

Annual Quality Assurance Report (AQAR) (1st July 2019 to 30th June 2020)

Submitted to



राष्ट्रीय मूल्यांकन एवं प्रत्यायन परिषद

विश्वविद्यालय अनुदान आयोग का स्वायत्त संस्थान

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

An Autonomous Institution of the University Grants Commission

P. O. Box. No. 1075, Opp: NLSIU, Nagarbhavi, **Bengaluru - 560 072**, India



Karmaveer Kakasaheb Wagh Education Society's

**K. K. WAGH INSTITUTE OF
ENGINEERING EDUCATION AND RESEARCH, NASHIK**

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The Annual Quality Assurance Report (AOAR) of the IOAC
(For Affiliated/Constituent Colleges)

Part – A

Data of the Institution

(data may be captured from IQA)

1. Name of the Institution : K. K. Wagh Institute of Engineering Education & Research, Nashik

- Name of the Head of the institution : Prof. Dr. Keshav N. Nandurkar
- Designation: Principal
- Does the institution function from own campus: YES
- Phone no./Alternate phone no.: 0253-2221302 / 2221301
- Mobile no.: 9922325472
- Registered e-mail: principal-engg@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:

- Affiliated / Constituent: Affiliated
- Type of Institution: Co-education/Men/Women: Co-education
- Location : Rural/Semi-urban/Urban: Urban
- Financial Status: Grants-in aid/ UGC 2f and 12 (B)/ Self financing: Self financing
(However listed under UGC 2f and 12 (B))
- Name of the Affiliating University: Savitribai Phule Pune University, Pune
- Name of the IQAC Co-ordinator : Prof. Mrs. Tanuja N. Date
- Phone no. : 0253-2221217
- Alternate phone no.:

- Mobile: : 9850832871
- IQAC e-mail address: iqac_engg@kkwagh.edu.in
- Alternate Email address: tndate@kkwagh.edu.in

3. Website address:

Web-link of the AQAR: (Previous Academic Year): First AQAR of 2018-19
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: YES

Weblink: https://engg.kkwagh.edu.in/academic_calender

5. Accreditation Details:

Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1 st	A	3.03	2018	From : 26 th Sept.2018 to : 25 th Sept. 2023

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

7. Internal Quality Assurance System

7.1 Quality initiatives by IQAC during the year for promoting quality culture		
Item /Title of the quality initiative by IQAC	Date & duration	Number of participants/beneficiaries
New IQAC team formation for July 2019 to June 2021	29/06/2019	As per new guidelines Employer, Industry representatives, Alumni, Parent, Student along with Teachers from all cadres are now included.
EndSem Teachers' Feedback for all courses (Sem I) Theory and Practical	09/09/2019 – 21/09/2019	Students of all classes
EndSem Technical Assistant Feedback for all courses (Sem I)	09/09/2019 – 21/09/2019	Students of all classes
Academic and Administrative Audit (Sem I)	Nov-Dec 2019	11 Departments and 9 Support sections
Online Submission of Annual Quality Assurance Report for Academic year 2018-19 on NAAC Portal	26/12/2019	-----
IQAC Meetings (01)	24/01/2020	18 members attended
MKCL Super Campus Implementation for all classes	July 2019 – Mar 2020	All teachers and All students
FDP for Teaching Learning Enhancement by Prof. Claire Komives, San Jose State University, California, USA	02 to 04/03/2020	39 teachers

FDP for Research Promotion by Prof. Claire Komives, San Jose State University, California, USA	5,6/03/2020	32 teachers
EndSem Teachers' Feedback for all courses (Sem II)	9 to 19/03/2020	Students of all classes
EndSem Technical Assistant Feedback for all courses (Sem II)	9 to 19/03/2020	Students of all classes
FDP on ICT tools for Collaboration (Online)	1-2/06/ 2020	215
Student Satisfaction Survey	22/06/ 2020	Final year students of all departments
Workshop on Design Thinking (Online) by Mr. Basavaraj Hooli, Founder Director, Graceful Growth Consulting, India.	17,18,20/07/2020	142 teachers
Coursera certifications for Enhancing Communication Skills (Online)	May-June 2020	All Non-teaching staff
NBA committee visit	16-18/08/2019	Chemical, Computer, Production, E&TC, Electrical
NBA committee visit	11-13/10/2019	MCA, Civil & Electronics
Participation in AICTE-CII Survey 2019	21/11//2019	Platinum Level
NIRF Participation	24/11/2019	-----
Participation in ATAL ARIIA Ranking of Institutions on Innovation Achievements (Institute ID: ARI-C-41256)	2019-20	-----
Digital Learning Survey :Top engineering institute ranking 2020	August 2020	AAAA+ Rating Placed at 11 th position among Engineering Colleges of Maharashtra.
Planning and Conduction of Certificate Courses at Department level	2019-20	522 students (8 courses)
Planning and Conduction of Value Added Courses at Department level	2019-20	320 students (3 courses)
Application for NBA of one Department	18/11/2019 (Prequalifier) 20/01/2020(SAR)	Mechanical Engg.

8. Provide the list of funds by Central/ State Government-

UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.

Institution/ Department/Faculty	Scheme	Funding agency	Year of award with duration	Amount
E&TC Engg Dr.S.A.Patil & Dr.D.M.Chandwadkar	Technology Pilot for Electric Mobility (DHI- DST), Govt of India	DHI Govt. of India	2018 2 years	1,50,81,000
Institute	SPDC	AICTE	2020	16,64,586

Prof.S.S.Munot			3 years	
E&TC Engg Dr.D.M.Chandwadkar	MODROB	AICTE	2020 2 years	10,62,353
Dr.B.E.Kushare Electrical Engg	STTP (AQIS)	AICTE	2019 1 year	3,03,333

9. Whether composition of IQAC as per latest NAAC guidelines: YES

*upload latest notification of formation of IQAC : <https://engg.kkwagh.edu.in/iqac>

10. No. of IQAC meetings held during the year: 01

The minutes of IQAC meeting and compliance to the decisions have been uploaded on the institutional website.....YES

(Please upload, minutes of meetings and action taken report) -

https://engg.kkwagh.edu.in/iqac_detail/index/154

11. Whether IQAC received funding from any of the funding agency to support its activities during the year? NO

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

- Academic and Administrative audit
- Feedback collection from all Stakeholders and Analysis
- Student satisfaction survey
- MKCL SuperCampus Implementation for improvement in teaching-learning
- Training Programmes for Teaching faculty and Non-teaching staff.

13. 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.MKCL Super Campus Implementation for all classes 2.FDP for Teaching Learning Enhancement 3.FDP for Research Promotion 4.Workshop on Design Thinking
Feedback Collection and Analysis	1.EndSem Teacher Feedback for all Courses 2. EndSem Technical Assistant Feedback for all courses 3. Student Satisfaction Survey
Application for NBA	1. NBA accredited 8 Engineering Departments in 2019-20 2.Mechanical Department has applied for NBA Committee Visit is awaited.
Academic Administrative Audit	Academic Administrative Audit (AAA) for Sem-I
Participation in Nationwide Ranking Survey	1.Platinum Institute Award in India through joint survey by AICTE-CII in 2019. 2.Participation in NIRF 3. Participation in ATAL ARIIA Ranking of Institutions on Innovation Achievements (Institute

	ID: ARI-C-41256)
Planning and Conduction of Certificate Courses at Department level	522 students certified in 8 courses
Planning and Conduction of Value Added Courses at Department level	320 students participated in 3 courses

14. Whether the AQAR was placed before statutory body? YES

Name of the Statutory body: College Development Committee

Date of meeting(s): 05/11/2020

15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning?

YES (2 NBA visits)

Date: 1) NBA Visit: 16th to 18th Aug.2019

2) NBA Visit: 11th to 13th Oct. 2019

16. Whether institutional data submitted to AISHE: YES

Year: 2019-20

Date of Submission:11/01/2020

17. Does the Institution have Management Information System? YES

If yes, give a brief description and a list of modules currently operational.
(Maximum 500 words)

The institute intends 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. Information regarding student attendance, class conduction as well as staff activity record is available for monitoring. The ERP system also aids in effective administration of various activities like admissions, student information, salary and accounts, leave management, staff profiles, online examination, feedback collection, Academic Monitoring module etc. Online Fee collection module is operational since June 2020. Uploading of Assignments, notes, study material, sending emails to students, teachers & parents and dashboard to see the completion status of activity is available through the ERP system.

Part-B

CRITERION I – CURRICULAR ASPECTS				
1.1 Curriculum Planning and Implementation				
1.1.1 Institution has the mechanism for well planned curriculum delivery and documentation. Explain in 500 words				
<ul style="list-style-type: none"> • 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. • 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. 				
1.1.2 Certificate/ Diploma Courses introduced during the Academic year				
Name of the Certificate Course	Name of the Diploma Courses	Date of introduction and duration	Focus on employability/ entrepreneurship	Skill development
Industrial Training Program by PCRA on Importance of Energy Conservation (Chemical)	Nil	09/08/2019	Employability	Skill development
Hands on Training on AutoCAD software (Chemical)	Nil	08/09/2019 to 10/09/2019	Employability	Skill development
Hands on Training on AutoCAD software (Chemical)	Nil	30/09/2019 to 02/10/2019	Employability	Skill development
Problem solving using Python (Computer)	Nil	11/01/2020 (30 Hrs)	Employability	Programming Skills from Industry Perspective
PLC & SCADA for Industrial Automation (Electrical)	-	15/09/2019 to 19/09/2019	Employability	Skill development

PLC & SCADA for Industrial Automation (Electrical)	-	19/09/2019 to 23/09/2019	Employability	Skill development	
Basics of Python (IT)	Nil	09/09/2019 to 4/10/2019	Employability	Programming Skills from Industry Perspective	
Deep Learning using Python (IT)	Nil	14/02/2020 to 16/02/2020	Employability	Programming Skills from Industry Perspective	
Advanced Excel (MBA)	Nil	20/09/2019 to 21/09/2019	Employability	Skill development	
1.2 Academic Flexibility					
1.2.1 New programmes/courses introduced during the Academic year					
Programme with Code	Date of Introduction	Course with Code	Date of Introduction		
Nil	Nil	FE - 101007 - Audit Course 1 (Environmental studies-I)	05/07/2019		
Nil	Nil	FE - 101014 - Audit Course 2 (Environmental studies-II)	05/07/2019		
		FE- 110013 - Project Based Learning	05/07/2019		
Nil	Nil	FYMCA- 310909 – Audit Course - 1: AC1-I Humanities and Social Sciences AC1-II Road Safety	13/08/2019		
Nil	Nil	FYMCA- 310919- Audit Course - 2: AC2-I Foreign Language AC2-II Environmental Studies	7/01/2020		
1.2.2 Programmes in which Choice Based Credit System (CBCS)/Elective course system implemented at the affiliated Colleges (if applicable) during the Academic year.					
Name of Programmes adopting CBCS	UG	PG	Date of implementation of CBCS / Elective Course System	UG	PG
<p>Already adopted (mention the year)</p> <p>First Year of all UG Engg. Programmes - 15/06/2015</p> <p>Second Year of all UG Engg. Programmes - 15/06/2016</p> <p>Third Year of all UG Engg. Programmes - 15/06/2017</p> <p>Final Year of all UG Engg. Programmes - 15/06/2018</p> <p>MCA – 2013</p> <p>MBA – 2013</p> <p>ME – 2008</p>					
1.2.3 Students enrolled in Certificate/ Diploma Courses introduced during the year					
	Certificate			Diploma Courses	
No of Students	139 (Industrial Training Program by PCRA on Importance of Energy Conservation)			NIL	

	44 (Hands on Training on AutoCAD software)	
	32 (Hands on Training on AutoCAD software)	
	35(Problem solving using Python)	
	139 (PLC & SCADA for Industrial Automation (Conducted twice)	
	64 (Basics of Python)	
	18 (Deep Learning using Python)	
	51(Advanced Excel)	

1.3 Curriculum Enrichment

1.3.1 Value-added courses imparting transferable and life skills offered during the year

Value added courses	Date of introduction	Number of students enrolled
STAAD Pro (Civil)	27/08/2019	136
Hands on training of Remote Sensing GIS (Civil)	20/01/2020	139
Soft Skills Development (IT)	17/12/2029 (10days)	45
Crash Course on C Programming (Production)	30/08/2019	23
Excel for Engineers (Production)	6/01/2020	25

1.3.2 Field Projects / Internships under taken during the year

Project/Programme Title	No. of students enrolled for Field Projects / Internships
Internship in Civil Engg	02
Internships in Computer Engg.	62
Internships in E&TC Engg.	21
Internships in Electronics Engg.	02
Internships in Electrical Engg.	02
Internships in IT Engg.	12
Internships in Mechanical Engg.	47
Internships in Production Engg.	17
Internships in MCA	42
Project (Civil Engg.) - Design & Analysis of Ferrocement Angle for Agricultural Farms	04
Project (Civil Engg.) - Assessment of Water Quality at Ramkund, Nashik	04
Project (Civil Engg.) - Common Lapsas in CC Paving	04
Project (Civil Engg.) - Ground Water Availability & Improvement Techniques	04
Project (Computer Engg.) Beauty Parlor Management	04
Project (Computer Engg.) Boutique Management software	04
Project (Computer Engg.) TNP Services and support	04
Project (Computer Engg.) Inventory Management and Analytical System	04
Project (Computer Engg.) online selling software	04
Project (Computer Engg.) Order prediction	03
Project (Computer Engg.) Business Management System	04
Project (Computer Engg.) Attendance system using facial recognition	04
Project (Computer Engg.) Website development using python	04
Project (Computer Engg.) Handwritten Text Recognition System	04

Project (Computer Engg.) Attendance system using face recognition in Hospital	04
Project (Computer Engg.) Store Management System and Data Analysis	03
Project (Computer Engg.) Hotel Management System	04
Project (Electrical Engg.) Tumbler control using PLC	04
Project (Electrical Engg.) PLC based pipe bending	04
Project (Electrical Engg.) Design, Estimation, Installation, Interfacing of Solar PV with grid and study the related issues	03
Project (Electrical Engg.) To design high accuracy	04
Project (Electrical Engg.) Three phase industrial panel design and manufacturing , panel testing as per IS standards	04
Project (Electrical Engg.) Smart RFID Access system	04
Project (Electrical Engg.) Condition monitoring of GIS switch-gears using voltage sensors	04
Project (Electrical Engg.) Integration of standalone coolant tank with CNC machine	04
Project (Electrical Engg.) Automation of CT PT Testing Panle for Gargi Transformer Pvt. Ltd.	04
Project (E&TC Engg.) - SMD Component Counter	03
Project (E&TC Engg.) - Cow Shading Automation using Renesas PLC	03
Project (E&TC Engg.) - Single- Zone Ferrous Mobile Detector	03
Project (Electronics Engg.)- Garbage Collection System	03
Project (Mechanical Engg.) Sizing of solar photovoltaic panel on the economical and technological basis	04
Project (Mechanical Engg.) Brake system for Baja SAE 2020 by using balancing bar	04
Project (Mechanical Engg.) Design and manufacturing of wall painting m/c	04
Project (Mechanical Engg.) synthesis of Fuel extraction from waste plastic	04
Project (Mechanical Engg.) Design and Manufacturing of SPM for Burr Removing process of internal ring gear	03
Project (Mechanical Engg.) Design and manufacturing of helmet cooling system	04
Project (Mechanical Engg.) Design and Development of SPM for Flaring operation	04
Project (Mechanical Engg.) Design analysis and modification in suspension system	02
Project (Mechanical Engg.) Application of PROCCELLA	04
Project (Mechanical Engg.) Design and development of an automized fixture for inserting a critical module assembly inside the ring main unit RMU product	04
Project (Mechanical Engg.) Numerical Control pipe bending machine	04
Project (Mechanical Engg.) Mulching paper hole maker	04
Project (Mechanical Engg.) Loading interruption in chamfer grinding	04

Project (Mechanical Engg.) Torsional Testing Machine	04
Project (Mechanical Engg.) Design and Manufacturing of SPM for Notching of pipes for Team param	04
Project (Mechanical Engg.) Design and modification of fixture for knuckle and stub axle assembly	03
Project (Mechanical Engg.) Design of broaching machine	04
Project (Mechanical Engg.) Pneumatic series coupler for belt conveyor extension	04
Project (Mechanical Engg.) Thermal Corrosion Test Chamber	04
Project (Mechanical Engg.) Bending moment test system for verifying the cantilever strength of lightning arresters	04
Project (Mechanical Engg.) Design Process development for utilization of industrial copper scrap to manufacture flexible PCB	04
Project (Mechanical Engg.) Design and manufacturing of die	04
Project (Mechanical Engg.) Designing and manufacturing of special purpose machine for institute carpentry shop	04
Project (Mechanical Engg.) Development of conveyer system in CEAT Ltd., Satpur	04
Project (Mechanical Engg.) Tribological investigation of piston ring and cylinder liner material with the use of nano lubricants	04
Project (Mechanical Engg.) Manufacturing of Auto feed drilling machine	04
Project (Mechanical Engg.) Retrofitting of scooter using electric power source	04
Project (Mechanical Engg.) Design and fabrication of sheet metal roller bending machine	03
Project (Mechanical Engg.) Development of SPM for weight control of connecting rod	04
Project (Mechanical Engg.) Design and development of swappable lithium ion battery pack to meet AIS-408	04
Project (Mechanical Engg.) Design and development of portable pneumatic staircase for railway boogie	04
Project (Mechanical Engg.) Designing and manufacturing of spindle and its power train for drilling machine	03
Project (Mechanical Engg.) Over steer prevention system in automobile	04
Project (Mechanical Engg.) Design and Manufacturing of staircase climber trolley	04
Project (Mechanical Engg.) Implementation of DMAIC methodology in green sand casting	04
Project (Mechanical Engg.) Quality improvement of closing latch using six sigma technique	04
Project (Mechanical Engg.) Design and manufacturing of de-oiling machine	04
Project (Mechanical Engg.) Consumable cost reduction for Divinol Oil & hydro mechanism slurry	02
Project (Mechanical Engg.) Advancement in Go-Kart Vehicle	03
Project (Mechanical Engg.) Pokayoke for missing of child parts	04

& OK stamping on Part of a pillar				
Project (Mechanical Engg.) Advancement in Go-Kart Vehicle	03			
Project (Mechanical Engg.) Process Parameter Optimization of 3D Printing by Taguchi Design of Experiment.	03			
Project (Mechanical Engg.) Effect of Nozzle Length on Heat Transfer Characteristics of circular jet impinging on a flat surface	02			
Project (Mechanical Engg.) Design and Development of Smart Electric Power train for Auto Rickshaw	04			
Project (Mechanical Engg.) Design, Analysis & Manufacturing of semi automatic plastic part cutting machine	04			
Project (Mechanical Engg.) Ethanol production from agricultural waste	04			
Project (Mechanical Engg.) Semi automatic prototype for measuring the inner diameter.	03			
Project (Mechanical Engg.) Design of Overhead crane for loading of spool on the rack	04			
Project (Mechanical Engg.) Design & Modification of transmission system in an Electric Vehicle	04			
Project (Mechanical Engg.) Design and Development of Air Cooler for Humidity Control	04			
Project (Mechanical Engg.) Quantification of retained austenite and residual stresses in thermo-mechanically treated 50Cr-Mo4 Steel	04			
Project (Mechanical Engg.) Vibration analysis & fault diagnosis of rotary element of an internal grinding machine	03			
Project (Mechanical Engg.) Switch operated gear shifter for Go-kart vehicle	04			
Project (Mechanical Engg.) Design & Manufacturing of semi-automated SPM for panel box stud welding	04			
Project (Mechanical Engg.) Design & analysis of a hydraulic lift for service station	03			
Project (Mechanical Engg.) Design & implementation of pick and place robotic arm with specific position	04			
Project (Mechanical Engg.) Effect of perforation and surface texture on performance of circular pin fins	02			
Summer Internship Project in MBA	59			
1.4 Feedback System				
1.4.1 Whether structured feedback received from all the stakeholders.				
1) Students	2) Teachers	3) Employers	4) Alumni	5) Parents
Yes	Yes	Yes	Yes	Yes
1.4.2 How the feedback obtained is being analyzed and utilized for overall development of the Institution? (maximum 500 words)				
<ul style="list-style-type: none"> The institute has formal mechanism to obtain feedback from its stakeholders. The suggestions are invited from alumni regarding the present contents of the curriculum based on their experience in industry. 				

- The programme exit survey is conducted to assess the attainment of programme outcomes.
- The employer's feedback is used to identify the areas of improvement and the gap between the institute and industry.
- The summary based on the feedback is communicated to the university through members of BOS and used for the revision of syllabus.
- Student satisfaction survey is conducted for all final year students and analyzed. It is used for improvement in student services.

CRITERION II -TEACHING -LEARNING AND EVALUATION

2.1 Student Enrolment and Profile

2.1.1 Demand Ratio during the year

Name of the Programme	Number of seats available	Number of applications received	Students Enrolled
UG Chemical Engg.	60	Data not available as the admissions are carried out by Govt. of Maharashtra (For CAP through admission)	57
UG Civil Engg.(First Shift)	60		59
UG Civil Engg. (Second Shift)	60		56
PG Civil Engg.	18		14
UG Computer Engg.	120		138
PG Computer Engg.	18		00
UG Electrical Engg. (First Shift)	60		59
UG Electrical Engg (Second Shift)	60		50
PG Electrical Engg (Power Systems)	18		06
UG E &TC Engg	60		55
UG Electronics Engg	60		38
PG. E &TC Engg	18		02
UG - IT	60		71
UG Mechanical Engg (First Shift)	120		115
UG Mechanical Engg (Second Shift)	60		44
UG Production Engg.	60		26
MCA	60		43
MBA	60		60

2.2 Catering to Student Diversity

2.2.1. Student - Full time teacher ratio (current year data)

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of full time teachers available in the institution teaching only UG courses	Number of full time teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2019-20	3608	325	180	16	19

2.3 Teaching - Learning Process

2.3.1 Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc. (current year data)

Number of teachers on roll	Number of teachers using ICT (LMS, e-Resources)	ICT tools and resources available	Number of ICT enabled classrooms	Number of smart classrooms	E-resources and techniques used
215	215	LCD projector ,	42	11	NPTEL ,

		Computer system, Internet/Wifi connectivity, MKCL-SuperCampus, Animated videos, NPTEL, Youtube videos by faculty, Googleforms, Google Classroom Assignments in ERP, Smart Board, Power Point, MyExamo Software, Cognifront Software for basic electronics engineering, Gate software for gate practice, Edmodo, Test Moz, MATLAB, ERP, ANSYS, FEAST, Pro-e, Systat Software			SuperCampus, Animated videos, Webinar, Flipped Learning, Github, Blog, Google Classroom, Moodle, Cross word activity, Matlab simulations, Etap software, You tube channels, Technical Blogs, Online simulation tools Tinker CAD, Smart Phone, MOOCS, Edmodo software
2.3.2 Students mentoring system available in the institution? Give details. (maximum 500 words)					
<ul style="list-style-type: none"> • 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. Mentoring sessions also help in identifying and addressing the difficulties regarding soft skills, language barriers and slow learners. • Each mentor maintains an individual student record consisting of his/her profile, academic performance, attendance record, achievements etc. 					
Number of students enrolled in the institution		Number of fulltime teachers		Mentor: Mentee Ratio	
3933		215		1:18	

2.4 Teacher Profile and Quality				
2.4.1 Number of full time teachers appointed during the year				
No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
201	202	Nil	09	38
2.4.2 Honours and recognitions received by teachers (received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the year)				
Year of award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies	
2019-20	Prof. Dr. K. N. Nandurkar	Principal	Chairman, Board of Studies-Production and Industrial Engineering, SPPU, Pune	
2019-20	Prof. Dr. S S Sane	Professor, HoD & Dean, Administration	Chairman, Board of Studies-Bachelor of Computer Application, SPPU, Pune	
2019-20	Prof. Dr. S S Sane	Professor, HoD & Dean, Administration	Member Board of Studies-Computer Engineering, SPPU, Pune	
2019-20	Prof. Dr. B.E. Kushare	Professor, HoD & Dean, R&D	Chairman, Board of Studies-Bachelor of Electrical Engineering, SPPU, Pune	
2019-20	Prof. Dr. S.Y. Kute	Professor & Dean, Academics	Board of Studies- Civil Engineering, SPPU, Pune	
2019-20	Prof. Dr. D.M. Chandwadkar	Professor, HoD & Dean, Admissions	Member, Board of Studies-Electronics & Telecommunication, SPPU, Pune	
2019-20	Prof. Dr. V. S. Mane	Professor & HoD	Member, Board of Studies-Chemical Engineering, SPPU, Pune	
2019-20	Prof. Dr. P. J. Pawar	Professor & HoD	Member, Board of Studies-Production and Industrial Engineering, SPPU, Pune	
2019-20	Prof. Dr. R. K. Munje (International Level)	Associate Professor	Post-Doctoral Fellowship from Shanghai Jiao Tong University, in Control Engineering and Science in May 2019	
2019-20	Prof. Dr. R. K. Munje (National Level)	Associate Professor	Best Faculty of the year, (Funded Research), Computer Society of India, Mumbai Chapter	
2019-20	Prof. Dr. R. K. Munje (International Level)	Associate Professor	Senior Member, IEEE	
2019-20	Dr. M.P. Thakre	Associate Professor	Fellow Member International Scientific Research Organization for Science, Engineering and Technology (ISROSET).	
2019-20	Dr. M. P. Thakre	Associate Professor	Member of Editorial Board Blue Eyes Intelligence Engineering &	

			Sciences Publication Pvt. Ltd. (BEI-ESP, SCOPUS, Elsevier Journal)
2019-20	Prof. Dr. K.S.Holkar (National Level)	Associate Professor	Dr.A.P.J.Abdul Kalam Lifetime Achievement Award, International Institute for Social and Economic Reforms (R), Bengaluru
2019-20	Prof. Dr.K.N.Nandurkar	Principal	Lokmat Prerana Award by Lokmat News Paper & Giri associates, Nashik
2019-20	Prof.Dr. S.S.Sane	Professor, Head, Computer Engg., & Dean (Administration)	Lokmat Prerana Award by Lokmat News Paper & Giri associates, Nashik
2019-20	Prof. M. B. Murugkar	Professor & Head, Mechanical Engg.	Lokmat Prerana Award by Lokmat News Paper & Giri associates, Nashik
2019-20	Prof. Dr.D.M.Chandwadkar	Professor, Head, E&TC Engg., & Dean (Admissions)	Lokmat Prerana Award by Lokmat News Paper & Giri associates, Nashik
2019-20	Prof. Dr. P. D. Bhamre	Professor, Head, IT & Dean (Quality)	Lokmat Prerana Award by Lokmat News Paper & Giri associates, Nashik

2.5 Evaluation Process and Reforms

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

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year- end examination	Date of declaration of results of semester-end/ year- end examination
FE	2012	I	07/12/2019	14/02/2020
FE	2015	I	07/12/2019	20/02/2020
FE	2019	I	20/12/2019	11/02/2020
SE	2012	I	02/01/2020	26/02/2020
SE	2015	I	05/12/2019	22/02/2020
TE	2012	I	07/12/2019	21/01/2020
TE	2015	I	07/12/2019	20/01/2020
BE	2012	I	03/12/2019	31/01/2020
BE	2015	I	03/12/2019	28/01/2020
FYMCA	2019	I	30/11/2019	31/01/2020
SYMCA	2013	I	30/11/2019	28/01/2020
TYMCA	2013	I	29/11/2020	28/01/2020
MBA-I & II	2016	I	10/12/2019	28/02/2020
MBA-I & II	2019	I	30/12/2019	07/02/2020
ME – I	2013	I	21/12/2019	21/02/2020
ME – II	2013	I	18/12/2019	21/02/2020
ME –I	2017	I	12/12/2019	21/02/2020
ME –II	2017	I	12/12/2019	21/02/2020
FE	2015	II	11/12/2020	Not Declared

FE	2019	II	No Exam*	21/07/2020
SE	2012	II	23/12/2020	Not Declared
SE	2014	II	23/12/2020	Not Declared
SE	2015	II	No Exam*	20/07/2020
TE	2012	II	29/12/2020	Not Declared
TE	2015	II	No Exam*	29/07/2020
BE	2012	II	22/10/2020	11/11/2020
BE	2015	II	22/10/2020	11/11/2020
FYMCA	2013	II	15/12/2020	Not Declared
FYMCA	2019	II	No Exam*	05/08/2019
SYMCA	2013	II	No Exam*	05/08/2019
TYMCA	2013	II	22/10/2020	11/11/2020
MBA-I	2016	II	11/12/2020	Not Declared
MBA-I	2019	II	No Exam*	24/07/2020
MBA- II	2016	II	18/12/2020	14/12/2020
ME I &II	2013	II	19/12/2020	Not Declared
ME – I	2017	II	No Exam*	14/08/2020
ME –II	2017	II	26/10/2020	Not Declared
*- Due to Covid 19, exams were not conducted.				

2.5.2 Reforms initiated on Continuous Internal Evaluation(CIE) system at the institutional level (250 words)

Continuous Assessment:

- 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.
- 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.
- Corrected answer sheets of Unit test are shown to students for further improvement.
- The efforts are taken by mentors and class coordinators to inculcate ethics, moral values and attitudes among the students.
- 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.

2.5.3 Academic calendar prepared and adhered for conduct of Examination and other related matters (250 words)

• **Academic calendar and timetable:**

SPPU provides academic calendar every year comprising of commencement, conclusion of

teaching and theory/ practical / oral examination schedule. Based on university academic calendar, department of applied science and mathematics prepares academic calendar and timetable for all the divisions of first year UG in each semester.

For SE, TE, BE and PG courses, respective departments prepare academic calendar and time table for each class in each semester consisting of theory and practical /tutorials sessions, expert talks, industrial visits, technical activities, mentoring sessions and extracurricular activities.

• **University Examination:**

The institute follows all the evaluation reforms prescribed by the University.

- **Single point of contact-** The University has directed appointment of Chief Examination Officer (CEO) as single point contact for the Institute.
- **Examination Pattern** – The major reform is the introduction of In-semester examination in written form for first year of Engg as per 2019 syllabus pattern. In-semester examination is either online (second year of Engg./MBA) or in written form (for third and final year of Engg.) in each theory course conducted by the University. Internal Assessment at ME, MBA, MCA is carried by concerned faculty as per the guidelines provided by the University.
- **Credit System** - The University has introduced Semester wise Credit based Evaluation System from the academic year 2015-2016 for both UG as well as PG programmes. The University has provided the guidelines to grade the performance of a student by means of Semester Grade Point Average (SGPA) and Cumulative Grade Point Average (CGPA).
- The Continuous Assessment Scheme for evaluation of laboratory work has been adopted by all the departments of the Institute.
- In-Semester, End- Semester, Online and Practical/Oral examinations are conducted by SPPU as per schedule.
- In Practical/Oral examinations, the students are assessed by internal and external examiners appointed by the university.
- Answer sheets of In-Semester and End- Semester theory examinations are assessed through Central Assessment Programme (CAP) by the examiners appointed by SPPU at various CAP centers.
- The departments also conduct mock online examinations, tutorials, internal tests and mock practical/oral examinations for improving performance of students.
- **Project and Seminar Evaluation:**
Each department has project and seminar coordinators to monitor the project and seminar activity.
Project evaluation committee monitors the progress of project work at various stages such as sanctioning of the project idea, feasibility, problem definition, scope, expected outcomes to maintain quality.
The performance of students in their project work and seminar is judged by project and seminar guides and external examiners appointed by the university.

2.6 Student Performance and Learning Outcomes

2.6.1 Program outcomes, program specific outcomes and course outcomes for all programs offered by the institution are stated and displayed in website of the institution (to provide the weblink)

https://engg.kkwagh.edu.in/iqac_detail/index/191

2.6.2 Pass percentage of students				
Programme Code	Programme name	Number of students appeared in the final year examination	Number of students passed in final semester/year examination	Pass Percentage
1-1347426665	Chemical Engg	75	74 (1 Student's result is on hold by University)	98.67
1-1347426669	Civil Engg. (First Shift)	68	66	97.05
1-1406844921	Civil Engg. (Second Shift)	68	68	100
1-1347426677	Civil Engg.(PG)	12	12	100
1-1347426649	Computer Engg.	134	134	100
1-1347426685	Computer Engg.(PG)	05	05	100
1-1347426671	Electrical Engg. (First Shift)	67	67	100
1-1347426689	Electrical Engg. (Second Shift)	77	77	100
1-1347426693	Electrical Engg.(PG)	13	02	15.38
1-1347426661	E &TC Engg. (First Shift)	74	73	98.64
1-1347426683	Electronics Engg. (Second Shift)	64	64	100
1-1347426687	E &TC Engg (PG)	07	07	100
1-1347426673	IT	66	66	100
1-1347426663	Mechanical Engg. (First Shift)	136	136	100
1-1347426681	Mechanical Engg. (Second Shift)	67	67	100
1-1347426667	Production Engg.	61	61	100
1-1347426691	MCA	51	51	100
1-1347426646	MBA	60	59	98.33

2.7 Student Satisfaction Survey

2.7.1 Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design the questionnaire) (results and details be provided as weblink)

https://engg.kkwagh.edu.in/a_y_2019_20/index

CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION				
3.1 Resource Mobilization for Research				
3.1.1 Research funds sanctioned and received from various agencies, industry and other organizations				
Nature of the Project	Duration	Name of the funding Agency	Total grant sanctioned	Amount received during the Academic year
Major projects	2 Years (E&TC)	MODROB, AICTE	10,62,353	8,49,882
	2019-20 (Computer)	MODROB, AICTE (AQIS)	Proposal is evaluated and is provisionally recommended	-
	2 Years (E&TC)	DST-DHI	1,50,81,000	45,00,000
Minor Projects	2 Years (E&TC)	ASPIRE, SPPU	2,32,000	1,16,000
	2 Years (Computer)	ASPIRE, SPPU	2,00,000	1,00,000
Interdisciplinary Projects	-	-	-	-
Industry sponsored Projects	1 Year (E&TC)	Boost Electronics Pvt. Ltd (NIMA-GIZ)	10,000	-
	1 Year (E&TC)	Boost Electronics Pvt. Ltd (NIMA-GIZ)	10,000	-
Projects sponsored by the University/ College	-	-	-	-
Students Research Projects (<i>other than compulsory by the College</i>)	1 Year (Mechanical)	KKWIEER	10,00,891	9,16,353
International Projects	-	-	-	-
Any other(Specify) Funds for paper publication	1 Year (IT)	KKWIEER	3,500	3,500
	1 Year (E&TC)	QIP, SPPU	2,00,000	2,00,000
	1 Year (Electrical)	STTP, AICTE (AQIS)	3,03,333	3,03,333
	3 Year	SPDC, AICTE	16,64,586	8,32,293
Total			1,97,67,663	78,21,361

3.2 Innovation Ecosystem

3.2.1 Workshops/Seminars Conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the year

Title of Workshop/Seminar	Name of the Dept.	Date(s)
Workshop on Python Programming and applications in AI & DS	Computer Engg.	28 – 30/5/2020
Workshop on Artificial Intelligence Fest 2019	Computer Engg.	5/10/2019
LaTeX Workshop	Computer Engg.	28/12/ 2019
IPR & Patents by Dr.Mrudula Bele	Electrical Engg.	20/9/2019
Project Guidance by Mr. John Yeshuraj, General Manager, Crompton Greaves Ltd.Nashik	Electrical Engg.	27/6/2019
Career in Intellectual Property by Mr. Abhijit Bhand, CEO Kanad Lab	E & TC Engg.	18/07/2019
Project selection, effectiveness and execution	E & TC Engg.	16/07/2019
Current trends of microcontrollers and use in industry	E & TC Engg.	28/09/2019
Microcontroller and Embedded C	E & TC Engg.	04/10/2019
PLC and HMI Interfacing	E & TC Engg.	11/03/2020
Advances in Heat Transfer	Mechanical Engg.	23/09/2019
Vibration-Based Health Monitoring of Mechanical Systems	Mechanical Engg.	10/10/2019
Refrigeration system : its design and Maintenance	Mechanical Engg.	25/02/2020
Role of Condition Monitoring for Industry 4.0	Mechanical Engg.	28-29/12/2019
Online workshop on Structural Dynamics	Mechanical Engg.	21/05/2020
Online workshop on Aspect of Green Technology	Mechanical Engg.	25/05/2020
Multi criterion decision making in Manufacturing	Production Engg.	26-28/05/2020
Transforming towards Industry 4.0	Production Engg.	13/06/2020
Workshop on Swarm Intelligence : Research Applications	Production Engg.	31/01 – 01/02/20
Basics of Internet of Things	MCA	8 -14/08/2019
Machine Learning using Python Programming	MCA	11-16/05/2020
Idea – to – Enterprise Competition	Institute	28/09/2019

3.2.2 Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year

Title of the innovation	Name of the Awardee	Awarding Agency	Date of Award	Category
The Spark AR open program	Vaibhav Bhavsar (Computer Engg.)	School of Innovation India from Facebook powered by SV.CO	13/3/2020 - 19/6/2020	Student
ERP system in MSME	Kapil Sonawane (IT)	GIZ Germany MSME Institute & MASSIA	Sept. 2019	Student
Research Excellence Award-2020	Dr. Mohan P. Thakre	Institute of Scholars (InSc) India	June-2020	Nil
Winner of Social Media Event for ESA Solar Orbiter Social Space	Prof. J. P. Shah.	ESA's, European Space Operations Centre[ESOC]mission control centre in Darmstadt, Germany	5-6/02/ 2020	Nil
Global Student Solar Ambassador workshop	Prof. J. P. Shah	IIT Bombay	2/10/2019	Nil

Coordinator				
Machine Learning Model (IT)	Sagar Sonawane	Winjit Technologies, Nashik	31/5/2020	Student
Quard TORC 2019 (Mechanical)	Raj Devidas Gaikwad	Indian Socioty of new era engineer at garage-I Race track, Chachri Mod, Bijonr Uttar Pradesh	10/09/2019	Student
Effi-Cycle 2019, Technological Advancement Season	Ritesh Bhuta Mayur Padade Pratik Khandelwal Mayur Wable Prasangh Wasekar Pratiksha Ghule Yashraj Darekar Prasad Pandharkar Abhishek Magare Prajakta Dhone Sourabh Dhanegaonkar	SAE Northern India Section Eff-cycle 2019, Lovely Professional University, Punjab	5/10/2019	Student
Quad Bike Design Challenge season 5	Shivdas Chaudhari Ashwin Pawar Raj Gaikwad Samyak Jain Shrinit Lambodari Sumit Ugale Harshad Sonawane Harshal Patil Ghanshyam Gawande Prasad Pathak Ajinkya Sonawne Sagar Khandekar Jayesh Pekhare Krishna Kulkarni Aniket Bhusare Rehan Shaikh	Fraternity of Mechanical & Automotive Engineers, Hyderabad	7-11/02/2020	Student

3.2.3 No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Centre	Name	Sponsored by
-	-	-

Name of the Start-up	Nature of Start-up	Date of commencement
-	-	-

3.3 Research Publications and Awards

3.3.1 Incentive to the teachers who receive recognition/awards

State	National	International
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3.3.2 Ph. Ds awarded during the year (applicable for PG College, Research Center)

Name of the Department	No. of Ph.Ds Awarded
Computer Engg.	01 (Waghchaure Manoj Ashok)

3.3.3 Research Publications in the Journals notified on UGC website during the year			
	Department	No. of Publication	Average Impact Factor, if any
National	---	---	---
International	Chemical Engg.	06	4.3841
International	Electrical Engg.	03 (A.Y.2019-20) 01 (A.Y.2018-19)	3.5
International	Mechanical Engg.	08	4.427
International	Production Engg.	05	---
International	MCA	02	1
International	MBA	01	--
International	Applied Science & Maths	03 (A.Y.2018-19) 02 (A.Y.2019-20)	2.17 (A.Y.2018-19) 1.49 (A.Y.2019-20)

3.3.4 Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	No. of Publication
Civil Engg.	5 Papers
Computer Engg.	2 Papers (A.Y.2018-19)
Electrical Engg.	9 Papers
E&TC	5 Papers
IT	1 Paper
Mechanical Engg.	7 Papers
Production Engg.	03 Papers + 1 Book + 8 Book Chapters
MBA	1 Paper
Applied Science & Maths	4 Papers (A.Y.2018-19) 1 Paper (A.Y.2019-20)

3.3.5 Bibliometrics of the publications during the last Academic year based on average citation index in Scopus/ Web of Science or Pub Med/ Indian Citation Index

Title of the paper	Name of the author	Title of the journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citations
Batch and continuous studies for adsorption of anionic dye onto waste tea residue: Kinetic, equilibrium, breakthrough and reusability studies (Chemical Engg.)	Dr. S. N. Jain	Journal of Cleaner Production (Elsevier)	2019	7.246 (Impact factor)	KKWIEER	0
Incense stick ash as a novel and sustainable adsorbent for sequestration of Victoria blue from aqueous phase	Dr. S. N. Jain	Sustainable Chemistry and Pharmacy (Elsevier)	2019	3.294 (Impact factor)	KKWIEER	0
Kinetic, equilibrium, thermodynamic, and desorption studies for sequestration of acid dye using waste biomass as sustainable adsorbents	Dr. S. N. Jain V. N. Mawal	Biomass Conversion and Biorefinery (Springer)	2019	2.602 (Impact factor)	KKWIEER	0
Vegetable residue of fenugreek (<i>Trigonella Foenum-Graecum</i>), waste biomass for removal of Basic Violet 14 from wastewater: Kinetic, equilibrium, and reusability studies	Dr. S. N. Jain	Sustainable Chemistry and Pharmacy (Elsevier)	2019	3.294 (Impact factor)	KKWIEER	0
Sonochemical degradation of 3-methylpyridine (3MP) intensified using combination with various oxidants	G. B. Daware	Ultrasonic Sonochemistry	2019	6.513 (Impact factor)	Institute of Chemical Technology, Mumbai	2
Adsorption of 3-Aminopyridine (3AP) from aqueous solution using sugarcane bagasse activated carbon (SBAC)	G. B. Daware	Environmental Technology & Innovation	2019	3.356 (Impact factor)	Institute of Chemical Technology, Mumbai	1
Observer-Based Output Feedback Integral Control for Coal-Fired Power Plant: A Three-Time-Scale Perspective	Dr. R.K.Munje	IEEE Transactions on Control System Technology	2018-19	5.312 (Impact factor)	KKWIEER	0
Integral Sliding Mode for Power Distribution Control of Advanced Heavy Water Reactor	Dr. R.K.Munje	IEEE Transactions on Nuclear Science	2019-20	1.575 (Impact factor)	KKWIEER	0
Design of Composite Sliding Mode Controller	Dr. R.K.Munje	2020 SICE International	2019-20	9	KKWIEER	0

for Large Scale Processes		Symposium on Control Systems				
Mal-Operation of Mho Relay In Transmission Line Due To Presence of TCSC	Dr. M.P. Thakre	International Journal of Recent Technology and Engineering (IJRTE)	2019-20	1.02 (Impact factor)	KKWIEER	0
VSC-HVDC Bipolar Grid Based On Novel Distance Protection Scheme	Dr. M.P. Thakre	International Journal of Recent Technology and Engineering (IJRTE)	2019-20	1.02 (Impact factor)	KKWIEER	0
Modelling, Analysis and Performance of DSTATCOM for Voltage Sag Mitigation in Distribution System	Dr. M.P. Thakre	Proceedings of the 3rd IEEE Int. Conf. on Trends in Electronics and Informatics (ICOEI 2019)	2019-20	-	KKWIEER	0
A Novel Application of Dual Purpose Active Fault Current Limiter to 400 kV Transmission System	Dr. M.P. Thakre	Proceedings of the 3rd IEEE Int. Conf. on Trends in Electronics and Informatics (ICOEI 2019)	2019-20	-	KKWIEER	0
Integrated Multilevel Converter Topology for Speed Control of SRM Drive in Plug in-hybrid Electric Vehicle	Dr. M.P. Thakre	Proceedings of the 3rd IEEE Int. Conf. on Trends in Electronics and Informatics (ICOEI 2019)	2019-20	-	KKWIEER	0
Power Flow Analysis of CFC for Meshed VSC-HVDC Transmission Systems	Dr. M.P. Thakre	Proceedings of the 3rd IEEE Int. Conf. on Trends in Electronics and Informatics (ICOEI 2019)	2019-20	-	KKWIEER	0
Voltage Sag Compensation of Induction Motor with 6 pulse VSI Based DVR	Dr. M.P. Thakre	Proceedings of the 3rd IEEE Int. Conf. on Smart Systems and Inventive Technology (ICSSIT), Tirunelveli, Tamil Nadu, India	2019-20	-	KKWIEER	0
Integration of Proactive Hybrid Circuit Breaker with Current Flow Controller for Bipolar HVDC Grid	Dr. M.P. Thakre	1st IEEE Int. Conf. on Power Electronics Applications and Technology in Present Energy Scenario (PETPES-2019)	2019-20	-	KKWIEER	0
Tradeoff between Droop and Virtual Synchronous	O.N. Buwa	2nd IEEE International	2019-20	-	KKWIEER	0

Control for PV Synchronous Generator		Conference on Power and Embedded Drive Control - 2019 21-23 August 2019				
Hybrid PV- Battery- DG Based Virtual Synchronous Generator	O.N. Buwa	2nd IEEE International Conference on Power and Embedded Drive Control - 2019 21-23 August 2019	2019-20	-	KKWIEER	0
A Novel Algorithm for Multi-label Classification by exploring Feature and Label dissimilarities (Computer Engg.)	Dr.S.S. Sane	International Journal of Computer Information Systems & Industrial Management Applications Vol.11	2019	-	KKWIEER	-
Design of 2kW DC Charger for Two Wheelers (E&TC Engg.)	Dr. D. M. Chandwadkar Dr. S. A. Patil (Ugale)	International Journal of Innovative Technology and Exploring Engineering (IJITEE), Vol.8 Issue-10	Aug.2019	5.54 Impact Factor	KKWIEER	0
Graphical User Interface for Electric Vehicle Charging Station	Dr. D. M. Chandwadkar Dr. S. A. Patil (Ugale)	International Journal of Innovative Technology and Exploring Engineering (IJITEE), Vol.8 Issue-10	Aug.2019	5.54 Impact Factor	KKWIEER	0
Industrial Parameters Monitoring System based on Embedded Web Server	Dr. D. M. Chandwadkar Dr. S. A. Patil (Ugale)	International Journal of Innovative Technology and Exploring Engineering (IJITEE) Vol.8 Issue-9	July 2019	5.54 Impact Factor	KKWIEER	0
Film cooling performance measurement over a flat plate for a single row of holes embedded in an inclined trench (Mechanical Engg.)	Dr. S.D. Barahate	International Journal of Thermal Sciences 150 (2020) 106215/ ScienceDirect/Volume 150, April 2020, 106215	2020	-	IIT, Bombay	-

Honeycomb Sandwich panel analysis-Analytical and FEA approach	G.R. Rajjade R. V. BhaskarA.D. Bhagure	International Journal of Current Engineering and Technology/ E-ISSN 2277 – 4106, P-ISSN 2347 – 5161 / 02 July 2019, Vol.9, No.4	2019	-	KKWIEER	-
A Comprehensive Review on Applicability of Shape Memory Alloy Hybrid Composite Beam in Vibration Control	V.V. Khond	International Journal of Current Engineering and Technology E-ISSN 2277 – 4106, P-ISSN 2347 – 5161	2020	-	KKWIEER	-
Convective Heat Transfer Enhancement of Fe3O4-Water Nanofluid under the effect of External Magnetic Field and Twisted Tape Insert	S.V. Kadbhane	International Journal of Current Engineering and Technology E-ISSN 2277 – 4106, P-ISSN 2347 – 5161	2020	-	KKWIEER	-
Design of Helmet Cooling System Modules and their Comparison	M.P. Panchbhai	International journal for research in applied science & engineering technology/ Volume 8, Issue VI, June 2020/ISSN No.: 2321-9653	2020	-	KKWIEER	-
Defect Analysis and Implementation of DMAIC Methodology for Defect Reduction in Tyre Manufacturing	P.B. Ranade	ISSN(Online) : 2456-8910 International Journal of Innovative Research in Applied Sciences and Engineering (IJIRASE) Volume 3, Issue 5, DOI: 10.29027/IJIRASE.v3.i5.2019, 479-482, September 2019	2019	-	KKWIEER	-
Ovality Correction In Manufacturing of The Valve-Seat	V.D. Nichit	IJSART - Volume 5 Issue 5 –MAY 2019 ISSN [ONLINE]: 2395-1052	2019	-	KKWIEER	-
Sintering Temperature and Applied Pressure Effect on Manufacturing Ni-Cr Based Composite Material.	V.K.Patil	International Journal of Engineering and Advanced Technology (IJEAT) / ISSN: 2249 – 8958,	2019	-	KKWIEER	-

		Volume-9 Issue-3, February, 2020				
Material Flow Optimization of Production Planning and Scheduling Problem in Flexible Manufacturing System by Real Coded Genetic Algorithm (RCGA) (Production Engg.)	Dr. P. J. Pawar	Flexible Services and Manufacturing Journal	2019	6	KKWIEER	5
Determination of optimal tool path in drilling operation using modified shuffled frog leaping algorithm	Dr. P. J. Pawar	International Journal for Engineering Modelling Vol.32, No.2-4	2019	1	KKWIEER	1
Evaluating the effect of organizational practices on work effectiveness of employees	Dr. P. J. Pawar	Journal of Management Concepts and Philosophy	2019	1	KKWIEER	0
Investigation into burnishing to minimize heat treatment in drill manufacturing	Dr. P. J. Pawar	Materials and Manufacturing Processes	April 2020	1	KKWIEER	1
Production planning and scheduling problem of continuous parallel lines with demand uncertainty and different production capacities	Dr. P. J. Pawar	Journal of Computational Design and Engineering	July 2020	0	KKWIEER	0
Next web page prediction using genetic algorithm and feed forward association rule based on web-log features (MCA)	R.A. Gangurde	International Journal of Performability Engineering	March 2020	2	Department of Computer Science, SPPU, Pune	1
Highly selective and sensitive colorimetric probe for Al ³⁺ and Fe ³⁺ metal ions based on 2-aminoquinolin-3-yl phenyl hydrazone Schiff base (App. Science & Mathematics)	Dr. D.Y. Patil	Inorganica Chimica Acta	June 2019	-	KKWIEER	05
A review on the progress of ZnSe as inorganic scintillator	Dr. A.C. Pawar	Opto-Electronics Review 27(1):90-103	March 2019	-	KKWIEER	05
A Novel Chemosensor for Fe ³⁺ Based on 2-(aminoquinolin-3-yl)	Dr.D.Y. Patil	American International Journal of	Aug. 2018	-	KKWIEER	-

methylene-4-nitrobenzohydrazide		Research in Science , Technology, Engineering & Mathematics				
Amino Quinoline Based Selective Colorimetric Chemosensor for Detection of Cu ²⁺	Dr. D.Y.Patil	Journal of Analytical Chemistry	Accepted May 2020	-	KKWIEER	-
Substrate Assisted Electrosynthesis of Patterned Lamellar Type Indium Selenide (InSe) Layer for Photovoltaic Application	Dr.A.C. Pawar	Springer Conference Proceedings of the 7th International conference on Advances in Energy Research	Accepted May 2020	-	KKWIEER	-
Isophthaloyl-Based Selective Fluorescence Receptor for Zn (II) Ion in Semi-Aqueous Medium	Dr.D.Y. Patil	Journal of Fluorescence	July 2019		KKWIEER	00

3.3.6 h-index of the Institutional Publications during the year. (based on Scopus/ Web of science)						
Title of the paper	Name of the author	Title of the journal	Year of publication	h-index	Number of citations excluding self citations	Institutional affiliation as mentioned in the publication
Batch and continuous studies for adsorption of anionic dye onto waste tea residue: Kinetic, equilibrium, breakthrough and reusability studies (Chemical Engg.)	Dr. S. N. Jain	Journal of Cleaner Production (Elsevier)	2019	6	0	KKWIEER
Incense stick ash as a novel and sustainable adsorbent for sequestration of Victoria blue from aqueous phase	Dr. S. N. Jain	Sustainable Chemistry and Pharmacy (Elsevier)	2019	6	0	KKWIEER
Sonochemical degradation of 3-methylpyridine (3MP) intensified using combination with various oxidants	G. B. Daware	Ultrasonic Sonochemistry	2019	2	2	Institute of Chemical Technology, Mumbai
Kinetic, equilibrium, thermodynamic, and desorption studies for sequestration of acid dye using waste biomass as sustainable adsorbents	Dr. S. N. Jain V. N. Mawal	Biomass Conversion and Biorefinery (Springer)	2019	6	0	KKWIEER
Adsorption of 3-Aminopyridine (3AP) from aqueous solution using sugarcane bagasse activated carbon (SBAC)	G. B. Daware	Environmental Technology & Innovation	2019	2	1	Institute of Chemical Technology, Mumbai
Vegetable residue of fenugreek (<i>Trigonella Foenum-Graecum</i>), waste biomass for removal of Basic Violet 14 from wastewater: Kinetic, equilibrium, and reusability studies (Elsevier)	Dr. S. N. Jain	Sustainable Chemistry and Pharmacy	2019	6	0	KKWIEER
A Novel Algorithm for Multi-label Classification by exploring Feature and Label dissimilarities (Computer Engg.)	Dr.S.S.Sane	International Journal of Computer Information Systems & Industrial Management	2019	3	0	KKWIEER

		Applications Vol.11				
Effects of hydrated lime in stabilization of black cotton soil (Civil Engg.)	Dr.P.D. Jadhao	International Journal of Engineering and Advanced Technology	June 2019	2	0	KKWIEER
Design of Composite Sliding Mode Controller for Large-scale Processes (Electrical Engg.)	Dr. R.K. Munje	2020 SICE International Symposium on Control Systems (SICE ISCS)	2019-20	9	0	KKWIEER
Modelling, Analysis and Performance of DSTATCOM for Voltage Sag Mitigation in Distribution System	Dr. M.P.Thakre	Proceedings of the 3rd IEEE Int. Conf. on Trends in Electronics and Informatics (ICOEI 2019),	2019-20	6	0	KKWIEER
A Novel Application of Dual Purpose Active Fault Current Limiter to 400 kV Transmission System	Dr. M.P.Thakre	Proceedings of the 3rd IEEE Int. Conf. on Trends in Electronics and Informatics (ICOEI 2019),	2019-20	6	0	KKWIEER
Integrated Multilevel Converter Topology for Speed Control of SRM Drive in Plug in-hybrid Electric Vehicle	Dr. M.P.Thakre	Proceedings of the 3rd IEEE Int. Conf. on Trends in Electronics and Informatics (ICOEI 2019),	2019-20	6	0	KKWIEER
Power Flow Analysis of CFC for Meshed VSC-HVDC Transmission Systems	Dr. M.P.Thakre	Proceedings of the 3rd IEEE Int. Conf. on Trends in Electronics and Informatics (ICOEI 2019),	2019-20	6	0	KKWIEER
Voltage Sag Compensation of Induction Motor with 6 pulse VSI Based DVR	Dr. M.P.Thakre	Proceedings of the 3rd IEEE Int. Conf. on Smart Systems and Inventive Technology (ICSSIT), Tirunelveli, Tamil Nadu, India	2019-20	6	0	KKWIEER
Integration of Proactive Hybrid Circuit Breaker with	Dr. M.P.Thakre	1st IEEE Int. Conf. on Power Electronics	2019-20	6	0	KKWIEER

Current Flow Controller for Bipolar HVDC Grid		Applications and Technology in Present Energy Scenario (PETPES-2019)				
Integral Sliding Mode for Power Distribution Control of Advanced Heavy Water Reactor	Dr. R.K. Munje	IEEE Transactions on Nuclear Science	2019-20	9	0	KKWIEER
Observer-Based Output Feedback Integral Control for Coal-Fired Power Plant: A Three-Time-Scale Perspective	Dr. R.K. Munje	IEEE Transactions on Control System Technology	2018-19	9	0	KKWIEER
Mal-Operation of Mho Relay In Transmission Line Due To Presence of TCSC	Dr. M.P.Thakre	International Journal of Recent Technology and Engineering (IJRTE)	2019-20	6	0	KKWIEER
VSC-HVDC Bipolar Grid Based On Novel Distance Protection Scheme	Dr. M.P.Thakre	International Journal of Recent Technology and Engineering (IJRTE)	2019-20	6	0	KKWIEER
Tradeoff between Droop and Virtual Synchronous Control for PV Synchronous Generator	O. N. Buwa	2nd IEEE International Conference on Power and Embedded Drive Control - 2019	2019-20	1	0	KKWIEER
Hybrid PV- Battery-DG Based Virtual Synchronous Generator	O. N. Buwa	2nd IEEE International Conference on Power and Embedded Drive Control - 2019 21-23 August 2019	2019-20	1	0	KKWIEER
Design of 2kW DC Charger for Two Wheelers (E&TC Engg.)	Dr. D. M Chandwadkar Dr. S. A. Patil (Ugale)	International Journal of Innovative Technology and Exploring Engineering (IJITEE), Volume-8 Issue-10	2019	1 4	0	KKWIEER
Graphical User Interface for Electric Vehicle Charging Station	Dr. D. M Chandwadkar	International Journal of Innovative Technology and Exploring	2019	1	0	KKWIEER

	Dr. S. A. Patil (Ugale)	Engineering (IJITEE), Volume-8 Issue-10		4		
Industrial Parameters Monitoring System based on Embedded Web Server	Dr. D. M Chandwarkar Dr. S. A. Patil (Ugale)	International Journal of Innovative Technology and Exploring Engineering (IJITEE)	July 2019	1 4	0	KKWIEER
Material Flow Optimization of Production Planning and Scheduling Problem in Flexible Manufacturing System by Real Coded Genetic Algorithm (RCGA) (Production Engg.)	Dr. P. J. Pawar	Flexible Services and Manufacturing Journal	2019	14	0	KKWIEER
Determination of optimal tool path in drilling operation using modified shuffled frog leaping algorithm	Dr. P. J. Pawar	International Journal for Engineering Modelling	2019	14	0	KKWIEER
Evaluating the effect of organizational practices on work effectiveness of employees	Dr. P. J. Pawar	Journal of Management Concepts and Philosophy	2019	14	0	KKWIEER
Investigation into burnishing to minimize heat treatment in drill manufacturing	Dr. P. J. Pawar	Materials and Manufacturing Processes	2020	14	0	KKWIEER
Production planning and scheduling problem of continuous parallel lines with demand uncertainty and different production capacities	Dr. P. J. Pawar	Journal of Computational Design and Engineering	2020	14	0	KKWIEER
Highly selective and sensitive colorimetric probe for Al ³⁺ and Fe ³⁺ metal ions based on 2-aminoquinolin-3-yl phenyl	Dr. D.Y. Patil	Inorganica Chimica Acta	June 2019	1	05	KKWIEER

hydrazone Schiff base (App. Science & Mathematics)						
A review on the progress of ZnSe as inorganic scintillator	Dr. A.C. Pawar	Opto-Electronics Review 27(1):90-103	March 2019	5	05	KKWIEER
A Novel Chemosensor for Fe ³⁺ Based on 2-(aminoquinolin-3-yl)methylene-4-nitrobenzohydrazide	Dr.D.Y. Patil	American International Journal of Research in Science , Technology, Engineering & Mathematics	Aug. 2018	1	0	KKWIEER
Amino Quinoline Based Selective Colorimetric Chemosensor for Detection of Cu ²⁺	Dr. D.Y.Patil	Journal of Analytical Chemistry	Accepted May 2020	1	0	KKWIEER
Substrate Assisted Electrosynthesis of Patterned Lamellar Type Indium Selenide (InSe) Layer for Photovoltaic Application	Dr.A.C. Pawar	Springer Conference Proceedings of the 7th International conference on Advances in Energy Research	Accepted May 2020	1	0	KKWIEER
Isophthaloyl-Based Selective Fluorescence Receptor for Zn (II) Ion in Semi-Aqueous Medium	Dr.D.Y. Patil	Journal of Fluorescence	July 2019	1	0	KKWIEER

3.3.7 Faculty participation in Seminars/Conferences and Symposia during the year :				
No. of Faculty	International level	National level	State level	Local level
Attended Seminars/ Workshops	12	94	28	63
Presented papers	26	15	00	00
Resource Persons	02	24	04	21
3.4 Extension Activities				
3.4.1 Number of extension and outreach programmes conducted in collaboration with industry, community and Non- Government Organisations through NSS/NCC/Red cross/Youth Red Cross (YRC) etc., during the year				
Title of the Activities	Organising unit/ agency/ collaborating agency	Number of teachers co-ordinated such activities	Number of students participated in such activities	
Participation in online “PRERNA 2020 Camp” (a state level leadership development camp) from 11th July to 15th July 2020	NSS department of Chhatrapati Shivaji Maharaj University, Kolhapur	2	54	
“Online Abhang Wari – a program of Indian classical music” on occasion of Ashadhi Wari on 4th July 2020	NSS	2	14	
Awareness programs & help during Corona Pandemic from April 2020 to June 2020	NSS & Govt. of Maharashtra	3	240	
Participation in dance competition organized on occasion of “Marathi Rajbhasha Din” on 24th February 2020	NSS	1	6	
Inaugural function of “Ek Bharat Shreshtha Bharat” club of institute on 13th February 2020	NSS & Govt. of India	3	72	
Guidance session about recent technologies, career, sports, computer, etc. for school students of tribal villages of Peth taluka of Nashik district in second week of February 2020	PRAYAS Youth Forum	1	50	
Workshop on "Scientific Toys" for school students on 2nd February 2020	PRAYAS Youth Forum	1	20	

Drama performance in annual social gathering "Maffick 2020" on 30th January 2020	NSS	2	32
Expert talk of Mr. Vinay Ahire (Dy. RTO, Nashik) on topic "Road Accidents & Preventions" on 14th January 2020	NSS and Nashik RTO	1	67
NSS Special Camp at Mohgaon-Babhaleshwar (Tal. & Dist. Nashik) from 22nd December to 29th December 2019	NSS	8	125
Cleaning activity at Bramhagiri, Tal- Trimbakeshwar, Dist- Nashik on 2nd October 2019	SWAPNAPURTI Foundation	1	38
Guidance session about recent technologies, career, sports, computer, astronomy, vedicmaths, etc. for school students of nearby villages from 17th September to 20th September 2019	SWAPNAPURTI Foundation	1	55
Drama performance under celebration of 150th Birth Anniversary of Mahatma Gandhi on 30th July 2019	NSS	2	14
Blood Donation Camp on 27th July 2019	NSS and Govt. Hospital	2	26
Expert talk of Mr. Sunil Mendhekar on topic "Recharge, Recycle & Reuse of Water" on 22nd July 2019	NSS	1	55
Cleaning activity at Bramhagiri, Tal- Trimbakeshwar, Dist- Nashik on 21st July 2019	PRAYAS Youth Forum	1	94
Tree plantation activity at Rohile (Tal- Trimbakeshwar, Dist- Nashik) on 1st July 2019	NSS and Maharashtra Forest Department	1	14
Expert talk of Mr. Rajesh Pandit on topic "Godavari River Rejuvenation" on 28th June 2019	NSS	1	112
International Yoga Day celebration on 21st June 2019	NSS	8	242
Tree plantation activity on occasion of "World	NSS	2	11

Environment Day" on 6th June 2019			
Workshop on "Online Content Creation and Assessment Tools" for School Teachers	Computer Engg.	20 Faculty as trainers/coordinators	2263
Workshop on "Programming in C" for School Students	IT	2	65

3.4.2 Awards and recognition received for extension activities from Government and other recognized bodies during the year

Name of the Activity	Award/recognition	Awarding bodies	No. of Students benefited
AVHAN Camp (State Level Disaster Management Camp)	NSS Volunteer, Rushikesh Unde (BE - Civil), was selected for "AVHAN Camp" which was held at S. R. T. M. University, Nanded from 3 rd June to 12 th June 2019.	NSS	1
University Level NRD/ SRD Selection Camp	NSS volunteer, Rushikesh Unde (BE - Civil), was selected for University Level NRD/ SRD Selection Camp which was held at Savitribai Phule Pune University, Pune on 31 st August 2019.	NSS and Savitribai Phule Pune University	1
UTKARSHACamp (State Level Social and Cultural Camp)	NSS volunteers, Rushikesh Unde (BE - Civil) and Ruchi Dhok (SE - E&TC), were selected for "University Level UTKARSHA Selection Camp" which was held at Savitribai Phule Pune University, Pune on 14 th Janaury 2020.	NSS and Savitribai Phule Pune University	2
Nashik District Level Dance Competition	2 nd prize in dance competition organized on occasion of "Marathi Rajbhasha Din" under "Ek Bharat Shreshta Bharat" program of Govt. of India on 24 th February 2020 in Nashik.	NSS and AAI Foundation (NGO of Mumbai)	6

3.4.3 Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/ agency/ collaborating agency	Name of the activity	Number of teachers coordinated such activities	Number of students participated in such activities
Gender Issues	NSS	Street play to create awareness about Gender Equality during NSS Special Camp on 26th December 2019	2	18
Swachha Bharat	NSS	Cleanliness drive during NSS Special Camp on 24th & 25th December 2019	2	110

Swachha Bharat	SWAPNAPURTI Foundation	Cleaning activity at Bramhagiri, Tal-Trimbakeshwar, Dist-Nashik on 2nd October 2019	1	38
Swachha Bharat	PRAYAS Youth Forum	Cleaning activity at Bramhagiri, Tal-Trimbakeshwar, Dist-Nashik on 21st July 2019	1	94

3.5 Collaborations

3.5.1 Number of Collaborative activities for research, faculty exchange, student exchange during the year

Nature of Activity	Participant	Source of financial support	Duration
Technology pilot for Electronic mobility	2 Faculty of E&TC Engg & Panava Engineering Pvt.Ltd.	DHI, Gov of India and Industry	2 years

3.5.2 Linkages with institutions/industries for internship, on-the-job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration (From-To)	Participant
Industry – Institute linkage	Industry sponsored projects	Defense Research and Development Organization, Nashik	15/6/2019 to 15/4/2020	6
Institute Linkage	Sharing of research facilities for PhD. Project work of Vishal B. Shinde	SVNIT, Surat, Gujrat	18/3/2019	1
On the job Training	Training for Faculty of Computer Engg.	CPAG GRAPHOLOGY EXPERTS LLP, Nashik Contact details: Mr. Tanmay Dikshit, 976316444	25/11/2019 to 9/12/2019	2
		Mayur I Technologies, Nashik Contact details: Mr. Mahendra Bhadan, 8208468453	16/11/2019 to 2/12/2019	2
In plant Training	Internship of Computer Engg. students	FinIQ, Nashik Contact details: Mr. Madhuvan Pareek, 7020275522	26/05/2020 to 26/06/2020	6
		Cognifront Software Private Ltd, Nashik Contact details: Mr. Ramchandra Tiwari, 9422245764	10/06/2020 to 25/06/2020	21
Industrial Training	In plant Training for Electrical Engg. students	500 kVA HVDC Terminal Station Padghe, Contact details: Santosh Kavare, 9769006191	6/12/2019 To 10/12/2019	2

		Ring Plus Aqua Limited Contact Details : Avinash Pathak 2551-228009	10/01/2019 To 08/02/2019	1
Project Work	Project Work for Electrical students	Project title: "Design Of Electromechanical Kit For Performance Parameters Of Fractional AC/DC Motors" Sponsor Company: Powerinst Electromagnets Pvt. Ltd.	Aug 2019 to April 2020	4
	Project Work for Electrical students	Project Title: Automation of CT- PT Testing Kit Sponsor Company: Gargi Transformers Pvt. Ltd.	Aug 2019 to April 2020	4
Institute- Industry Collaborati ve Project	Sharing of Research Facility	Panava Engineering Pvt. Ltd, Ambad	2019-20	3
Project Work	Project Work for E&TC students	ESDM Technologies	June 2019 to May 2020	3
		Elite Technologies	June 2019 to May 2020	3
		Sivanada Electronics	June 2019 to May 2020	3
		Surya Switchgear, MIDC, Ambad-422010 Tel: 02532380245	July2019 to March 2020	3
In plant Training	Internship for E/TC Engg. students	Cognifront Academy	06/06/2019 to 20/06/2019	1
		Rishabh Instruments Pvt. Ltd., Satpur Nashik	03/06/2019 to 17/06/2019	3
Industrial Training	In plant Training for E/TC Engg. students	HAL, Govt. of India undertaking, Ojhar township (P.O.) Nashik Contact : 02550-275840	01/06/2019 to 14/06/2019	3
		HAL, Govt. of India undertaking, Ojhar township (P.O.) Nashik Contact : 02550-275840	08/06/2019 to 21/06/2019	1
		Cognifront Academy	06/06/2019 to20/06/2019	1
		Nash Robotics & Automation Pvt.Ltd. Satpur Nashik	05/06/2019 to 19/06/2019	4
		Siemens, Worli, Mumbai	01/06/2019 to 15/06/2019	1
		J.K.Paper Ltd, Tapi. Gujrat	12/06/2019 to 17/06/2019	1
		Yash Electro Arts	19/06/2019 to 25/06/2019	5
		Yash Electro Arts	03/06/2019 to 17/06/2019	2

		Central Railway, Bhusaval Division, Signal and Telecom Branch Tel : 02582-222976	03/06/2019 to 17/06/2019	1
Project Work	Project Work for E&TC students (NIMA-IFC-GIZ)	Boost Electronics Pvt. Ltd	July 2019 to June 2020	6
On the job Training	Training for Faculty of IT, Computer & MCA	ESDS Software Solution Pvt.Ltd.Nashik	10-12/06/2019	9
		Sharda Motors Pvt. Ltd., 52\2, M I D C Satpur, BVH Ceat Ltd, Satpur, M I D C Satpur, Nashik	10/12/2019 to 25/12/2019	5
		Star Research Laboratory, Surat	15/12/2019 to 10/01/2020	1
		Tanmay Engineering, Nandni Nagar, MIDC Ambad, Nashik	10/12/2019 to 25/12/2019	4
Project Work	Project Work for Mechanical Engg. students	Siddhivinayak Enterprises, Satpur Nashik	AY 2019-20 (1 year)	4
		Cupper industries Pvt, Ltd, Nashik	AY 2019-20 (1 year)	4
		Press Tool Engineering Works pvt. Ltd., Ambad, Nashik	AY 2019-20 (1 year)	4
		CEAT Ltd., Satpur, Nashik	AY 2019-20 (1 year)	8
		Accent Industries, Ambad, Nashik	AY 2019-20 (1 year)	4
		Fortuna Industry, Ambad, Nashik	AY 2019-20 (1 year)	4
		Autoshell Foundary, Satpur, Nashik	AY 2019-20 (1 year)	3
		Shree Ganesh Casting, Vilholi, Nashik	AY 2019-20 (1 year)	4
		AMT Machine Tools, AmbadNashik	AY 2019-20 (1 year)	4
		Kalika industry Hari Om Nagar, Pimpalgaon	AY 2019-20 (1 year)	4
		BOSCH, Satpur, Nashik	AY 2019-20 (1 year)	8
		AbhijeetTechnoPlast (India) Pvt.Ltd., Nashik	AY 2019-20 (1 year)	4
		Progress Engineers, MIDC Ambad	AY 2019-20 (1 year)	8
		M.S.Engineering, MIDC Ambad, Nashik	AY 2019-20 (1 year)	8
		Marut Energy Equipments Pvt. Ltd . MIDC Ambad, Nashik	AY 2019-20 (1 year)	3
		Auto Health care Service Station, Amrutdham, Nashik	AY 2019-20 (1 year)	4

		Proficient Engineers, E 15 MIDC, Ambad Nashik	AY 2019-20 (1 year)	4
		Crompton Greaves power and industrial solution , MIDC AmbadNashik	AY 2019-20 (1 year)	4
		Sharda motors52X2, M I D C Satpur, B\H Ceat Ltd, Satpur, M I D C Nashik	AY 2019-20 (1 year)	4
		AmeY Industries, W-no, 77-D, MIDC Ambad, Nashik	AY 2019-20 (1 year)	3
		Unique solution Upanagar Nashik	AY 2019-20 (1 year)	4
Industrial Training	Internship for MCA students	Livestrong Technologies,Nashik-9975717408	Dec 2019 to June 2020	5
Industrial Training	Internship for MCA students	Engeniuspark Technologies LLP,Nashik- 7588619361	Dec 2019 to June 2020	9
		TechSmartAutomation, Nashik-9028589163	Dec 2019 to May 2020	2
		Application Nexus Web Services Pvt. Ltd. Nashik-9421009404	Dec 2019 to May 2020	7
		Cognifront,Nashik 9422245764	Jan 2020 to June 2020	3
		Krios Info solutions, Pune-9545610049	Jan 2020 to June 2020	1
		Kipoosa Game Development,Nashik-9423569739	Feb 2020 to Aug 2020	1
		Maxgen Technologies Pvt. Ltd. Pune-9049476969	Dec 2019 to June 2020	1
		WorldWin Coder Pvt. Ltd,Nashik- 9631550733	Dec 2019 to July 2020	1
		TechSmartAutomation,Nashik-9028589163	Jan 2020 to May 2020	2
		VOLP Software, Pune-9545456626	Dec 2019 to June 2020	1
		Calibers Infotech, Nashik-9527247333	Dec 2019 to June 2020	2
		HP Computer,Guwahati-7081811941	Jan 2020 to June 2020	1
		Abra ca Dabra, Nashik 9822545211	Dec 2019 to June 2020	1
		Spark e gnite, Nashik-02532531192	Dec 2019 to June 2020	1
		SoluLab Inc,Ahemdabad-06351737705	Dec 2019 to June 2020	1
		Dreamwares,Nashik-02532453838	Dec 2019 to June 2020	1
		Web Crazy, Nashik- 7020257920	Jan 2020 to Aug 2020	1

		Jarvissoft, Pune- 8446765656	Jan 2020 to May 2020	1
Project Work	Summer Internship Project for MBA Students	Atul Milk Fruit And Vegetables Nashik	2 months	1
		Bank of Maharashtra Nashik	2 months	1
		Ceat Ltd Nashik	2 months	2
		Creative Powertech Pvt. Ltd. Nashik	2 months	2
		Dhumal Industries India Pvt Ltd Nashik	2 months	3
		Dynamic Automation Nashik	2 months	1
		Galaxy Buildcon Nashik	2 months	1
		HDFC Housing Finance Ltd. Nashik	2 months	1
		Heimatec India Pvt. Ltd. Pune	2 months	1
		Jitendras' Autoworld Nashik	2 months	1
		Jyoti steel industries. Ltd Nashik	2 months	1
		Kitchen Decore Nashik	2 months	1
		LKP securities Ltd Nashik	2 months	1
		Lucy Electric Pvt Ltd Nashik	2 months	1
		M14 Intelligence	2 months	1
		Motilal Oswal Financial Services Nashik	2 months	2
		Neelay industries ltd Nashik	2 months	3
		New Aakash Scooter Pvt ltd Nashik	2 months	1
		Pernod Ricard India Pvt. Ltd. Nashik	2 months	1
		Popular switchgear Pvt. ltd. Nashik	2 months	1
		Reliance Electronics Ambad, Nashik	2 months	3
		Rishabh Instruments Nashik	2 months	1
		Ruby Hall Clinic, Pune	2 months	1
		Samarth Sahkari bank Nashik	2 months	1
		Siemens India Limited Nashik	2 months	3
		SMP Engineer's and Electricals Pvt ltd Nashik	2 months	1
		Tata motors torrent corporation Nashik	2 months	1
		The Shirpur Merchant Co-Operative Bank Ltd. Shirpur	2 months	1
		Union Bank Of India Nashik	2 months	1
		Vaidhyahi Tax consultant and services Nashik	2 months	1
Veena World PSP	2 months	1		

3.5.3 MoUs signed with institutions of national, international importance, other universities, industries, corporate houses etc. during the year			
Organisation	Date of MoU signed	Purpose and Activities	Number of students/teachers participated under MoUs
Cognifront Software Private Ltd, Nashik (Computer)	10/2/2020	Seminars, projects, setting up innovation lab, internship	21
KKWIEER - Electronics Switches (I) Pvt. Ltd., Nashik (E&TC)	16/1/2020	Seminars, Consultancy projects, setting up innovation lab, Professional Project internship	Nil
Emerson India – KKWIEER (E&TC)	18/09/2019	Project development, Expert lectures	100
Quality Induction, M-38, MIDC, Ambad Nashik -10 (Mechanical)	01/07/2019	In Plant Training	03
Janak Industries, XI-39, MIDC Ambad, Nashik -10	01/07/2019	In Plant Training	04
B-Catma, M-103, MIDC, Ambad, Nashik -10	01/07/2019	Industrial Visit	13
SWS Financial Solution Pvt. Ltd (MBA)	18/07/2019	Expert Talks, Internship, Training, Financial Literacy	120
Institute of Chemical Engineering industry & Department of IT convergence, Korea National University of Transportation, South Korea (Applied Science & Maths)	17/01/2019	To provide higher education opportunities for staff and students of LRDIT-KNUT and KKWIEER-SPPU and to explore other avenues for possible collaborations.	2 teachers
I-Pro Edu Nashik (IFC, KKWIEER)	7/03/2020	To provide training to students for German and Japanese Language	16 students have registered for the German Level A1 training course and successfully completed the course. 14 students have registered for the Japanese N5 Level training course and 12 students have successfully completed the course. (Course duration was 5/05/2020 to 10/08/2020)

CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES			
4.1 Physical Facilities			
4.1.1 Budget allocation, excluding salary for infrastructure augmentation during the year			
Budget allocated for infrastructure augmentation		Budget utilized for infrastructure development	
15,49,39,000.00		18,28,32,124.00	
4.1.2 Details of augmentation in infrastructure facilities during the year			
Facilities		Existing	Newly added
Campus area		40799.70 sq.mts.	---
Class rooms		42	---
Laboratories		91	---
Seminar Halls		11	---
Classrooms with LCD facilities		42	---
Classrooms with Wi-Fi/ LAN		42	---
Seminar halls with ICT facilities		11	---
Video Centre		---	1(Electrical)
No. of important equipments purchased (\geq 1-0 lakh) during the current year.	Chemical Engg.	8	3
	Civil Engg.	50	1
	Computer Engg.	65	1
	Electrical Engg.	37	--
	E&TC Engg.	10	2
	IT	17	0
	Mechanical Engg.	45	2
	Production Engg.	29	3
	MCA	13	--
	MBA	--	--
	Applied Science & Maths	0	0
Value of the equipment purchased during the year (Rs. in Lakhs)	Chemical Engg.	8633912	797735
	Civil Engg.	21200465	1052906
	Computer Engg.	54000276	3573588
	Electrical Engg.	31893365	829426
	E&TC Engg.	36916629	1626175
	IT	12744611	639692
	Mechanical Engg.	21033274	2059459
	Production Engg.	19431591	634040
	MCA	8844929	734500
	MBA	1712349	395000
	Applied Science & Maths	3280584	0
Total	219691985	12342521	
Others		Nil	Nil

4.2 Library as a Learning Resource						
4.2.1 Library is automated {Integrated Library Management System -ILMS}						
Name of the ILMS software	Nature of automation (fully or partially)		Version		Year of automation	
KOHA	Fully		19.05.00.000		2020	
Librarian Software (LIBSUITE)	Fully		Ver.5.6		2000	
4.2.2 Library Services:						
	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
Text Books	88142	2,54,24,971	1363	7,44,952	89505	2,61,69,923.00
Reference Books						
e-Books	2632	6,90,000	4186187	1,00,425	4188819	7,90,425.00
Journals	211	5,68,217	170	5,22,737	170	5,22,737.00
e-Journals	9068	61,22,043	9837	18,65,147	9837	18,65,147.00
Digital Database	12		10		10	
CD & Video	3809	52,486.00	18	--	3827	52,486.00
Library automation	1	80,000.00	1	90,000.00	1	90,000.00
Weeding (Hard & Soft)	10197	6,57,117.00	0	--	10197	6,57,117.00
Others (specify)	--	--	--	--	--	--
News Paper	13	22,549.00	13	17,460.00	13	17,460.00
Kindle E-book Reader	10	66,836.00	--	--	10	66,836.00
KIBO	1	40,506.00	--	--	1	40,506.00
UTS	1	20,060.00	--	--	1	20,060.00
Knimbus eLibrary Platform	1	2,30,100.00	1	2,50,160.00	1	2,50,160.00
Membership of other Libraries 1) ARAI, Pune, 2) S. P. Pune University, Regional Library, Nashik.	3	38,940.00	2	3,540.00	2	3,540.00

4.3 IT Infrastructure									
4.3.1 Technology Upgradation (overall)									
	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Departments	Available band width (MGBPS)	Others
Existing	1516	36	Available	Library 45	Nil	16	1516	240 MBPS	T&P – 76 Exam - 10
Added	48	--	Available	--	--	--	48	--	T&P – 08
Total	1564	36	Available on Computer Systems	Library 45	Nil	16	1564	240 MBPS	T&P – 84 Exam - 10

4.3.2 Bandwidth available of internet connection in the Institution (Leased line)			
240 MBPS			
4.3.3 Facility for e-content			
Name of the e-content development facility		Provide the link of the videos and media centre and recording facility	
Not available presently		----	
4.3.4 E-content developed by teachers such as: e-PG-Pathshala, CEC (under e-PG-Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc			
Name of the teacher	Name of the module	Platform on which module is developed	Date of launching e - content
Dr.S. S. Sane (Computer)	Compilers (5)	Youtube	27-3-2020 to 30-4-2020
Dr. S. M. Kamapur	Machine Learning (3), Principles of Programming Languages (3)	Youtube	24-3-2020 to 29-4-2020
P. P. Vaidya	Computer Graphics (6)	Youtube	24-3-2020 to 30-4-2020
S. M. Malao	Programming and Problem Solving (5)	Youtube	24-3-2020 to 30-4-2020
S. S. Banait	Soft Computing and Optimization Algorithm (5)	Youtube	8-4-2020 to 29-4-2020
R. H. Jadhav	Design & Analysis of Algorithms (5)	Youtube	25-3-2020 to 29-4-2020
Priyadarshini I.	Embedded Systems & Internet of Things (7)	Youtube	22-3-2020 to 29-4-2020
J. R. Mankar	Embedded and Real Time Operating System (6)	Youtube	24-3-2020 to 30-4-2020
N. G. Sharma	Design & Analysis of Algorithms (5)	Youtube	25-3-2020 to 30-4-2020
W. W. Pingle	Information and Cyber Security (2)	Youtube	30-4-2020
M. P. Mahajan	Microprocessor (6)	Youtube	23-3-2020 to 29-4-2020
C. R. Patil	Advanced Data Structures (7)	Youtube	25-3-2020 to 29-4-2020
D. M. Kanade	Information and Cyber Security (7)	Youtube	22-3-2020 to 30-4-2020
A. V. Kolapkar	Web Technology (4), Machine Learning (4)	Youtube	27-3-2020 to 30-4-2020
S. K. Gondhalekar	Advanced Data Structures (6)	Youtube	24-3-2020 to 24-4-2020
N. S. Sonawane	Programming and Problem Solving (5)	Youtube	1-4-2020 to 30-4-2020

S. T. Patil	Software Modeling & Design (6)	Youtube	25-3-2020 to 30-4-2020
A. V. Taware	Embedded Systems & Internet of Things (5)	Youtube	26-3-2020 to 30-4-2020
V. N. Surywanshi	Enterprise resource planning (5)	Youtube	27-03-2020 to 30-4-2020
K. P. Birla	Web Technology (3)	Youtube	7-4-2020 to 20-4-2020
M. J. Patil	Systems Programming & Operating System (5)	Youtube	24-3-2020 to 30-4-2020
N. M. Pagare	Microprocessor (5)	Youtube	25-3-2020 to 26-4-2020
S. A. Gade	Programming and Problem Solving (6)	Youtube	24-3-2020 to 30-4-2020
S. D. Jadhav	Software Modeling & Design (5)	Youtube	24-3-2020 to 30-4-2020
M. N. Shinde	Programming and Problem Solving (12)	Youtube	27-3-2020 to 30-4-2020
G. R. Gupta	Principles of Programming Languages (6)	Youtube	25-3-2020 to 27-3-2020
P. D. Rakibe	Intellectual Property Rights (1), Advanced Data Structures Lab (3), Systems Programming & Operating System Lab (3)	Youtube	25-3-2020 to 1-5-2020
T. N. Date (Electrical)	NMCP Power Quality	Google Classroom	15 Dec 2019, 20 June 2019
G. N. Jadhav	Power System-II Power System-I Analog and Digital Electronics Basic Electrical Engineering	Google Classroom	15 Dec 2019 15 Dec 2019 15 June 2019 01 Aug 2019 & 01 Jan 2020
R. S. Mane	Material science	Google Classroom	15 June 2020
M. R. Rade	Power Generation Technology Power System Operation and Control	Google Classroom	15 June 2020 15 June 2020
B. V. Deshmukh	Network Analysis	Google Classroom	20 June 2020
A. M. Jain	Basic Electrical Engineering Network Analysis Electrical Machine	Google Classroom	15 May 2019 25 May 2019 05 June.2019
S. K. Shinde	Elect. Workshop SGP	Google Classroom	14 May 2020 20 April 2020
P. V. Gautam	Energy Audit HVDC & FACTS	Google Classroom, Moodle	20 March 2020 20 March 2020
Dr. P. D. Bhamre (IT)	Basic Electronics Engineering (12 videos)	Youtube.com	20 March to 30 April 2020
S. V. Purkar	Basics of Computer Network (6 videos)	Youtube.com	2 May to 31 May 2020

S. P. Mene	System Programming (8 videos)	Youtube.com	20 March to 30 April 2020
R. M. Bora	Data Science and Big Data Analytics (5 videos)	Youtube.com	20 March to 30 April 2020
U. K. Gaikwad	Ubiquitous Computing (10 videos)	Youtube.com	20 March to 30 April 2020
S. R. Deshmukh	Distributed Computing Systems (6 videos)	Youtube.com	20 March to 30 April 2020
S. N. Chaudhari	Processor Architecture and Interfacing (7 videos)	Youtube.com	20 March to 30 April 2020
K. N. Somwanshi	Data Structures and Files Internet Web Programming (9 videos)	Youtube.com	20 March to 30 April 2020
P. B. Mahale	Cloud Computing Internet of Things (7 videos)	Youtube.com	20 March to 30 April 2020
P. R. Kadam	Social Media Analytics Design and Analysis of Algorithms (9 videos)	Youtube.com	20 March to 30 April 2020
M. B. Murugkar (Mechanical)	Mechanics, Thermodynamics	Youtube.com	20 March to 30 April 2020
Dr. P. B. Kushare	Machine Design Engineering	Youtube.com	20 March to 30 April 2020
Dr. M. N. Shelar	Energy engineering Refrigeration and air-conditioning Thermodynamics	Youtube.com	20 March to 30 April 2020
Dr. S. D. Barahate	Heat Transfer, Energy Engineering, Refrigeration and Air Conditioning, EAM.	Youtube.com	20 March to 30 April 2020
Dr. V. S. Patil	Heat Transfer, Applied Thermodynamics	Youtube.com	20 March to 30 April 2020
V. K. Patil	Design of Machine Elements I, Design of Machine Elements II	Youtube.com	20 March to 30 April 2020
V. V. Khond	Mechatronics, Industrial Engineering, Strength of Materials	Youtube.com	20 March to 30 April 2020
A. S. Patil	Engineering Graphics and Systems in Mechanical Engineering	Youtube.com	20 March to 30 April 2020
S. V. Kadbhane	Energy Engineering, FEA	Youtube.com	20 March to 30 April 2020
P. B. Surwade	Fluid Mechanics, Turbomachines	Youtube.com	20 March to 30 April 2020
P. S. Pillai	Thermodynamics	Youtube.com	20 March to 30 April 2020
C. S. Mhasde	Manufacturing Process and Solid Moelling and Drafting	Youtube.com	20 March to 30 April 2020
R. V. Bhandare	Mechanical System Design and Dynamics of Machinery	Youtube.com	20 March to 30 April 2020

M. R. Pardeshi	Mechanical System Design, Hydraulics and Pneumatics and Metrology and Quality Control	Youtube.com	20 March to 30 April 2020
P. R. Rahane	Engineering Materials and Metallurgy	Youtube.com	20 March to 30 April 2020
M. P. Panchbhai	Theory Of Machines I, Theory Of Machines II	Youtube.com	20 March to 30 April 2020
A. D. Bhagure	Numerical Methods and Optimization, CAD CAM	Youtube.com	20 March to 30 April 2020
S. S. Kale	Refrigeration and Air Conditioning, Energy audit and management	Youtube.com	20 March to 30 April 2020
R. D. Rakhade	Industrial Engineering, Finite Element Analysis, GATE, R&D, BE Project	Youtube.com	20 March to 30 April 2020
N. V. Patil	Numerical Methods and Optimization, CAD CAM, FEA, Solid Modeling & Drafting	Youtube.com	20 March to 30 April 2020
P. K. Kavale	Industrial Engineering, Mechatronics, Hydraulic & Pneumatics , Turbo Machines	Youtube.com	20 March to 30 April 2020
M. S. Sonawane	Engineering Graphics	Youtube.com	20 March to 30 April 2020
G. R. Rayjade	Theory of Machines , Dynamics of Machinery	Youtube.com	20 March to 30 April 2020
V. G. Galande	Theory Of Machines I, Theory Of Machines II, Kinematics of Machinery	Youtube.com	20 March to 30 April 2020
R. V. Bhaskar	Engineering Metallurgy, Metrology and Quality Control	Youtube.com	20 March to 30 April 2020
P. R. Beldar	Hydraulics and Pneumatics, Numerical methods and Optimization, solid modeling and Drafting, Automobile Engineering	Youtube.com	20 March to 30 April 2020
S. D. Mate	Design of Machine Elements II, Dynamics of Machinery, Manufacturing Process, Engineering Metallurgy	Youtube.com	20 March to 30 April 2020
M. V. Bhadak	Manufacturing Processes II, Advanced Manufacturing process, Strength of Materials	Youtube.com	20 March to 30 April 2020
M. R. Bahiram	Engineering Graphics	Youtube.com	20 March to 30 April 2020
B. G. Patil	Heat Transfer, Applied Thermodynamics	Youtube.com	20 March to 30 April 2020
N. S. Dixit	Material Science & Metallurgy, Finite Element	Youtube.com	20 March to 30 April 2020

	Analysis, Design of Machine Element, Mechanical System Design		
P. B. Ranade	Engineering Graphics, Systems in Mechanical Engineering	Youtube.com	20 March to 30 April 2020
P. D. Ahire	Solid Mechanics	Youtube.com	20 March to 30 April 2020
Y. V. Borse	Fluid mechanics, Material science and Turbomachines	Youtube.com	20 March to 30 April 2020
C. D. Valunj	Engineering Graphics and Systems in Mechanical Engineering	Youtube.com	20 March to 30 April 2020
V. D. Nichit	Automobile Engineering, Product Design & Development, Mechatronics, Design of Machine Elements I	Youtube.com	20 March to 30 April 2020
S. G. Gokhale	Advance manufacturing processes, Manufacturing process, Systems in mechanical engineering	Youtube.com	20 March to 30 April 2020
M. M. Dhanait	Engineering Metallurgy, Systems in mechanical Engineering	Youtube.com	20 March to 30 April 2020
A. S. Visave	Manufacturing Practices, Automobile Engineering, Systems in Mechanical Engineering	Youtube.com	20 March to 30 April 2020
Dr S. S. Morade (E&TC)	Microcontroller Advanced Processor	Google Classroom	28/6/2019 21/12/2019
Dr. M. R. Admane	Embedded Processor Artificial Intelligence and Machine learning	Google Classroom	18/12/2019 21/12/2019
Dr. K. S. Holkar	Basic Electronics Engineering	Google Classroom	17/8/2019
S. P. Munot	Digital Signal Processing, Digital Signal Processing and Application, Integrated Circuits	Google Classroom	28/6/2019 28/12/2019 28/12/2019
R. R. Khinde	Computer Networks & Security	Google Classroom	25/6/2019
M. P. Joshi	Internet of things Audio Video Engineering	Google Classroom	25/6/2019 18/12/2019
D. C. Shimpi	Programmable Logic Design Digital Communication Analog Communication	Google Classroom	28/12/2019 25/6/2019 18/12/2019
R. V. Chothe	Electronic Devices and Circuits Computer Networks & Security Information Theory, Coding and Communication Networks	Google Classroom	26/6/2019 26/6/2019 20/12/2019

N. M. Bhujbal	Instrumentation Systems Programmable Logic Design	Google Classroom	28/6/2019 25/12/2019
S. V. Shelke	Digital Electronics Employability skills and Mini project	Google Classroom	25/6/2019 18/12/2019
S. S. Ansari	Integrated Circuits	Google Classroom	28/6/2019
K.S. Navale	Advance Power Electronics Power Electronics and Applications Object Oriented Programming Renewable Energy	Google Classroom	22/6/2019 22/6/2019 25/12/2019 25/12/2019
P. P. Patil	Data Communication Analog Communication	Google Classroom	18/6/2019 18/12/2019
P. J. Mondhe	Mechatronics Mobile Communication	Google Classroom	18/6/2019 21/12/2019
K. Nirmalakumari	Fundamentals of HDL VLSI Design Audio Video Engineering	Google Classroom	25/12/2019 18/6/2019 18/12/2019
Dr. D. M. Chandwadkar	Power Electronics	Youtube	24/3/2020 to 30/4/2020
Dr. K. S. Holkar	Bio Medical Electronics & Control System	Youtube	24/3/2020 to 30/4/2020
S. P. Munot	OP-AMP and DSP	Youtube	24/3/2020 to 30/4/2020
Dr. S. A. Patil (Ugale)	Broadband Communication	Youtube	24/3/2020 to 30/4/2020
Dr. S.S. Morade	Electromagnetics	Youtube	24/3/2020 to 30/4/2020
R. R. Khinde	Computer Networks	Youtube	24/3/2020 to 30/4/2020
M. P. Joshi	Audio Video Engineering	Youtube	24/3/2020 to 30/4/2020
V. R. Lele	Object Oriented Programming	Youtube	24/3/2020 to 30/4/2020
D. C. Shimpi	PLC and Automation Analog communication	Youtube	24/3/2020 to 30/4/2020
R. V. Chothe	Information Theory, Coding and Communication Networks	Youtube	24/3/2020 to 30/4/2020
S. A. Karpe	System Programming and Operating System	Youtube	24/3/2020 to 30/4/2020
N. M. Bhujbal	Automotive Electronics	Youtube	24/3/2020 to 30/4/2020
S. V. Shelke	Basic Electronics	Youtube	24/3/2020 to 30/4/2020
S. S. Ansari	Integrated Circuits	Youtube	24/3/2020 to 30/4/2020
D. D. Khartad	Energia IDE	Youtube	24/3/2020 to 30/4/2020
K. S. Navale	Renewable Energy	Youtube	24/3/2020 to 30/4/2020
P. P. Patil	Electronics Communication Design	Youtube	24/3/2020 to 30/4/2020
S. S. Dongare	Basic Electronics Engineering	Youtube	24/3/2020 to 30/4/2020
P. J. Mondhe.	Mechatronics	Youtube	24/3/2020 to 30/4/2020
K. Nirmalakumari	FHDL	Youtube	24/3/2020 to 30/4/2020
S. A. Zalte	Basic electronics	Youtube	24/3/2020 to 30/4/2020
J. R. Shinde	Biomedical Electronics	Youtube	24/3/2020 to 30/4/2020
Dr. V. S. Mane (Chemical)	Heat Transfer (3)	Youtube	27-3-2020 to 30-4-2020

V. N. Mawal	Chemical Engineering Design (3)	Youtube	27-3-2020 to 30-4-2020
S. N. Jain	Fluid Mechanics (3)	Youtube	27-3-2020 to 30-4-2020
G. B. Daware	Mechanical Operations (3)	Youtube	27-3-2020 to 30-4-2020
M. K. Ahire	Chemical Reaction Engineering (3)	Youtube	27-3-2020 to 30-4-2020
P. P. Joshi	Process Instrumentation and Control (3) Nanotechnology (2)	Youtube	27-3-2020 to 30-4-2020
Z. K. Deshmukh	Chemical Process Safety (5)	Youtube	27-3-2020 to 30-4-2020
T. B. Mahale	Chemical Engineering Thermodynamics (3)	Youtube	27-3-2020 to 30-4-2020
P. Varsha	Chemical Engineering Thermodynamics (3)	Youtube	27-3-2020 to 30-4-2020
Dr. P.J. Pawar (Production)	Industrial Robotics (03) Numerical Techniques & Optimization Methods (03)	You tube	26 March to 15 May 2020
Dr. S.R. Gangurde	Tool Design(7)	You tube	31 March to 30 April 2020
Dr. N.B. Gurule	Engineering Graphics (22)	You tube	31 March to 30 April 2020
A.S. Kamble	Engineering Graphics (04)	You tube	31 March to 30 April 2020
S.B. Gunjal	Computer Integrated Design and Manufacturing (6)	You tube	31 March to 30 April 2020
M.Y. Khalkar	Theory of Machines(08)	You tube	30 March to 30 April 2020
V.S. Gaikwad	Design of machine Elements (03)	You tube	31 March to 30 April 2020
A.D. Mandlik	Machine Tool Engineering (05) World Class Manufacturing (01)	Youtube	30 March to 30 April 2020
S.B. Sangle	Process Planning and Tool selection(5) Soft Skill (2)	Youtube	31 March to 30 April 2020
N.S. Wakchaure	Machine Tool Operation (02)	Youtube	31 March to 30 April 2020
Dr. S.P.Dhake (MBA)	Financial Management	You Tube	25 March to 29 April 2020
A.S.Mohgaonkar	Legal Aspect	You Tube	26 March to 29 April 2020
Dr.S.J.Gadge	International HRM Marketing Research	You Tube	26 March to 19 May 2020
H.S.Rayate	Startup and New Venture Management- Competency Based HRM	You Tube	26 March to 29 April 2020
A.A.Hippalgaonkar	Operations and Supply Chain Management Planning and control of Operations	You Tube	24 March to 31 May 2020
Dr. S.N. Kadlag (App.Science & Maths)	Engineering Mathematics-II (05)	Youtube	09/04/2020 to 19/04/2020
Dr. S.S. Naik	Engineering Mathematics-II	Youtube	09/04/2020 to 26/06/2020

	(15)		
Prof. S.S. Joshi	Engineering Physics (10)	Youtube	30/03/2020 to 25/06/2020
Dr. A.W.M.H.Ansari	Engineering Chemistry (48)	Youtube	29/03/2020 to 24/06/2020
Dr. D.Y. Patil	Engineering Chemistry (09)	Youtube	23/03/2020 to 26/06/2020
A. L.Mourya	Engineering Mathematics-I & III (04)	Youtube	27/03/2020 to 01/05/2020
S. S. Kahandal	Engineering Chemistry (17)	Youtube	03/04/2020 to 26/06/2020
Dr. A. C. Pawar	Engineering Physics (12)	Youtube	30/03/2020 to 27/06/2020
Dr.G. B. Dabhade	Engineering Chemistry (11)	Youtube	27/03/2020 to 24/04/2020
P. S. Shahir	Engineering Mathematics-II & III (16)	Youtube	30/03/2020 to 25/06/2020
H. S. Tajanpure	Engineering Mathematics-II & III (14)	Youtube	03/04/2020 to 26/06/2020
R. S. Unhale	Engineering Mathematics-II & III (16)	Youtube	27/03/2020 to 23/06/2020
M. J. Kshirsagar	Engineering Mathematics-II & III (23)	Youtube	30/03/2020 to 24/06/2020
S. M. Shinde	Engineering Chemistry (17)	Youtube	18/03/2020 to 27/06/2020
V. N. Chavan	Engineering Physics (06)	Youtube	11/04/2020 to 12/04/2020
A.B. Shinde	Engineering Mathematics-II (06)	Youtube	01/04/2020 to 26/06/2020
R. R. Bhatia	Engineering Mathematics-II & III (08)	Youtube	03/04/2020 to 26/06/2020
Dr. V. C. Bagal (MCA)	Operating System(8), Management Information System(5)	Youtube	25/03/2020 to 26/06/2020
A. L. Rane	Java Programming(15), Python Programming(2), Software Testing and Quality Assurnace (5)	Youtube	25/03/2020 to 26/06/2020
M. E. Maniyar	Banking & FAM(6), Computer Networks and Information Security(5), Computer Networks (5)	Youtube	25/03/2020 to 26/06/2020
M. R. Sonar	Compurt Organization(6) Animation and Gaming(5) Python Programming(4)	Youtube	25/03/2020 to 26/06/2020
P. G. Fegade	Advanced DBMS (9) , Data Warehousing, Data Mining and Business Intelligence (5)	Youtube	25/03/2020 to 26/06/2020
Dr. R. A. Gangurde	Information System Audit (3) Recent Technologies in IT (4) Database Management System (2)	Youtube	25/03/2020 to 26/06/2020
P. S. Pimple	Probability and statistics (10) Web Technology(5)	Youtube	25/03/2020 to 26/06/2020
Dr. P. D. Jadhao	Foundation Engineering (03)	You tube	26 March to 30 April 2020

(Civil)			
Dr. S. Y. Kute	Dams and Hydraulic Structures	You tube	26 March to 30 April 2020
Dr. P. D. Dhake	Structural Design II (03)	You tube	26 March to 30 April 2020
Dr. V. K. Patil	Advanced Surveying (03)	You tube	26 March to 30 April 2020
S. R. Vhatkar	Concrete Technology (05)	You tube	26 March to 30 April 2020
S. N. Chaudhari	Architectural Drawing and Design of Building (03)	You tube	26 March to 30 April 2020
C. D. Kadbhane	Quantity Surveying and Valuation (03)	You tube	26 March to 30 April 2020
P. L. Pathak	Environmental Engineering II (03)	Youtube	26 March to 30 April 2020
M. S. Ugale	Concrete Technology (03)	Youtube	26 March to 30 April 2020
E. P. Galgalikar	Engineering Geology (02) and Fluid Mechanics I (02)	Youtube	26 March to 30 April 2020
A. A. Vaidya	Engineering Mechanics (02)	Youtube	26 March to 30 April 2020
A. J. Pawar	Structural Analysis I (03)	Youtube	26 March to 30 April 2020
S. U. Pandit	Fluid Mechanics (03) Construction Management (03)	Youtube	26 March to 30 April 2020
S.R. Wani	Structural Design II (05)	Youtube	26 March to 30 April 2020
A. A. Pisolkar	Architectural Drawing and Design of Building (03)	Youtube	26 March to 30 April 2020
N. V. Sonawane	Environmental Engineering II (03)	Youtube	26 March to 30 April 2020
N. A. Ahire	Project Management and Engineering Economics (03) and Hydropower Engineering (03)	Youtube	26 March to 30 April 2020
A. V. Dudhekar	Engineering Mechanics (04) Plumbing Engineering (03)	Youtube	26 March to 30 April 2020
S. B. Ghadoje	Plumbing Engineering (03)	Youtube	26 March to 30 April 2020
G. R. Sawant	Advanced Surveying (03)	Youtube	26 March to 30 April 2020
G. S. Madan	Foundation Engineering (03)	Youtube	26 March to 30 April 2020

4.4 Maintenance of Campus Infrastructure			
4.4.1 Expenditure incurred on maintenance of physical facilities and academic support facilities, excluding salary component, during the year			
Assigned budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurred on maintenance of physical facilities
13602100.00	34277365.00	15579800.00	17693044.00
4.4.2 Procedures and policies for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc. (<i>maximum 500 words</i>) (information to be available in institutional Website, provide link)- https://engg.kkwagh.edu.in/institute_policy			
<ul style="list-style-type: none"> • 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, audio-visual section and offices for librarian and Professor In charge (Library). • 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. • ‘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. 			

CRITERION V - STUDENT SUPPORT AND PROGRESSION			
5.1 Student Support			
5.1.1 Scholarships and Financial Support			
	Name /Title of the scheme	Number of students	Amount in Rupees
Financial support from institution	Institute Merit Scholarship	198	7,20,000
Financial support from other sources			
a) National	Support to Students for Participating in Competition Abroad (SSPCA) scheme	10	10 Lac (Not utilized due to Covid)
b) International	Nil	Nil	Nil
5.1.2 Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,			
Name of the capability enhancement scheme	Date of implementation	Number of students enrolled	Agencies involved
Team Building and Motivational Workshop for 2nd year students	1-7-2019 to 6-7-2019	360	Mr.Subodh Deshmukh, CEO, Rangshastra Textiles
Campus Readiness Training programme for BE Students	5-7-2019 to 9-7-2019	55	Mr. Kiran Derle, CEO Target Campus, Nashik
TCS Specific Online Practice test 2019-2020	13-07-2019	105	KKWIEER-T&P Cell
KPIT Specific Online Practice test 2019-2020	13-07-2019	81	KKWIEER-T&P Cell
Persistent Specific Online Practice Test	13-07-2019	76	KKWIEER-T&P Cell
FINIQ Specific Online Practice test	13-07-2019	138	KKWIEER-T&P Cell
TPO Connect SE Chemicals Students	16-07-2019	46	KKWIEER-T&P Cell
TCS Specific training programme for Shortlisted StudentsA	19-7-2019 to 27-7-2019	80	Mr Kiran Derle, CEO Target Campus, Nashik
Mock Interview & Aptitude Test	22-07-2019	637	HR Managers and KKWIEER-T&P Cell
Mock Interview for Final Year students	22-7-2019 to 31-7-2019	126	Mr Kiran Derle, CEO Target Campus, Nashik
TPO Connect to BE Electrical Classes	24-07-2019	31	KKWIEER-T&P Cell
Crash Course on Aptitude Training for Final Year Student" By Target campus and Team	26-7-2019 to 28-7-2019	65	Mr Kiran Derle, CEO Target Campus, Nashik

TPO Connect	1-8-2019 & 2-8-2019	186	KKWIEER-T&P Cell
Mock Interview	1-8-2019 & 2-8-2019	251	HR Managers
Epiroc Mining Aptitude test	09-Aug-19	14	KKWIEER-T&P Cell
Pratiti Tech Online Practice test	22 August,2019	61	KKWIEER-T&P Cell
Study Abroad: Counseling	28-08-2019	49	Akshay Study Abroad
TPO Connect for TCS Shortlisted Students	28-08-2019	29	K K Wagh IEER-T&P Cell
Rawbid Internship Session for civil Students	04-09-2019	21	Rawbid Copmany
KPIT-Sparkle-HR Connect	09-09-2019	67	Mr Anand Sarda
Expert Talk on Innovation in Engineering	16-09-2019	64	TCS DISQ
University Entry Scheme-2020	16-09-2019	34	UDAAN Foundation
Overseas Education Talk Session	17-09-2019	96	Horizon Consultancy Services
Microsoft Specific Online Aptitude test	18-09-2019	144	KKWIEER-T&P Cell
Practice Test 2 2019-20	18-09-2019	126	KKWIEER-T&P Cell
Online Practice Aptitude Test	20-09-2019	151	KKWIEER-T&P Cell
Neuro On QUIZ Competition	20-09-2019	162	KKWIEER-T&P Cell
Opportunity in Indian Navy-UES-An Expert Talk Session	20-09-2019	81	Indian Navy Expert
TPO Connect For TE-IT and MCA Students	20-09-2019	47	KKWIEER-T&P Cell
Eternus Solution Practice test	24-09-2020	31	KKWIEER-T&P Cell
Cognizant Solution Practice Test	24-09-2020	58	KKWIEER-T&P Cell
ABB India Ltd Practice Test	24-09-2020	41	KKWIEER-T&P Cell
Mock Interview Aptitude test 2019-2020	30-09-2020	169	KKWIEER-T&P Cell
Zensar Training Programme	01-10-2019	79	RP Goenka Foundation
TPO Connect for TE - Civil Engineering 1st and 2nd Shift	02-10-2019	128	KKWIEER-T&P Cell
TPO Connect E&TC	03-10-2019	87	KKWIEER-T&P Cell

and Electrical			
TE TPO Connect Practice Test	03-10-2019	330	KKWIEER-T&P Cell
Mock Interview for BE Computer, Electrical, Mechanical, Production, Civil Engg. students	04-10-2019	109	KKWIEER-T&P Cell
ABB Specific Interview	05-10-2019	96	K K Wagh alumni working in ABB
Mock interview	07,09,10-10-2019	27+38+81	Ms.Shilpa Kulkarni, HR Head
Wipro Technology Practice test	24-10-2019	39	KKWIEER-T&P Cell
Zensar Training Programme (core Java)	10-12-2019 to 25-12-2019		RP Goenka Foundation: Mr Rohit Agarwal.Mr Sanjay Bafna,Mr Jay Vegasana
Expert Talk by Mr Amit Jadhav -DBS Bank Singapore	10-12-2019 to 25-12-2019	70	K K Wagh Alumni Mr Amit Jadhav working in DBS bank
FINIQ Practice Aptitude Test 1 for Third Year Students	27-12-2019	116	KKWIEER-T&P Cell
FINIQ Practice Aptitude Test 2 for Third Year Students	28-12-2019	32	KKWIEER-T&P Cell
FINIQ Mock Interview	28-12-2019	80	Mr Gokhale
Job opportunities in Japan	04-01-2020	77	Mr Mahesh Patil
Persistent System training for Selected students	08-01-2020	12	Persistent System
Mock Campus interview : Emerson"	09-01-2020	50	Ms Mitali, Alumnus working in Emerson
Infosys Mock Practice 2019-2020	09-01-2020	61	KKWIEER-T&P Cell
Infosys Specific Aptitude Tests	11-1-2020 to 13-01-2020		Mr Kiran Derale
Zensar Feedback programme	17-01-2020	24	Mr Amol Nitave
Webinar on Infyq: Hackathon Contest	23 and 24 Jan 2020		Mr. Sanjay Singh
Emerson Practice Test 2019-2020	24-01-2020	17	KKWIEER-T&P Cell
KSB Pump Mock Test	24-01-2020	100	KKWIEER-T&P Cell
KSB Pump Mock Interview	25-01-2020	119	KSB Select Alumini
Zensar training programme	15-02-2020		Zensar
Amdocs Expert Talk	22-02-2020		Ms Floria Joseph

An Introductory session for Higher study abroad	24-02-2020	217	Akshay Study Abroad
CV writing workshop	6-2-2020 to 26-2-2020	650	Mr Kiran Derle, CEO Target Campus, Nashik
TPO Connect	27th March-2020	100	KKWIEER-T&P Cell
Online Practice Test1 For TE 2019-20 Students	01-Apr-20	152	KKWIEER-T&P Cell
TPO Connect- First Year Students: E&TC, Electronics and Electrical	1st April-2020	100	KKWIEER-T&P Cell
TPO Connect- First Year Students- Mechanical and Production	2nd April-2020	100	KKWIEER-T&P Cell
TPO Connect- First Year Students- Civil and Chemical	3rd April-2020	100	KKWIEER-T&P Cell
TPO Connect Third Year Students- Computer/IT/Electronics/E&TC/Pre-Final Year MCA	17th April-2020	100	KKWIEER-T&P Cell
TPO Connect Third Year Students- Mechanical, Electrical, Chemical, Civil, Production	18th April-2020	50	KKWIEER-T&P Cell
Test 1 TE 2019-20 Students	18-Apr-20	114	KKWIEER-T&P Cell
Aptitude Practice Test 1 Post Covid19	25-April-2020.	165	KKWIEER-T&P Cell
Industry Connect	1st May-2020	200	Mr. SOHALE ASHUTOSH, HR Head, Mahindra and Mahindra
Career Opportunities in German: Post Covid-19	2nd May-2020	205	Mr. Nikhil CEO, Nikhil Medico, German
Higher Study Opportunities in Abroad: Post Covid19	4th May-2020	77	Mr A Gore, Director, Akschay Study Abroad
Industry Connect	8th May-2020	234	Mr Ajay Vidyabhanu
Industry Connect	13th May-2020	250	Mr Amol Nitave,CEO and Founder, EvolvingX, Pune
Industry Connect	13th May-2020	250	Mr Amol Nitave,CEO and Founder, EvolvingX, Pune
Industry Connect	16th May-2020	656	Mr Amol Deshpande, Mahindra & Mahindra
Industry Connect-7 Habits of Highly	16th May-2020	100	Mr Sagar Ladda, Alumnus working as Manager in Varroc Industries,

Effective People and Their Correlation With Industries			Aurangabad
Industry Connect	16th May-2020	30	Siddika Parab, Lentria AI Pvt Ltd Pune
Industry Connect	26th May-2020	5	Mr Mitul Shaha, Industrialist
Industry Connect: HR Connect: Relevat Behavioural Skill Post Covid-19-An HR Perspective	29th May-2020	137	Mr Yash Wagh, VP, Winjit Technologies
Opportunities in Japan: Inteaction with Japan Team	29th May-2020	232	Mr Mahesh Patil, Alumnus
Workshop on Making Professional CVs	30th May-2020	155	Ms Shilpa Prabhu, CEO, Ramkrishna IT Systems, Pune
Industry Connect	2nd-June-2020	10	Ms P Sindhu, HR Head, Arees
Webinar on "Navigating Carrer Opportunities in Current Situation"	16th June-2020	421	Mr Abdul Razak, TPO, Manipal University, Dubai
Webinar on "Journey from K K Wagh Student to CEO by Mr Jaydeep Anand, Dubai"	18th June-2020	625	Mr Jaydeep Anand, Dubai
Mentoring Scheme	2019-20	All students (3934)	All Faculty (215)
Remedial coaching	20/11/2019	13 (Subject – Theory of Computation)	Computer Engg.
Language lab	2019-20	138	Computer Engg.
Soft skill Development	19/06/2019	143	Electrical Engg.
Remedial Coaching	21/11/2020	04	Electrical Engg.
Language Lab	27/06/2019	143	Electrical Engg.
Skill & Personality Development Program Center for SC-ST Student Sponsored by AICTE (E & TC)	01/06/2020	193	Words MAYA Edutech Pvt. Ltd. Personality Development Workshop conducted by Mr. Shrikant Karode
Yoga & Meditation	Jan.to Mar.2020	74	Mrs. Sunanda Sakhdev, Yoga Trainer
Language lab	Aug. to Oct. 2019	74	IT
Remedial coaching	10/08/2019	3	MCA
Language lab	2019-20	81	MCA
Meditation	18 th Nov 2019 to 23 rd Nov 2019	37	Yog VidyaDham, Nashik
Language lab	2019-20	60	MBA
Employability & Critical Thinking Skills	28/11/2019	338	Amol Nitve, CEO, Zensar Knowledge Park. Mangesh Vadge, CEO, Highbar

			Technocrat Ltd,
Improve your EQ, IQ & SQ through Sahaj Yoga	19, 20/05/2020	82	Sahaj Yoga International, Noida
Remedial lectures on Engineering Mechanics	SEM-I- 13/08/2019 SEM-II- 07/01/2020	760 (All first year students)	Prof. M.B.Murugkar

5.1.3 Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the scheme	Number of benefited students by Guidance for Competitive examination	Number of benefited students by Career Counseling activities	Number of students who have passed in the competitive exam	Number of students placed
2019-20	Career guidance expert lectures on Study Abroad, Preparation for MBA Entrance and Campus placement (Chemical Engg.)	221	221	Nil	16
2019-20	Competitive Exam Forum(Civil Engg.)	05	05	00	05
2019-20	Expert Lecture on 1) Preparation for competitive Examination, 2) Career opportunities, 3) Job Opportunities in Gulf for electrical Engineers, 4) Opportunities in Industrial Automation , 5) Entrepreneurship, 6) Soft skills for success (Electrical Engg.)	144	144	10	41
2019-20	Expert Lecture on Opportunities through GATE-EC and MTech (E&TC Engg)	58	58	Nil	Nil
2019-20	Expert Lecture on Opportunities in Government & Private Sector (E&TC Engg)	56	56	Nil	Nil
2019-20	Expert Talk on Job Opportunities and Cyber Security in Banking at Abroad by Mr. Amit Jadhav, Sr. Vice President DBS Bank Singapore	Nil	50	Nil	Nil
2019-20	Expert Talk on Job Opportunities in Japan by Mr. Mahesh Patil, Research Scholar, Tokushima University, Japan	Nil	43	Nil	Nil

2019-20	Expert Talk on "Study in Germany" by Mr. Nishant Kumar, Alumni of KKWIEER	Nil	46	Nil	Nil
2019-20	Online Guidance Session on "Study Abroad- Effects of COVID 19" by Mr. Amit Gore, Director, Akshay Study Abroad	Nil	53	Nil	Nil
2019-20	Online guidance Session on "Study Abroad" by Mrs. JayashreeRaghuram, Head, South East Asia, Leeds Backett University, United Kingdom and Mr. Geet Kulkarni from GeM in You,Nashik	Nil	45	Nil	Nil
2019-20	Online guidance session on "Job Opportunities in Japan" by Mr.Mahesh Patil, Research Scholar, Japan and Ms. Ana Tatebeta, Research Scholar, Japan	Nil	43	Nil	Nil
2019-20	Online Expert Session on "Doing Masters in Germany" by Mrs. Hemal Shah, Marketing Manager, BitTRACK Consultants Pvt. Ltd., Ahmadabad and Mr. Geet Kulkarni from GeM in YOU, Nashik	Nil	40	Nil	Nil
2019-20	Online Expert Talk on "Jobs and Higher Study opportunities in Japan-Post Covid 19 Scenario" by Mr. Mahesh Khaire, CEO and Director, YuZen Consultancy Pvt. Ltd., Mumbai	Nil	75	Nil	Nil

5.1.4 Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year

Total grievances received	No. of grievances redressed	Average number of days for grievance redressal
0	0	0

5.2 Student Progression

5.2.1 Details of campus placement during the year

On campus	Off Campus
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Name of Organizations Visited	Number of Students Participated	Number of Students Placed	Name of Organizations Visited	Number of Students Participated	Number of Students Placed
ABB India Ltd.	40.	3	Art Rubbers Pvt Ltd		2
Adani	158	10	Atharva Cosmetics Pvt Ltd		2
Alok Ingots	88	4	Brainchamber Technologies Pvt Ltd		2
Amdocs	28	12	Calibre Engineering Vapi		1
Aress Software	51	14	Tata Chemicals Mumbai		1
Bluepineapple	200	1	Writers Information		1
Bosleo	15	2	Assist to CA		1
Capgemini	200	19	Eaton		3
Cognizant	150	23			
Dark Horse	44	3			
Dmart	45	3			
Dreamware	19	1			
Eagle Peak	2	1			
Emerson	27	5			
Eternus Solutions	70	5			
eZest	50	1			
Federal Bank	90	3			
FinIQ	113	12			
Hind Rectifier	41	4			
ICICI Prudential	21	5			
Infogen	73	2			
Infosys	300	66			
Instazen	50	2			
Jindal Saw Limited	79	2			
Jindal Poly Films Limited	16	1			
Josh Software	210	2			
JSW Steel Ltd, Dolvi	271	7			
KPIT Technologies	85	17			
KSB Ltd.	64	3			
Laxmi Agni	62	6			
Lentra AI	27	3			
Lupin	12	2			
Meffier	30	2			
Mindstix Software Labs	150	4			
Montran Corporation	57	8			
MSS Industries	56	6			

Pvt. Ltd.					
Mygate	108	6			
Netwin Infosolutions	38	2			
Persistent Systems	170	13			
Portescap	32	2			
PRAJ	103	5			
Pratiti Technologies	108	3			
Qspider	160	6			
Rishabh	126	3			
TCS	58	27			
TOYO Engineering	37	1			
UMS Tech Labs	33	3			
Vidyut Udyog	36	2			
winjit	66	5			
Wipro	37	9			
Zensoft Pool	50	2			
Parksyde	18	1			
LG	60	5			
Reliance	60	3			
	Total	362		Total	13

5.2.2 Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of Programme admitted to
2019-20	Pawar Bhairavi Vijay	B.E.	Civil Engg.	COEP, Pune	M Tech
2019-20	Khalkar Roshan Arun	B.E.	Civil Engg.	NICMAR, Pune	PGP ACM
2019-20	Patel Mayank Subhashchandra	B.E.	Civil Engg.	KKWIEER	M E (Structures)
2019-20	Bhagat Mithilesh Namdeo	B.E.	Civil Engg.	KKWIEER	M E (Structures)
2019-20	Sawant Pritish Balasaheb	B.E.	Civil Engg.	KKWIEER	M E (Structures)
2019-20	Sonawane Ankita Jagdish	B.E.	Civil Engg.	KKWIEER	M E (Structures)
2019-20	Agrawal Lalit Sanjay	B.E.	Civil Engg.	KGBTCOE, Nashik	M E (Construction management)
2019-20	Ghule Asmita Chandrakant	B.E.	Civil Engg.	KGBTCOE, Nashik	M E (Construction management)
2019-20	Tembhekar Atharva Khagendra	B.E.	Civil Engg.	NICMAR, Pune	PGP ACM

2019-20	Nikam Shubham Shivaji	B.E.	Civil Engg.	NIT, Surat	M Tech
2019-20	Patil Siddhesh	B. E.	Electrical Engg.	Institute of Rural Management	PG diploma in Management
2019-20	Patil Prerana	B. E.	Electrical Engg.	Indian Institute of Management, Rohtak	Master of Business administration
2019-20	Talukdar Rongheet	B. E.	Electrical Engg.	University of Bolgana, Italy	Master of Science in Electrical Energy Engg.
2019-20	Smital Dhake	B.E.	E & TC Engg.	Kings College, London	MSc in Robotics & Artificial Intelligence
2019-20	Shweta R. Patil	B. E.	Electronics	KKWIEER, Nashik	M.E. VLSI & Embedded System
2019-20	Yash Gupta	B.E.	Electronics	Birla Institute of Technology, Ranchi	M. Tech ECE- Wireless Communication
2019-20	Abhijit Tanaji Kandekar	B.E.	Production	Western New England University, UK	Master of Science in Industrial Engg.
2019-20	Trupti Sonawane	MCA	MCA	Lambton college, Mississigua	Cyber security and forensic science

5.2.3 Students qualifying in state/ national/ international level examinations during the year (eg: NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

Items	No. of Students selected/ qualifying	Registration number/ roll number for the exam
NET	---	---
SET	---	---
SLET	Electrical Engg.- 01	264471
GATE	Chemical Engg.- 01	CH20S36020009
	Civil Engg.- 08	CE20S72064115, CE20S82064666, CE20S82066166, CE20S72066231, CE20S82066112, CE20S82064166, CE20S82066015, CE20S72064073,
	Electrical Engg.- 07	EE20S52066135, EE20S52064100, EE20S52064525, EE20S52064014, EE20S52066107, EE20S52065344, EE20S52065074
	E&TC Engg.- 03	EC20S4206434, EC19S52072350, EC19S52074124
	IT – 03	CS20S62064306, CS20S62064201
	Mechanical Engg.- 06	ME20S12064307, ME20S22065349, ME20S22065263, ME20S22065472, ME20S22064122, ME20S22064098
	Production Engg.- 02	PI20S22064187, PI20S22064071,
GMAT	--	--
CAT	Electrical Engg.- 02	9229558, 9061335,

	Mechanical Engg.- 01 IT -01	9091844 9037023
GRE	Civil Engg.- 01	14418592
	Computer Engg.- 03	5934451, 6410406, 6853316
	Mechanical Engg.- 01	5716305
TOFEL	Computer Engg.- 02	2147111190865630, 4938401201601010
	Production Engg.- 01	633531020918510
Civil Services	--	--
State Government Services	--	--
Any Other	Mechanical Engg.- 01 Mechanical Engg.- 02 MCA- 01	228731(IELTS), 3810005035, 3810005208 (MBA-CET) 030803(IELTS)

5.2.4 Sports and cultural activities / competitions organised at the institution level during the year

Activity	Level	Participants
Inter-National Yoga Day	Institute level	All institute Employees and students.
Cricket (M)	Nashik District Inter-collegiate level	14 team Participation and 210 players.
Karmaveer Premier League	Inter-Department College level	Total 42 team Total Participants & Total 478 Students.
Karmaveer Sports Fest	State level Inter-Engineering Invitational Tournament	42 Team Participation and 551 players.
Maffick 2020	Institute level	All students
ISTE Poster Competition July 2019	Institute level	183 Participants
Elocution competition-Vijigisha on 8/02/2020	Inter-college	150 Participants

5.3 Student Participation and Activities

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

Year	Name of the award/ medal	National/ International	Sports	Cultural	Student ID number	Name of the student
2019-20	Third Place	West Zone Inter-University	Handball	-	0116312002	Kapadne Tejal
2019-20	Representation of University	All India Inter-University	Fencing	-	0119061017	Yash Nikam
2019-20	Winner	All India Inter-University	Cricket	-	0118252008	Mansi Manoj Patil
2019-20	Senior Robo Race	National	Technical	-	0116051006	Pooja Gite (Mechanical)
2019-20	Winner of 2019 - Present Around	National	Technical	-	0116061010	Adarsh Srivastava (Electrical)

	The World , at IET Nashik LN and participation in IET Kanyakumari Local Network					
2019-20	Best Commendation Award at the model IET Young Professionals of South Asia, Bengaluru	National	Technical	-	0116061010	Adarsh Srivastava (Electrical)
2019-20	Winner in Best Design, Best Business plan, Overall winner of Efficycle 2020	National	Technical	-	0118061016 0118061032 0118061008 0118261026 0118261020 0117061014	Shashikant Bhujade Divya Chaudhari Ritesh Bhuta Onkar Parkhe Manish Sarode Vrushali Kailas Badgujar
2019-20	National Level Competition APEX 2020(Project Competition)	National	Technical	-	0119311009	Sonawane Dyandeep (E & TC)
2019-20	G- ESTRONIK 2K20(Project Competition)	National	Technical	-	0119311009	Sonawane Dyandeep (E & TC)
2019-20	Quadbike design Challenge	National	Technical	-	0117311044	Jayesh Pekhale (E & TC)
2019-20	BAJA SAE India 2020	National	Technical	-	0117311042	Adarsh Mali (E & TC)
2019-20	BAJA SAE US Arizona	International	Technical	-	0117311042 0117311302	Adarsh Mali, Nimish Thanekar (E & TC)
2019-20	Effi-Cycle 2019	National	Technical		0117252009 0117252008 0117051058 0117252006 0117252010 0118052015 0117252005 0118052011 0118051067	Pratik Khandelwal Mayur Wable Prasangh Wasekar Pratiksha Ghule Yashraj Darekar Prasad Pandharkar Abhishek Magare

						Prajakta Dhone Sourabha Dhanegaonkar
2019-20	Quad Bike Design Challange season 5	National	Technical		0117052016 0118052023 0118252015 0117052006 0117052008 0117052014 0117052004 0117052003 0117052015 0118252002 0117052029 0117052007 0117051030 0118252005	Pratik Gaikwad Shivdas Chaudhari Ashwin Pawar Raj Gaikwad Shrinit Lambodari Sumit Ugale Harshad Sonawne Harshal R.Patil Ghanshyam Gawande Pratik Badgujar Parsad Pathak Ajinkya Sonawne Omkar Thakre Shubham Nikam

5.3.2 Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

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

- Anti Ragging Committee
- 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
- 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

5.3 Alumni Engagement

5.3.1 Whether the institution has registered Alumni Association? Yes/No, if yes give details (maximum 500 words):

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 the alumni and the present students of Institute and also between the alumni themselves, encouraging them to take an active part in the work and progress of the Institute 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 2015-2020, the alumni association had organized two annual alumni meets and three special focus 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.

5.3.2 No. of registered enrolled Alumni: 3800 (On Almasine Web portal)
5.3.3 Alumni contribution during the year (in Rupees) : 1,40,000/-
5.3.4 Meetings/activities organized by Alumni Association :
<ol style="list-style-type: none"> 1) Pilot Almuni meet on 21/09/2019 at JNEC, Aurangabad and Vadodara . 2) Alumni meet on 16/10/2019 at Mumbai. 3) Grand Alumni meet on 21/12/2019 with 866 participants. 4) Alumni meet on 29/01/2020 at Jalgaon. 5) EPIC: Online Global Alumni meet on 24/5/2020 with 1708 participants through Zoom and 4000 through Facebook live.
CRITERION VI –GOVERNANCE, LEADERSHIP AND MANAGEMENT
6.1 Institutional Vision and Leadership
6.1.1 Mention two practices of decentralization and participative management during the last year (maximum 500 words)
<p>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 departments are authorized to</p> <ul style="list-style-type: none"> • Implement the plans decided by management • Execute Teaching learning process and assessment process • Organise programmes for staff development • Decide the final year projects, their scopes and outcomes • Apply for funding and sponsorships from various organizations • Organise skill development programmes for students of department <p>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. During lockdown departments decided which online platform was to be used for effective online teaching. All teachers participated in developing MCQs for online examinations. Regular meetings of these committees are held for the effective and smooth functioning of the institute.</p> <p>There are three levels of administrative structure under which all the activities of the institute are carried out.</p> <p>Society level - The management of the institute is directed by Governing Body, whose members, are appointed in accordance with the guidelines provided by the Director of Technical Education, Savitribai Phule Pune University and AICTE.</p> <p>Institute level - 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.</p> <p>Department level - The Heads of Department are responsible for the day-to-day administration of the department and report directly to the Principal.</p>

In addition, any staff member of the institute can give suggestions for improvement. Students participate through different formal and informal feedback mechanisms. Suggestion box is kept in every department for suggestions from students. Staff members are encouraged to share experiences and best practices during interaction meetings with Advisory Committee. Management and Trustees are approachable and receive all suggestions.

6.1.2 Does the institution have a Management Information System (MIS)?

YES.

The institute intends 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. Information regarding student attendance, class conduction as well as staff activity record is available for monitoring. The ERP system also aids in effective administration of various activities like admissions, student information, salary and accounts, leave management, staff profiles, online examination, feedback collection Academic Monitoring module etc. Online Fee collection module is operational since June 2020. Uploading of Assignments, notes, study material, sending emails to students, teachers & parents and dashboard to see the completion status of activity is available through the ERP system.

6.2 Strategy Development and Deployment

6.2.1 Quality improvement strategies adopted by the institution for each of the following (with in 100 words each):

Curriculum Development -

- Some of the faculty members of the institute are elected as a member/chairman of Board of studies in engineering of the university and they are playing active role in curriculum design and development.
- The faculty members are encouraged to participate in workshops for curriculum design and development organized by the university.
- The departments organize Curriculum Design workshops and FDP for implementation of revised curriculum.
- Feedback regarding curriculum are collected from faculty, employers and alumni. Most of the suggestions given by various stakeholders are communicated to concerned Board of Studies during up-gradation of curriculum.
- Experts from industry are also invited for syllabus revision meeting organized by institute on behalf of SPPU.
- Suggestions from industry personnel are noted during HR, SME and CEO meet and conveyed to SPPU authorities.

Teaching and Learning –

Quality improvement in teaching & learning is achieved by strict adherence to academic calendar and activities laid down by the University and the institute. Following are the quality improvement strategies-

- Appointment of Dean, Academics.
- Publishing time-table with sufficient number of hours for lectures, labs, self-learning and extra-curricular activities.
- Remedial classes, Mentoring and Counselling to help students at individual level
- Contents beyond the syllabus are addressed through guest lectures, industrial visits, seminars, projects and in plant training.
- Participation and organization of Technical events

- Free access to e-resources.
- Lecture monitoring through student feedback and class observation feedback.
- Students are also encouraged to take up spoken tutorials made available online by IITB.

Examination and Evaluation –

- The institute follows all the evaluation reforms prescribed by the University. The University has directed appointment of Chief Examination Officer as single point contact for the Institute. The major reform is the introduction of In-semester examination. In-semester examination is either online or in written form in each theory course conducted by the University. Internal Assessment at ME, MBA, MCA is carried by concerned faculty as per the guidelines provided by the University.
- The University has introduced Semester wise Credit based Evaluation System from the academic year 2015-2016 for both UG as well as PG programmes. The University has provided the guidelines to grade the performance of a student by means of Semester Grade Point Average and Cumulative Grade Point Average.
- The Continuous Assessment Scheme for evaluation of laboratory work has been adopted by all the departments of the Institute.
- The institute has appointed examination coordinators for each department for smooth conduction of the examination as and when scheduled.
- The institute appoints internal senior supervisor for In-semester and End-semester theory examination.
- Online examinations are conducted in computer labs of respective departments. The Network Administrator takes care of installation of firewall security measures to ensure no malpractices during the online examination.
- Every classroom, laboratory and exam control room is under CCTV surveillance.

Research and Development -

- Appointment of Dean, R&D
- The institute encourages the faculty to apply for research funding and to collaborate with research organizations. Faculty members publish their research findings in conferences and in research journals. Faculty members are encouraged to undertake PhD programme.
- Faculty members are encouraged to become members of professional societies and participate in their activities.
- Conferences and seminars are organized by the institute/departments to attract researchers of eminence to visit the campus and interact with teachers and students.
- Awareness creation for obtaining IPR.

Library, ICT and Physical Infrastructure / Instrumentation-

- Downloading of available E-resources through Intranet on campus and remote access through Knimbus platform.
- Every year newly admitted students are provided with information brochure ‘Know your library’ through which students are made familiar with the facilities/services and resources available in the library.
- Kindle e-book reader facility is available in the reference section.
- Classrooms and seminar halls in the institute are ICT enabled.
- Various courses are being conducted through NME-ICT program under MHRD.
- Curriculum implementation and administration activities are managed through ERP.
- ‘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.
- ‘Furniture and Maintenance’ unit of K. K. Wagh Education Society fulfills the requirement

regarding fabrication and maintenance of furniture in the institute.

- 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 and calibration of the equipment.
- Silent Diesel Generator set 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.

Human Resource Management -

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.
- The performance of the teaching faculty is regularly monitored and evaluated at the department level through feedback from students. Based on the feedback corrective measures are suggested for improving the overall performance of the teachers.
- The institute has a budget allocated for the professional development of the faculty for supporting activities like participating in paper presentation, seminars, conferences, workshops etc.
- Implementation of staff welfare schemes.

Industry Interaction / Collaboration -

- The students are encouraged to pursue their projects in the industry. Several final year projects are sponsored by the industry. This provides an opportunity for students as well as faculty to interact with the industry and to work on new trends and technology.
- The industry also supports the institute to arrange industrial visits and in-plant training.
- The institute organizes the 'Chief Executive Officer (CEO) meet, the 'Small and Medium Enterprise (SME) meet' to discuss various issues regarding employability and curriculum gaps and to explore the areas of mutual benefits.
- The training and placement cell of institute has organized several 'HR meet/ HR connect' to have a direct connect with students to understand the industry expectations during placements.
- The faculty interacts with industry experts, whenever they have been appointed to conduct University project examinations and collect feedback from them to improve on project quality.
- To strengthen the interaction, the institute encourages industry sponsored projects and testing & consultancy projects and signing of MoU.
- Department of Electrical Engg in association with IET, Nashik local network organizes national level working project exhibition, 'IET Karmaveer Expo' every year. The industry experts and students of other institutes visit this exhibition and interact with the participants.
- Weekly expert lecture series for students of all the departments.

Admission of Students -

- Appointment of Dean, Admissions
- Entire admission process for First Year Engg., Direct Second Year Engg., First Year of Post Graduate Programme in Engg., MBA, MCA is defined by the Directorate of Technical Education (DTE), Government of Maharashtra and the institute strictly follows rules laid down by the DTE. Every year, the DTE publishes the information regarding admission process on its website

- (dtemaharashtra.gov.in) and in admission brochure.
- Admission process is highly transparent & online, from filling of application form to allotment of seats.
 - The institute participates in centralized admission process (CAP) conducted by the DTE as an authorized application Facilitation Centre. All direct Second year UG admission is also carried out through CAP controlled by the DTE, Maharashtra.
 - To ensure publicity, the institute publishes its information brochure every year; it is also available on its website (kkwagh.edu.in).
 - The institute publishes its advertisement in local as well as national newspaper and it is aired on local FM radio channels.
 - The institute participates in local education fair for guidance, counseling and advertisement.
 - The institute arranges public lecture / counseling session for awareness of admission process for students & parents.

6.2.2 : Implementation of e-governance in areas of operations:

- ❖ Planning and Development – Academic Calendar, Timetables, Course Teaching Plans, course material are uploaded by all teaching faculty in College ERP before the commencement of semester.
- ❖ Administration - To improve the administrative procedures and working, ERP system is implemented in the institute. Information regarding student attendance, class conduction as well as staff activity record is available for monitoring. The ERP system also aids in effective administration of various activities like leave management, staff profiles, feedback collection etc.
- ❖ Finance and Accounts – Complete Salary and Accounts Module available in College ERP
- ❖ Student Admission and Support – Complete Student Admission and Information module available in College ERP
- ❖ Examination – Institute is provided access to Online Examination Module of SPPU, Pune

6.3 Faculty Empowerment Strategies

6.3.1 Teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year

Year	Name of teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
2019-20	30 teachers from 8 departments	--	Institution of Engineering & Technology (IET UK) (Annual Membership)	358117
2019-20	Dr. P. D. Bhamre (IT)	Short Term Course on Selected Topics on Modern Wireless Networks and Internet of Things at IIT-Kharagpur	--	7080
2019-20	Dr. S. N. Kadlag (Applied science & Math)	Workshop on Effective Methodology of Audit Course I on 24/08/2019 at PCCOE,Pune	--	1355
2019-20	S. M. Shinde	Workshop on Effective Methodology of Audit Course I on 24/08/2019 at PCCOE,Pune	--	1645

2019-20	Dr. A. C. Pawar	International Conference on Advance Energy Research at IIT Bombay, Dec. 2019.	--	11000
2019-20	G. B. Daware (Chemical Engg.)	“Advances in Fluid, Heat and Mass transfer”	--	1000
2019-20	S.B.Sangle (Production Engg.)	7 th International Conference on Transformations in Engineering Education 2020	---	10635
2019-20	R. H. Jadhav (Computer Engg.)	FDP on Machine Learning and Deep Learning at MIT Academy of Engineering , Pune (17th June 19- 22 June 19)	--	3000
2019-20	G. R. Gupta	FDP on “Applications of Machine Learning and Deep Learning for Engineering Problem Solving” at SKNCOE, Pune (20 th January 20-25 th January 20)	--	4500
2019-20	N. G. Sharma	FDP on Data Science at Sinhgad Academy of Engineering , Pune (24th June 19- 29th June 19)	--	2000
2019-20	M. J. Patil	FDP on Scientific and Technical Writing Tools at Sanjay Ghodawat University , Kolhapur (6th January 20- 11th January 20)	--	3600
2019-20	R. A. Ahire (Electrical Engg.)	NPTEL Course:Soft Skill	--	500
2019-20	T. N. Date	Teachers training at Panchagani	--	5000
2019-20	N.N. Jangle	NPTEL Course: Effective Teaching Learning	--	800
2019-20	M.R. Rade	NPTEL Course: Electric Vehicle	--	550
2019-20	J. A. Mane	NPTEL: Electric Vehicle	--	550
2019-20	J. A. Mane	NPTEL: Electric Power System	--	550
2019-20	R.K. Munje	Academic Research Coordination Meeting	--	2950
2019-20	R. A. Ahire	NPTEL Course: Business communication English	--	550
2019-20	S.A. Borade	NPTEL Course: Soft Skill	--	500
2019-20	T. N. Date	Training Program: Developing Massive Open Online Courses (MOOCs)	--	1000
2019-20	J.P. Shah	University of Mumbai, Mumbai in connection with	--	3500

		CASI MAHA MUN 2019		
2019-20	R. K. Munje	Ramrao Adik Institute of Technology, Mumbai on 16.12.19 in connection with attending a workshop as an expert at Mumbai	--	13471
2019-20	R. A. Ahire	National Level Seminar at Gokhale Education Society	--	500
2019-20	G. N. Jadhav	Chairman Meeting & Goregaon, Mumbai for World Education Summit 19 from 21.11.19 to 22.11.19	--	12390
2019-20	S.A.Karpe (E & TC)	A state level workshop on "Artificial Intelligence using Raspberry Pi"	Quality Improvement Program of Savitribai Phule Pune University	800
2019-20	D. D. Khartad	FDP on Wireless Sensor Networks	Faculty Orientation Workshop on BE E&TC revised syllabus 2015course for Elective-IV	1690
2019-20	K. Nirmalakumari	A state level workshop on "Artificial Intelligence using Raspberry Pi"	Quality Improvement Program of Savitribai Phule Pune University	660
2019-20	Dr. S. Gadge (MBA)	NPTEL Course	--	550
2019-20	A.A. Hippalgaonkar	NPTEL Course	--	550
2019-20	A.J. Pawar (Civil)	Government College of Engineering Aurangabad, National Conference	--	1000
2019-20	Dr.A.L. Varne	MAHA-MODEL Conference organized by state government	--	3500
2019-20	S.S. Ajnadkar	NPTEL Course	--	750
2019-20	J.S. Nikam	Government College of Engineering Aurangabad, National Conference	--	1000
2019-20	N.A. Ahire	MNIIT, Allahabad, Conference	--	4000
2019-20	S. D. Mate (Mechanical)	Marathwada Mitramandal's Institute of Technology, Pune	--	300
2019-20	S. S. Kale	Energy Management for Sustainability	--	1770
2019-20	V. S. Patil	International Conference at IIT, Bombay	--	9440
2019-20	S. V. Kadbhane	International Conference at Pune	--	4000
2019-20	S. V. Kadbhane	Conference at Amrutvahini's COE, Sangamner	--	500
2019-20	V. K. Patil	International Conference at Bangalore	--	5900
2019-20	P. B. Kushare	International Conference at Bangalore	--	9027

2019-20	R. V. Bhandare	International Conference at Bangalore	--	8260
2019-20	A. S. Patil	International Conference at Bangalore	--	5310
2019-20	M. R. Pardeshi	International Conference at Bangalore	--	9027

6.3.2 Number of professional development / administrative training programmes organized by the College for teaching and non teaching staff during the year

Year	Title of the professional development programme organized for teaching staff	Title of the administrative training programme organised for non-teaching staff	Dates (from-to)	No. of participants (Teaching staff)	No. of participants (Non-teaching staff)
2019-20	----	Coursera certifications for Enhancing Communication Skills (Online)	May-June 2020	----	220
2019-20	FDP on Programming & Problem Solving by Computer Engg. Dept.	----	17/07/2019	50	----
2019-20	FDP for Teaching Learning Enhancement by Prof. Claire Komives, San Jose State University, California, USA	----	02 to 04/03/2020	39 teachers	----
2019-20	FDP for Research Promotion by Prof. Claire Komives, San Jose State University, California, USA	----	5,6/03/2020	32 teachers	----
2019-20	FDP on ICT tools for Collaboration (Online) by Dr. Vasudha Kamat, Ex-VC SNTD University & Dr. Jayshree Shinde, SNTD University	----	1-2/06/ 2020	215	----
2019-20	Workshop on Design Thinking (Online) by Mr. Basavaraj Hooli, Founder Director, Graceful Growth Consulting, India.	----	17,18,20/07/2020	142 teachers	----

6.3.3 No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional development programme	Number of teachers who attended	Date and Duration (from – to)
Short Term Course on Selected Topics on Modern Wireless Networks and Internet of Things(IT)	1	15-22/09/2019

Workshop on Deep Machine Learning using Tensor-flow	1	4-28/09/2019
Workshop on Linux	2	23/08/2019
Basics of Python Programming	1	09-11/09/2019
R Programming	2	28/04 – 02/05/2020
Java Business Applications	1	27/04-02/05/2020
Examination Reforms	1	29/04-02/05/2020
Implementation of Choice Based Credit System at College level	1	17/03/2020
Linux AWK	1	24-30/04/2020
New Age Education Symposium 2020	1	25/02/2020
Machine Learning and Artificial Intelligence	1	16-17/01/2020
Programming and Problem Solving	2	17/07/2019
FDP on "Faculty Program on NBA" (MCA)	4	12-12/05/2020
FDP on "Research, Funding projects and IPR"	5	7-10/05/2020
FDP on "Moodle Learning Management System"	4	26-30/05/2020
FDP on "Advances in " Python(Django and Flask), Python for Data Science and Cyber Security""	2	21-27/05/2020
FDP on "Research Methodology and Tools"	5	11-15/05/2020
FDP on "Bigdata Management: An End-to-End Perspective"	1	15-19/06/2020
FDP on "Innovative Trends In Engineering And Technology"	4	25-29/05/2020
FDP on "Programme on R""	1	21- 27/05/2020
FDP on "Python Session"	1	3-7/05/2020
FDP on "Outcome Based Education: A Step Towards Excellence"	1	11-15/05/2020
FDP on "Cyber Security"	1	28/05-1/06/2020
FDP on "Teaching learning enhancement"	2	2- 4/03/2020
FDP on "Arduino"	1	19-24/05/2020
FDP on "Skilling teachers for online education"	3	2-6/06/2020
FDP on "Hands on training on Python Programming"	1	10-15/06/2020
FDP on "Funding Opportunities for Engineering Teachers & Technical Paper Writing"	1	15-19/06/2020
FDP on "R Programming"	1	11-15/05/2020
FDP on "E-Learning Tools for Effective Teaching And Learning"	1	16/05/2020
FDP on "Evolution from Offline to Online Teaching"	1	30/05-3/06/2020
FDP on "ICT based Teaching and Learning Process"	1	1-5/06/2020
FDP on "Road Map to get a Quality Patent"	1	13/06/2020
FDP on "Pedagogy in Management and Computer Science education in Post Covid era"	2	12-13/06/2020
FDP on "Advanced Computing Techniques"	1	22 25/06/2020
FDP on "Theory of Computation"	1	22-26/06/2020
FDP on "Building Your Research Acumen"	1	30/05-11/06/2020
STTP on "Trends in CYBER Investigation and Forensics"	3	27-30/04/2020
STTP on "Outcome Based Education & NBA"	1	29/06/2020
STTP on "E-Content development in the changing education scenario"	4	15-17/05/2020

ICT based STTP on National Board of Accreditation (App.Science& Maths)	1	17-21/06/2020
Matlab based teaching learning in Mathematics, Science and Engineering (STTP)	1	18-22/05/2020
Art of Research Paper Writing and IPR(FDP)	1	25-27/05/2020
Innovative Teaching Pedagogy in the Technical Institution(FDP)	2	01-05/06/2020
Effective Proposal Writing for Research and Funding(FDP)	1	13-18/05/2020
Online e-content Development for Teachers(FDP)	1	01- 05/06/2020
Recent Research Direcions in Mathematics(FDP)	1	09-12/06/2020
Evolution From Offline to Online Teaching(FDP)	3	30-03/06/2020
Outcome Based Education: A Step Towards Excellence” (FDP)	1	11-15/05/2020
Make in India(FDP)	1	23-28/06/2020
2019 Pattern Engg.Physics Syllabus (Workshop)	1	31/07/2019
Workshop on composing quality MCQs	1	11/05/2020
Effective and Eifficient Online Teaching in the Age of Corona, A Hands On Workshop	1	23/05/2020
Python Programming and Applications in Artificial Intelligence and Data Science	1	28-29/02/2020
Effective Teaching Methodology of Audit Course-I(Environmental Studies-I) (Workshop)	2	24/08/2019
Refresher Course On Engineering Mathematics-III (Workshop)	8	29/06/2020
Workshop on Matrix Algebra for Engineers	1	29/05/2020
Coursera Certification on Write Professional Emails in English	1	23/05/2020
Coursera Certification on Improve Business Performance with Google Forms	1	23/05/2020
Coursera Certification on Semiconductor Physics	1	13/06/2020
Coursera Certification on Chemistry	1	23/05/2020
Coursera Certification on Advanced Chemistry	1	23/05/2020
Coursera Certification on Introduction to Molecular Spectroscopy	4	15/05/2020
Coursera Certification on Nanotechnology: A Maker’s Course	1	25/05/2020
Coursera Certification on Vector Calculus for Engineers	6	03/05/2020
Coursera Certification on Matrix Algebra for Engineers	6	10/05/2020
Coursera Certification on Differential Equation for Engineers	3	15/05/2020
Coursera Certification on Nanotechnolgy and Nanosensor-part 1	1	24/05/2020
Coursera Certification on Covid-19: What you need to know	1	08/06/2020
Coursera Certification on Strategic management	1	29/06/2020
Coursera Certification on Introduction to Physical Chemistry	1	14/06/2020
Coursera Certification on Business Analytics for Decision Making	1	02/06/2020

Coursera Certification on Creative Problem Solving	1	27/05/2020
Coursera Certification on Introduction to Mathematical Thinking	1	10/05/2020
Orientation Programme (Workshop) (Computer)	18	06/19 – 05/20
Short Term Course (STTP)	05	06/19 – 05/20
Faculty Development Programmes	25	06/19 – 05/20
Faculty Development Program for Student Induction (Electrical)	1	19-21/09/2019
Developing Massive Open Online Courses (MOOCs)	1	27/09-01/10/2019
Research Communication	2	2-6/12/2019
CASI MAHA Model United Nations 2019	1	6-7/12/2019
FDP on AI and ML applications in Power System	9	1-3/06/2020
STTP: Renewable Energy and Utilization	1	26-30/05/2020
FDP on "Computational Tools And Techniques: MATLAB, ANSYS".	2	27-31/04/2020
FDP on Research Opportunities in Electrical Engineering	2	7-12/05/2020
FDP on "Advances in Electrical Engineering" .	1	8-12/06/2020
Student and Faculty Development Program on"Make in India-A Journey Towards Self reliance". "	1	23-28/08/2020
FDP on Modern Trends in Electrical Drives (MTED)	1	19-23/05/2020
FDP: Building new dimensions towards faculty empowerment	1	27-31/05/2020
FDP: New Challenges & Issue of Indian Electricity Market for Upcoming Decade-2030	3	11-15/05/2020
FDP: Research Opportunities in Electrical Engineering	1	31/05- 11/06/2020
FDP: Research Opportunities in Electrical Engineering	4	07-12/05/2020
FDP: Advances in Electrical Engineering	2	08-13/06/2020
FDP:Modern Trends in Electric Drives	1	19-23/05/2020
FDP: Innovation, Entrepreneurship and its Relevance in Industry 4.0 Practices in the Post Covid-19 Situation	1	25-29/05/2020
Role of Artificial Intelligence in Future Microgrid Control	1	17-20/06/2020
FDP on "Accreditation to Engineering And Professional Ethics"	1	8-12/07/2020
NAAC Awareness Quiz 2020 (Chemical)	01	16/05/2020
MATLAB and its application in chemical engineering and Computation research at	01	17- 21/03/2020
Examination Reform course organized	01	29/04 - 02/05/2020
Course on "Oil & Gas Industry Operations and Markets"	03	05/04- 05/05/2020
Grammar and Punctuation	01	13/05/2020
Recent Trend in Nano Technology,	02	13/05/2020
Faculty Awareness Programme on NBA	02	16/05/2020
Sustainable Development in Chemical Processes"	06	21- 23/05/2020
Entrepreneurship Development For Engineers.	01	27/05/2020
Municipal Solid Waste Management during COVID-19 Pandemic	03	28-30/05/2020
CHEM e Quiz online	01	31/05/2020
Design of Shell and Tube Heat Exchanger	03	31/05/2020
"Process Intensification in Chemical Technology	05	08-09/05/2020

Designing for Experience: Applying Design Thinking to Learning Organization,	01	01- 02/06/2020
Energy Audit & Management	03	14/06/2020
“Chemical Engineering- Towards Sustainability and Process Intensification”	01	15- 17/06/2020
Chemical Process Industry Safety in India: a big Concern	01	20/06/2020
"Online Teaching & Assessment Tools for OBE and Publications of Papers in Pedagogy Journals"	02	20/06/2020
“Development and Impact of Recent Technologies & Innovations in Chemical Engineering”	03	21- 25/06/2020
Stress management in New Normal Condition	01	23/06/2020
Food Safety and Management	01	26/06/2020
“Brief Insights on Project Management in Oil and Gas Engineering, Procurement & Construction Projects” Jalgaon (M.S.), India	04	27/06/2020
"Analytical techniques for determination of elemental constituents"	01	08/06/2020
Introduction to Process Intensification	04	09/06/2020
How to write and publish Paper in 50000+ Web of Science & Scopus Indexed Journals Conferences Paper effectively and efficiently using TYPESET Research Studio	01	10/07/2020
"Reactive Separations: Theory, Practice And Industrial Applications"	01	25/11- 06/12/2019
“Advances in Fluid, Heat and Mass transfer”	01	16- 20/12/2019
Faculty orientation workshop on Basic Electronics Engineering, for F.E. revised syllabus 2019 course (E &TC)	01	22/07/2019
National Level workshop on "Advances in Power Technologies" Organized by KKWIEER, Nashik	02	23-25/01/2020
Online course on "What senior management of Tier-Ii engineering college needs to know of NBA Accreditation? Organized by IPods Ed-tech	01	15/05/2019
Webinar Series on "Beyond the boundaries: Reinventing Horizon" Organized by Swami Keshvanand Institute of Technology & Gramothan,Jaipur	01	16-20/03/2020
Webinar "Role of IOT on Industrial Application" Organized by Sethu Institute of Technology in Association with Pantech E-Learning	01	21/05/2020
Webinar on “4G, 5G and Beyond “Organized by Amrutvahini College of Engineering ,Sanganer	01	22/05/2020
Webinar on " High Speed Data Acquisition System" Organized by Amrutvahini College of Engineering , Sangamner	01	23/05/2020
Faculty Development Program on “Linux” with course material provided by the Talk To A Teacher project at IIT Bombay Organized under Spoken Tutorial Project, IIT Bombay, funded by NMEICT, MHRD, Govt. of India	01	25-29/05/2020
FDP on “Innovation, Entrepreneurship and its Relevance in Industry 4.0 Practices in the Post Covid-19 Situation”	02	25-29/05/2020
Webinar on “Engineering Problem Solving using Low Cost	04	26-27/05/2020

Hardware with MATLAB & Simulink"			
Online Workshop “Novel ICT Tools for Teaching Learning” Organized by K. K. Wagh Institute of Pharmacy, Chandori		04	30/05/2020
Webinar on “Advanced Digital Content Creation Tools and Techniques for Education “, AISSMS COE, Pune		01	31/05/2020
FDP on "Problem Based learning" Organized by KKWIEER, Nashik		03	01-05/06/2020
Webinar “Introduction to Machine Learning and its applications” by Dr. Enmei Tu, Shanghai Jiao Tong University, Shanghai, China		01	08/06/2020
Faculty Development Programs (MBA)		1	5-6/06/2020 7-10/05/2020
Advanced Trends in Engineering (FDP) (Civil)		1	19-23/05/2020
Metro Rail Technology-Practices & Issues (FDP)		10	11-15/05/ 2020
Open Foam (FDP)		9	28/04-04/05/2020
NAAC Revised Accreditation Framework 2020 (FDP)		7	11-15/05/2020
outcome based education: a step towards excellence (FDP)		3	11-15/05/2020
Moodle Learning Management System (FDP)		4	4-9/05/2020
A Vision For Future of Structural Engineering (FDP)		1	12-16/05/2020
Innovation and Up gradation in Infrastructural Technology (STTP)		3	27/05/2020-2/06/2020
A smart and sustainable World in Concrete and structures (STTP)		2	04-08/06/2020
Fracture characterization of concrete using Non-Destructive Testing including Acoustics Emission Testing (STTP)		1	16/20/12/2020
Emerging Trends in Highway Engineering and Infrastructure development (STTP)		1	23-27/06/2020
Patenting for Innovations (STTP)		1	25-29/05/2020
National Board of Accreditation (STTP)		2	17-21/06/ 2020
Analysis & Design of bridges, Advanced features (STTP)		1	18-22/05/2020
Teaching Engineering Mechanics Theory and practical (Orientation Programme)		6	03/08/2019
Syllabus Orientation for S.E. Civil (2019 Pat.) (Orientation Programme)		2	22-26/06/2020
2 Days Refresher Course on Theories of Beams and Plates (Refresher Course)		1	2-3/05/2020
6.3.4 Faculty and Staff recruitment (no. for permanent/fulltime recruitment):			
Teaching		Non-teaching	
Permanent	Fulltime	Permanent	Fulltime/temporary
200	15	105	115
6.3.5 Welfare schemes for			
Teaching	<ul style="list-style-type: none"> • Group Insurance Scheme • Employees Provident Fund • Gratuity 		

	<ul style="list-style-type: none"> • EL Encashment • CL and ML as per rule • Quarter for Principal
Non teaching	<ul style="list-style-type: none"> • Group Insurance Scheme • Employees Provident Fund • Gratuity • EL Encashment • CL and ML as per rule • Workmen compensation facility • Uniform for security guards
Students	<ul style="list-style-type: none"> • Health Insurance Policy • Karmaveer Bhaurao Patil Earn & learn (E&L) scheme • Book Bank facility for SC/ST students • Institute merit Scholarship • Book bank scheme for advanced learners

6.4 Financial Management and Resource Mobilization

6.4.1 Institution conducts internal and external financial audits regularly

(with in 100 words each)

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 4th Sept. 2020. No major audit objections were raised in the last audit.

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

Name of the non government funding agencies/ individuals	Funds/ Grants received in Rs.	Purpose
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6.4.2 Total corpus fund generated - 2,81,64,494/-

6.5 Internal Quality Assurance System

6.5.1 Whether Academic and Administrative Audit (AAA) has been done?

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	NBA	Yes	Internal audit team
Administrative	Yes	NBA	Yes	Internal audit team

6.5.2 Activities and support from the Parent – Teacher Association (at least three)

Parent Teacher Meet in –

- Chemical Engg on 27th, 28th & 29th April 2020
- Computer Engg on 8th Feb.2020, 25th April 2020
- Electrical Engg. held on 05/10/2019, 27/04/2020, 28/04/2020 (2), 29/04/2020
- IT on 29th April 2020
- Mechanical Engg. held on - 15/02/2020 (3)
- MBA held on 11/01/2020
- MCA on 23rd & 29th April 2020
- App.Science & Maths on 16th Nov.2019 & 28th, 29th & 30th April 2020

6.5.3 Development programmes for support staff (at least three)				
Coursera certifications for Enhancing Communication Skills (Online) – All Non-teaching staff (May-June 2020)				
1) Improve your English Communication skills: (Group A-Foreman, Technical Assistants, Lab. Assistants etc.)				
2) Learn English: Intermediate Grammar- (Group B - Head Clerk, Sr. Clerk, PRO, Purchase Officer etc)				
3) Learn English: (Group C- Welder, Machinist, Turner etc.)				
4) Excel skills for Business: (Group D - Head Clerk(Account), Asst. Executive, Account Clerk etc.)				
6.5.4 Post Accreditation initiative(s) (mention at least three)				
<ul style="list-style-type: none"> • Appointment of Dean, Administration and Dean, Quality • Implementation of MKCL SuperCampus • NBA Accreditation of 7 UG and 1 PG Programme is obtained. • NBA Application of Mechanical Engg is submitted. • Application for Autonomy of Institute is submitted to UGC. 				
6.5.5				
a. Submission of Data for AISHE portal : YES				
b. Participation in NIRF : YES				
c. ISO Certification : NO				
d. NBA or any other quality audit : YES				
6.5.6 Number of Quality Initiatives undertaken during the year				
Year	Name of quality initiative by IQAC	Date of conducting activity	Duration (from ----- ----)	Number of participants
2019-20	New IQAC team formation for July 2019 to June 2021	29/06/2019	-	As per new guidelines Employer, Industry representatives, Alumni, Parent, Student along with Teachers from all cadres are now included.
	EndSem Teachers' Feedback for all courses (Sem I) Theory and Practical	09/09/2019 – 21/09/2019	-	Students of all classes
	EndSem Technical Assistant Feedback for all courses (Sem I)	09/09/2019 – 21/09/2019	-	Students of all classes
	Academic and Administrative Audit (Sem I)	Nov-Dec 2019	-	11 Departments and 9 Support sections
	Online Submission of Annual Quality Assurance Report for Academic year 2018-19 on NAAC Portal	26/12/2019	-	-----
	IQAC Meetings (01)	24/01/2020	-	18 members attended
	MKCL Super Campus Implementation for all classes	July – Mar 2020	-	All teachers and All students
	FDP for Teaching Learning Enhancement by Prof. Claire	02 to 04/03/2020	-	39 teachers

	Komives, San Jose State University, California, USA			
	FDP for Research Promotion by Prof. Claire Komives, San Jose State University, California, USA	5,6/03/2020	-	32 teachers
	EndSem Teachers' Feedback for all courses (Sem II)	9 to 19/03/2020	-	Students of all classes
	EndSem Technical Assistant Feedback for all courses (Sem II)	9 to 19/03/2020	-	Students of all classes
	FDP on ICT tools for Collaboration (Online) by Dr.Vasudha Kamat, Ex-VC SNDT University & Dr.Jayshree Shinde, SNDT University	1-2/06/ 2020	-	215
	Student Satisfaction Survey	22/06/ 2020	-	Final year students of all departments
	Workshop on Design Thinking (Online) by Mr. Basavaraj Hooli, Founder Director, Graceful Growth Consulting, India.	17,18,20/07/2020	-	142 teachers
	Coursera certifications for Enhancing Communication Skills (Online)	May-June 2020	-	All Non-teaching staff
	NBA committee visit	16-18/08/2019	-	Chemical, Computer, Production, E&TC, Electrical
	NBA committee visit	11-13/10/2019	-	MCA, Civil &Electronics
	Participation in AICTE-CII Survey 2019	21/11//2019	-	Platinum Level
	NIRF Participation	24/11/2019	-	-----
	Participation in ATAL ARIIA Ranking of Institutions on Innovation Achievements (Institute ID: ARI-C-41256)	2019-20	-	-----
	Digital Learning Survey: Top engineering institute ranking 2020	August 2020	-	AAAA+ Rating Placed at 11 th position among Engineering Colleges of Maharashtra.
	Planning and Conduction of Certificate Courses at Department level	2019-20	-	522 students (8 courses)
	Planning and Conduction of Value Added Courses at Department level	2019-20	-	320 students (3 courses)
	Application for NBA of one Department	18/11/2019 (Prequalifier) 20/01/2020 (SAR)	-	Mechanical Engg.

CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES**7.1 - Institutional Values and Social Responsibilities**

7.1.1 Gender Equity (Number of gender equity promotion programmes organized by the institution during the year)

Title of the programme	Period (from-to)	Participants	
		Female	Male
Seminar on Life Skills by Dr.Shama Kulkarni	29,30/8/2020	85	115
Seminar on Well Being of Working Women by Dr.Kanchan Desale (Celebration on Women's Day)	09/03/2020	75	---

7.1.2 Environmental Consciousness and Sustainability/Alternate Energy initiatives such as: Percentage of power requirement of the College met by the renewable energy sources

- **Green Audit:**

The organization is very keen to promote green initiatives wherever possible, as a commitment towards better environment and conservation of energy. A lot of efforts have already been put up to bring down the carbon footprint. To further optimize consumption and identify saving opportunities, M/s ENCON Energy Management Services Pvt. Ltd., Mumbai, was assigned to carry out Green Audit of the premises.

- **Energy conservation:**

- The planning of the building encourages usage of natural lighting.
- The air ventilation is of excellent quality for almost all of the class rooms and other premises, specifically Central Library which is three storey building and is having polycarbonate roof with dome at central location to maximize the use of daylight.
- Energy efficient light fittings have been installed at many of the places.
- The fans with standard efficiency have been provided wherever required.
- Energy efficient computers and monitors have been procured. All computers have TFT monitors.
- In most of the cases, the computers are switched off, when not in use.
- The fans & lights are switched off when not in use.
- The air conditioners are switched off, when not in use.
- To create awareness of energy conservation amongst students lectures are organized.
- All street lights are LED with timer based control.
- Power factor is maintained at unity by adequate reactive power management.

- **Use of renewable energy:**

- Guest House and Boys Hostel are having FPC solar water heaters.
- Five street lights are operated by solar PV system.
- Solar Pump is installed for water pumping application at Girls Hostel.
- Student Solar Ambassador Workshop was organized for assembly of solar table lamps and was attended by 94 students and 4 staff members on 2/10/2019.

- **Efforts for Carbon neutrality:**

Various initiatives are taken by the institute for green culture. Few are listed below-

- Huge plantation and greenery has reduced CO₂ level considerably.
- Solid waste is taken care by dispatching it for composting.
- Environment friendly design of the building has promoted almost zero load of Air Conditioning system.
- Energy efficient, star labelled air conditioners are procured. Their use is minimum due to sufficient ventilation in the premise.

- Few street lights are run by solar PV system.
- Guest House and Hostels are having FPC solar water heating system.
- Energy efficient computers with TFT monitors have been procured.
- **Hazardous waste management**
 - Hazardous waste is handled carefully and disposed safely.
 - Batteries are replaced regularly after expiry of their useful life
- **E-waste management**
 - 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.

7.1.3 Differently abled (Divyangjan) friendliness

Items Facilities	Yes/No	No. of Beneficiaries
Physical facilities	Yes	15 (last five years)
Provision for lift	Yes	15 (last five years)
Ramp/ Rails	Yes	15 (last five years)
Braille Software/facilities	Yes	--
Rest Rooms	Yes	15
Scribes for examination	Yes	04
Special skill development for differently abled students	No	--
Any other similar facility (Wheel Chair available)	Yes	10

7.1.4 Inclusion and Situatedness

Enlist most important initiatives taken to address locational advantages and disadvantages during the year

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date and duration of the initiative	Name of the initiative	Issues addressed	Number of participating students and staff
2019-20	8	12	April 2020 to June 2020	Awareness programs & help during Corona Pandemic	Health Awareness	240 students + 3 staff
			13th February 2020	Inaugural function of "Ek Bharat Shreshtha Bharat" club of institute	Social Duties	72 students
			Second week of February 2020	Guidance session about recent technologies, career, sports, computer, etc. for school students of tribal villages of Peth taluka of Nashik district	Social Duties	50 students + 1 staff
			2nd February 2020	Workshop on "Scientific Toys" for	Social Duties	20 students + 1 staff

				school students		
			14th January 2020	Expert talk of Mr. Vinay Ahire (Dy. RTO, Nashik) on topic "Road Accidents & Preventions"	Awareness about Safe driving	67 students + 1 staff
			22nd December to 29th December 2019	NSS Special Camp at Mohgaon-Babhaleshwar (Tal. & Dist. Nashik)	Social Duties	125 students + 8 staff
			2nd October 2019	Cleaning activity at Bramhagiri, Tal-Trimbakeshwar, Dist-Nashik	Social Duties	38 students + 1 staff
			17th September to 20th September 2019	Guidance session about recent technologies, career, sports, computer, astronomy, vedicmaths, etc. for school students of nearby villages	Social Duties	55 students + 1 staff
			27th July 2019	Blood Donation Camp	Social Duties	26 students + 2 staff
			22nd July 2019	Expert talk of Mr. Sunil Mendhekar on topic "Recharge, Recycle & Reuse of Water"	Environmental Awareness	55 students + 1 staff
			21st July 2019	Cleaning activity at Bramhagiri, Tal-Trimbakeshwar, Dist-Nashik	Social Duties	94 students + 1 staff
			1st July 2019	Tree plantation activity at Rohile (Tal-Trimbakeshwar, Dist-Nashik)	Environmental Awareness	14 students + 1 staff
			28th June 2019	Expert talk of Mr. Rajesh Pandit on topic "Godavari River Rejuvenation"	Environmental Awareness	112 students + 1 staff
			21st June 2019	International Yoga Day celebration	Health Awareness	242 students + 8 staff
			6th June 2019	Tree plantation activity on occasion of "World Environment Day"	Environmental Awareness	11 students + 2 staff
			4-6th June 2020	Workshop on "Online Content Creation and Assessment Tools" for School Teachers (Computer)	Social Duties	20 staff & 2263 outside participants
			14-16th Feb.2020	Workshop on "Programming in C"	Social Duties	65 outside students

				for school students (IT)		
			4th Oct. 2019	Seminar on Female Awareness about Cancer by Dr. Shweta Bhamare	Health Awareness	120 lady staff
			29/01/2020 & 08/02/2020	Inter-college Elocution competition-Vijigisha at Jalgaon and Nashik	Personality Development	35participants at Jalgaon & 150 participants at Nashik & 5 staff
			29/05/2020 to 03/06/2020	Engineering Mathematics GATE Quiz (App.Scienc& Maths)	GATE Preparation	715 participants from 40 institutes
			27/06/2020 to 28/06/2020	CET Quiz Competition	CET Preparation	291 Participants

7.1.5 Human Values and Professional Ethics

Code of conduct (handbooks) for various stakeholders

Title	Date of Publication	Follow up (maximum 100 words each)
Code of Conduct	29/06/2019	The aim of education is the intellectual, personal, social, moral and ethical development of an individual. The educational process is ideally conducted in an environment that encourages reasoned discourse, intellectual honesty, transparency in all activities, openness to constructive suggestions / criticism, and respect for the rights of all individuals. Self -discipline and a respect for the rights of others in the institute campus are necessary for the fulfilment of such goals. The Code of Conduct for Faculty, Staff and Students are designed to promote this environment at the institute.

7.1.6 Activities conducted for promotion of universal Values and Ethics

Activity	Duration (from-----to----	Number of participants
A lecture on “Mahatma Gandhi – Life and Works” by Mukteshwar Munshettiwar	2/10/2019	40
Marathi Bhasha Sanwardhan Pandharwada Lecture by Mr. Vasant Khairnar, Mr. Lokesh Shevade & Mr.Aishwarya Patekar	13/01/2020, 14/01/2020 & 16/01/2020	100
Marathi Bhasha Gaurav Din (Lecture by Mr.Shyam Padekar)	27/02/2020	55
International Mother Language Day (Lecture by Mr.Amol Padhye)	22/02/2020	---
Session on Engineering Ethics by Dr.Claire Komives during both FDPs	04/03/2020 & 06/03/2020	71 teachers

Session on Human Values & Ethics in FE Induction Programme	01/08/2019 to 12/08/2019 28/01/2020 to 29/01/2020	766 students
7.1.7 Initiatives taken by the institution to make the campus eco-friendly (at least five)		
<ul style="list-style-type: none"> • Annual Green Audit • Use of Solar Heaters and Solar Lamps • E-waste Management • Solid waste management • 'Say No to Plastic' Initiative 		
7.2 Best Practices		
<p>Describe at least two institutional best practices. Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link</p> <p>Best Practice I : Student Centered Teaching & Learning</p> <p>Best Practice II : Service Learning through Volunteering and Internships</p> <p>Link: https://engg.kkwagh.edu.in/iqac_detail/index/188</p>		
7.3 Institutional Distinctiveness		
<p>Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust Provide the weblink of the institution in not more than 500 words</p> <p>Link: https://engg.kkwagh.edu.in/iqac_detail/index/188</p> <p>The institute is committed for imparting quality technical education at affordable fees, to students from society at large. The institute is also committed for rural youth development and women empowerment.</p> <p>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.</p> <p>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.</p> <p>The institute has been appreciated by NIRF (Ranked 9th in Maharashtra state and 85th in India) in year 2016. The institute has received Platinum Institute Award in India through joint survey by AICTE-CII in 2016, 2018 & 2019 and Gold Institute Award 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.</p> <p>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.</p> <p>The strengths of the institute therefore are –</p> <ul style="list-style-type: none"> • 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.

8. Future Plans of action for next academic year (500 words)

- 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 in the campus.

Name : Prof.Tanuja N.Date

TNDate
31/12/20

Signature of the Coordinator, IQAC

Name: Prof.Dr.Keshav N.Nandurkar

KNandurkar

Signature of the Chairperson, IQAC

