department defines its own Programme Educational Objectives (PEOs) and Course Outcomes (COs). COs are defined as per syllabus using Blooms Taxonomy and mapped with POs and PSOs according to correlation level.

Course Outcomes are defined by Course coordinator/teacher and finalized by module coordinator, program coordinator, and head of department. The course coordinator/teacher discusses the course outcomes in the classroom as well as in the laboratory at the beginning of the course. POs and COs are displayed on notice boards in every laboratory and also printed in continuous assessment record for laboratory assignments, project work and printed journals. POs are also available on Institute website.

File Description	Documents
Upload any additional information	**No File Uploaded**
Paste link for Additional information	https://engg.kkwagh.edu.in/iqac_detail/index/191
Upload COs for all courses (exemplars from Glossary)	**No File Uploaded**

2.6.2 - Attainment of Programme outcomes and course outcomes are evaluated by the institution.

POs are attained through the attainment of COs. CO attainment is calculated at the end of each course using direct method. The results of University examination contribute to direct method of

attainment.

PO and PSO attainment is calculated at the end of programme as per the CO-PO mapping and correlation level. Programme exit survey contributes to indirect attainment of PO and PSO. PEOs are attained through the attainment of POs and PSOs.

The Summary of attainment of COs for each course along with its mapping with POs, is recorded in a document named Course Information Sheet (CIS).

To ensure attainment of graduate attributes, each department monitors and reviews teaching learning process periodically. Effective mechanisms are employed for curriculum implementation using modern tools and technology along with traditional classroom teaching. Teachers' feedback is collected for each course from the students and analyzed for further corrective measures, if any.

To bridge the curriculum gaps, topics beyond syllabus are included in teaching plan, expert talks are arranged, various seminars, workshops, symposiums, conferences and industrial visits are organized. To enhance the employability, various training and placement activities are carried out on regular basis.

File Description	Documents
Upload any additional information	[View File](#)
Paste link for Additional information	Nil

2.6.3 - Pass percentage of Students during the year

2.6.3.1 - Total number of final year students who passed the university examination during the year

File Description	Documents
Upload list of Programmes and number of students passed and appeared in the final year examination (Data Template)	View File
Upload any additional information	**No File Uploaded**
Paste link for the annual report	**Nil**

2.7 - Student Satisfaction Survey

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

https://engg.kkwagh.edu.in/a_y_2020_21/index

RESEARCH, INNOVATIONS AND EXTENSION

3.1 - Resource Mobilization for Research

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

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

2542996

File Description	Documents
Any additional information	**No File Uploaded**
e-copies of the grant award letters for sponsored research projects /endowments	**No File Uploaded**
List of endowments / projects with details of grants(Data Template)	View File

3.1.2 - Number of departments having Research projects funded by government and non government agencies during the year

3.1.2.1 - Number of departments having Research projects funded by government and non-government agencies during the year

File Description	Documents
List of research projects and funding details (Data Template)	View File
Any additional information	No File Uploaded
Supporting document from Funding Agency	View File
Paste link to funding agency website	Nil

3.1.3 - Number of Seminars/conferences/workshops conducted by the institution during the year

3.1.3.1 - Total number of Seminars/conferences/workshops conducted by the institution during the year

16

File Description	Documents
Report of the event	No File Uploaded
Any additional information	No File Uploaded
List of workshops/seminars during last 5 years (Data Template)	View File

3.2 - Research Publications and Awards

3.2.1 - Number of papers published per teacher in the Journals notified on UGC website during the year

3.2.1.1 - Number of research papers in the Journals notified on UGC website during the year

26

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

3.2.2 - Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during the year

3.2.2.1 - Total number of books and chapters in edited volumes/books published and papers in national/ international conference proceedings during the year

23

File Description	Documents
Any additional information	**No File Uploaded**
List books and chapters edited volumes/ books published (Data Template)	[View File](#)

3.3 - Extension Activities

3.3.1 - Extension activities are carried out in the neighborhood community, sensitizing students to social issues, for their holistic development, and impact thereof during the year

- **The institute has National Service Scheme (NSS) Unit of 250 capacity affiliated to SPPU. The institute appoints two Programme Officers (one male and one female) along with Assistant Programme Officers from each department. Students are enrolled as per the guidelines provided by SPPU.**
- **NSS organizes two types of activities, regular activities at institute level and special camp of seven days at nearby villages. Regular activities include blood donation camps, tree plantation, health check-up camps, road safety and social awareness programmes. The renowned social workers and activists guide the students in the camp. The special camp in villages, help students to understand the rural life, problems of villagers and to provide probable engineering solutions.**
- **NSS volunteers are encouraged to participate in inter collegiate, state level and national level activities.**

The institute is associated with two NGOs 'PRAYAS' and 'SWAPNAPURTI' formed by students. The institute appoints staff co-ordinator for smooth functioning of activities. Student volunteers are involved in computer literacy and IT awareness programmes in the schools at nearby villages. The activities of NGOs help in building awareness of social problems. Leadership qualities and team spirit is also developed among the volunteers. While exploring the new technologies to the students in rural areas, their sense of belongingness increases.

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

3.3.2 - Number of awards and recognitions received for extension activities from government / government recognized bodies during the year

3.3.2.1 - Total number of awards and recognition received for extension activities from Government/ government recognized bodies during the year

1

File Description	Documents
Any additional information	No File Uploaded
Number of awards for extension activities in last 5 year(Data Template)	View File
e-copy of the award letters	No File Uploaded

3.3.3 - Number of extension and outreach programs conducted by the institution through NSS/NCC/Red cross/YRC etc., (including the programmes such as Swachh Bharat, AIDS awareness, Gender issues etc. and/or those organized in collaboration with industry, community and NGOs) during the year

3.3.3.1 - Number of extension and outreach Programs conducted in collaboration with industry, community and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., during the year

13

File Description	Documents
Reports of the event organized	No File Uploaded
Any additional information	No File Uploaded
Number of extension and outreach Programmes conducted with industry, community etc for the last year (Data Template)	View File

3.3.4 - Number of students participating in extension activities at 3.3.3. above during the year

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

File Description	Documents
Report of the event	**No File Uploaded**
Any additional information	**No File Uploaded**
Number of students participating in extension activities with Govt. or NGO etc (Data Template)	[View File](#)

3.4 - Collaboration

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

47

File Description	Documents
e-copies of linkage related Document	**No File Uploaded**
Details of linkages with institutions/industries for internship (Data Template)	[View File](#)
Any additional information	**No File Uploaded**

3.4.2 - Number of functional MoUs with national and international institutions, universities, industries, corporate houses etc. during the year

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

4

File Description	Documents
e-Copies of the MoUs with institution./ industry/corporate houses	[View File](#)
Any additional information	**No File Uploaded**
Details of functional MoUs with institutions of national, international importance, other universities etc during the year	[View File](#)

INFRASTRUCTURE AND LEARNING RESOURCES

4.1 - Physical Facilities

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

- Well equipped laboratories, state of art library, well ventilated ICT enabled classrooms, tutorial rooms, seminar halls and faculty rooms are available.
- Additional facilities are created to fulfill the requirements whenever needed.
- The library has well demarcated space for book stacking, processing section, circulation section, book bank, reading room, periodical section, reference section, e-library, audiovisual section and offices for librarian and staff.
- The institute has developed fully dedicated infrastructure, Dr. A P J Abdul Kalam Career Development Centre, for conducting training and placement activities comprising of two computer labs, group discussion and interview rooms and also Video Conferencing facility.
- The institute has 'Construction and Maintenance' unit to look after the development, enhancement and maintenance of campus infrastructure.
- 1341 Computers, 3 servers for ERP facility and 5 servers at department level are available alongwith adequate number of peripherals and UPS backup.

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

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

- The institute provides excellent sports facilities. A playground with area 20,000sq.m. is developed in the campus for playing outdoor games such as cricket, football, hockey etc. A six lane athletic track, two volley ball courts, one basketball court and two lawn tennis courts are also available. Similarly, the institute also has the facility for indoor games such as chess, carom and table tennis. Yoga room is available in gymnasium.
- The gymnasium is equipped with all modern equipments for body building and fitness. Some of major equipments available in the gymnasium are motorized jogger, eight station multi gym, hip abductor, cable cross machine, power cage, Olympic

standard weight lifting set, bench press etc. The facility of steam and sauna bath is also available in the gymnasium. Green Gym is also available.

- During annual social gathering, various cultural activities and competitions are held at institute level. It includes singing, dance, drama, one act play, fashion show etc. Competitions like art, paintings, rangoli, photography etc. are arranged.
- For public speaking and communication, each department has a seminar hall with seating capacity 150 and facilities like PA system, dias, podium, LCD projector screen, television set etc.
- The institute has Karmaveer Dispensary in the campus. Ambulance service is also made available by the Institute.
- Sanitary napkin vending and disposal machine is available in ladies common room and washrooms.

File Description	Documents
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 such as smart class, LMS, etc.

48

4.1.3.1 - Number of classrooms and seminar halls with ICT facilities

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	Nil
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	View File

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

4.1.4.1 - Expenditure for infrastructure augmentation, excluding salary during the year (INR in lakhs)

File Description	Documents
Upload any additional information	**No File Uploaded**
Upload audited utilization statements	**No File Uploaded**
Upload Details of budget allocation, excluding salary during the year (Data Template)	[View File](#)

4.2 - Library as a Learning Resource

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

- **Name of ILMS software – KOHA**

- **Nature of automation (fully or partially) - Fully**

- **Version – 19.05.00.000**

- **Year of Automation - 2020**

- **Name of ILMS software –Librarian Software (LIBSUITE)**

- **Nature of automation (fully or partially) - Fully**

- **Version – VER.5.6**

- **Year of Automation - 2000**

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

4.2.2 - The institution has subscription for the following e-resources e-journals e-ShodhSindhu Shodhganga Membership e-books Databases Remote access toe-resources

A. Any 4 or more of the above

File Description	Documents
Upload any additional information	**No File Uploaded**
Details of subscriptions like e-journals,e-ShodhSindhu, Shodhganga Membership etc (Data Template)	View File

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

4.2.3.1 - Annual expenditure of purchase of books/e-books and subscription to journals/e-journals during the year (INR in Lakhs)

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

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

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

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

4.3 - IT Infrastructure

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

- **1341 Computers with Internet facility are available in different laboratories of the departments**
- **LAN facility is available everywhere in the campus including all hostels.**
- **WiFi facility is provided using 13 indoor access points with**

data rate over 300 Mbps and 10 outdoor Enterprise class access points with data rate over 300 Mbps and over 3 km of range. WiFi facility is also available in the campus for all the students and staff..
- **ERP facility is provided to all staff and students.**
- **The institute has provided BSNL 300 Mbps lease line. Upgraded Firewall to Latest Sophos & Layer 2 Switches added for better performance.**

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

4.3.2 - Number of Computers

1341

File Description	Documents
Upload any additional information	**No File Uploaded**
Student – computer ratio	**No File Uploaded**

4.3.3 - Bandwidth of internet connection in the Institution   **A. ? 50MBPS**

File Description	Documents
Upload any additional Information	**No File Uploaded**
Details of available bandwidth of internet connection in the Institution	**No File Uploaded**

4.4 - Maintenance of Campus Infrastructure

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

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

File Description	Documents
Upload any additional information	**No File Uploaded**
Audited statements of accounts.	**No File Uploaded**
Details about assigned budget and expenditure on physical facilities and academic support facilities (Data Templates)	[View File](#)

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

- **'Construction and Maintenance' unit of K. K. Wagh Education Society takes care of maintenance of all buildings in the campus which includes civil work modifications, building repairing, road repairing, plumbing, colouring etc. This unit prepares estimate of the proposed work and obtains approval from management. Small repairing and maintenance works are carried in-house; whereas, for the execution of major works contractors are appointed.**

- **'Construction and Maintenance' unit also monitors housekeeping and cleaning of water tanks and sanitary blocks. An external agency is appointed for cleaning of all water tanks of the campus on contractual basis.**

- **'Furniture and Maintenance' unit of K. K. Wagh Education Society fulfills the requirement regarding fabrication and maintenance of furniture in the institute.**

- **'Gardening' unit of K. K. Wagh Education Society maintains the campus green and nature friendly. The plants and lawns are irrigated through well designed sprinkler system.**

- **The maintenance of all the electrical works in the campus is taken care by maintenance wing of department of electrical engineering.**

- **The maintenance and repairing of the equipments is done by the respective departments with the help of technical assistants and services of external agencies are also hired for major and critical troubleshooting.**

- **Each department of the institute carries out the maintenance and calibration of the equipments and measuring instruments periodically.**

- **Silent Diesel Generator sets of capacity 320KVA is provided for 100% power backup during interruption.**

- **Adequate numbers of UPS are installed in each department to**

ensure uninterrupted power supply for all computers and electronic equipments.

- To store and supply water, eleven underground water tanks (total capacity 3,32,000 liters) and 17 elevated water tanks (total capacity 3,74,000 liters) are in use in the campus. Eleven pumps are installed to pump the water from underground water tanks to elevated water tanks.
- Water coolers and Water purifiers are installed in all departments of the institute for safe drinking water, the maintenance of which is carried out periodically.

- The fire safety system is installed according to IS 14435:1997.
- Fire Hydrant systems and alarm systems are in service since 27/05/2013.
- Weblink for Maintenance Policy - https://engg.kkwagh.edu.in/institute_policy

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

STUDENT SUPPORT AND PROGRESSION

5.1 - Student Support

5.1.1 - Number of students benefited by scholarships and free ships provided by the Government during the year

5.1.1.1 - Number of students benefited by scholarships and free ships provided by the Government during the year

2871

File Description	Documents
Upload self attested letter with the list of students sanctioned scholarship	**No File Uploaded**
Upload any additional information	**No File Uploaded**
Number of students benefited by scholarships and free ships provided by the Government during the year (Data Template)	View File

5.1.2 - Number of students benefitted by scholarships, free ships etc. provided by the institution / non- government agencies during the year

5.1.2.1 - Total number of students benefited by scholarships, free ships, etc provided by the institution / non- government agencies during the year

209

File Description	Documents
Upload any additional information	**No File Uploaded**
Number of students benefited by scholarships and free ships institution / non- government agencies in last 5 years (Date Template)	View File

5.1.3 - Capacity building and skills enhancement initiatives taken by the institution include the following: Soft skills Language and communication skills Life skills (Yoga, physical fitness, health and hygiene) ICT/computing skills	**A. All of the above**

File Description	Documents
Link to institutional website	**Nil**
Any additional information	**No File Uploaded**
Details of capability building and skills enhancement initiatives (Data Template)	View File

5.1.4 - Number of students benefitted by guidance for competitive examinations and career counseling offered by the institution during the year

603

5.1.4.1 - Number of students benefitted by guidance for competitive examinations and career counseling offered by the institution during the year

603

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 has a transparent mechanism for timely redressal of student grievances including sexual harassment and ragging cases Implementation of guidelines of statutory/regulatory bodies Organization wide awareness and undertakings on policies with zero tolerance Mechanisms for submission of online/offline students' grievances Timely redressal of the grievances through appropriate committees

A. All of the above

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

5.2 - Student Progression

5.2.1 - Number of placement of outgoing students during the year

5.2.1.1 - Number of outgoing students placed during the year

535

File Description	Documents
Self-attested list of students placed	[View File](#)
Upload any additional information	**No File Uploaded**

5.2.2 - Number of students progressing to higher education during the year

5.2.2.1 - Number of outgoing student progression to higher education

21

File Description	Documents
Upload supporting data for student/alumni	[View File](#)
Any additional information	**No File Uploaded**
Details of student progression to higher education	[View File](#)

5.2.3 - Number of students qualifying in state/national/ international level examinations during the year (eg: JAM/CLAT/GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/State government examinations)

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

47

File Description	Documents
Upload supporting data for the same	[View File](#)
Any additional information	**No File Uploaded**

5.3 - Student Participation and Activities

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

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

0

File Description	Documents
e-copies of award letters and certificates	No File Uploaded
Any additional information	No File Uploaded
Number of awards/medals for outstanding performance in sports/cultural activities at university/state/national/international level (During the year) (Data Template)	[View File](#)

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

The institute has student representatives in many of the academic and administrative bodies for effective functioning which are listed below:-

- Anti Ragging Committee
- Internal Complaint Committee for Women
- Training and Placement
- Student Council
- National Service Scheme (NSS)
- Cultural/Sports Committee
- ISTE, SAE, IET, ISHRAE, CSI & ACM Students' Chapter
- Ganesh Festival Committee
- Students associations of each department
- College Development Council
- Internal Quality Assurance Cell (IQAC)
- IoT Club, Astro Club, RedX Club, Environmental Club, White Spot Club, Financial Literacy Club, Automobile Vehicle Club, Study abroad Club, EDC Club, Book Club, Art Club, Film Club, English Language Club, Sports Club.

Each department has active student association which organizes various activities for development of students. The students' associations of various departments are -

- Association of Chemical Engineering Students (ACES)
- Civil Engineering Students' Association (CESA)
- Debuggers Club
- EFFECT

- Student Association of Electronics Engineering (SAEE)
- ITERON Club
- Mechanical Engineering Students' Association (MESA), KK Motor Sports Club
- Production Engineering Students' Association (PESA)
- ABACUS Club
- Management Studies Students' Association (MSSA)
  - First Year Engineering Students' Association (FESA)

Every year, a Student Council is constituted as per the notification issued by the university, under the provisions of section 40 (2) (b) of the Maharashtra Universities Act, 1994 and comprising of following members:

- Principal
- One teaching faculty member nominated by the Principal
- National Service Scheme Program Officer
- One student from each class, who has shown academic merit at the examination held in the preceding year and who is engaged in fulltime studies in the college, nominated by the Principal.
- Director of Sports and Physical Education
- One student member from each of the following fields, who has shown outstanding performance, nominated by the Principal,

  - Sports
  - National Service Scheme (NSS)
  - Cultural activities

Two lady student members nominated by the Principal

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

5.3.3 - Number of sports and cultural events/competitions in which students of the Institution participated during the year (organized by the institution/other institutions)

5.3.3.1 - Number of sports and cultural events/competitions in which students of the Institution participated during the year

2

File Description	Documents
Report of the event	**No File Uploaded**
Upload any additional information	**No File Uploaded**
Number of sports and cultural events/competitions in which students of the Institution participated during the year (organized by the institution/other institutions (Data Template)	View File

5.4 - Alumni Engagement

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

Yes, the institute has a registered Alumni association (Registration No.: Maharashtra/7828/2003/Nashik Dated: 17/1/2003).

Alumni association of K. K. Wagh College of Engineering, Nashik is registered under the Societies registration act 1860 (29) with effect from 17/1/2003 having registration number Maharashtra/7828/2003/Nashik. The main objectives of alumni association includes promoting and fostering mutually beneficial interaction between thealumni and the present students of Institute and also between the alumnithemselves, encouraging them totake an active part in the work and progress of theInstitute and also to generate funds for students and alumni welfare. The alumni association of K. K. Wagh College of Engineering, Nashik is actively engaged in organizing annual alumni meet, special focus alumni meets, opening new chapters and promoting alumni-faculty interaction through enhancing alumni participation in various events organized by institute/departments, seminars, expert talks etc. During years 2015-2021, the alumni association had organized eleven alumni meets. To increase alumni participation in day to day activities of alumni association, a new governing body is also elected. Online registration facility is made available on the Institute website. The institute effectively networks and collaborates with alumni which have seen a progressive increase in the number of alumni interacting with the students every year.

Role of Alumni in Development of Institute

1. Providing placement assistance to students by conducting

      campus interviews.
2. Helping students to get projects and in plant training.
3. Providing expert talk/conducting seminars.
4. Providing career guidance to the students.
5. Contribution in syllabus preparation.
6. Sponsorship for various events organized by the Institute.

Guiding students about higher education abroad.

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

5.4.2 - Alumni contribution during the year (INR in Lakhs)

E. <1Lakhs

File Description	Documents
Upload any additional information	No File Uploaded

GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 - Institutional Vision and Leadership

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

The vision and mission of the institute are:

VISION - Empowering Through Quality Technical Education

MISSION - Committed to serve the needs of the society at large by imparting state-of-the-art Engineering education and to provide Knowledge and develop Attitudes, Skills and Values leading to establishment of quality conscious and sustainable research oriented Educational Institute.

The institute is committed for imparting technical education at affordable fees, to

students from society at large. The institute is also committed for rural youth development and women empowerment. The institute is known as a premier institute in engineering education with

distinctive characteristics like senior and stable faculty force, continuous upgradation of labs with latest configuration of computers, software and peripherals, rich collection of books and online journal subscriptions, efforts for enhancing overall personality and communication skills and research and consultancy activities. The institute follows ethical practices and encourages Indian culture and value system. Research projects are undertaken by faculty and students for societal problems. The vision and mission of the institute have been developed with the active participation of all faculty members and guidance from experts from various fields. The institute aims at becoming an autonomous institute with courses aligned with industrial needs.

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

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

The management of the institute has two main committees, Governing Body (GB) and College Development Committee (CDC). The role of the GB is to decide the policies for the smooth functioning of the institute. The GB decides the policies and gives directions to the institute for the effective implementation. The organizational structure of the institute is a blend of professional autonomy, individual accountability and well-defined administrative structure. Within this overall framework, faculty members have the operational autonomy in executing their teaching, research, training and consultancy activities.

The institute promotes participative management. The institute constitutes committees for general and academic development which includes faculty, nonteaching staff and students' participation. Involvement and participation is ensured from every segment of the institute in decision making processes. There are three levels of administrative structure under which all the activities of the institute are carried out.

Society level - The management of the institute is directed by Governing Body, whose members, are appointed in accordance with the

guidelines provided by the AICTE.

Institute level – The College Development Committee (CDC) is constituted as per the guidelines provided by Savitribai Phule Pune University (SPPU, Pune). All the main decisions related to the institute are taken by the Principal in consultations with the Head of departments. Principal is the academic and administrative head of the Institute and the Member Secretary of the Governing Body. Five Deans are appointed for Academics, Administration, Research & development, Admissions and Quality Assurance to assist in making policy decisions and smooth execution / monitoring of allied activities.

Department level - The Heads of Department are responsible for the day-to-day administration of the department and report directly to the Principal.

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

6.2 - Strategy Development and Deployment

6.2.1 - The institutional Strategic/ perspective plan is effectively deployed

The head of the institution guides and administers all the activities and plays a leading role in implementation of the stated vision and mission. Strategic Plan has been developed by involving the Heads of all departments and sections. Meetings of all faculty members are regularly conducted for planning and execution of all such activities. Action plan for departments based on academic calendar, vision and mission of the institute and of the departments, co-curricular and extra-curricular activities, is prepared by head of departments in consultation with Principal. All the stakeholders such as students, parents, alumni, industry, employers and professional bodies participate in institutional activities through the feedback mechanism as well as regular contact. The involvement of all stakeholders is ensured for improving the quality of the institution.

Need analysis is done through analysis of stakeholder feedback. The institute policies are constituted to meet the market demands. The stakeholder requirements and industrial needs are taken into account while preparing Strategic Plan and policies. Support required for

the execution of these policies in terms of financial, infrastructural and human resources is extended by management.

The institute motivates faculty and students for achieving academic and overall excellence through various activities. In order to achieve this, guest lectures, workshops, student project competitions, paper presentation competitions, technical quiz, industry institute interaction, consultancy activities, R & D activities are carried out which help to achieve the excellence

The institute intents to strengthen the teaching learning process by adopting latest technology for blended learning. To improve the administrative procedures and working, ERP system is implemented in the institute. Student mentoring and counseling is ensured for career development. The institute encourages interdisciplinary events/ activities and projects. Institute has developed good relationship with the industries in the form of joint research, expert lectures and curriculum design.

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

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

All the departments of the institute have departmental committees coordinated by faculty members and monitored by Head of the Department for smooth conduction of academic and administrative activities. The institute has constituted committees as per the norms and also additional committees are constituted for internal coordination and monitoring of the activities.

1. Admission Committee

2. Grievance Redressal Cell

3. Internal Complaint Committee for Women

4. Anti-Ragging Committee

5. Internal Quality Assurance Cell

6. Coordination Committee for Library

7. ERP Committee

8. Website Committee

9. Governing body for Alumni Association

10. Time table Co-ordination Committee

11. Coordination Committee for 'Maffick'

12. Committee for the institute magazine 'Horizon'

13. Sports Committee

14. NSS Committee

15. Dead stock verification Committee

The institute is represented by Principal on various committees at Education Society level as listed below -

1. Finance Committee

2. Purchase Committee

3. Staff Selection Committee

4. Construction and Maintenance Committee

The resolutions related to the policies and plans, made during meetings of Board of directors, Governing body and College Development Committee are communicated to all members of the institute. These are discussed in regular meetings of head of departments and action plans are prepared. The minutes of head of departments meetings are briefed to all the faculty members by the head of each department in regular departmental staff meetings. Further planning is made at the department level for effective implementation of policies and plans. Any difficulty in execution is conveyed to higher authorities to fulfil the needs.

The institute has the following mechanisms for better management and

improvement in human resource:

· Recruitment of well qualified and experienced faculty as per AICTE/UGC norms

· Promotions as per AICTE/UGC norms

· Training needs are identified for teaching and non-teaching staff and programs by experts are arranged as per the necessity.

· Implementation of staff welfare schemes.

The outcome of performance appraisal reports is used for reviewing the annual progress of staff and for promotion to the next scale/designation. The outcome of performance appraisal is communicated to the faculty by making an appropriate entry in service books.

File Description	Documents
Paste link for additional information	Nil
Link to Organogram of the Institution webpage	Nil
Upload any additional information	No File Uploaded

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)Document	View File
Screen shots of user interfaces	No File Uploaded
Any additional information	No File Uploaded
Details of implementation of e-governance in areas of operation, Administration etc (Data Template)	View File

6.3 - Faculty Empowerment Strategies

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

The following welfare schemes are available for teaching staff –

• **Group Insurance Scheme**

• **Employees Provident Fund**

• **Gratuity**

• **EL Encashment**

• **CL and ML as per rule**

• **Quarter for Principal**

The following welfare schemes are available for non-teaching staff -

• **Group Insurance Scheme**

• **Employees Provident Fund**

• **Gratuity**

• **EL Encashment**

• **CL and ML as per rule**

• **Workmen compensation facility**

• **Quarter for Rector**

• **Uniform for security guards**

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

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

6.3.2.1 - Number of teachers provided with financial support to attend conferences/workshops

and towards membership fee of professional bodies during the year

48

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

6.3.3 - Number of professional development /administrative training programs organized by the institution for teaching and non-teaching staff during the year

6.3.3.1 - Total number of professional development /administrative training Programmes organized by the institution for teaching and non teaching staff during the year

13

File Description	Documents
Reports of the Human Resource Development Centres (UGCASC or other relevant centres).	**No File Uploaded**
Reports of Academic Staff College or similar centers	**No File Uploaded**
Upload any additional information	**No File Uploaded**
Details of professional development / administrative training Programmes organized by the University for teaching and non teaching staff (Data Template)	View File

6.3.4 - Number of teachers undergoing online/face-to-face Faculty development Programmes (FDP) during the year (Professional Development Programmes, Orientation / Induction Programmes, Refresher Course, Short Term Course etc.)

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

183

File Description	Documents
IQAC report summary	**No File Uploaded**
Reports of the Human Resource Development Centres (UGCASC or other relevant centers)	**No File Uploaded**
Upload any additional information	**No File Uploaded**
Details of teachers attending professional development programmes during the year (Data Template)	[View File](#)

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

Performance appraisal of faculty is carried out at three levels:

1) Self-assessment by faculty: Every faculty member submits his performance appraisal form based on academic performance indicators (API) suggested by UGC, which includes:

a) Teacher Assessment based on his effectiveness for Teaching Learning and Evaluation. Along with other parameters mentioned in Category 1 of Part B in the format of API. Teaching performance is also evaluated with respect to number of lectures/lab sessions planned by a teacher and actual number of lectures/lab sessions conducted by him/her. Teaching quality of a teacher is evaluated not only based on the number of students passed in the subject but also based on the number of students secured First class and First class with Distinction in his/her subject. Teachers are motivated to improve results in their subjects with more number of students in First class and First class with Distinction.

b) Teacher assessment based on his involvement/participation in co-curricular, extension and professional development activities

c) Teacher assessment based on his research contributions in terms of funded projects, publication in high quality journals/conferences, publishing book/book chapters, invited talks, consultancy etc.

2) Evaluation by Head of the Department: The self-appraisal forms are verified by Head of the Department and Principal of the Institute and gap analysis is carried out. The scores are corrected

if required. Based on the scores, weakness of the faculty is identified and steps are taken to overcome these weaknesses. Institute also seeks the information from each faculty about his academic goals through following self-appraisal form and appropriate facilities and financial support is offered to him to achieve his goals.

3) Teacher appraisal through student feedback: Teacher's performance is also evaluated through student feedback. The minimum overall rating for a faculty member from the student's feedback should be more than 7 on 10-point scale. Necessary corrective actions are initiated for faculty member scoring less than the institute standard:

- Necessary advice by the Head of the department about handling and monitoring of the class.

Class observation by HOD and senior faculty and providing suggestions to improve teaching/evaluation skills

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

6.4 - Financial Management and Resource Mobilization

6.4.1 - Institution conducts internal and external financial audits regularly Enumerate the various internal and external financial audits carried out during the year with the mechanism for settling audit objections within a maximum of 200 words

The institute ensures an internal and external audit of all its accounts.

The accounts are reviewed internally by the Finance manager for proper utilization and queries, if any, are referred to Principal.

The external audit is done once in a year by external auditors. The last audit was done on 20th October 2021. No major audit objections were raised in the last audit.

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

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

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

0.35

File Description	Documents
Annual statements of accounts	No File Uploaded
Any additional information	No File Uploaded
Details of Funds / Grants received from of the non-government bodies, individuals, Philanthropers during the year (Data Template)	View File

6.4.3 - Institutional strategies for mobilization of funds and the optimal utilization of resources

The institute adopts a budgeting procedure, with adequate resources for non-recurring expenses, recurring expenses (e.g. salary, faculty development, research, repairs & maintenance, consumables etc.), learning resources (e.g. books, journals, periodicals) and creation of new facilities.

· The institute collects budgetary requirements from all the departments/sections in a prescribed format.

· The head, in consultation with the faculty members, finalize the department requirements and forward them to the Principal for approval.

· The institute budget is then prepared and the proposed budget is sent to the management for further consideration.

· Decision is made in consultation with the Principal to ensure that the requirements stated in the budget are given proper justification. The Governing Body of the institute is the final

decision making authority for budgetary approval based on recommendations given by the Principal.

· A standard procedure is followed for procurement.

· Provisions are made for any additional requirement of capital for emergency expenditure.

· The major source of receipts is Tuition Fees and Development fees from the students. Deficit if any is taken care by the Education Society through corpus fund.

· Efforts are made by the institute in securing additional funding through projects sponsored by organizations like DST, AICTE (schemes like MODROB, RPS, Seminar etc.), SPPU-BCUD, testing and consultancy work and others.

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

6.5 - Internal Quality Assurance System

6.5.1 - Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing the quality assurance strategies and processes

§ Academic Preparation Plan for both semesters for all courses and Use of LearniCo (LMS) for improving real time interactions during online lectures of FE, SE and TE classes (19 Demo sessions),Training Programs conducted for Teachers in 8 sessions for 134 faculty members (March 2020)

§ Framing of four Quality Objectives with clearly defined Action Plans for Quality Parameters to assess Teaching-Learning Process -

1) To improve all clear result of first year Engineering by 10% by avoiding single subject failure of students having 35% to 50% CET score, in the academic year 2020-21. (43 FE Teachers have contributed to the objective)

2) To improve all clear result of second year Engineering by 10% by improving the results of all five subjects of second yearby atleast 5% in the Sem-II of academic year 2020-21 and Sem-I of academic year 2021-22. (41 SE Teachers have contributed to the objective)

3) To improve the quality of teacher-student interactionsin the Sem-II of academic year 2020-21 and Sem-I of academic year 2021-22. (41 SE Teachers. 28 TE Teachers, 78 Project Guides have contributed to the objective.)

4) To improve the quality of experiential learningin the Sem-II of academic year 2020-21 and Sem-I of academic year 2021-22 by ensuring that atleast 25% students of the class solve the challenging / assignments / Variation in experimentations /problem based / Issue based laboratoryassignments. (114 SE,TE,BE Teachers have contributed to the objective)

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

6.5.2 - The institution reviews its teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals through IQAC set up as per norms and recorded the incremental improvement in various activities

§ Teaching feedback once per semester(9-19 March and 9-21 Sept 2020)

§ Student Satisfaction Survey (Once a year from final year students after Project exam) 22 June 2020

§ Stakeholder's feedback (Collection and Compilation from all depts.)

§ Survey of Girl Students and alumni (20 January 2021)

§ Survey for Difficulties faced while attending Online Lectures (20 April 2021)

§ Monthly Monitoring of implementation of action plans of Quality Objectives 1, 2, 3 and 4

§ Faculty Appreciation: Felicitation of 18 first year teachers on 22 May 2021

§ Academic & Administrative Audit for 2019-20 Sem-II, 2020-21 Sem- I and Sem II for11 Departments and 9 Sections (11-30 January 2021, 3-13 August 2021)

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

6.5.3 - Quality assurance initiatives of the institution include: Regular meeting of Internal Quality Assurance Cell (IQAC); Feedback collected, analyzed and used for improvements Collaborative quality initiatives with other institution(s) Participation in NIRF any other quality audit recognized by state, national or international agencies (ISO Certification, NBA)

B. Any 3 of the above

File Description	Documents
Paste web link of Annual reports of Institution	**Nil**
Upload e-copies of the accreditations and certifications	**No File Uploaded**
Upload any additional information	**No File Uploaded**
Upload details of Quality assurance initiatives of the institution (Data Template)	[View File](#)

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

There are around 35% girl students in the institute. The institute provides equal opportunity to girls and boys students with respect to students' council, participation in committees and extracurricular activities, sports and placements, etc.

Internal Complaint Committee for women is meant to safe guard and promotes wellbeing of all women employee and girl students of the organisation. It takes care of all complaints on sexual harassment of women at workplace and action taken for redressal of complaint.

Apart from this cell also organises awareness session, meeting with committee member and seminar for girl students and faculty members of the institute. Information of the cell is displayed at various locations in the campus like library, girls room, hostel etc. The cell always take care of providing appropriate working conditions in respect of work, leisure, health and hygiene to further ensure that there is no hostile environment towards women at work places. The Cell is responsible for looking into any complaints filed by students & staff about Woman Grievances at the college. Any aggrieved woman may make, in writing, a complaint to the cell. The cell provides a platform for listening to complaints and safeguard the rights of female students, faculty and staff members of women. The cell arranges expert session on health and knowledge regarding legal rights and redressal of their grievances. Through the activities of this cell women empowerment is achieved.

The Internal Complaint Committee for Women has representative from all the departments and awareness about the committee and its functions is made during the first year induction program. The campus is safe and secured and is under CCTV surveillance. Separate Rest room for girls students and lady staff members is available in the Institute.

Separate Sports/ cultural events are arranged for girl students each year.

A seminar on 'How to build confidence and leadership skills' by Dr.Surbhi Desai, Extentia Technologies, Pune was organized on 17th Dec. 2020. A panel discussion on : Explore the mind and heart of a Champion was organized on Women's day 8th March 2021. The panel comprised of five girl students who had significant achievements in different sports. A cricket match of lady faculty members was also arranged on the same day.

File Description	Documents
Annual gender sensitization action plan	Nil
Specific facilities provided for women in terms of: a. Safety and security b. Counseling c. Common Rooms d. Day care center for young children e. Any other relevant information	Nil

7.1.2 - The Institution has facilities for   B. Any 3 of the above

alternate sources of energy and energy conservation measures   Solar energy Biogas plant Wheeling to the Grid   Sensor-based energy conservation Use of LED bulbs/ power efficient equipment

File Description	Documents
Geo tagged Photographs	**No File Uploaded**
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 200 words) Solid waste management Liquid waste management Biomedical waste management E-waste management Waste recycling system Hazardous chemicals and radioactive waste management

Various initiatives are taken by the institute for degradable and non-degradable waste. Few are listed below-

- **Huge plantation and greenery has reduced CO2 level considerably.**
- **Solid waste is taken care by dispatching it for composting.**
- **Septic tanks are provided for each building to take care of liquid waste.**

- **Hazardous waste is handled carefully and disposed safely.**
- **Batteries are replaced regularly after expiry of their useful life**

- **Electronics gadgets, circuits, kits have been written off on regular basis and then it is sold out to buyers by auctioning.**
- **All the miscellaneous e-waste from every department is delivered for safe disposal.**

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

7.1.4 - Water conservation facilities available in the Institution: Rain water harvesting Bore   **B. Any 3 of the above**

well /Open well recharge Construction of tanks and bunds Waste water recycling Maintenance of water bodies and distribution system in the campus

File Description	Documents
Geo tagged photographs / videos of the facilities	**No File Uploaded**
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 with trees and plants**

File Description	Documents
Geo tagged photos / videos of the facilities	**No File Uploaded**
Any other relevant documents	**No File Uploaded**

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

7.1.6.1 - The institutional environment and energy initiatives 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

A. Any 4 or all of the above

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

7.1.7 - The Institution has disabled-friendly, barrier free environment Built environment with ramps/lifts for easy access to classrooms. Disabled-friendly washrooms Signage including tactile path, lights, display boards and signposts Assistive technology and facilities for persons with disabilities (Divyangjan) accessible website, screen-reading software, mechanized equipment   5. Provision for enquiry and information : Human assistance, reader, scribe, soft copies of reading material, screen   reading

A. Any 4 or all of the above

File Description	Documents
Geo tagged photographs / videos of the facilities	**No File Uploaded**
Policy documents and information brochures on the support to be provided	**No File Uploaded**
Details of the Software procured for providing the 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 socioeconomic and other diversities (within 200 words).

- **Induction Programme at institute level is conducted for the students admitted in first/second year and their parents for each branch to help them understand the engineering curriculum and evaluation process.**

- A class co-ordinator appointed for each class collects and analyzes the attendance in each subject at the end of every month. Result analysis for the university examinations is carried out after every semester. Based on the result analysis students having failure in more than three subjects and are at the risk of drop out are identified.
- Mentor assigned for the group of students regularly does the counseling regarding their academic progress, poor attendance. Feedback received from the students and the discussions carried out during counseling gives an indication of poorly performing students who are probably at the risk of drop out.

- The students from the disadvantaged sections of society, physically challenged, economically weaker sections are also identified.
- Student section creates awareness and provides all necessary information regarding various scholarships and social welfare schemes available to the students.
- The institute has EARN and LEARN scheme for the students from economically weaker section.
- The minority cell helps the students from minority communities to avail scholarships provided by the government.
- Book Bank facility is provided to reserved category students.
- Special Programmes for enhancement of communication skills are arranged for SC/ST students under the AICTE SPDC Scheme.
- The institute permits payment of fees in installment from the students of economically weaker sections.
- The NSS volunteers conduct various social activities and environment protection drives in the city and nearby villages as a part of their NSS activities.
- National Education Day - Birth anniversary of Maulana Abdul Kalam Azad was celebrated as National Education Day.
- Parakram Din- Netaji Subhash Chandra Bose Jayanti was celebrated.

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

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

- The institute is providing engineering graduates to the society. The engineers are expected to know the strengths and weaknesses of society and identify the opportunities and challenges involved in doing major reforms required to build a better society.
- The objectives of the extension activities organized by the institute are to sensitize students on critical issues concerned with society and environment such as poverty, social injustice, gender bias, pollution evils. Through these activities, the students are made aware of their roles to be played in the society. Such extension activities help students to groom their personalities and make them ready to participate in the Nation building process.
- NSS, Prayas and Swapnapurti foundation units provide a platform to understand moral, ethical and social values, to develop leadership quality, to work in a team and to boost overall confidence of the students.

A course on Humanity and Social Science enable students to explore aspects of human society and to develop characteristics that encourage personal fulfillment, meaningful professional life and responsible citizenship.

Audit courses like Code of Conduct & Moral Values, Human Values & Professional Ethics recognize and evaluate ethical challenges that students may face in their professional careers and build their decision making skills in such challenging scenarios.

NSS Unit of the Institute celebrated Voter's Day on 25 January 2020 and National Unity Day on 31 October 2020

File Description	Documents
Details of activities that inculcate values; necessary to render students in to responsible citizens	No File Uploaded
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 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,

A. All of the above

teachers, administrators and other staff   4. Annual awareness programmes on Code of Conduct are organized

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

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

- **National Education Day - Birth anniversary of Maulana Abdul Kalam Azad was celebrated as National Education Day.**
- **Parakram Din- Netaji Subhash Chandra Bose Jayanti was celebrated.**
- **NSS Unit of the Institute celebrated Voter's Day on 25 January 2020 and National Unity Day on 31 October 2020**
- **Independence day and Republic day is celebrated with full honour and employees/students who have contributed for social cause are felicitated.**
- **Teacher's day and Engineer's day is celebrated every year to remember the contributions of Dr. S. Radhakrishnan and Sir M. Visveswaraya respectively. Teachers are felicitated on these days for their dedicated service as Engineer and Teacher.**

File Description	Documents
Annual report of the celebrations and commemorative events for the last (During the year)	**No File Uploaded**
Geo tagged photographs of some of the events	**No File Uploaded**
Any other relevant information	**No File Uploaded**

7.2 - Best Practices

7.2.1 - Describe two best practices successfully implemented by the Institution as per NAAC format provided in the Manual.

1. Title of the Practice I : Student Centered Teaching & Learning

2. Objectives of the Practice:

- To enhance teaching learning process in Engineering Education.
- To adopt innovative teaching methodologies.
- To promote use of ICT in teaching learning process.

3. The Context

In any formal educational system, classroom teaching happens to be an inevitable somewhat irreplaceable component of the teaching-learning process. The classroom time is the dedicated time, during which students are expected to be actively engaged. Effective learning can only be ensured if the students understand and apply the knowledge sought in the classroom through teaching and other learning activities.

In an attempt to enable students to absorb and understand concepts thoroughly, the classroom environment should be conducive for mutual interactions between students and teachers. Learning in classrooms improves significantly if there are meaningful interactions between inquisitive learners and experienced teachers. Such meaningful interactions can systematically be introduced during teaching with the help of ICT tools and innovative teaching methodologies.

4. The Practice

- Use of ICT Tools -
  - MKCL LearniCo (SuperCampus) - It is an ICT tool which allows a teacher to immediately pose questions based on the concepts taught during a lecture. Students can individually answer this question through a mobile application. Teacher can assess the understanding of the students based on the correctness level of all collected answers. The use of this tool was incorporated in the teaching of all the UG / PG subjects during online lectures. Teachers of these classes prepared topic wise question banks to be used during lectures.
  - Use of other ICT tools like Google Classroom, Edmodo, Youtube channels, Technical Blogs, ERP.

- Use of other Innovative Teaching Methodologies – Teachers are using suitable innovative teaching method like Cross word activity, One Minute Paper, Think Pair Share, Blended Learning, Team-pair-solo Strategy, Role Play etc.

5. Evidence of Success

- Over the period of time there is a significant improvement in creativity and the quality of teaching.
- Significant improvement in student participation.
- Gradual improvement in student learning.
- Improved Results in University Examination.

6. Problems Encountered and Resources Required

Problems Encountered

- Familiarity of the tools and their proper usage during lectures.
- Some of the problems faced by students during online learning were connectivity issues, availability of Android mobile sets, power cut and heating of electronic devices etc.
- Due to COVID pandemic lockdown from 16th March 2020, regular lectures and practicals were suspended. The institute incorporated use of various online platforms for completion of syllabus, assessment and submissions. Details of the activities done during the lockdown period are as follows -

  - Number of Online lectures conducted - 27100
  - Number of Videos prepared by teachers - 3175
  - Number of study material (PDF, PPTs etc) - 2750 (LearniCo)
  - Number of online assignments provided on ERP/Google Classroom - 2886
  - No. of Youtube Video Links shared -8191
  - No. of LearniCo sessions conducted – 2193

Eighteen First Year Engg. teachers - Prof.Dr. Ganesh Dabhade, Prof.Snehal Joshi, Prof.Sagar Shinde, Prof.Suman Kahandal, Prof.Monali Kshirsagar, Prof.Abhijit Pawar, Prof.Jagruti Nikam, Prof.Apurv Vaidya, Prof.Avina Dhangare, Prof.Sagar Zalte, Prof.Shraddha Shelke, Prof.Pankaj Ranade, Prof.Sayli Gokhale, Prof.Shyam Gade, Prof.Madhuri Shinde, Prof.Suruchi Malao, Prof.Nayana Jangle and Prof.Ganesh Jadhav were felicitated for effective use of ICT tools including LearniCo.

Resources Required

- Computer System, LCD Projector, Wifi Devices in each classroom
- Appropriate Software and ICT tools

1. Title of the Practice II : Service Learning through Volunteering and Internships

2. Goals

- To work closely with the industry to understand new or improved products, techniques, processes, systems or services.
- To create awareness about social needs and real life problems.
- To develop transferable and life skills through service learning.

3. The Context

Typically, an Engineering graduate lacks confidence and experience while applying his/her knowledge. The best experience comes from internships by observing working life from different perspectives. An internship provides an opportunity to understand the role, the task and the industry. One can learn by watching and working closely with experienced people on projects. Internships help students to build confidence through practice thereby promoting personal growth. Internship allows students to get a feel for different industries in a small period of time.

Voluntary social activities allow students to understand various social issues and inspire them to contribute for social needs. In doing so, they need to communicate and interact with the people of different sections of the society.

Internships and Voluntary services thus provide an opportunity for development of communication skills, team work, professional skills and abilities.

4. The Practice

- Students are allowed to undergo internships in industries of their choice, typically either in their second/third/final year of graduation during vacations. At the end of the internship, students submit a report of the work done in the industry.
- NSS organizes two types of activities, regular activities at institute level and special camp of seven days at nearby villages. Regular activities include blood donation camps, tree plantation, health check-up camps, road safety and social awareness programmes. The renowned social workers and activists guide the students in the camp. The special camp in villages, help students to understand the rural life, problems of villagers and to provide probable engineering solutions.
- NSS volunteers (250) are encouraged to participate in inter collegiate, state level and national level activities.
- The institute is associated with two NGOs 'PRAYAS' and 'SWAPNAPURTI'.
- 5. Evidence of Success

- 220 students have undergone Internships in 2020-21. Department wise count of internships is as follows –

  - UG Chemical Engg -5
  - UG Civil Engg -17
  - UG Computerl Engg -52
  - UG E&TC Engg -20
  - UG Electronics Engg -2
  - UG Electrical Engg -22
  - UG IT Engg -12
  - UG Mechanical Engg -7
  - UG Production Engg. -3
  - MCA -23
  - MBA -57

- 1678 students have participated in 13 NSS activities in 2020-21.
- Several socially relevant projects were undertaken by students.

6. Problems Encountered and Resources Required

Problems Encountered

- **Identification of suitable industries for relevant internship for around 700 students.**
- **Managing NSS unit of 250 students and NSS camp in village.**
- **Finding suitable time slot for internship as per the requirements of industries.**

Resources Required

- **Logistics and travel support for social activities.**

File Description	Documents
Best practices in the Institutional web site	[View File]
Any other relevant information	**No File Uploaded**

7.3 - Institutional Distinctiveness

7.3.1 - Portray the performance of the Institution in one area distinctive to its priority and thrust within 200 words

The institute is known as a premier institute in engineering education with distinctive characteristics like senior and stable faculty force, continuous upgradation of labs with latest configuration of computers, software and peripherals, rich collection of books and online journal subscriptions, efforts for enhancing overall personality and communication skills and research and consultancy activities. The institute follows ethical practices and encourages Indian culture and value system. Research projects are undertaken by faculty and students for societal problems.

The institute is permanently affiliated to Savitribai Phule Pune University. Most of the programmes offered by the institute have been accredited by NBA, AICTE, New Delhi. In year 2003, six programmes and in year 2012, five programmes were accredited respectively. The Institute has been accredited by NAAC with grade A in 2018. Eight programmes have been accredited by NBA in 2019. Mechanical Engg. programme has applied for NBA re-accreditation in 2019. Institute has applied for Autonomy to UGC in 2019.

The institute has been recognised by NIRF (Ranked 9th in Maharashtra state and 85th in India) in year 2016. The institute was placed in Platinum Category (highest) through joint survey by AICTE-CII in 2016, 2018, 2019, 2020 and Gold Category in 2017. The institute was

placed at 11th position among Engineering Colleges of Maharashtra in the Digital Learning Survey for Top engineering institute ranking 2020 with AAAA+ Rating.

The institute has been ranked 5th in state and 142nd at national level in the survey conducted by EDU-RAND in Nov. 2014. This was an internet based survey and colleges were ranked on the basis of accreditation score, faculty qualifications, research productivity, fill rate and placement score.

The strengths of the institute therefore are -

- Good quality of students
- Significant number of University rank holders
- Well qualified and experienced staff members dedicated to quality improvement
- Excellent teaching learning environment
- Rich collection of books and digital library access in central library
- State of the art laboratories and infrastructure
- Efficient training and placement cell
- State of the art sports facilities and gymnasium
- Conducive environment for overall development of students
- Strong presence of alumni in industry at national and international level
- MoUs with industry for overall development of students
- Clean and eco friendly green campus
- Recognition from various accreditation agencies

Hence, the institute aims at becoming an autonomous institute with courses aligned with industrial and societal needs.

Part B

CURRICULAR ASPECTS

1.1 - Curricular Planning and Implementation

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

- The institute follows the curriculum and academic calendar prescribed by the university and plans for effective implementation.
- The course structure and contents of all the programmes are available on the university website.

- Before the commencement of the semester, courses are allocated to respective teachers based on their specialization, experiences and choice.
- Department wise academic calendar, activity calendar, class time table and laboratory time table is prepared.
- Faculty develops teaching plan / laboratory plan / tutorial plan as per guidelines received from the university.
- Academic Preparation Plan consisting of high quality videos to be shared with students, Multiple choice questions to be asked through LearniCo / Google Forms, Assignments & Question Banks, use of simulation / modeling tools, ideas for mini projects is followed by all teachers.
- The course files are prepared / updated by respective faculty.
- Laboratory manuals / journals are prepared.
- The monthly attendance record is prepared by class coordinator and communicated to every student and their parents.
- The academic activities and progress of students are reviewed by head of the department with the help of class coordinators and corrective measures are discussed with the faculty.
- Continuous assessment of students is made with the help of rubrics developed by each faculty for laboratory course.
- The planning for project and seminar work is done at the beginning of every semester. The students are encouraged to carry out their projects in collaboration with industries.

File Description	Documents
Upload relevant supporting document	[View File](#)
Link for Additional information	Nil

1.1.2 - The institution adheres to the academic calendar including for the conduct of Continuous Internal Evaluation (CIE)

- In view of online conduction of lectures and practicals, course teachers prepared and shared videos/presentations/demonstrations for the content of their respective courses. The online lectures/ practicals are conducted regularly using various platforms.
- For each practical /tutorial course, evaluation criterion is decided and continuous assessment sheet is prepared by respective faculty and the students are made aware of the assessment strategy before the commencement of the course.
- For each practical /tutorial course, continuous assessment of a student is made with the help of rubrics by respective faculty and registered in continuous assessment sheet during the semester.
- At the end of semester students submit term work in the form of journal / worksheets in ERP/Google Classroom.
- Evaluation criteria for term work based on continuous assessment, timely submission and regular attendance are conveyed to the students before the commencement of the course.
- The attendance record of each student is maintained in theory class and practical sessions and cumulative attendance is conveyed to each student and if required to his/her parents as well.
- Two unit tests are conducted and corrected answer sheets of Unit test are shown to students for further improvement.

- The efforts are taken by mentors and class coordinators to boost the moral of students during Covid pandemic and encourage them to cope up with online teaching-learning and evaluation.
- The overall development of students gets reflected not only in academic performance, but also in their personality and confidence and thereby in campus placements due to acquired knowledge and skills.
- Independent learning of the student is tested while doing seminars, mini – projects, and final year projects and

evaluated as per the guidelines provided by the University.

File Description	Documents
Upload relevant supporting documents	View File
Link for Additional information	**Nil**

1.1.3 - Teachers of the Institution participate in following activities related to curriculum development and assessment of the affiliating University and/are represented on the following academic bodies during the year. Academic council/BoS of Affiliating University Setting of question papers for UG/PG programs Design and Development of Curriculum for Add on/ certificate/ Diploma Courses Assessment /evaluation process of the affiliating University	**A. All of the above**

File Description	Documents
Details of participation of teachers in various bodies/activities provided as a response to the metric	View File
Any additional information	View File

1.2 - Academic Flexibility

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

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

File Description	Documents
Any additional information	**No File Uploaded**
Minutes of relevant Academic Council/ BOS meetings	**No File Uploaded**
Institutional data in prescribed format (Data Template)	View File

1.2.2 - Number of Add on /Certificate programs offered during the year

1.2.2.1 - How many Add on /Certificate programs are added during the year. Data requirement for year: (As per Data Template)

File Description	Documents
Any additional information	**No File Uploaded**
Brochure or any other document relating to Add on /Certificate programs	View File
List of Add on /Certificate programs (Data Template)	View File

1.2.3 - Number of students enrolled in Certificate/ Add-on programs as against the total number of students during the year

843

1.2.3.1 - Number of students enrolled in subject related Certificate or Add-on programs during the year

File Description	Documents
Any additional information	View File
Details of the students enrolled in Subjects related to certificate/Add-on programs	View File

1.3 - Curriculum Enrichment

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

Environmental Studies-I and II are incorporated in curriculum of first year engineering coursewhich build the concepts and strategies related to sustainable development and variouscomponents of environment.

Environmental Engineering as a course has been offered to create awareness of environmental ethics and protocol to be followed for industrial practices to protect environment and promote sustainable development.

A course on Humanity and Social Science enable students to explore aspects of human society and to develop characteristics

that encourage personal fulfillment, meaningful professional life and responsible citizenship.

Audit course on Smart Cities explores dynamic behavior of the urban system by going beyond the physical appearance and by focusing on representations, properties and impact factors. Audit courses like Code of Conduct & Moral Values, Human Values & Professional Ethics recognize and evaluate ethical challenges that students may face in their professional careers and build their decision making skills in such challenging scenarios.

A course on 'Writingand PublishingResearchPaper' emphasizes awareness ofresearchethics and integrity

MBA Courses like Indian Ethos & Business Ethics and Corporate Social Responsibility & Sustainability provide the insights to the students about legislative provisions, environmental aspects, best practices, complexity, scope, social framework etc. related to CSR, business ethics & sustainability development.

The institute has Women Grievance Cell and Grievance Redressal Cell to provide counseling to students, promote gender equity among students and also deal with related issues of safety and security of female students, staff and faculty.

File Description	Documents
Any additional information	No File Uploaded
Upload the list and description of courses which address the Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum	View File

1.3.2 - Number of courses that include experiential learning through project work/field work/internship during the year

48

File Description	Documents
Any additional information	**No File Uploaded**
Programme / Curriculum/ Syllabus of the courses	View File
Minutes of the Boards of Studies/ Academic Council meetings with approvals for these courses	**No File Uploaded**
MoU's with relevant organizations for these courses, if any	**No File Uploaded**
Number of courses that include experiential learning through project work/field work/internship (Data Template)	View File

1.3.3 - Number of students undertaking project work/field work/ internships

3525

File Description	Documents
Any additional information	**No File Uploaded**
List of programmes and number of students undertaking project work/field work/ /internships (Data Template)	View File

1.4 - Feedback System

1.4.1 - Institution obtains feedback on the syllabus and its transaction at the institution from the following stakeholders Students Teachers Employers Alumni	**A. All of the above**

File Description	Documents
URL for stakeholder feedback report	**No File Uploaded**
Action taken report of the Institution on feedback report as stated in the minutes of the Governing Council, Syndicate, Board of Management (Upload)	**No File Uploaded**
Any additional information(Upload)	**No File Uploaded**

1.4.2 - Feedback process of the Institution may be classified as follows	**A. Feedback collected, analyzed and action taken and feedback available on website**

File Description	Documents
Upload any additional information	**No File Uploaded**
URL for feedback report	https://engg.kkwagh.edu.in/a_y_2020_21/index

TEACHING-LEARNING AND EVALUATION

2.1 - Student Enrollment and Profile

2.1.1 - Enrolment Number Number of students admitted during the year

2.1.1.1 - Number of sanctioned seats during the year

1074

File Description	Documents
Any additional information	**No File Uploaded**
Institutional data in prescribed format	[View File](#)

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

2.1.2.1 - Number of actual students admitted from the reserved categories during the year

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

2.2 - Catering to Student Diversity

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

In order to understand special learning needs of the students, an initial assessment of their learning levels was carried out with the help of a Profiling (Psychometric) Test for the first year students of 2019-20. The scores of students in different categories of the test like Logical Reasoning, Numerical ability, Linguistic ability helped to identify advanced and slow learners in general. However to identify advanced learners with finer characteristics, the profiling test was redesigned in 2020-21. Based on the scores obtained in the profiling test, appropriate thresholds were decided to identity the advanced and slow learners. Special programs were designed and implemented at department level. Mechanism is established to track the performance of advanced and slow learners by respective departments

Additionally, advanced and slow learners in individual subjects are identified by subject teachers with the help of LearniCo scores and necessary corrective measures are taken.

48 Remedial online lectures were conducted for all FE divisions in Engg. Mechanics course by Prof. Milind Murugkar, Challenging Assignments/Gate Questions are shared with advanced learners.

Scholarships are awarded to top three meritorious students from each class. Apart from regular library facility, additional two books are provided to meritoriousstudents.

File Description	Documents
Link for additional Information	**Nil**
Upload any additional information	[View File](#)

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

Number of Students	Number of Teachers
Nil	Nil

File Description	Documents
Any additional information	No File Uploaded

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

Participative Learning – In an attempt to enable students to understand concepts thoroughly, the classroom environment is made conducive for mutual interactions between students and teachers. Learning in classrooms improves significantly if there are meaningful interactions between inquisitive learners and experienced teachers. Such meaningful interactions are systematically introduced during teaching with the help of ICT tools and innovative teaching methodologies. To allow students to participate and answer even during online lectures, the Audience Response System, named MKCL LearniCo was adopted. It is used for teaching of all subjects in all classes. Experiential Learning – Opportunities are provided through the use of Simulation Tools and Internships. Modeling and simulation tools such as Ansys & Creo, Aspen Plus, Bison, CIM Design, Cisco packet tracer, D3.js, ETAP, Excel, Flexsim, Geogebra, Hysis V 8.8, Keil micro vision, MATLAB, Minitab, MyCompiler Assembler, PHA ISOGRAPH Software, PLC virtual lab, Proteus, Pythontutor, R online simulator, Scikit learn, Star UML, Testing tool Selenium, JUnit, Tinker Cad, ThingSpeak IoT Cloud, UniSim Design, AutoCAD, DWSIM are used.

Problem Solving Methodologies –Opportunities for Problem solving are provided in Tutorial classes of different courses, Project Based Learning in FE, SE and TE classes, Final Year Projects and Additional Challenging Problems/Assignments.

File Description	Documents
Upload any additional information	No File Uploaded
Link for additional information	Nil

2.3.2 - Teachers use ICT enabled tools for effective teaching-learning process. Write description in maximum of 200 words

Teachers have used various ICT enabled tools for effective teaching-learning process such as -

- **Use of Online Platforms for Lecture Conduction - No. of Online lectures conducted – 27100, No. of Videos prepared by teachers -3175, No. of Youtube Video Links shared - 8191**
- **Use of ERP/Google Classroom etc. for Assignment submissions - No. of Assignments in ERP/ Google Classroom -2886**
- **Use of ICT tools like LearniCo/ Polls etc. in teaching-learning - No. of LearniCo sessions conducted -2193**
- **Use of ICT tools for Formative and Summative Assessment**
- **Use of Simulation tools - Modeling and simulation tools such as Ansys & Creo, Aspen Plus, Bison, CIM Design, Cisco packet tracer, D3.js, ETAP, Excel, Flexsim, Geogebra, Hysis V 8.8, Keil micro vision, MATLAB, Minitab, MyCompiler Assembler, PHA ISOGRAPH Software, PLC virtual lab, Proteus, Pythontutor, R online simulator, Scikit learn, Star UML, Testing tool Selenium, JUnit, Tinker Cad, ThingSpeak IoT Cloud, UniSim Design, AutoCAD, DWSIM are used.**

File Description	Documents
Upload any additional information	**No File Uploaded**
Provide link for webpage describing the ICT enabled tools for effective teaching-learning process	**Nil**

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

2.3.3.1 - Number of mentors

214

File Description	Documents
Upload, number of students enrolled and full time teachers on roll.	**No File Uploaded**
Circulars pertaining to assigning mentors to mentees	**No File Uploaded**
mentor/mentee ratio	**No File Uploaded**

2.4 - Teacher Profile and Quality

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

214

File Description	Documents
Full time teachers and sanctioned posts for year (Data Template)	View File
Any additional information	**No File Uploaded**
List of the faculty members authenticated by the Head of HEI	**No File Uploaded**

2.4.2 - Number of full time teachers with Ph. D. / D.M. / M.Ch. /D.N.B Superspeciality / D.Sc. / D.Litt. during the year (consider only highest degree for count)

2.4.2.1 - Number of full time teachers with Ph. D. / D.M. / M.Ch. /D.N.C Superspeciality / D.Sc. / D.Litt. during the year

File Description	Documents
Any additional information	**No File Uploaded**
List of number of full time teachers with Ph. D. / D.M. / M.Ch./ D.N.B Super specialty / D.Sc. / D.Litt. and number of full time teachers for year(Data Template)	View File

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

2.4.3.1 - Total experience of full-time teachers

2591

File Description	Documents
Any additional information	**No File Uploaded**
List of Teachers including their PAN, designation, dept. and experience details(Data Template)	View File

2.5 - Evaluation Process and Reforms

2.5.1 - Mechanism of internal assessment is transparent and robust in terms of frequency and mode. Write description within 200 words.

- **Evaluation criteria for term work based on continuous assessment, timely submission and regular attendance are conveyed to the students before the commencement of the course.**
- **The attendance record of each student is maintained in theory class and practical sessions and cumulative attendance is conveyed to each student and if required to his/her parents as well.**

- **Independent learning of the student is tested while doing seminars, mini – projects, and final year projects and evaluated as per the guidelines provided by the University.**
- **Two Unit tests are conducted in each semester for all the theory courses.**

File Description	Documents
Any additional information	**No File Uploaded**
Link for additional information	**Nil**

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

- **Students are made aware of Continuous assessment scheme for lab work, project work and seminars as per the evaluation criteria. Term work marks are displayed on notice board. Any discrepancy in continuous assessment is resolved at department level, within two days.**
- **Corrected answer sheets of Unit test are shown to students within one week from end of internal exams. The points raised by students related to marking scheme are resolved immediately and corrected results are displayed, if necessary.**

File Description	Documents
Any additional information	**No File Uploaded**
Link for additional information	**Nil**

2.6 - Student Performance and Learning Outcomes

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

The institute follows the guidelines provided by AICTE, New Delhi for institutes affiliated to university. As per these guidelines, each department follows the twelve Programme Outcomes (POs).

In addition to POs, Programme Specific Outcomes (PSOs) are defined as per the need of the programme. Each department defines its own Programme Educational Objectives (PEOs) and Course Outcomes (COs). COs are defined as per syllabus using Blooms Taxonomy and mapped with POs and PSOs according to correlation level.

Course Outcomes are defined by Course coordinator/teacher and finalized by module coordinator, program coordinator, and head of department. The course coordinator/teacher discusses the course outcomes in the classroom as well as in the laboratory at the beginning of the course. POs and COs are displayed on notice boards in every laboratory and also printed in continuous assessment record for laboratory assignments, project work and printed journals. POs are also available on Institute website.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for Additional information	https://engg.kkwagh.edu.in/iqac_detail/index/191
Upload COs for all courses (exemplars from Glossary)	No File Uploaded

2.6.2 - Attainment of Programme outcomes and course outcomes are evaluated by the institution.

POs are attained through the attainment of COs. CO attainment is calculated at the end of each course using direct method. The results of University examination contribute to direct method of attainment.

PO and PSO attainment is calculated at the end of programme as per the CO-PO mapping and correlation level. Programme exit survey contributes to indirect attainment of PO and PSO. PEOs are attained through the attainment of POs and PSOs.

The Summary of attainment of COs for each course along with its

mapping with POs, is recorded in a document named Course Information Sheet (CIS).

To ensure attainment of graduate attributes, each department monitors and reviews teaching learning process periodically. Effective mechanisms are employed for curriculum implementation using modern tools and technology along with traditional classroom teaching. Teachers' feedback is collected for each course from the students and analyzed for further corrective measures, if any.

To bridge the curriculum gaps, topics beyond syllabus are included in teaching plan, expert talks are arranged, various seminars, workshops, symposiums, conferences and industrial visits are organized. To enhance the employability, various training and placement activities are carried out on regular basis.

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

2.6.3 - Pass percentage of Students during the year

2.6.3.1 - Total number of final year students who passed the university examination during the year

File Description	Documents
Upload list of Programmes and number of students passed and appeared in the final year examination (Data Template)	View File
Upload any additional information	No File Uploaded
Paste link for the annual report	Nil

2.7 - Student Satisfaction Survey

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

https://engg.kkwagh.edu.in/a_y_2020_21/index

RESEARCH, INNOVATIONS AND EXTENSION

3.1 - Resource Mobilization for Research

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

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

2542996

File Description	Documents
Any additional information	No File Uploaded
e-copies of the grant award letters for sponsored research projects /endowments	No File Uploaded
List of endowments / projects with details of grants(Data Template)	View File

3.1.2 - Number of departments having Research projects funded by government and non government agencies during the year

3.1.2.1 - Number of departments having Research projects funded by government and non-government agencies during the year

File Description	Documents
List of research projects and funding details (Data Template)	View File
Any additional information	No File Uploaded
Supporting document from Funding Agency	View File
Paste link to funding agency website	Nil

3.1.3 - Number of Seminars/conferences/workshops conducted by the institution during the year

3.1.3.1 - Total number of Seminars/conferences/workshops conducted by the institution during the year

16

File Description	Documents
Report of the event	**No File Uploaded**
Any additional information	**No File Uploaded**
List of workshops/seminars during last 5 years (Data Template)	[View File](#)

3.2 - Research Publications and Awards

3.2.1 - Number of papers published per teacher in the Journals notified on UGC website during the year

3.2.1.1 - Number of research papers in the Journals notified on UGC website during the year

26

File Description	Documents
Any additional information	**No File Uploaded**
List of research papers by title, author, department, name and year of publication (Data Template)	[View File](#)

3.2.2 - Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during the year

3.2.2.1 - Total number of books and chapters in edited volumes/books published and papers in national/ international conference proceedings during the year

23

File Description	Documents
Any additional information	**No File Uploaded**
List books and chapters edited volumes/ books published (Data Template)	[View File](#)

3.3 - Extension Activities

3.3.1 - Extension activities are carried out in the neighborhood community, sensitizing students to social issues, for their holistic development, and impact thereof during the year

- The institute has National Service Scheme (NSS) Unit of 250 capacity affiliated to SPPU. The institute appoints two Programme Officers (one male and one female) along with Assistant Programme Officers from each department. Students are enrolled as per the guidelines provided by SPPU.
- NSS organizes two types of activities, regular activities at institute level and special camp of seven days at nearby villages. Regular activities include blood donation camps, tree plantation, health check-up camps, road safety and social awareness programmes. The renowned social workers and activists guide the students in the camp. The special camp in villages, help students to understand the rural life, problems of villagers and to provide probable engineering solutions.
- NSS volunteers are encouraged to participate in inter collegiate, state level and national level activities.

The institute is associated with two NGOs 'PRAYAS' and 'SWAPNAPURTI' formed by students. The institute appoints staff co-ordinator for smooth functioning of activities. Student volunteers are involved in computer literacy and IT awareness programmes in the schools at nearby villages. The activities of NGOs help in building awareness of social problems. Leadership qualities and team spirit is also developed among the volunteers. While exploring the new technologies to the students in rural areas, their sense of belongingness increases.

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

3.3.2 - Number of awards and recognitions received for extension activities from government / government recognized bodies during the year

3.3.2.1 - Total number of awards and recognition received for extension activities from Government/ government recognized bodies during the year

1

File Description	Documents
Any additional information	**No File Uploaded**
Number of awards for extension activities in last 5 year(Data Template)	View File
e-copy of the award letters	**No File Uploaded**

3.3.3 - Number of extension and outreach programs conducted by the institution through NSS/NCC/Red cross/YRC etc., (including the programmes such as Swachh Bharat, AIDS awareness, Gender issues etc. and/or those organized in collaboration with industry, community and NGOs) during the year

3.3.3.1 - Number of extension and outreach Programs conducted in collaboration with industry, community and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., during the year

13

File Description	Documents
Reports of the event organized	**No File Uploaded**
Any additional information	**No File Uploaded**
Number of extension and outreach Programmes conducted with industry, community etc for the last year (Data Template)	View File

3.3.4 - Number of students participating in extension activities at 3.3.3. above during the year

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

File Description	Documents
Report of the event	**No File Uploaded**
Any additional information	**No File Uploaded**
Number of students participating in extension activities with Govt. or NGO etc (Data Template)	View File

3.4 - Collaboration

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

47

File Description	Documents
e-copies of linkage related Document	**No File Uploaded**
Details of linkages with institutions/industries for internship (Data Template)	[View File](#)
Any additional information	**No File Uploaded**

3.4.2 - Number of functional MoUs with national and international institutions, universities, industries, corporate houses etc. during the year

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

4

File Description	Documents
e-Copies of the MoUs with institution./ industry/corporate houses	[View File](#)
Any additional information	**No File Uploaded**
Details of functional MoUs with institutions of national, international importance, other universities etc during the year	[View File](#)

INFRASTRUCTURE AND LEARNING RESOURCES

4.1 - Physical Facilities

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

- **Well equipped laboratories, state of art library, well ventilated ICT enabled classrooms, tutorial rooms, seminar halls and faculty rooms are available.**
- **Additional facilities are created to fulfill the requirements whenever needed.**
- **The library has well demarcated space for book stacking,**

- processing section, circulation section, book bank, reading room, periodical section, reference section, e-library, audiovisual section and offices for librarian and staff.
- The institute has developed fully dedicated infrastructure, Dr. A P J Abdul Kalam Career Development Centre, for conducting training and placement activities comprising of two computer labs, group discussion and interview rooms and also Video Conferencing facility.
- The institute has 'Construction and Maintenance' unit to look after the development, enhancement and maintenance of campus infrastructure.
- 1341 Computers, 3 servers for ERP facility and 5 servers at department level are available alongwith adequate number of peripherals and UPS backup.

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

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

- The institute provides excellent sports facilities. A playground with area 20,000sq.m. is developed in the campus for playing outdoor games such as cricket, football, hockey etc. A six lane athletic track, two volley ball courts, one basketball court and two lawn tennis courts are also available. Similarly, the institute also has the facility for indoor games such as chess, carom and table tennis. Yoga room is available in gymnasium.
- The gymnasium is equipped with all modern equipments for body building and fitness. Some of major equipments available in the gymnasium are motorized jogger, eight station multi gym, hip abductor, cable cross machine, power cage, Olympic standard weight lifting set, bench press etc. The facility of steam and sauna bath is also available in the gymnasium. Green Gym is also available.
- During annual social gathering, various cultural activities and competitions are held at institute level. It includes singing, dance, drama, one act play, fashion show etc. Competitions like art, paintings, rangoli, photography etc. are arranged.
- For public speaking and communication, each department has

- a seminar hall with seating capacity 150 and facilities like PA system, dias, podium, LCD projector screen, television set etc.
- The institute has Karmaveer Dispensary in the campus. Ambulance service is also made available by the Institute.
- Sanitary napkin vending and disposal machine is available in ladies common room and washrooms.

File Description	Documents
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 such as smart class, LMS, etc.

48

4.1.3.1 - Number of classrooms and seminar halls with ICT facilities

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	Nil
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	View File

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

4.1.4.1 - Expenditure for infrastructure augmentation, excluding salary during the year (INR in lakhs)

File Description	Documents
Upload any additional information	**No File Uploaded**
Upload audited utilization statements	**No File Uploaded**
Upload Details of budget allocation, excluding salary during the year (Data Template)	<u>View File</u>

4.2 - Library as a Learning Resource

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

- **Name of ILMS software – KOHA**

- **Nature of automation (fully or partially) - Fully**

- **Version – 19.05.00.000**

- **Year of Automation - 2020**

- **Name of ILMS software –Librarian Software (LIBSUITE)**

- **Nature of automation (fully or partially) - Fully**

- **Version – VER.5.6**

- **Year of Automation - 2000**

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

4.2.2 - The institution has subscription for the following e-resources e-journals e-ShodhSindhu Shodhganga Membership e-books Databases Remote access toe-resources	**A. Any 4 or more of the above**

File Description	Documents
Upload any additional information	**No File Uploaded**
Details of subscriptions like e-journals,e-ShodhSindhu, Shodhganga Membership etc (Data Template)	View File

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

4.2.3.1 - Annual expenditure of purchase of books/e-books and subscription to journals/e-journals during the year (INR in Lakhs)

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

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

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

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

4.3 - IT Infrastructure

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

- **1341 Computers with Internet facility are available in different laboratories of the departments**
- **LAN facility is available everywhere in the campus including all hostels.**
- **WiFi facility is provided using 13 indoor access points**

> with data rate over 300 Mbps and 10 outdoor Enterprise class access points with data rate over 300 Mbps and over 3 km of range. WiFi facility is also available in the campus for all the students and staff..
- ERP facility is provided to all staff and students.
- The institute has provided BSNL 300 Mbps lease line. Upgraded Firewall to Latest Sophos & Layer 2 Switches added for better performance.

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

4.3.2 - Number of Computers

1341

File Description	Documents
Upload any additional information	**No File Uploaded**
Student – computer ratio	**No File Uploaded**

4.3.3 - Bandwidth of internet connection in the Institution	A. ? 50MBPS

File Description	Documents
Upload any additional Information	**No File Uploaded**
Details of available bandwidth of internet connection in the Institution	**No File Uploaded**

4.4 - Maintenance of Campus Infrastructure

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

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

File Description	Documents
Upload any additional information	**No File Uploaded**
Audited statements of accounts.	**No File Uploaded**
Details about assigned budget and expenditure on physical facilities and academic support facilities (Data Templates)	[View File](#)

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

- **'Construction and Maintenance' unit of K. K. Wagh Education Society takes care of maintenance of all buildings in the campus which includes civil work modifications, building repairing, road repairing, plumbing, colouring etc. This unit prepares estimate of the proposed work and obtains approval from management. Small repairing and maintenance works are carried in-house; whereas, for the execution of major works contractors are appointed.**
- **'Construction and Maintenance' unit also monitors housekeeping and cleaning of water tanks and sanitary blocks. An external agency is appointed for cleaning of all water tanks of the campus on contractual basis.**
- **'Furniture and Maintenance' unit of K. K. Wagh Education Society fulfills the requirement regarding fabrication and maintenance of furniture in the institute.**
- **'Gardening' unit of K. K. Wagh Education Society maintains the campus green and nature friendly. The plants and lawns are irrigated through well designed sprinkler system.**
- **The maintenance of all the electrical works in the campus is taken care by maintenance wing of department of electrical engineering.**
- **The maintenance and repairing of the equipments is done by the respective departments with the help of technical assistants and services of external agencies are also hired for major and critical troubleshooting.**

- **Each department of the institute carries out the maintenance and calibration of the equipments and measuring instruments periodically.**

- **Silent Diesel Generator sets of capacity 320KVA is provided for 100% power backup during interruption.**
- **Adequate numbers of UPS are installed in each department to**

- ensure uninterrupted power supply for all computers and electronic equipments.
- To store and supply water, eleven underground water tanks (total capacity 3,32,000 liters) and 17 elevated water tanks (total capacity 3,74,000 liters) are in use in the campus. Eleven pumps are installed to pump the water from underground water tanks to elevated water tanks.
- Water coolers and Water purifiers are installed in all departments of the institute for safe drinking water, the maintenance of which is carried out periodically.

- The fire safety system is installed according to IS 14435:1997.
- Fire Hydrant systems and alarm systems are in service since 27/05/2013.
- Weblink for Maintenance Policy - https://engg.kkwagh.edu.in/institute_policy

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

STUDENT SUPPORT AND PROGRESSION

5.1 - Student Support

5.1.1 - Number of students benefited by scholarships and free ships provided by the Government during the year

5.1.1.1 - Number of students benefited by scholarships and free ships provided by the Government during the year

2871

File Description	Documents
Upload self attested letter with the list of students sanctioned scholarship	**No File Uploaded**
Upload any additional information	**No File Uploaded**
Number of students benefited by scholarships and free ships provided by the Government during the year (Data Template)	View File

5.1.2 - Number of students benefitted by scholarships, free ships etc. provided by the institution / non- government agencies during the year

5.1.2.1 - Total number of students benefited by scholarships, free ships, etc provided by the institution / non- government agencies during the year

209

File Description	Documents
Upload any additional information	**No File Uploaded**
Number of students benefited by scholarships and free ships institution / non- government agencies in last 5 years (Date Template)	View File

5.1.3 - Capacity building and skills enhancement initiatives taken by the institution include the following: Soft skills Language and communication skills Life skills (Yoga, physical fitness, health and hygiene) ICT/computing skills	**A. All of the above**

File Description	Documents
Link to institutional website	**Nil**
Any additional information	**No File Uploaded**
Details of capability building and skills enhancement initiatives (Data Template)	View File

5.1.4 - Number of students benefitted by guidance for competitive examinations and career counseling offered by the institution during the year

603

5.1.4.1 - Number of students benefitted by guidance for competitive examinations and career counseling offered by the institution during the year

603

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 has a transparent mechanism for timely redressal of student grievances including sexual harassment and ragging cases Implementation of guidelines of statutory/regulatory bodies Organization wide awareness and undertakings on policies with zero tolerance Mechanisms for submission of online/offline students' grievances Timely redressal of the grievances through appropriate committees	A. All of the above

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

5.2 - Student Progression

5.2.1 - Number of placement of outgoing students during the year

5.2.1.1 - Number of outgoing students placed during the year

535

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

5.2.2 - Number of students progressing to higher education during the year

5.2.2.1 - Number of outgoing student progression to higher education

21

File Description	Documents
Upload supporting data for student/alumni	View File
Any additional information	**No File Uploaded**
Details of student progression to higher education	View File

5.2.3 - Number of students qualifying in state/national/ international level examinations during the year (eg: JAM/CLAT/GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/State government examinations)

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

47

File Description	Documents
Upload supporting data for the same	View File
Any additional information	**No File Uploaded**

5.3 - Student Participation and Activities

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

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

0

File Description	Documents
e-copies of award letters and certificates	**No File Uploaded**
Any additional information	**No File Uploaded**
Number of awards/medals for outstanding performance in sports/cultural activities at university/state/national/international level (During the year) (Data Template)	[View File]()

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

The institute has student representatives in many of the academic and administrative bodies for effective functioning which are listed below:-

- Anti Ragging Committee
- Internal Complaint Committee for Women
- Training and Placement
- Student Council
- National Service Scheme (NSS)
- Cultural/Sports Committee
- ISTE, SAE, IET, ISHRAE, CSI & ACM Students' Chapter
- Ganesh Festival Committee
- Students associations of each department
- College Development Council
- Internal Quality Assurance Cell (IQAC)
- IoT Club, Astro Club, RedX Club, Environmental Club, White Spot Club, Financial Literacy Club, Automobile Vehicle Club, Study abroad Club, EDC Club, Book Club, Art Club, Film Club, English Language Club, Sports Club.

Each department has active student association which organizes various activities for development of students. The students' associations of various departments are -

- Association of Chemical Engineering Students (ACES)
- Civil Engineering Students' Association (CESA)
- Debuggers Club
- EFFECT

- **Student Association of Electronics Engineering (SAEE)**
- **ITERON Club**
- **Mechanical Engineering Students' Association (MESA), KK Motor Sports Club**
- **Production Engineering Students' Association (PESA)**
- **ABACUS Club**
- **Management Studies Students' Association (MSSA)**
  - **First Year Engineering Students' Association (FESA)**

Every year, a Student Council is constituted as per the notification issued by the university, under the provisions of section 40 (2) (b) of the Maharashtra Universities Act, 1994 and comprising of following members:

- **Principal**
- **One teaching faculty member nominated by the Principal**
- **National Service Scheme Program Officer**
- **One student from each class, who has shown academic merit at the examination held in the preceding year and who is engaged in fulltime studies in the college, nominated by the Principal.**
- **Director of Sports and Physical Education**
- **One student member from each of the following fields, who has shown outstanding performance, nominated by the Principal,**

  - **Sports**
  - **National Service Scheme (NSS)**
  - **Cultural activities**

Two lady student members nominated by the Principal

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

5.3.3 - Number of sports and cultural events/competitions in which students of the Institution participated during the year (organized by the institution/other institutions)

5.3.3.1 - Number of sports and cultural events/competitions in which students of the Institution participated during the year

2

File Description	Documents
Report of the event	**No File Uploaded**
Upload any additional information	**No File Uploaded**
Number of sports and cultural events/competitions in which students of the Institution participated during the year (organized by the institution/other institutions (Data Template)	[View File](#)

5.4 - Alumni Engagement

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

Yes, the institute has a registered Alumni association (Registration No.: Maharashtra/7828/2003/Nashik Dated: 17/1/2003).

Alumni association of K. K. Wagh College of Engineering, Nashik is registered under the Societies registration act 1860 (29) with effect from 17/1/2003 having registration number Maharashtra/7828/2003/Nashik. The main objectives of alumni association includes promoting and fostering mutually beneficial interaction between thealumni and the present students of Institute and also between the alumnithemselves, encouraging them totake an active part in the work and progress of theInstitute and also to generate funds for students and alumni welfare. The alumni association of K. K. Wagh College of Engineering, Nashik is actively engaged in organizing annual alumni meet, special focus alumni meets, opening new chapters and promoting alumni-faculty interaction through enhancing alumni participation in various events organized by institute/departments, seminars, expert talks etc. During years 2015-2021, the alumni association had organized eleven alumni meets. To increase alumni participation in day to day activities of alumni association, a new governing body is also elected. Online registration facility is made available on the Institute website. The institute effectively networks and collaborates with alumni which have seen a progressive increase in the number of alumni interacting with the students every year.

Role of Alumni in Development of Institute

1. Providing placement assistance to students by conducting campus interviews.
2. Helping students to get projects and in plant training.
3. Providing expert talk/conducting seminars.
4. Providing career guidance to the students.
5. Contribution in syllabus preparation.
6. Sponsorship for various events organized by the Institute.

Guiding students about higher education abroad.

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

5.4.2 - Alumni contribution during the year (INR in Lakhs)	E. <1Lakhs

File Description	Documents
Upload any additional information	No File Uploaded

GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 - Institutional Vision and Leadership

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

The vision and mission of the institute are:

VISION - Empowering Through Quality Technical Education

MISSION - Committed to serve the needs of the society at large by imparting state-of-the-art Engineering education and to provide Knowledge and develop Attitudes, Skills and Values leading to establishment of quality conscious and sustainable research oriented Educational Institute.

The institute is committed for imparting technical education at affordable fees, to

students from society at large. The institute is also committed for rural youth development and women empowerment. The institute is known as a premier institute in engineering education with distinctive characteristics like senior and stable faculty force, continuous upgradation of labs with latest configuration of computers, software and peripherals, rich collection of books and online journal subscriptions, efforts for enhancing overall personality and communication skills and research and consultancy activities. The institute follows ethical practices and encourages Indian culture and value system. Research projects are undertaken by faculty and students for societal problems. The vision and mission of the institute have been developed with the active participation of all faculty members and guidance from experts from various fields. The institute aims at becoming an autonomous institute with courses aligned with industrial needs.

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

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

The management of the institute has two main committees, Governing Body (GB) and College Development Committee (CDC). The role of the GB is to decide the policies for the smooth functioning of the institute. The GB decides the policies and gives directions to the institute for the effective implementation. The organizational structure of the institute is a blend of professional autonomy, individual accountability and well-defined administrative structure. Within this overall framework, faculty members have the operational autonomy in executing their teaching, research, training and consultancy activities.

The institute promotes participative management. The institute constitutes committees for general and academic development which includes faculty, nonteaching staff and students' participation. Involvement and participation is ensured from every segment of the institute in decision making processes. There are three levels of administrative structure under which all the activities

of the institute are carried out.

Society level - The management of the institute is directed by Governing Body, whose members, are appointed in accordance with the guidelines provided by the AICTE.

Institute level – The College Development Committee (CDC) is constituted as per the guidelines provided by Savitribai Phule Pune University (SPPU, Pune). All the main decisions related to the institute are taken by the Principal in consultations with the Head of departments. Principal is the academic and administrative head of the Institute and the Member Secretary of the Governing Body. Five Deans are appointed for Academics, Administration, Research & development, Admissions and Quality Assurance to assist in making policy decisions and smooth execution / monitoring of allied activities.

Department level - The Heads of Department are responsible for the day-to-day administration of the department and report directly to the Principal.

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

6.2 - Strategy Development and Deployment

6.2.1 - The institutional Strategic/ perspective plan is effectively deployed

The head of the institution guides and administers all the activities and plays a leading role in implementation of the stated vision and mission. Strategic Plan has been developed by involving the Heads of all departments and sections. Meetings of all faculty members are regularly conducted for planning and execution of all such activities. Action plan for departments based on academic calendar, vision and mission of the institute and of the departments, co-curricular and extra-curricular activities, is prepared by head of departments in consultation with Principal. All the stakeholders such as students, parents, alumni, industry, employers and professional bodies participate in institutional activities through the feedback mechanism as well as regular contact. The involvement of all stakeholders is ensured for improving the quality of the institution.

Need analysis is done through analysis of stakeholder feedback. The institute policies are constituted to meet the market demands. The stakeholder requirements and industrial needs are taken into account while preparing Strategic Plan and policies. Support required for the execution of these policies in terms of financial, infrastructural and human resources is extended by management.

The institute motivates faculty and students for achieving academic and overall excellence through various activities. In order to achieve this, guest lectures, workshops, student project competitions, paper presentation competitions, technical quiz, industry institute interaction, consultancy activities, R & D activities are carried out which help to achieve the excellence

The institute intents to strengthen the teaching learning process by adopting latest technology for blended learning. To improve the administrative procedures and working, ERP system is implemented in the institute. Student mentoring and counseling is ensured for career development. The institute encourages interdisciplinary events/ activities and projects. Institute has developed good relationship with the industries in the form of joint research, expert lectures and curriculum design.

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

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

All the departments of the institute have departmental committees coordinated by faculty members and monitored by Head of the Department for smooth conduction of academic and administrative activities. The institute has constituted committees as per the norms and also additional committees are constituted for internal coordination and monitoring of the activities.

1. Admission Committee

2. Grievance Redressal Cell

3. Internal Complaint Committee for Women

4. Anti-Ragging Committee

5. Internal Quality Assurance Cell

6. Coordination Committee for Library

7. ERP Committee

8. Website Committee

9. Governing body for Alumni Association

10. Time table Co-ordination Committee

11. Coordination Committee for 'Maffick'

12. Committee for the institute magazine 'Horizon'

13. Sports Committee

14. NSS Committee

15. Dead stock verification Committee

The institute is represented by Principal on various committees at Education Society level as listed below -

1. Finance Committee

2. Purchase Committee

3. Staff Selection Committee

4. Construction and Maintenance Committee

The resolutions related to the policies and plans, made during meetings of Board of directors, Governing body and College Development Committee are communicated to all members of the institute. These are discussed in regular meetings of head of departments and action plans are prepared. The minutes of head of departments meetings are briefed to all the faculty members by the head of each department in regular departmental staff meetings. Further planning is made at the department level for

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effective implementation of policies and plans. Any difficulty in execution is conveyed to higher authorities to fulfil the needs.

The institute has the following mechanisms for better management and improvement in human resource:

· Recruitment of well qualified and experienced faculty as per AICTE/UGC norms

· Promotions as per AICTE/UGC norms

· Training needs are identified for teaching and non-teaching staff and programs by experts are arranged as per the necessity.

· Implementation of staff welfare schemes.

The outcome of performance appraisal reports is used for reviewing the annual progress of staff and for promotion to the next scale/designation. The outcome of performance appraisal is communicated to the faculty by making an appropriate entry in service books.

File Description	Documents
Paste link for additional information	Nil
Link to Organogram of the Institution webpage	Nil
Upload any additional information	No File Uploaded

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)Document	[View File](#)
Screen shots of user interfaces	**No File Uploaded**
Any additional information	**No File Uploaded**
Details of implementation of e-governance in areas of operation, Administration etc (Data Template)	[View File](#)

6.3 - Faculty Empowerment Strategies

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

The following welfare schemes are available for teaching staff –

• Group Insurance Scheme

• Employees Provident Fund

• Gratuity

• EL Encashment

• CL and ML as per rule

• Quarter for Principal

The following welfare schemes are available for non-teaching staff -

• Group Insurance Scheme

• Employees Provident Fund

• Gratuity

• EL Encashment

• CL and ML as per rule

• Workmen compensation facility

- **Quarter for Rector**

- **Uniform for security guards**

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

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

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

48

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

6.3.3 - Number of professional development /administrative training programs organized by the institution for teaching and non-teaching staff during the year

6.3.3.1 - Total number of professional development /administrative training Programmes organized by the institution for teaching and non teaching staff during the year

13

File Description	Documents
Reports of the Human Resource Development Centres (UGCASC or other relevant centres).	**No File Uploaded**
Reports of Academic Staff College or similar centers	**No File Uploaded**
Upload any additional information	**No File Uploaded**
Details of professional development / administrative training Programmes organized by the University for teaching and non teaching staff (Data Template)	View File

6.3.4 - Number of teachers undergoing online/face-to-face Faculty development Programmes (FDP) during the year (Professional Development Programmes, Orientation / Induction Programmes, Refresher Course, Short Term Course etc.)

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

183

File Description	Documents
IQAC report summary	**No File Uploaded**
Reports of the Human Resource Development Centres (UGCASC or other relevant centers)	**No File Uploaded**
Upload any additional information	**No File Uploaded**
Details of teachers attending professional development programmes during the year (Data Template)	View File

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

Performance appraisal of faculty is carried out at three levels:

1) Self-assessment by faculty: Every faculty member submits his performance appraisal form based on academic performance

indicators (API) suggested by UGC, which includes:

a) Teacher Assessment based on his effectiveness for Teaching Learning and Evaluation. Along with other parameters mentioned in Category 1 of Part B in the format of API. Teaching performance is also evaluated with respect to number of lectures/lab sessions planned by a teacher and actual number of lectures/lab sessions conducted by him/her. Teaching quality of a teacher is evaluated not only based on the number of students passed in the subject but also based on the number of students secured First class and First class with Distinction in his/her subject. Teachers are motivated to improve results in their subjects with more number of students in First class and First class with Distinction.

b) Teacher assessment based on his involvement/participation in co-curricular, extension and professional development activities

c) Teacher assessment based on his research contributions in terms of funded projects, publication in high quality journals/conferences, publishing book/book chapters, invited talks, consultancy etc.

2) Evaluation by Head of the Department: The self-appraisal forms are verified by Head of the Department and Principal of the Institute and gap analysis is carried out. The scores are corrected if required. Based on the scores, weakness of the faculty is identified and steps are taken to overcome these weaknesses. Institute also seeks the information from each faculty about his academic goals through following self-appraisal form and appropriate facilities and financial support is offered to him to achieve his goals.

3) Teacher appraisal through student feedback: Teacher's performance is also evaluated through student feedback. The minimum overall rating for a faculty member from the student's feedback should be more than 7 on 10-point scale. Necessary corrective actions are initiated for faculty member scoring less than the institute standard:

- Necessary advice by the Head of the department about handling and monitoring of the class.

Class observation by HOD and senior faculty and providing suggestions to improve teaching/evaluation skills

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

6.4 - Financial Management and Resource Mobilization

6.4.1 - Institution conducts internal and external financial audits regularly Enumerate the various internal and external financial audits carried out during the year with the mechanism for settling audit objections within a maximum of 200 words

The institute ensures an internal and external audit of all its accounts.

The accounts are reviewed internally by the Finance manager for proper utilization and queries, if any, are referred to Principal.

The external audit is done once in a year by external auditors. The last audit was done on 20th October 2021. No major audit objections were raised in the last audit.

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

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

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

0.35

File Description	Documents
Annual statements of accounts	**No File Uploaded**
Any additional information	**No File Uploaded**
Details of Funds / Grants received from of the non-government bodies, individuals, Philanthropers during the year (Data Template)	View File

6.4.3 - Institutional strategies for mobilization of funds and the optimal utilization of resources

The institute adopts a budgeting procedure, with adequate resources for non-recurring expenses, recurring expenses (e.g. salary, faculty development, research, repairs & maintenance, consumables etc.), learning resources (e.g. books, journals, periodicals) and creation of new facilities.

• The institute collects budgetary requirements from all the departments/sections in a prescribed format.

• The head, in consultation with the faculty members, finalize the department requirements and forward them to the Principal for approval.

• The institute budget is then prepared and the proposed budget is sent to the management for further consideration.

• Decision is made in consultation with the Principal to ensure that the requirements stated in the budget are given proper justification. The Governing Body of the institute is the final decision making authority for budgetary approval based on recommendations given by the Principal.

• A standard procedure is followed for procurement.

• Provisions are made for any additional requirement of capital for emergency expenditure.

• The major source of receipts is Tuition Fees and Development fees from the students. Deficit if any is taken care by the Education Society through corpus fund.

• Efforts are made by the institute in securing additional funding through projects sponsored by organizations like DST, AICTE (schemes like MODROB, RPS, Seminar etc.), SPPU-BCUD,

testing and consultancy work and others.

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

6.5 - Internal Quality Assurance System

6.5.1 - Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing the quality assurance strategies and processes

§ Academic Preparation Plan for both semesters for all courses and Use of LearniCo (LMS) for improving real time interactions during online lectures of FE, SE and TE classes (19 Demo sessions),Training Programs conducted for Teachers in 8 sessions for 134 faculty members (March 2020)

§ Framing of four Quality Objectives with clearly defined Action Plans for Quality Parameters to assess Teaching-Learning Process -

1) To improve all clear result of first year Engineering by 10% by avoiding single subject failure of students having 35% to 50% CET score, in the academic year 2020-21. (43 FE Teachers have contributed to the objective)

2) To improve all clear result of second year Engineering by 10% by improving the results of all five subjects of second yearby atleast 5% in the Sem-II of academic year 2020-21 and Sem-I of academic year 2021-22. (41 SE Teachers have contributed to the objective)

3) To improve the quality of teacher-student interactionsin the Sem-II of academic year 2020-21 and Sem-I of academic year 2021-22. (41 SE Teachers. 28 TE Teachers, 78 Project Guides have contributed to the objective.)

4) To improve the quality of experiential learningin the Sem-II of academic year 2020-21 and Sem-I of academic year 2021-22 by ensuring that atleast 25% students of the class solve the challenging / assignments / Variation in experimentations /problem based / Issue based laboratoryassignments. (114 SE,TE,BE Teachers have contributed to the objective)

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

6.5.2 - The institution reviews its teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals through IQAC set up as per norms and recorded the incremental improvement in various activities

§ Teaching feedback once per semester(9-19 March and 9-21 Sept 2020)

§ Student Satisfaction Survey (Once a year from final year students after Project exam) 22 June 2020

§ Stakeholder's feedback (Collection and Compilation from all depts.)

§ Survey of Girl Students and alumni (20 January 2021)

§ Survey for Difficulties faced while attending Online Lectures (20 April 2021)

§ Monthly Monitoring of implementation of action plans of Quality Objectives 1, 2, 3 and 4

§ Faculty Appreciation: Felicitation of 18 first year teachers on 22 May 2021

§ Academic & Administrative Audit for 2019-20 Sem-II, 2020-21 Sem- I and Sem II for11 Departments and 9 Sections (11-30 January 2021, 3-13 August 2021)

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

6.5.3 - Quality assurance initiatives of the institution include: Regular meeting of	B. Any 3 of the above

Internal Quality Assurance Cell (IQAC); Feedback collected, analyzed and used for improvements Collaborative quality initiatives with other institution(s) Participation in NIRF any other quality audit recognized by state, national or international agencies (ISO Certification, NBA)	

File Description	Documents
Paste web link of Annual reports of Institution	**Nil**
Upload e-copies of the accreditations and certifications	**No File Uploaded**
Upload any additional information	**No File Uploaded**
Upload details of Quality assurance initiatives of the institution (Data Template)	View File

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

There are around 35% girl students in the institute. The institute provides equal opportunity to girls and boys students with respect to students' council, participation in committees and extracurricular activities, sports and placements, etc.

Internal Complaint Committee for women is meant to safe guard and promotes wellbeing of all women employee and girl students of the organisation. It takes care of all complaints on sexual harassment of women at workplace and action taken for redressal of complaint. Apart from this cell also organises awareness session, meeting with committee member and seminar for girl students and faculty members of the institute. Information of the cell is displayed at various locations in the campus like library, girls room, hostel etc. The cell always take care of providing appropriate working conditions in respect of work, leisure, health and hygiene to further ensure that there is no hostile environment towards women at work places. The Cell is responsible for looking into any complaints filed by students & staff about Woman Grievances at the college. Any aggrieved woman

may make, in writing, a complaint to the cell. The cell provides a platform for listening to complaints and safeguard the rights of female students, faculty and staff members of women. The cell arranges expert session on health and knowledge regarding legal rights and redressal of their grievances. Through the activities of this cell women empowerment is achieved.

The Internal Complaint Committee for Women has representative from all the departments and awareness about the committee and its functions is made during the first year induction program. The campus is safe and secured and is under CCTV surveillance. Separate Rest room for girls students and lady staff members is available in the Institute.

Separate Sports/ cultural events are arranged for girl students each year.

A seminar on 'How to build confidence and leadership skills' by Dr.Surbhi Desai, Extentia Technologies, Pune was organized on 17th Dec. 2020. A panel discussion on : Explore the mind and heart of a Champion was organized on Women's day 8th March 2021. The panel comprised of five girl students who had significant achievements in different sports. A cricket match of lady faculty members was also arranged on the same day.

File Description	Documents
Annual gender sensitization action plan	Nil
Specific facilities provided for women in terms of: a. Safety and security b. Counseling c. Common Rooms d. Day care center for young children e. Any other relevant information	Nil

7.1.2 - The Institution has facilities for alternate sources of energy and energy conservation measures Solar energy Biogas plant Wheeling to the Grid Sensor-based energy conservation Use of LED bulbs/ power efficient equipment	B. Any 3 of the above

File Description	Documents
Geo tagged Photographs	No File Uploaded
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 200 words) Solid waste management Liquid waste management Biomedical waste management E-waste management Waste recycling system Hazardous chemicals and radioactive waste management

Various initiatives are taken by the institute for degradable and non-degradable waste. Few are listed below-

- **Huge plantation and greenery has reduced CO2 level considerably.**
- **Solid waste is taken care by dispatching it for composting.**
- **Septic tanks are provided for each building to take care of liquid waste.**

- **Hazardous waste is handled carefully and disposed safely.**
- **Batteries are replaced regularly after expiry of their useful life**

- **Electronics gadgets, circuits, kits have been written off on regular basis and then it is sold out to buyers by auctioning.**
- **All the miscellaneous e-waste from every department is delivered for safe disposal.**

File Description	Documents
Relevant documents like agreements/MoUs with Government and other approved agencies	No File Uploaded
Geo tagged photographs of the facilities	Nil
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	B. Any 3 of the above

File Description	Documents
Geo tagged photographs / videos of the facilities	No File Uploaded
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: 1. Restricted entry of automobiles 2. Use of Bicycles/ Battery powered vehicles 3. Pedestrian Friendly pathways 4. Ban on use of Plastic 5. landscaping with trees and plants	A. Any 4 or All of the above

File Description	Documents
Geo tagged photos / videos of the facilities	No File Uploaded
Any other relevant documents	No File Uploaded

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

7.1.6.1 - The institutional environment and energy initiatives 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	A. Any 4 or all of the above

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

7.1.7 - The Institution has disabled-friendly,	A. Any 4 or all of the above

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

File Description	Documents
Geo tagged photographs / videos of the facilities	**No File Uploaded**
Policy documents and information brochures on the support to be provided	**No File Uploaded**
Details of the Software procured for providing the 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 socioeconomic and other diversities (within 200 words).

- **Induction Programme at institute level is conducted for the students admitted in first/second year and their parents for each branch to help them understand the engineering curriculum and evaluation process.**

- **A class co-ordinator appointed for each class collects and analyzes the attendance in each subject at the end of every month. Result analysis for the university examinations is carried out after every semester. Based on the result analysis students having failure in more than three subjects and are at the risk of drop out are identified.**

- **Mentor assigned for the group of students regularly does the counseling regarding their academic progress, poor attendance. Feedback received from the students and the discussions carried out during counseling gives an indication of poorly performing students who are probably at the risk of drop out.**

- **The students from the disadvantaged sections of society, physically challenged, economically weaker sections are also identified.**
- **Student section creates awareness and provides all necessary information regarding various scholarships and social welfare schemes available to the students.**
- **The institute has EARN and LEARN scheme for the students from economically weaker section.**
- **The minority cell helps the students from minority communities to avail scholarships provided by the government.**
- **Book Bank facility is provided to reserved category students.**
- **Special Programmes for enhancement of communication skills are arranged for SC/ST students under the AICTE SPDC Scheme.**
- **The institute permits payment of fees in installment from the students of economically weaker sections.**
- **The NSS volunteers conduct various social activities and environment protection drives in the city and nearby villages as a part of their NSS activities.**
- **National Education Day - Birth anniversary of Maulana Abdul Kalam Azad was celebrated as National Education Day.**
- **Parakram Din- Netaji Subhash Chandra Bose Jayanti was celebrated.**

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

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

- **The institute is providing engineering graduates to the society. The engineers are expected to know the strengths and weaknesses of society and identify the opportunities and challenges involved in doing major reforms required to build a better society.**
- **The objectives of the extension activities organized by the institute are to sensitize students on critical issues concerned with society and environment such as poverty, social injustice, gender bias, pollution evils. Through**

these activities, the students are made aware of their roles to be played in the society. Such extension activities help students to groom their personalities and make them ready to participate in the Nation building process.

- NSS, Prayas and Swapnapurti foundation units provide a platform to understand moral, ethical and social values, to develop leadership quality, to work in a team and to boost overall confidence of the students.

A course on Humanity and Social Science enable students to explore aspects of human society and to develop characteristics that encourage personal fulfillment, meaningful professional life and responsible citizenship.

Audit courses like Code of Conduct & Moral Values, Human Values & Professional Ethics recognize and evaluate ethical challenges that students may face in their professional careers and build their decision making skills in such challenging scenarios.

NSS Unit of the Institute celebrated Voter's Day on 25 January 2020 and National Unity Day on 31 October 2020

File Description	Documents
Details of activities that inculcate values; necessary to render students in to responsible citizens	No File Uploaded
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 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 4. Annual awareness programmes on Code of Conduct are organized	A. All of the above

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

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

- **National Education Day - Birth anniversary of Maulana Abdul Kalam Azad was celebrated as National Education Day.**
- **Parakram Din- Netaji Subhash Chandra Bose Jayanti was celebrated.**
- **NSS Unit of the Institute celebrated Voter's Day on 25 January 2020 and National Unity Day on 31 October 2020**
- **Independence day and Republic day is celebrated with full honour and employees/students who have contributed for social cause are felicitated.**
- **Teacher's day and Engineer's day is celebrated every year to remember the contributions of Dr. S. Radhakrishnan and Sir M. Visveswaraya respectively. Teachers are felicitated on these days for their dedicated service as Engineer and Teacher.**

File Description	Documents
Annual report of the celebrations and commemorative events for the last (During the year)	**No File Uploaded**
Geo tagged photographs of some of the events	**No File Uploaded**
Any other relevant information	**No File Uploaded**

7.2 - Best Practices

7.2.1 - Describe two best practices successfully implemented by the Institution as per NAAC format provided in the Manual.

1. Title of the Practice I : Student Centered Teaching & Learning

2. Objectives of the Practice:

- To enhance teaching learning process in Engineering Education.
- To adopt innovative teaching methodologies.
- To promote use of ICT in teaching learning process.

3. The Context

In any formal educational system, classroom teaching happens to be an inevitable somewhat irreplaceable component of the teaching-learning process. The classroom time is the dedicated time, during which students are expected to be actively engaged. Effective learning can only be ensured if the students understand and apply the knowledge sought in the classroom through teaching and other learning activities.

In an attempt to enable students to absorb and understand concepts thoroughly, the classroom environment should be conducive for mutual interactions between students and teachers. Learning in classrooms improves significantly if there are meaningful interactions between inquisitive learners and experienced teachers. Such meaningful interactions can systematically be introduced during teaching with the help of ICT tools and innovative teaching methodologies.

4. The Practice

- Use of ICT Tools -
    - MKCL LearniCo (SuperCampus) - It is an ICT tool which allows a teacher to immediately pose questions based on the concepts taught during a lecture. Students can individually answer this question through a mobile application. Teacher can assess the understanding of the students based on the correctness level of all collected answers. The use of this tool was incorporated in the teaching of all the UG / PG subjects during online lectures. Teachers of these classes prepared topic wise question banks to be used during lectures.
    - Use of other ICT tools like Google Classroom, Edmodo, Youtube channels, Technical Blogs, ERP.

- Use of other Innovative Teaching Methodologies – Teachers are using suitable innovative teaching method like Cross word activity, One Minute Paper, Think Pair Share, Blended Learning, Team-pair-solo Strategy, Role Play etc.

5. Evidence of Success

- Over the period of time there is a significant improvement in creativity and the quality of teaching.
- Significant improvement in student participation.
- Gradual improvement in student learning.
- Improved Results in University Examination.

6. Problems Encountered and Resources Required

Problems Encountered

- Familiarity of the tools and their proper usage during lectures.
- Some of the problems faced by students during online learning were connectivity issues, availability of Android mobile sets, power cut and heating of electronic devices etc.
- Due to COVID pandemic lockdown from 16th March 2020, regular lectures and practicals were suspended. The institute incorporated use of various online platforms for completion of syllabus, assessment and submissions. Details of the activities done during the lockdown period are as follows -

  - Number of Online lectures conducted - 27100
  - Number of Videos prepared by teachers - 3175
  - Number of study material (PDF, PPTs etc) - 2750 (LearniCo)
  - Number of online assignments provided on ERP/Google Classroom - 2886
  - No. of Youtube Video Links shared -8191
  - No. of LearniCo sessions conducted – 2193

Eighteen First Year Engg. teachers - Prof.Dr. Ganesh Dabhade, Prof.Snehal Joshi, Prof.Sagar Shinde, Prof.Suman Kahandal, Prof.Monali Kshirsagar, Prof.Abhijit Pawar, Prof.Jagruti Nikam, Prof.Apurv Vaidya, Prof.Avina Dhangare, Prof.Sagar Zalte, Prof.Shraddha Shelke, Prof.Pankaj Ranade, Prof.Sayli Gokhale, Prof.Shyam Gade, Prof.Madhuri Shinde, Prof.Suruchi Malao,

Prof.Nayana Jangle and Prof.Ganesh Jadhav were felicitated for effective use of ICT tools including LearniCo.

Resources Required

- Computer System, LCD Projector, Wifi Devices in each classroom
- Appropriate Software and ICT tools

1. Title of the Practice II : Service Learning through Volunteering and Internships

2. Goals

- To work closely with the industry to understand new or improved products, techniques, processes, systems or services.
- To create awareness about social needs and real life problems.
- To develop transferable and life skills through service learning.

3. The Context

Typically, an Engineering graduate lacks confidence and experience while applying his/her knowledge. The best experience comes from internships by observing working life from different perspectives. An internship provides an opportunity to understand the role, the task and the industry. One can learn by watching and working closely with experienced people on projects. Internships help students to build confidence through practice thereby promoting personal growth. Internship allows students to get a feel for different industries in a small period of time.

Voluntary social activities allow students to understand various social issues and inspire them to contribute for social needs. In doing so, they need to communicate and interact with the people of different sections of the society.

Internships and Voluntary services thus provide an opportunity for development of communication skills, team work, professional skills and abilities.

4. The Practice

- Students are allowed to undergo internships in industries of their choice, typically either in their second/third/final year of graduation during vacations. At the end of the internship, students submit a report of the work done in the industry.
- NSS organizes two types of activities, regular activities at institute level and special camp of seven days at nearby villages. Regular activities include blood donation camps, tree plantation, health check-up camps, road safety and social awareness programmes. The renowned social workers and activists guide the students in the camp. The special camp in villages, help students to understand the rural life, problems of villagers and to provide probable engineering solutions.
- NSS volunteers (250) are encouraged to participate in inter collegiate, state level and national level activities.
- The institute is associated with two NGOs 'PRAYAS' and 'SWAPNAPURTI'.
- 5. Evidence of Success

- 220 students have undergone Internships in 2020-21. Department wise count of internships is as follows –

    - UG Chemical Engg -5
    - UG Civil Engg -17
    - UG Computerl Engg -52
    - UG E&TC Engg -20
    - UG Electronics Engg -2
    - UG Electrical Engg -22
    - UG IT Engg -12
    - UG Mechanical Engg -7
    - UG Production Engg. -3
    - MCA -23
    - MBA -57

- 1678 students have participated in 13 NSS activities in 2020-21.
- Several socially relevant projects were undertaken by students.

6. Problems Encountered and Resources Required

Problems Encountered

- Identification of suitable industries for relevant internship for around 700 students.
- Managing NSS unit of 250 students and NSS camp in village.
- Finding suitable time slot for internship as per the requirements of industries.

Resources Required

- Logistics and travel support for social activities.

File Description	Documents
Best practices in the Institutional web site	[View File](View_File)
Any other relevant information	No File Uploaded

7.3 - Institutional Distinctiveness

7.3.1 - Portray the performance of the Institution in one area distinctive to its priority and thrust within 200 words

The institute is known as a premier institute in engineering education with distinctive characteristics like senior and stable faculty force, continuous upgradation of labs with latest configuration of computers, software and peripherals, rich collection of books and online journal subscriptions, efforts for enhancing overall personality and communication skills and research and consultancy activities. The institute follows ethical practices and encourages Indian culture and value system. Research projects are undertaken by faculty and students for societal problems.

The institute is permanently affiliated to Savitribai Phule Pune University. Most of the programmes offered by the institute have been accredited by NBA, AICTE, New Delhi. In year 2003, six programmes and in year 2012, five programmes were accredited respectively. The Institute has been accredited by NAAC with grade A in 2018. Eight programmes have been accredited by NBA in

2019. Mechanical Engg. programme has applied for NBA re-accreditation in 2019. Institute has applied for Autonomy to UGC in 2019.

The institute has been recognised by NIRF (Ranked 9th in Maharashtra state and 85th in India) in year 2016. The institute was placed in Platinum Category (highest) through joint survey by AICTE-CII in 2016, 2018, 2019, 2020 and Gold Category in 2017. The institute was placed at 11th position among Engineering Colleges of Maharashtra in the Digital Learning Survey for Top engineering institute ranking 2020 with AAAA+ Rating.

The institute has been ranked 5th in state and 142nd at national level in the survey conducted by EDU-RAND in Nov. 2014. This was an internet based survey and colleges were ranked on the basis of accreditation score, faculty qualifications, research productivity, fill rate and placement score.

The strengths of the institute therefore are –

- Good quality of students
- Significant number of University rank holders
- Well qualified and experienced staff members dedicated to quality improvement
- Excellent teaching learning environment
- Rich collection of books and digital library access in central library
- State of the art laboratories and infrastructure
- Efficient training and placement cell
- State of the art sports facilities and gymnasium
- Conducive environment for overall development of students
- Strong presence of alumni in industry at national and international level
- MoUs with industry for overall development of students
- Clean and eco friendly green campus
- Recognition from various accreditation agencies

Hence, the institute aims at becoming an autonomous institute with courses aligned with industrial and societal needs.

File Description	Documents
Appropriate web in the Institutional website	**No File Uploaded**
Any other relevant information	**No File Uploaded**

7.3.2 - Plan of action for the next academic year

- **Planning & Preparation for UGC Autonomy Visit.**
- **Planning & Preparation for NBA visit of Mechanical Engg.**
- **Strengthening Alumni Network.**
- **Strengthening Industry-Institute Interaction.**
- **Planning for Social Activities by NSS and NGOs Prayas and Swapnapurti Foundation**
- **Development of Innovation Center and IDEA Lab in the campus.**
- **Submitting research proposals / research papers.**