Yearly Status Report - 2019-2020

Part A	
Data of the Institution	
1. Name of the Institution	**TULSIRAMJI GAIKWAD-PATIL COLLEGE OF ENGINEERING AND TECHNOLOGY**
Name of the head of the Institution	**Dr. Geeta Padole**
Designation	**Principal(in-charge)**
Does the Institution function from own campus	**Yes**
Phone no/Alternate Phone no.	**0712-6648252**
Mobile no.	**9763711372**
Registered Email	**principal@tgpcet.com**
Alternate Email	**deepta21@rediffmail.com**
Address	**Tulsiramji Gaikwad-Patil College of Engineering and Technology,, Khasara No. 8/1 PSK 74 NH-7, Mohgaon, Wardha road, Nagpur**
City/Town	**Nagpur**
State/UT	**Maharashtra**

Pincode	**441108**

2. Institutional Status

Affiliated / Constituent	**Affiliated**
Type of Institution	**Co-education**
Location	**Urban**
Financial Status	**Self financed**
Name of the IQAC co-ordinator/Director	**Dr. Narendra Chaudhari**
Phone no/Alternate Phone no.	**07122240656**
Mobile no.	**9823189773**
Registered Email	**iqac@tgpcet.com**
Alternate Email	**narendra.chaudhari675@gmail.com**

3. Website Address

Web-link of the AQAR: (Previous Academic Year)	http://www.tgpcet.com/AQAR/AQAR-2017-18.pdf

4. Whether Academic Calendar prepared during the year	**Yes**
if yes,whether it is uploaded in the institutional website: Weblink :	http://www.tgpcet.com/Academic-Calender/Academic-Calendar-Even-Sem-2020-21.pdf

5. Accrediation Details

Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
1	**A+**	**3.32**	**2021**	**22-Feb-2021**	**21-Feb-2026**

6. Date of Establishment of IQAC	**27-Oct-2014**

7. Internal Quality Assurance System

Quality initiatives by IQAC during the year for promoting quality culture		
Item /Title of the quality initiative by	Date & Duration	Number of participants/ beneficiaries

IQAC		
Skill development workshop on Advance JAVA	13-Apr-2020 6	400
AICTE Grant under Prerana Scheme for Gate Coaching	24-May-2019 365	400
Introduction of Media Room	14-May-2020 2	156
Introduction of New Certificate and Value added courses	27-Jul-2019 30	823
Academic Administrative Audit	10-Aug-2020 2	156
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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
Dr Mohan Gaikwad	GoC	AICTE	2019 2	50000
Prof. Radharaman Shaha	Workshop	Maharashtra Energy Development Agency, Pune	2019 1	25000
Dr. Umeshkumar B. Dubey	GoC	AICTE	2019 2	500000
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9. Whether composition of IQAC as per latest NAAC guidelines:	Yes
Upload latest notification of formation of IQAC	View File
10. Number of IQAC meetings held during the year :	5
The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website	Yes
Upload the minutes of meeting and action taken report	View File
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)	

Introduction of New Certificate and Value added courses Workshop on IPR Microteaching Sessions for Faculty members
Introduction of Media Room
Organization of International Conference
AICTE Grant under Prerana Scheme for Gate Coaching
Skill developments Programs for teaching and nonteaching staff members

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13. Plan of action chalked out by the IQAC in the beginning of the academic year towards Quality Enhancement and outcome achieved by the end of the academic year

Plan of Action	Achivements/Outcomes
Conduction of Skill development programs for faculty members	Successfully conducted skill development programs for teaching & non-teaching faculty members
Introduction of mini project in second year	successfully implemented
Conduction of workshop on IPR	Successfully conductor workshop on patent filing
Application for funding proposals	received approval for three proposals
Introduction of New Certificate and Value added courses	Successfully conducted all certification & value added courses
Submission of IIQA SSR to NAAC	Successfully submitted IIQA SSR to NAAC
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14. Whether AQAR was placed before statutory body ?	Yes

Name of Statutory Body	Meeting Date
College Development Committee	03-May-2021

15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	Yes
Date of Visit	16-Feb-2021
16. Whether institutional data submitted to AISHE:	Yes

Year of Submission	**2020**
Date of Submission	**20-Jan-2020**
17. Does the Institution have Management Information System ?	**Yes**
If yes, give a brief descripiton and a list of modules currently operational (maximum 500 words)	**Institute has Sack Info 2.5 ERP Designed, Developed Maintained by SyNchRoniK Inc., Nagpur by Mr. Rupesh Bhattad, MD ,synchronikinfo@gmail.com. Following Modules are available on LMS 1.Administration 2.Finance and Accounts 3.Student Admission and Support 4.Examination 5. Academics**

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

Tulsiramji Gaikward-Patil College of Engineering and Technology (TGPCET) is affiliated to Rashtrasant Tukadoji Maharaj Nagpur University (RTMNU), Nagpur and the curriculum and syllabi framed by the University is being followed for all UG and PG programs. Academic Calendar Institution calendar is prepared at the commencement of each semester including working days, government and local holidays, and schedule of Internal Assessment and University examinations. Department calendar is prepared and aligned with the Institution calendar and it includes activities of departments such as guest lectures, seminars, workshops, symposiums, conferences, activities of various forums and cells, industrial visits/training, value added courses, certificate courses etc. Quality of Classroom teaching Quality of the class room teaching depends on content delivery, interaction, discussion, examples, applications and usage of modern ICT tools. The role of the teachers is significant not only with contents but also with inspirational engagement of the students through various instructional methods and pedagogical initiatives. Instructional methods and pedagogical initiatives Institution practices Outcome Based Education (OBE) while planning and delivering the content. The faculty members will prepare the course plan based on the academic calendar to complete the syllabus as per the frame work. Various Innovative Teaching & Learning methodologies are adopted by the faculty members to create the best learning environment for students. Teaching and Learning methodologies include traditional (Chalk and talk) and technology enabled methods. Video lecturing is provided by faculty members to explain the real world problem with industrial illustrations, design issues etc. Faculty members prepare the e-materials for the benefits of students. Faculty demonstrates static & working models, simulations, animations and implemented projects in the department. Lectures by experts (industrialists/academicians) are arranged to deliver the content beyond syllabus for knowledge enhancement and value added courses have been organized for bridging the gap between Industry and Academia. Tutorials/ E-learning classes are practiced for participative learning with peer group concept. Assignments are given to improve the knowledge beyond the syllabus. Group Discussions and brain storming are encouraged for participative learning

Laboratory practices are mandatory to have hands-on experience. The students are motivated to do research work and present papers in seminars/conferences/journals. The students are encouraged to visit well stocked library with reference books and magazine for the knowledge enhancement. Monitoring system for curricular delivery HODs and, IQAC coordinator are regularly monitoring the delivery of curriculum. Formal and informal feedbacks have been taken from the students in a regular intervals to monitor course delivery and syllabus completion. The teaching faculty is entrusted with the task of mentoring 15-20 students on academic and personal issues. The teachers frequently meet the students and under Teacher-Guardian scheme contact the parents and endeavour to ascertain the problems the students are confronted with OBE is adopted for the effective delivery of the curriculum, Question papers for the IAs are designed to assess the attainments of the COs. DQAC regularly monitors the quality in curricular delivery.

1.1.2 – Certificate/ Diploma Courses introduced during the academic year

Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employ ability/entreprene urship	Skill Development
AutoCAD for Machine Design	Nil	27/07/2019	40	Employabil ity	AutoCAD
CreO for Engineering Sector	Nil	27/07/2019	40	Employabil ity	CreO
CNC for Industry	Nil	27/07/2019	40	Employabil ity	CNC
BMW for Engine Mechanism	Nil	27/07/2019	40	Employabil ity	Engine Mechanism
ORACLE SQL for Database Handling	Nil	27/07/2019	40	Employabil ity	ORACLE SQL
Application Development using C#.NET	Nil	27/07/2019	40	Employabil ity	C#.NET
Database Applications using Core Java	Nil	27/07/2019	40	Employabil ity	Core Java
STAADPRO Basic	Nil	27/07/2019	40	Employabil ity	STAADPRO
PHP with MySql Database	Nil	27/07/2019	40	Employabil ity	PHP
Networking With CCNA Basic	Nil	27/07/2019	40	Employabil ity	Networking
MATLAB for Modeling Simulation Basic	Nil	27/07/2019	40	Employabil ity	MATLAB

AutoCAD for Machine Design	Nil	11/01/2020	40	Employability	AutoCAD
CreO for Engineering Sector	Nil	11/01/2020	40	Employability	CreO
CNC for Industry	Nil	11/01/2020	40	Employability	CNC
BMW for Engine Mechanism	Nil	11/01/2020	40	Employability	Engine Mechanism
ORACLE SQL for Database Handling	Nil	11/01/2020	40	Employability	ORACLE SQL
Application Development using C#.NET	Nil	11/01/2020	40	Employability	C#.NET
Database Applications using CoreJava	Nil	11/01/2020	40	Employability	CoreJava
STAADPRO Advance	Nil	11/01/2020	40	Employability	STAADPRO Advance
PHP with MySql Database	Nil	11/01/2020	40	Employability	PHP
Networking with CCNA Advance	Nil	11/01/2020	40	Employability	Networking
MATLAB for Modeling Simulation Advance	Nil	11/01/2020	40	Employability	MATLAB

1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
No Data Entered/Not Applicable !!!		

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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	Programme Specialization	Date of implementation of CBCS/Elective Course System
BE	Computer Science Engineering	15/07/2019
BE	Information Technology	15/07/2019
BE	Electronics &Commmunication	15/07/2019

	Engineering	
BE	Electronics Engineering	15/07/2019
BE	Civil Engineering	15/07/2019
BE	Mechanical Engineering	15/07/2019
BE	Electrical Engineering	15/07/2019
Mtech	Computer Science & Engineering	15/07/2019
Mtech	Electronics (Communication)	15/07/2019
Mtech	Integrated Power System	15/07/2019
Mtech	Structural Engineering	15/07/2019
ME	Wireless Communication and Computing (WCC)	15/07/2019
MBA	Master of Business Administration	15/07/2019
MCA	Master of Computer Applications	15/07/2019

1.2.3 – Students enrolled in Certificate/ Diploma Courses introduced during the year

	Certificate	Diploma Course
Number of Students	831	Nil

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
SWOT Analysis	16/07/2019	149
Creative and Critical Thinking	16/07/2019	73
Personality Development	15/07/2019	81
Basic English Grammar	24/07/2019	91
Motivation	16/07/2019	87
Universal Human Values	06/08/2019	69
SWOT Analysis	05/12/2019	156
Creative and Critical Thinking	11/12/2019	82
Personality Development	02/12/2019	87
Basic English Grammar	07/12/2019	102
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1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BE	Information Technology	16
BE	Electrical Engineering	36
BE	Computer Science &	9

		Engineering	
BE	Mechanical Engineering	10
BE	Electronics &Communication Engineering	16
BE	Civil Engineering	12
MCA	Master in Computer Application	17
MBA	Master of Business Administration	55
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1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	Yes
Alumni	Yes
Parents	Yes

1.4.2 – How the feedback obtained is being analyzed and utilized for overall development of the institution? (maximum 500 words)

Feedback Obtained

IQAC designed Online as well as offline Feedback forms for all the stakeholders. This includes faculty feedback, alumni feedback, student feedback, Parents feedback, Employer feedback, Exit survey, etc. Faculty feedback from the students for the respective course is taken after one month of commencement of classes. The frequency of taking faculty feedback is twice in a semester on various teaching/learning aspects and it is analyzed by the HODs and corrective measures if any, are informed to the respective faculties for further improvements. The report of feedback analysis its action taken are submitted to IQAC. Exit survey feedback is taken from final year students and its analysis report Prepared by department has submitted to IQAC. Feedback about the infrastructural facilities are taken from the final year students at the end of the program for improving the lab facilities, if any. The feedback so obtained is analyzed for further improvement. Feedback from the parents are taken by interacting with them during Parent Teacher Meet. Feedback is taken from alumni for suggestions or improvements in the curriculum in alumni meet. Feedback is also collected from the companies. This feedback is discussed in meeting of training and placement cell and its report submitted to IQAC with action taken report. All the feedbacks collected from stakeholders are discussed in IQAC meeting and corrective measures have been taken for the same.

CRITERION II – TEACHING- LEARNING AND EVALUATION

2.1 – Student Enrolment and Profile

2.1.1 – Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
Mtech	Electronic and Communication	24	24	24

	Engineering			
Mtech	Structural Engineering	24	24	24
Mtech	Computer Science and Engineering	18	18	18
BE	Mechanical Engineering	120	59	59
BE	Electrical Engineering	60	46	46
BE	Civil Engineering	60	45	45
BE	Electronics Engineering	60	0	0
BA	Electronic and Communication Engineering	60	18	18
BE	Information Technology	60	60	60
BE	Computer Science and Engineering	60	60	60

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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 fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2019	1477	366	109	36	145

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	Numberof smart classrooms	E-resources and techniques used
145	145	7	39	2	9

View File of ICT Tools and resources

View File of E-resources and techniques used

2.3.2 – Students mentoring system available in the institution? Give details. (maximum 500 words)

? Aim:- Teacher guardian scheme is implemented:- ? In order to assist the students in their studies and to monitor their academic performance regularly. ? To establish good sense of rapport with students so that they developed healthy Teacher- Student relationship. ? Objective:- • To assign a Teacher who act as a Guardian for every 15-20 students • To maintain the record of all the students. • To improve the performance of weak

students by counseling. • To create awareness in parents by making call on phone on weekly basis and inform about the progress of their ward. • TGs visit to the student's residence if the attendance of student is very less. ? Vision • Plan around context: how you teach and your students' needs. • Design a student-centric approach to storyboard a course. • Build content and media: rich resources and activities for teaching and learning. • Run is what Future Learn calls- a course with active teaching and learning. • Review and evaluation: ensuring we reflect and iterate based on feedback. ? Planning of TG : • To pin point the skills students need to develop looking at the constraint of online teaching. • TG will conduct online survey to check their level of understanding. • One Lecture per week for TG Interaction • TG will take the weekly feedback immediately after TG interaction • TG will prepare report based on the feedback and submit it to the respective head and TG coordinator. • Action taken report is expected from all HoD,s in the next week. • If any student is found absent in two consecutive classes then TG is expected to call the student and maintain the relevant record. • Created a Google form and collected all the required information of the students and maintain it properly. ? Role Of Teacher Guardian (Faculty Member) • Maintain correct data for roll call list, batches, and contact details of students and their parents/ local guardians such as address, mobile number, email ids etc. • Collect and maintenance of Theory and Practical Attendance Record (through ERP) from subject teachers and to prepare fortnightly defaulter students list • Monitor lectures and practical's regularly, allot substitute teachers and make alternative arrangements if faculty is on leave, and ensure the faculty conducts extra lectures later. For substitute teacher arrangement, TG will inform the Head of Department. • Display defaulters list and preparing schedule for make-up classes • Communicate internal examination time table and other academic activities to the students well in advance • Prepare provisional and final detention list and displaying the same on the notice board in consultation with DAC and HOD • Monitor the syllabus completion (Theory and Practical) fortnightly and submitting the report to Department Academic Coordinator • Collection of records of make-up classes • Maintain informal feedback from students (if any) • Conduct subject teachers meeting every Friday and maintaining records of the same.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
1844	145	1:13

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
145	145	0	0	13

2.4.2 – Honours and recognition 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
2020	Mr. Ravidra Shende	Assistant Professor	Best Faculty Award
2020	Ms. Revati Parate	Assistant Professor	Best Faculty Award
2020	Mr. Rahul Dhature	Assistant Professor	Best Faculty Award
2020	Ms. Nagma Sheikh	Assistant Professor	Best Faculty Award
2020	Ms. Priyanka Bhende	Assistant Professor	Best Faculty Award
2020	Mr. Jiwan Dehankar	Assistant Professor	Best Faculty Award
2020	Mr. Asif Beig	Assistant Professor	Best Faculty Award

2020	Mr. Milind Khangaonkar	Assistant Professor	Best Faculty Award
2020	Mr. V. P. Kshirsagar	Assistant Professor	Best Faculty Award
2020	Mr. Chetan Jambhulkar	Assistant Professor	Best Faculty Award
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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
Mtech	4151	II	14/04/2020	10/09/2020
Mtech	4151	I	19/10/2019	31/01/2020
BE	4151	VIII	31/03/2020	12/11/2020
BE	4151	VII	09/10/2019	31/12/2019
BE	4151	VI	31/03/2020	09/09/2020
BE	4151	V	09/10/2019	31/12/2019
BE	4151	IV	31/03/2020	08/09/2020
BE	4151	III	09/10/2019	31/12/2019
BE	4151	II	31/03/2020	05/09/2020
BE	4151	I	09/10/2019	10/01/2020
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2.5.2 – Reforms initiated on Continuous Internal Evaluation(CIE) system at the institutional level (250 words)

One unit test and one model exam in theory subjects and one model examination in case of practical are conducted in each semester. Two Assignments in theory subject and 8 to 9 Assignments are given for Practical subject. The course in-charge carries out internal assessment of subjects based on internal test performance marks / grade received in Examination and assignments. Continuous evaluation procedure is followed for practical subjects. Effective implementation of evaluation reforms of the university are strictly followed. The college has initiated its own evaluation reforms for strict compliance. The process and procedure devised/ suggested by the university are followed. The continuous evaluation system at Institute level is in effect. The evaluation reforms in tutorial and mid-semester are implemented and results are declared within eight days. The students can see their evaluated answer sheets and discuss the same with concerned faculty. Students can prefer appeal for Grievance within 3 days. The students are taken for site visits. On the basis of internal external Viva-voce continuous evaluation process is done. All the data are collected and stored in digital format for recovery/reference purpose. The students participate in seminar, practical training and thesis project is jointly evaluated by external and internal examiners. The evaluation steps are as follows: The faculty monitor attendance and marks of the students periodically. The Institute appoints examiners for the practical examinations and viva voce examinations as per the University directives The Institute sends its faculty members as examiners to evaluate semester answer scripts to the affiliating University. The regulations contain the details of the evaluation

process. During the Induction program the newly admitted students are updated about the attendance requirements as well as the passing marks requirements and the grading systems for the internal assessments. Whenever the students are in doubt, they are encouraged to approach the faculty to discuss and seek clarification of the doubts.

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

Institution adheres to the academic calendar for the conduction of continuous internal examination. The academic calendar of the Institution is prepared by the Principal in consultation with HODs before commencement of every semester. The academic calendar contains:- • Holidays • Schedule for internal exams • Last working day • Date of practical University examination • Institutional level functions Viz. College day, sports day etc. Based on the Institution academic calendar, department academic calendar is prepared by the HOD in consultation with faculty members. The department academic calendar contains:- • Schedule of internal exams • Seminars/ workshops • Value added courses • Conferences • Revision The academic calendar is displayed on departmental notice boards. Based on the academic calendar each faculty member prepares teaching plan for theory and lab subjects. Subject loads is allocated to faculty members well in advance so that they could make the plans. The teaching plan includes: • Study material including question bank for students • Syllabus and delivery plan • Teaching pedagogy to be used for each content delivery • Assignments to be given to Slow learners • Plan of Continuous Internal Examination Each continuous internal examination is well planned by the examination cell of each department governed by the examination cell of the institution. Two internal exams are conducted per semester. Syllabus for each internal exam is clearly defined at the beginning of the semester and 3rd day from the subject examination.

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)

http://www.tgpcet.com/IQAC/CO-POs/PO-PSO-PEO-COs-2019-2020.pdf

2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
4151-24210	BE	Computer Science & Engineering	52	52	100.00%
4151-24610	BE	Information Technology	39	39	100.00%
4151-37010	BE	Electronics &Commmunication Engineering	31	31	100.00%
4151-37610	BE	Electronics Engineering	4	4	100.00%

4151-19110	BE	Civil Engineering	65	65	100.00%
4151-61210	BE	Mechanical Engineering	102	106	96.23%
4151-29310	BE	Electrical Engineering	55	55	100.00%
4151-24210	Mtech	Computer Science & Engineering	13	13	100.00%
4151-34210	ME	Wireless Communication and Computing	1	1	100.00%
4151-29610	Mtech	Integrated Power System	11	11	100.00%

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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)

http://www.tgpcet.com/IQAC/Student-Survey/Student-Survey-2020-2021.pdf

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 organisations

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
Minor Projects	356	AICTE, New Delhi	50000	50000
Industry sponsored Projects	366	Maharashtra Energy Development Agency, Pune	25000	25000
Minor Projects	367	AICTE, New Delhi	500000	500000
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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
Webinar on "Intellectual Property Rights and Patent filling processMahindra	Mechanical Engineering	27/06/2020
Forging the Future -Mechanical	Mechanical Engineering	02/06/2020
Impact of Oil Prices on Global Industries during	Mechanical Engineering	25/05/2020

COVID-19"		
Webinar on "Intellectual Property Rights and Filing Procedure	Electrical Engineering	18/06/2020
Expert Lecture on "Mobile Computing"	Computer Science Engineering Information Technology	23/08/2019
One Day Industrial visit to "IT Networkz Pvt. Ltd.", Nagpur	Computer Science and Engineering Information Technology	14/09/2019
One Day Workshop on Cyber Security Ethical Hacking	Computer Science and Engineering Information Technology	11/01/2020
Seminar on Python Programming	Information Technology	18/01/2020
Guest lecture on "Hadoop and Big Data"	Information Technology	08/02/2020
Guest Lecture on Entrepreneurship Development	Master of Business Administration	17/09/2019
One Day Workshop on Cyber Security and Ethical Hacking	Computer Science and Engineering	11/01/2020
Guest Lecture on Web Technology	Computer Science and Engineering	05/02/2020
Guest Lecture on Python and Machine Learning	Computer Science and Engineering	14/02/2020
Expert Lecture on "Patents in Power Sector in India"	Electrical Engineering	01/08/2020
Expert Lecture on "Artificial Intelligence"	Information Technology	03/09/2019
Guest lecture on "HVDC Transmission System" by	Electrical Engineering	10/02/2020
Guest Lecture on "Power Plant"	Mechanical Engineering	15/02/2020
Guest Lecture on "Electrical Power"	Electrical Engineering	13/03/2020
Guest lecture on "Energy Conservation and Fuel Efficient Technologies"	Electrical Engineering	28/01/2020
Guest Lecture on Employability and Skill Enhancement	Master of Business Administration	24/08/2019
Guest lecture on "Power Plant Engineering" Association with Reliance power Ltd.	Mechanical Engineering	14/03/2020

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

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
Best Paper Award in International Conference held at TGPCET Nagpur	Mr. Aasif M Baig	TGPCET, Nagpur	23/03/2019	International Conference
Best Paper Award in International Conference held at Govt. Polytechnic Nagpur	Mr.Aasif M Baig	Government Polytechnic,Nagpur	27/02/2019	International Conference
Shikshan Samarpan Puraskar, by Sakaal and J D College of Engineering Management	Mr. Sandeep Gaikwad	Sakaal and J D College of Engineering Management	22/01/2019	Shikshan Samarpan Puraskar
Best Paper award in International Conference on Green Energy for Sustainable Development jointly organized byGovernment Polytechnic, Nagpur and Maharashtra State Board of Technical Education for A Survey of Deep Learning Architectures and their Ap	Mr. Sarvesh Warjurkar	Government Polytechnic,Nagpur	27/02/2019	International Conference
Best Project award inTechNirmiti -2019 National Level Workshop Paper Presentation Competition	Mr. Anup Gade	AGPCE, Nagpur	09/04/2019	National Level technica Event (Paper Presentation)
Best Paper award in TechNirmiti -2019 National Level Workshop	Mr. Anup Gade	AGPCE, Nagpur	09/03/2019	National Level technica Event (Project Competition)

Best Paper award in International Conference on Innovation and Research in Engineering Science and Technology organized by Tulsiramji Gaikwad-Patil College of Engineering and Technology for Digital Table Booking and Prefood Ordering System usinhg	Mr. Anup Gade	TGPCET, Nagpur	23/03/2019	International Conference

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

Incubation Center	Name	Sponsored By	Name of the Start-up	Nature of Start-up	Date of Commencement
1	Akash Incubation Center	Self Sponsored	Innovate Technology	Small Scale IT Industry	01/01/2020
1	Akash Incubation Center	Self Sponsored	The Handicrafts Store	Micro scale Industry	01/11/2019
1	Akash Incubation Center	Self Sponsored	Future Earth Construction	Construction Industry	24/10/2019

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3.3 – Research Publications and Awards

3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
09	04	26

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

Name of the Department	Number of PhD's Awarded
Master of Business Administration	1

3.3.3 – Research Publications in the Journals notified on UGC website during the year

Type	Department	Number of Publication	Average Impact Factor (if any)
International	Computer Science Engineering	21	5
International	Information Technology	6	5

International	Electronics Communication Engineering	15	5
International	Civil Engineering	30	5
International	Mechanical Engineering	2	5
International	Electrical Engineering	5	5
International	Master of Business Administration	7	5

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

Department	Number of Publication
Information Technology	1

No file uploaded.

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

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
Detecting Psychological Stress using Machine Learning over Social Media Interaction	Mr. Jayant Adhikari	2020 5th International Conference on Communication and Electronics Systems (ICCES)	2020	1	Tulsiramji Gaikwad Patil College of Engineering Technology	1
A Review study on Application of Data Mining Techniques in CRM of Pharmaceutical Industry	Mr. Jayant Adhikari	IJSRSTInternational Journal of Scientific Research in Science and Technology	2019	3	Tulsiramji Gaikwad Patil College of Engineering Technology	3
A Review on Automated Billing for Smart Shopping System	Mr. Jayant Rohankar	International Information and Engineering Technology Associatio	2019	2	Tulsiramji Gaikwad-Patil College of Engineering	2

Using IOT		n			Technology	
Adaptive League Championship Algorithm (ALCA) for Independent Task Scheduling in Cloud Computing	Mr. Anup Gade	International Information and Engineering Technology Association	2019	0	Tulsiramji Gaikwad-Patil College of Engineering Technology	0
Implementation of image fusion using DWT and PCA	Mr. Anup Gade	iieta	2019	3	Tulsiramji Gaikwad-Patil College of Engineering Technology	3
Comprehensive Study on Task Scheduling Strategies in Multicloud Environment	Mr. Anup Gade	Journal Europeen des Systemes Automatises	2019	1	Tulsiramji Gaikwad-Patil College of Engineering Technology	1
Adaptive League Championship Algorithm (ALCA) for Independent Task Scheduling in Cloud Computing	Mr. Anup Gade	International Information and Engineering Technology Association	2019	1	Tulsiramji Gaikwad-Patil College of Engineering Technology	1
"Enhance Dynamic Heterogeneous Shortest Job first (DHSJF): a Task Scheduling Approach for Heterogeneous Cloud Computing Systems	Mr. Anup Gade	International Research Journal of Engineering and Technology (IRJET)	2019	2	Tulsiramji Gaikwad-Patil College of Engineering Technology	2
A Review on Automated	Mr. Anup Gade	International Information	2019	2	Tulsiramji Gaikwad-	2

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
Billing for Smart Shopping System Using IOT		and Engineering Technology Association				Patil College of Engineering Technology
Association Rules Generation of Outsourced Transaction Data with Privacy-Preserving using Paillier Encryption	Mr. Anup Gade	International Conference on Smart Electronics and Communication (ICOSEC)	2020	0		Tulsiramji Gaikwad-Patil College of Engineering Technology	0

3.3.6 – h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
Association Rules Generation of Outsourced Transaction Data with Privacy-Preserving using Paillier Encryption	Mr. Anup Gade	International Conference on Smart Electronics and Communication (ICOSEC)	2020	3	0	Tulsiramji Gaikwad-Patil College of Engineering Technology
A Review on Automated Billing for Smart Shopping System Using IOT	Mr. Anup Gade	International Information and Engineering Technology Association	2019	3	2	Tulsiramji Gaikwad-Patil College of Engineering Technology
"Enhance Dynamic Heterogeneous Shortest Job first (DHSJF): a Task Scheduling Approach for Heterogeneous Cloud	Mr. Anup Gade	International Research Journal of Engineering and Technology (IRJET)	2019	3	2	Tulsiramji Gaikwad-Patil College of Engineering Technology

Computing Systems						
Adaptive League Championship Algorithm (ALCA) for Independent Task Scheduling in Cloud Computing	Mr. Anup Gade	International Information and Engineering Technology Association	2019	3	1	Tulsiramji Gaikwad-Patil College of Engineering Technology
Comprehensive Study on Task Scheduling Strategies in Multicloud Environment	Mr. Anup Gade	Journal Europeen des Systemes Automatises	2019	3	1	Tulsiramji Gaikwad-Patil College of Engineering Technology
Implementation of image fusion using DWT and PCA	Mr. Anup Gade	iieta	2019	3	3	Tulsiramji Gaikwad-Patil College of Engineering Technology
Adaptive League Championship Algorithm (ALCA) for Independent Task Scheduling in Cloud Computing	Mr. Anup Gade	International Information and Engineering Technology Association	2019	3	0	Tulsiramji Gaikwad-Patil College of Engineering Technology
A Review on Automated Billing for Smart Shopping System Using IOT	Mr. Jayant Rohankar	International Information and Engineering Technology Association	2019	2	2	Tulsiramji Gaikwad-Patil College of Engineering Technology
A Review study on Application of Data Mining Techniques in CRM of Pharmaceut	Mr. Jayant Adhikar	IJSRSTInternational Journal of Scientific Research in Science and	2019	3	0	Tulsiramji Gaikwad-Patil College of Engineering Technology

A Review study on Application of Data Mining Techniques in CRM of Pharmaceutical Industry	Mr. G. Rajesh Babu	IJSRSTInternational Journal of Scientific Research in Science and Technology	2019	2	0	Tulsiramji Gaikwad-Patil College of Engineering Technology

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3.3.7 – Faculty participation in Seminars/Conferences and Symposia during the year :

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	Nill	Nill	47	Nill
Presented papers	86	Nill	Nill	Nill

No file uploaded.

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 participated in such activities	Number of students participated in such activities
Meditation Program	Sahaj Yoga	2	76
Health awareness and safety measures	NSS, TGPCET	2	163
Marathi Language Day National Science Day	Marathi Vidnyan Parishad	2	239
Youth Day	Ram-Krushna Mission	2	847
NSS Foundation Day	NSS, TGPCET	2	90
Constitution Day	NSS, TGPCET	2	229
International Yoga Day	Sahaj Yoga	2	87
Tree Plantation Programme	Bothali Gram Panchayat	2	143
Blood Donation Camp	Rainbow Blood Bank	2	88

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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	Number of students Benefited
Youth Day	APPRICIATION CERTIFICATE	BOTHALI GRAMPANCHAYAT, VILLAGE MOHAGAON AND BORKHEDI,NAGPUR	847
Blood Donation Camp	APPRICIATION CERTIFICATE	BOTHALI GRAMPANCHAYAT, VILLAGE MOHAGAON AND BORKHEDI,NAGPUR	88
Tree Plantation Programme	APPRICIATION CERTIFICATE	BOTHALI GRAMPANCHAYAT, VILLAGE MOHAGAON AND BORKHEDI,NAGPUR	143
International Yoga Day	APPRICIATION CERTIFICATE	BOTHALI GRAMPANCHAYAT, VILLAGE MOHAGAON AND BORKHEDI,NAGPUR	87
Constitution Day	APPRICIATION CERTIFICATE	BOTHALI GRAMPANCHAYAT, VILLAGE MOHAGAON AND BORKHEDI,NAGPUR	229
NSS Foundation Day	APPRICIATION CERTIFICATE	BOTHALI GRAMPANCHAYAT, VILLAGE MOHAGAON AND BORKHEDI,NAGPUR	90
Marathi Language Day National Science Day	APPRICIATION CERTIFICATE	BOTHALI GRAMPANCHAYAT, VILLAGE MOHAGAON AND BORKHEDI,NAGPUR	239
Health awareness and safety measures	APPRICIATION CERTIFICATE	BOTHALI GRAMPANCHAYAT, VILLAGE MOHAGAON AND BORKHEDI,NAGPUR	163
Meditation Program	APPRICIATION CERTIFICATE	BOTHALI GRAMPANCHAYAT, VILLAGE MOHAGAON AND BORKHEDI,NAGPUR	76
No file uploaded.			

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 participated in such activites	Number of students participated in such activites
NSS, TGPCET	Rainbow Blood Bank	Blood Donation Camp	2	88
NSS, TGPCET	Bothali Gram Panchayat	Tree Plantation Programme	2	143
NSS, TGPCET	Sahaj Yoga	International Yoga Day	2	87

NSS, TGPCET	NSS, TGPCET	Constitution Day	2	229
NSS, TGPCET	NSS, TGPCET	NSS Foundation Day	2	90
NSS, TGPCET	Ram-Krushna Mission	Youth Day	2	847
NSS, TGPCET	Marathi Vidnyan Parishad	Marathi Language Day National Science Day	2	239
NSS, TGPCET	NSS, TGPCET	Health awareness and safety measures	2	163
NSS, TGPCET	Sahaj Yoga	Meditation Program	2	76
No file uploaded.				

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
Students of Civil Engineering gets 2 weeks Internship inA V Construction, Chandrapur	12	Self Financed	15
Guest Lecture on Seismic Design of Concrete Structure for students of all semesters	31	Self Financed	1
Guest Lecture on "How to prepare GATE, IES and Govt Jobs." for students of all semesters	45	Self Financed	1
Site Visit to Pench Irrigation Project Hydrology Climate Change Station	37	Self Financed	1
Guest Lecture on Advancement in Structural Analysis Software (Online Tendering Advance Tools)	34	Self Financed	1
Site Visit to RMC Plant, Dongargaon, Wardha road, Nagpur	38	Self Financed	1
Site visit to 9th science Expo, Raman	32	Self Financed	1

Science Centre, Nagpur					
Site visit at Waste Water Treatment Plant,Bhandewadi Nagpur	35		Self Financed		1
Guest Lecture on BIM Technology	38		Self Financed		1
Guest Lecture on Technological advancement and integration with construction industry	39		Self Financed		1

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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	Duration To	Participant
Guest Lecture	Guest Lecture	GM, (HRand IR) Morarjee Textile ltd. Nagpur	08/02/2020	08/02/2020	53
Guest Lecture	Guest Lecture	Director, Perolium Conservation Research Association, Nagpur	28/01/2020	28/01/2020	49
Guest Lecture	Guest Lecture	Group Leader, CAD Centre, Nagpur	17/01/2020	17/01/2020	47
Guest Lecture	Guest Lecture	Co-founder, Lemon LSE JCE, USA Certified Trainer	31/08/2020	31/08/2020	53
Guest Lecture	Guest Lecture	Dy. General Manager Uttam Galva Metallics Li mited.wardha	30/08/2020	30/08/2020	45
Guest Lecture	Guest Lecture	Managing Director,	15/07/2020	15/07/2020	55

Industrial Visit	Industrial Visit	Br. Shesrao Wankhede Shetkari Sahakari Soot Girni Ltd Mohagaon, Naagpur	17/01/2020	17/01/2020	42
Industrial Visit	Industrial Visit	Morarji Textile Ltd MIDC Buttibori, Industrial area Nagpur.	21/01/2020	21/01/2020	41
Industrial Visit	Industrial Visit	Ajit Bakery Buttibori MIDC, Nagpur	21/01/2020	21/01/2020	48
Industrial Visit	Industrial Visit	Reliance Power Buttibori. Nagpur.	02/01/2020	02/01/2020	45
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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/Activities	Number of students/teachers participated under MoUs
KEC International Training Centre, Butibori, Nagpur	15/07/2019	Guest lectures, Site Visit, Projects, Internship	86
AliGn Infotech Pvt. Ltd	23/07/2019	Guest lectures, Site Visit, Projects, Internship	76
Cyber Athon IT Services, Nagpur	24/11/2019	Educational Course, Training, Consultancy, Projects	2
Apple Chemie The Construction Chemical Company, Nagpur	12/03/2019	Guest lectures, Site Visit, Projects, Internship	108
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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
6000000	5942681

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Class rooms	Existing
Laboratories	Existing
Seminar Halls	Existing
Classrooms with LCD facilities	Existing
Video Centre	Existing
Classrooms with Wi-Fi OR LAN	Newly Added
Others	Existing
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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 patially)	Version	Year of automation
Sack Info 2.5 ERP	Fully	2.5	2016
Sack Info 2.5 ERP	Fully	2.5	2017
Sack Info 2.5 ERP	Fully	2.5	2018
Sack Info 2.5 ERP	Fully	2.5	2019
Sack Info 2.5 ERP	Fully	2.5	2020
Sack Info 2.5 ERP	Fully	2.5	2021

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	21783	7537495	214	510036	21997	8047531
Reference Books	2232	783308	34	77036	2266	860344
e-Journals	1	13750	1	13750	2	27500
Journals	100	150000	126	250000	226	400000
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4.2.3 – 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
Mr. Amey R.	Video Lecture	You tube - Active	05/11/2019

Khedikar		Presenter, Media Centre	
Mr. Sanjay K. Bhadke	Video Lecture	You tube - Active Presenter, Media Center	08/11/2019
Mr Aasif Baig	Video Lecture	You tube - Active Presenter, Media Center	03/12/2019
Mr. Anup Gade	Video Lecture	You tube - Active Presnter , Media Center	16/12/2019
Mr.Sarvesh Warjurkar	Video Lecture	You tube - Active Presenter	22/12/2019
Mr Radharaman Shaha	Video Lecture	You tube	27/12/2019
Mr. Chetan Jambhulkar	Video Lecture	You tube	28/12/2019
Ms. Snehal Paliwal	Video Lecture	Google meet	06/04/2020
Ms. Nagma Sheikh	Video Lecture	Google meet	14/04/2020
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4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MBPS/ GBPS)	Others
Existing	414	24	1	1	1	1	10	100	0
Added	70	2	0	1	1	1	0	0	1
Total	484	26	1	2	2	2	10	100	1

4.3.2 – Bandwidth available of internet connection in the Institution (Leased line)

100 MBPS/ GBPS

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
The College having the separate Video Centre for development of e-Content . The facility available such as : Video Camera, Studio Shared, Head Phone, Audio Speakers, Computers, Digital Pad	https://www.youtube.com/watch?v=1EqT0Y1TU_0&t=292s
Media Room for e-content development	https://www.youtube.com/watch?v=1rNnlkPcMww
Media Room for e-content Development	https://rb.gy/igb8qm

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 incurredon maintenance of physical facilites
12369088.52	12368515.33	11499251.24	11498678.05

4.4.2 – Procedures and policies for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc. (maximum 500 words) (information to be available in institutional Website, provide link)

The Institute has all requisite infrastructures like class rooms, faculty rooms, girls' common room, boys common room, laboratories, Seminar Hall, Auditorium and library. Few slots are exclusively reserved in regular time table to ensure effective utilization of the facilities. Concerned faculty members ensure the presence of students conduction of activities. The Institute has in-house maintenance team for maintenance of all Physical, Academic, and Support facilities such as building, electrical, plumbing, classrooms, laboratories, Sports complex and Library. General maintenance team handles Electrical, plumbing and building related issues. Regular check-up of Electrical appliances is done by electrical maintenance staff and maintained with immediate actions. Plumbing related issues such as leakages/blockages are managed on time by Plumbing team. Regular infrastructure inspection helps find repairs/paints requirements and the team arranges for the same. The college has its own Diesel Generator set. It is brought in operation when electricity board discontinues electricity supply. The college has fire extinguishers. The Institute gives utmost importance to cleanliness and hygiene in campus. A team of housekeepers takes care of hygiene and cleanliness to provide a congenial learning environment. Classrooms, Staff rooms, Seminar halls, Laboratories, etc are cleaned and maintained on daily basis. The maintenance officer conducts periodic checks to ensure the efficiency/working condition of the infrastructure. Periodic maintenance checks by staff keep all facilities operational. A centralized Computer Centre team maintains all software/hardware, CCTV IT infrastructure related issues. Lab assistants under the supervision of the System Administrator maintain the efficiency of the college computers and accessories. The non-teaching staff is also trained in maintenance of Laboratory and computer equipment's Parking facility is well organized. The campus maintenance is monitored through surveillance cameras. Proper inspection is done and verification of stock takes place at the end of every year. Central library has its dedicated human resource and the departmental libraries are looked after by the department office assistant and a faculty In-charge of the concerned department. All the departments take care of timely maintenance of the laboratory equipment. Most of the maintenance work is completed during summer break and a close monitoring of maintenance activities is a prime responsibility of Head of the Departments. Periodic reporting on requirements of repairs and maintenance are submitted by the HoDs to the Administrative office. The Institute is proactively involved in overall development of the students. Due importance is given to groom students in sports and cultural activities. In order to create atmosphere conducive to sports a Sports Committee has been constituted. This committee monitors the sports activities. There are facilities for Indoor and outdoor games. As the college has a big play ground the students play Cricket, Volleyball, Football, Kabaddi, Kho-Kho, Tennis etc. There is spacious hall for Indoor games which is availed of by students for Table-tennis, Chess and Carrom etc. There is also a section in the hall for yoga and meditation. There is room for music and in this room, there are musical instruments. The cultural activity is noteworthy. The all students are trained for the music practices all

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	Akash Scholarship and topper scholarship	200	1568000
Financial Support from Other Sources			
a) National	Government Scholarship	1693	110234604
b)International	Nill	Nill	Nill
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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 implemetation	Number of students enrolled	Agencies involved
SWOT Analysis(ELE – SWOT2-19)	16/07/2019	149	Elegance Department
Creative and Critical Thinking(ELE – CT4-19)	16/07/2019	73	Elegance Department
Personality Development(ELE – PD6-19)	11/07/2019	81	Elegance Department
Basic English Grammar(ELE - BEG1-19)	24/07/2019	91	Elegance Department
Motivation(ELE – MO3-19)	16/07/2019	87	Elegance Department
Universal Human Values(ELE - UHV1-19)	06/08/2019	69	Elegance Department
SWOT Analysis(ELE – SWOT2-20)	05/12/2019	156	Elegance Department
Creative and Critical Thinking(ELE – CT5-20)	11/12/2019	82	Elegance Department
Personality Development(ELE – PD7-20)	02/12/2019	87	Elegance Department
Basic English Grammar(ELE – BEG2-20)	07/12/2019	102	Elegance Department

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 for competitive examination	Number of benefited students by career counseling activities	Number of students who have passedin the comp. exam	Number of studentsp placed
2019	GRE, TOFFLE and IELTS Competative exams	143	Nill	0	318

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	Number of grievances redressed	Avg. 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		
Nameof organizations visited	Number of students participated	Number of stduents placed	Nameof organizations visited	Number of students participated	Number of stduents placed
Tech Mahindra	100	36	Nill	Nill	Nill

5.2.2 – Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Depratment graduated from	Name of institution joined	Name of programme admitted to
2020	1	Bachelor of Engineering	Electronics and Communication Engineering	YCMOU	MBA
2020	1	Bachelor of Engineering	Electrical Engineering	Shri Ramdeobaba College of Engoneering and Management ,Nagpur	M.Tech. PEPS
2020	1	Bachelor of Engineering	Electronics and Communic	Veermata Jijabai Tech nological	M Tech PG ETC

ation Engineering	Institute (VJTI), Matunga Mumbai

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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	Number of students selected/ qualifying
GATE	0

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

Activity	Level	Number of Participants
Fashion Walk	Institute level	21
Traditional Day	Institute level	15
Tatoo Competition	Institute level	7
Rangoli Competition	Institute level	10
Mehandi Competiton	Institute level	12
Drama Competition	Institute level	13
Dance Competition	Institute level	14
Singing Competition	Institute level	13

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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/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2019	University Board of Sport, Pune	National	1	Nill	TBE14345	Nayan Warudkar and Team
2019	Cricket Tournament	National	1	Nill	TBE14345	Nayan Warudkar and Team
2019	Inter Collegiate Sports	National	1	Nill	TBE14046	Akshay Mankar and Team
2019	UDAAN - Volleyball	National	1	Nill	TBE13049	Naina Gaisamudre and Team
2019	UDAAN - Cricket	National	1	Nill	TBE15140	Pratik Raghav and Team
2019	Avishkar -2K19	National	1	Nill	TBE16212	Kajal Meshram

| 2019 | Sportacus | National | 1 | Nill | TBE16212 | Kajal Meshram and Team |

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

The institute strongly believes that involvement of students is necessary for the overall progress of the institute. Institute encourages active participation of students through nomination by HODs and Principal. Through the selection process Coordinators from the students have been nominated on Cultural Committee and Sports Committee. These student committees actively work for different activities conducted in the institute. As per provision in The Maharashtra Public Universities Act, 2016 the Students' Council is formed in college. The representative of the students' council of the college participates in the students' council at university level. It is pertinent to mention that the President and Secretary of the Students' Council of the college are the members of College Development Committee constituted as per provision in The Maharashtra Public Universities Act, 2016. Besides students' council which is mainly responsible for organization of various activities in the college the college has constituted following academic and administrative committees which have students' representatives:- Anti-ragging Committee – It prohibits any sort of ragging in the college premises. Women's Grievances Committee – It addresses the grievances of women. Sports Committee – Organizes college level sports tournaments, sends college teams for participation in inter-collegiate, university, state and national level sports tournaments. Cultural Committee – It organizes cultural program in the college and ensures representation of the college in cultural events organized at inter-collegiate, university, state and national level cultural events. NSS Committee – It organizes NSS activities of the college. E- Magazine Committee – It prepares and publishes the E-Magazine containing information of the various activities conducted in the college. Career Guidance Committee – It is involved in guiding the students as regards their career. Student Forum in each Department – The co-curricular activities is organized under the aegis of this committee. Canteen Committee – It ensures that delicious and hygienic food is provided to students and employees.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

The College has established Alumni Association. The Alumni Association is registered under Societies Registration Act 1860 and bears number MAH 701/14. Alumni Association meetings with Management and staff are periodically conducted in the college and at other important places including Pune. It functions effectively. The Alumni who have acquired high positions in several fields of life , who have become industrialist, who have experience and expertise to their credit, who have placed significant role in society are invited to college to deliver lectures and motivate students and provide counselling to students for seeking career opportunities. Institute along with alumni discuss with other stake holders on various matters and academic performance and the alumni feedback is obtained for improvement in quality. On the basis of feedback obtained from alumni, the college modifies and updates all the academic activities and all other programmes related to the current students. The financial assistance is contributed for the welfare of students such as gifts for rank holder students and achievers. Initiatives have been taken recently by Principal to attract Alumni to come forward to conduct campus

interviews from corporate sectors, IT companies and other organizations for providing job opportunities and placement of current students. In terms of money the Alumni Association of the college in the years 2019-20 has contributed the sum of Rs. 85500 (Eighty five thousand and five hundred only)

5.4.2 – No. of enrolled Alumni:

388

5.4.3 – Alumni contribution during the year (in Rupees) :

85500

5.4.4 – Meetings/activities organized by Alumni Association :

2

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)

A number of best practices have been explored and implemented, and have been found to have a positive impact upon the all-round performance of students and the Institute. Amongst the several practices, most prominent are (I) E-Management: for effectiveness and Transparency. (II) Green Initiative, (III) Creation of Awareness among Faculty and Students about their social responsibility. The Institute is highly distinctive in Integrated Diversified Techno Values, as we have Students from states like MP,UP,CG,Bihar, JK and country like Nepal etc. The high levels of different Ethical and Cultural Values, the Students are executing various services to the benefit of the local village.

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

Yes

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):

Strategy Type	Details
Curriculum Development	The institute is affiliated to the RTM Nagpur university, Nagpur, and therefore follows the syllabus designed by the University. However, the University representatives of our institute and other faculty members give inputs in the syllabus revision process. The Institution develops action plans for effective implementation of the curriculum. The teachers are allocated subjects based on their specialization and experience. Heads of the Department keep track of the progress by holding department level meetings periodically. University rules and regulations are strictly followed. The efficient functioning of the remedial system encourages the students to perform well in their

		studies.
Teaching and Learning		The college has always aimed at effective curriculum delivery through a well-planned and documented teaching-learning process. We are following OBE methodologies and planning for applying for NBA accreditation under Tier-II group institutions. Teaching plans are based on an academic calendar. Multimedia teaching aids and ICT supplement the teaching-learning process. We have devised new teaching pedagogies for different category of students. The faculty members identify the advanced learners. Promising students are encouraged to participate in a wide range of academic events, organized by the College or other institutions. Students Remedial System is followed for giving special coaching to slow learners. Teachers attend Orientation and refresher course for enriching their capabilities. Special lectures are organized, featuring faculty members and other experts from different institutions.
Examination and Evaluation		We follow University examination scheme of 80:20 wherein 80 weightage is given to end semester exam 20 weightage is given to internal test. Three internal tests are conducted(Unit test, Mid Term test, and End Term test). Self learning is observed through Assignment. Peer learning is observed through Tutorials in the class. Seminars, Projects and Practicals are conducted regularly. The student is assessed by considering the attendance, observation report, record note books on continuous basis. Other class tests such as re-test and unit test are also conducted for slow learner and/or absent students in genuine case.
Research and Development		RD Cell of TGPCET is focusing on improving IPR activities. Accordingly RD cell has planned awareness workshop on patent search, patent drafting, and filling application. Also session on Copyrights, Trademarks etc are planned. To involve more students and faculty in innovation interdisciplinary projects are promoted. To improve on research publication all UG students are made compulsory to publish one paper based on their project. So also PG students are required to published 3 papers

	based on their projects. Faculties are encouraged to publish research papers in internationally reputed journals/conference. Suitable weightage is given to faculty in their APR. It is proposed to launch a GPGI Young Innovation award for motivating the students and increase involvement in innovation. RD cell also planning to work exhaustively to promote entrepreneurship among the students. For this we have proposed to extend their activities for incubating project ideas of students.
Library, ICT and Physical Infrastructure / Instrumentation	The Institute has library space in excess of AICTE norms with adequate seating capacity of about 250. We have about 21830 volumes 6451 titles. In addition, we are equipped with 12866 e-books also multimedia room. We also subscribe DELNET for e-recourses. We have 32 ICT enabled classrooms, 7 seminar halls with state-of-the-art PA systems. We have 5 acres of land. We Have7 seminar halls with 90 seats 1 OPEN auditorium with 200 seats. The campus has 650 computers all LAN connected. The campus is wi-fi connected. The labs are state of the art with all modern equipment's. There are research labs and incubation centre for innovators.
Human Resource Management	Teaching faculty requirement is decided as per AICTE student faculty ratio. The cadre ratio is also as per AICTE norms. The non-teaching staff requirement is at the discretion of the management to meet the needs of departments. Faculties are provided paid leaves for attending workshops, paper presentation etc. A modern language laboratory and computer lab is established. Yoga training is provided as a regular activity to the interested staff members and students for enriching their physical, mental and social health. Minimum 2 Students from every class is nominated for NSS activities. Through NSS activities students and faculties are introduced with social connect and provide possible services to the society and for the conservation of nature. In-door and out-door sports facilities are provided. Students are encouraged to participate in inter-collegiate sport activities.

Industry Interaction / Collaboration	The institute has industry collaborative laboratories in Electrical and Mechanical Engg. Each department has industry person in their advisory board. The institute has constituted IQAC Cell and it has Industry representatives for suggestions with regards to curriculum development and other academic activities. Our training placement cell continuously strives for networking with industries for placements internships. The Institute has signed MOU with many reputed companies within and nearby Nagpur city. These MOUS are signed for mutual benefits, mainly for value added courses, Certification courses, internships, incubation centres and projects. Guest lectures are arranged on current topics every semester for the benefit of the students. Every department conducts seminars inviting eminent persons from other states.
Admission of Students	The Admission Committee of our College, comprising our Principal and senior faculty members as well as a few senior non-teaching staff members work tirelessly to ensure fair and hassle-free admission of students. With the entire admission procedure being online, the students too feel convenient to monitor the process themselves, without having to move physically from one college to the other. The eligibility criteria for general students and special category students are as per state Govt. norms. The college has been carrying out the students admission procedure with the use of Smart College software, where the online support for the same is provided by the institutions website developer.

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

E-governace area	Details
Planning and Development	Year of Implementation 2011-12 Sack Info 2.5 ERP Designed, Developed Maintained by SyNchRoniK Inc., Nagpur Mr. Rupesh Bhattad, MD synchronikinfo@gmail.com
Administration	Year of Implementation 2011-12 Sack Info 2.5 ERP Designed, Developed Maintained by SyNchRoniK Inc., Nagpur Mr. Rupesh Bhattad, MD

	synchronikinfo@gmail.com
Finance and Accounts	Year of Implementation 2011-12 Sack Info 2.5 ERP Designed, Developed Maintained by SyNchRoniK Inc., Nagpur Mr. Rupesh Bhattad, MD synchronikinfo@gmail.com
Student Admission and Support	Year of Implementation 2011-12 Sack Info 2.5 ERP Designed, Developed Maintained by SyNchRoniK Inc., Nagpur Mr. Rupesh Bhattad, MD synchronikinfo@gmail.com
Examination	Year of Implementation 2011-12 Sack Info 2.5 ERP Designed, Developed Maintained by SyNchRoniK Inc., Nagpur Mr. Rupesh Bhattad, MD synchronikinfo@gmail.com

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
2020	Mr. Radharaman Shaha	Online Training on Artificial Intelligence (AI) organized by MSME-Technology Development Centre (PPDC), Government of India Organization, Foundry Nagar, Agra- 282 006 (U.P.)	Nill	750
2020	Ms. Chetan Jambhulkar	Online training on Internet of Things organized by MSME-Technology Development Centre (PPDC), Government of India Organization, Foundry Nagar, Agra- 282 006 (U.P.)	Nill	600
2020	Mr. Sanjay Bhadke	IWCSET-2020	Nill	1000

2019	Mr. Amey Khedikar	Seminar on Construction Material and Technology at YCCE , Nagpur	Nill	500
2019	Mr. Sanjay Bhadke	Seminar on Construction Material and Technology at YCCE , Nagpur	Nill	500
2019	Mr. Aasif Baig	Seminar on Construction Material and Technology at YCCE , Nagpur	Nill	500
2019	Mr. Aasif Baig	Seminar on Waste to Energy : A Solution for Tomorrow at YCCE , Nagpur	Nill	500
2020	Ms. Rohini Pochhi	E-international conference	Nill	500
2020	Ms. Snehal Paliwal	E-international conference	Nill	500
2020	Dr. Prabha Nair	one week FDP on Advanced Research Methodology and Innovative Teaching Pedagogy	Nill	1000
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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 organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
2020	One week Industry sponsored online certificate program on foundations of "DBMS Technology"	Nill	09/04/2020	14/12/2020	149	Nill

2020	Nill	Two Day Workshop on Personality Development	10/02/2020	11/02/2020	Nill	17
2020	One week Industry sponsored online certificate program on "Advance java"	Nill	06/04/2020	12/04/2020	98	Nill
2020	One day workshop on How to make Mobile Charger	Nill	13/04/2020	18/04/2020	12	Nill
2020	Online certification Program on Metro Rail Technology	Nill	23/06/2020	23/06/2020	25	Nill
2020	Nill	One day webinar on Gender Equality	08/04/2020	14/04/2020	Nill	20
2020	one week FDP on Advanced Research Methodology and Innovative Teaching Pedagogy	Nill	08/06/2020	14/06/2020	180	Nill
2020	One Day Seminar on Computer literacy	Nill	05/04/2020	05/04/2020	Nill	20
2020	One Week online Industry Sponsored Certification Program on Industrial Hydraulic and pneumatic system	Nill	01/06/2020	06/06/2020	170	Nill

| 2020 | Nill | One week workshop on Ms-Office, General Awareness And Internet Usage | 08/04/2020 | 14/04/2020 | Nill | 45 |

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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	From Date	To date	Duration
WhatsApp Outcome Based Education	20	14/03/2020	14/04/2020	21
One week FDP on Advanced Research Methodology and Innovative Teaching Pedagogy	15	08/06/2020	13/06/2020	6
Python and Django Framework	2	20/05/2020	02/06/2020	14
Faculty Development Program on Online teaching learning material using ICT Tools	3	08/06/2020	13/06/2020	5
Faculty Development Program on Current trends in Industry	2	02/05/2020	05/05/2020	4
One Week Online Faculty Development program on Electric Vehicle	2	11/05/2020	16/12/2020	6
One week online Faculty Development Program on "Outcome based Education: A	2	11/05/2020	15/05/2020	5

step towards Excellence" under Margdarshan Scheme of AICTE, New Delhi				
One Week Online Faculty Development program on Recent Trends in Electrical Engineering RTEE-2020	4	18/05/2020	22/05/2020	5
One Week Online Faculty Development program on Overcoming the Challenges in Adapting Online Technology in Teaching Learning	3	06/05/2020	11/05/2020	5
Two week online faculty development program on Research Opportunities in Electrical Engineering under TEQIP-III	4	07/05/2020	16/05/2020	10

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6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
1	29	20	Nill

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
1. Group Insurance of Staff 2. Maternity Leave 3. Staff Loan 4. Staff Ward Concession 5. Leave for Higher Education 6. Bus Facility 7. Financial Assistance for Conference 8. Subsidized food in the canteen	1. Group Insurance of Staff 2. Maternity Leave 3. Staff Loan 4. Staff Ward Concession 5. Leave for Higher Education 6. Bus Facility 7. Financial Assistance for Conference 8. Subsidized food in the canteen	1. Bus Facility 2. Book Bank Facility 3. Financial Assistance for Conference Project Competition 4. AICTE funded PRERANA scheme for GATE coaching 5. The institute conducts soft skill development, career counselling, and personal enhancement sessions to ensure the success in

6.4 – Financial Management and Resource Mobilization

6.4.1 – Institution conducts internal and external financial audits regularly (with in 100 words each)

The Institution conducts internal audit half yearly and external audit at the end of every financial year. Financial planning is exercised well in advance for the organization and efficient budgeting is done by involving the various Academic departments and Administrative sections of the Institution. Financial planning and review is done by Governing Body where Secretary and Treasurer are members. Internal audits are carried by internal audit committee (IAC) and external financial audits are regularly done by chartered accountants. The institutional mechanisms for internal and external audit are given below: The internal audit of accounts is carried out by Treasurer. The Internal auditor checks fee receipts and payment vouchers and necessary supporting documents. Final report is submitted to the Governing Body during GBM for validation. The External audit is conducted at the end of financial year. The audit is carried out by chartered accountant (CA). During the internal audit the Treasurer raise objections, if any, related to finance and stock related records, giving an opportunity to the accounts to address and rectify the same. Queries in the audit will be reported to the account section and compliance is effected within a months' time. He also give necessary guidance for improvement in account maintenance. These measures ensure no further discrepancies in the records that can be objected by the external auditors. Every Financial transaction is recorded through software.

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/ Grnats received in Rs.	Purpose
KEC International, Ambuja Cement Foundation, PM Yuva Yojana National E-HUB, Bank of India	1999384	International Conference, Consultancy Work, Sponsorship, Donation
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6.4.3 – Total corpus fund generated

3000000

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	No	Nill	Yes	IQAC
Administrative	No	Nill	Yes	IQAC

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

The parent-teacher meeting has been conducted Twice in a Semester to convey the parents about progress of their wards every year during Induction programmed of FE. Parent meet is also organized for informing parents counselling. During every parents teacher meet, feedback has been taken from all parents for the overall development of the institution.

6.5.3 – Development programmes for support staff (at least three)

Two Day Workshop on Personality Development Two Day Workshop on Computer Literacy One Day Seminar on Computer literacy One week workshop on Ms- Office, General Awareness And Internet Usage Workshop on Art of Email Communication One Day Workshop on Computer Hardware Maintenance Faculty development program on Instructional Planning and Delivery One Week online Industry Sponsored Certification Program on Industrial Hydraulic and pneumatic system Workshop on "Work Ethics Values" Two Days Workshop on "Computer Awareness Program"

6.5.4 – Post Accreditation initiative(s) (mention at least three)

Criteria -1 • Industrial certification courses. • Soft Skill Courses through Elegence • Compulsory Internship. • Value Added courses for Campus Placement, Soft skill, Life skill apart from technical. Criteria -2 • Effective mentoring system for all round development of students. • In house ERP module for academic planning, monitoring • LMS and Lecture Capturing system to integrate ICT in Teaching Learning process. • Students are encouraged for Industrial Projects. • Industry supported Labs • Reformation in Internal Assessment process. • Students result is enhanced. Students are in University Top Ten merit ranks • Outcome Based Education is Practiced by Faculty and Students Criteria -3 • ISTE and AICTE sponsored FDP conducted. • Industry Academia linkages through 50 MOUs. • RTMNU recognized NSS Cell. Extension activities in association with Govt. organizations. • IPR Cell for to promote Industry academia innovations practices. • Industry persons talk and entrepreneurship development programs organized. Criteria-4 • ICT enabled Class room and Seminar Halls • Enhancement in Library facilities and Digital Library • Enhancement in Internet Bandwidth • Maintenance Committee to ensure well maintained campus and its units. Criteria-5 • Career Guidance, Guidance for Competitive examination and Soft Skill training by trainer and external experts. • Enhancement in Placement and Higher studies • AICTE sponsored PRERANA for GATE coaching • Professional Societies Chapters of ISTE,IEI,ICI,CSI • Improvement in Alumni Engagement Criteria-6 • Perspective plan for 2017-22 in place to monitor the implementation and future aspects • Enhancement in faculty and staff welfare measures. • External peer review is through involving experts from Industry/ Reputed Institute/NGOs committees, Invited talk series, curriculum part delivery and audits • Participative Management Criteria-7 • Implementation of Solar System to meet 65 of power requirements • Improved in Green Initiatives and Waste Management system.

6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b)Participation in NIRF	Yes
c)ISO certification	Yes
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 IQAC	Duration From	Duration To	Number of participants
2019	Submission of IIQA to NAAC	12/09/2019	12/09/2019	12/09/2019	10
2019	Submissions of SSR to NAAC	30/10/2019	12/09/2019	30/10/2019	50
2019	Academic A	10/08/2020	10/08/2020	13/08/2020	19

2019	Introduction of New Certificate courses	27/07/2019	27/07/2019	12/10/2019	831
2019	Introduction of New Value added courses	16/07/2019	16/07/2019	07/03/2020	992
2019	Introduction of Media Room	22/06/2020	22/06/2019	22/06/2020	145
2019	International Conference	20/12/2019	20/12/2019	21/12/2019	400
2020	Skill development workshop on Advance JAVA	13/04/2020	13/04/2020	18/04/2020	400
2020	One Week Faculty Development Program on Advanced Research Methodology Innovative Teaching Pedagogy	08/06/2020	08/06/2020	13/06/2020	100
2020	Seminars/workshops on IPR conducted 'Copyright and Internet Revolution'	27/06/2020	27/06/2020	27/06/2020	108
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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	Period To	Number of Participants	
			Female	Male
Webinar on Gender Equity: Women's Role in IT Industry	30/07/2020	30/07/2020	143	0

Webinar on Gender Equity: Career & Home Maker: A matter of equity Male and Female	23/07/2020	23/07/2020	149	0
Women Empowerment Program	09/01/2020	09/01/2020	87	0
Sexual Harassment Program	24/08/2019	24/08/2019	126	0
Self Defense Program for Women	16/07/2019	16/07/2019	85	0

7.1.2 – Environmental Consciousness and Sustainability/Alternate Energy initiatives such as:

Percentage of power requirement of the University met by the renewable energy sources
Total power requirement-158474 kWh/Yr Renewable energy generated and used (Solar Energy)-164642 kWh/Yr Energy supplied to the grid (Export)-63754 kWh/Yr Import from the MSEDCL- 72999 kWh/Yr (Aug 19 - Jul 20)

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	0
Provision for lift	Yes	0
Ramp/Rails	Yes	0
Braille Software/facilities	Yes	0
Rest Rooms	Yes	0
Scribes for examination	Yes	0
Special skill development for differently abled students	Yes	0

7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
2019	1	Nill	18/08/2019	1	Taking the locational advantage Situatedness near Kamthi	showing working of irrigation project	53

					site visit to Pench Irrigation Project and hydrology climate change station for the students of 3rd year and 4th year, followed by the guest lecture of Er N. Z. Baiswarey, Sub Divisional Engine		
Nill	1	Nill	24/08/2019	1	Taking the locational advantage Situatedness near Dongargaon site visit to RMC Plant Dongargao, Wardha Road, Nagpur for 2nd year students	showing working of RMC plant	48
Nill	1	Nill	01/02/2020	1	Taking the locational advantage Situatedness near Bhandewadi Site visit at Waste Water Treatment Plant, Bhandewadi, Nagpur	showing working of Waste water treatment plant	33
Nill	1	Nill	20/12/2	2	Taking	Sharing	128

| | | | | 019 | | | the locational advantage of Situatedness near International Airport the International Conference ICIRSET-20 is arranged | of knowledge | |

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7.1.5 – Human Values and Professional Ethics Code of conduct (handbooks) for various stakeholders

Title	Date of publication	Follow up(max 100 words)
Institute Code of Conduct	01/07/2019	http://www.tgpcet.com/NAAC-Criteria/7/7.1.12.pdf

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Death anniversary of Tulsiramji Gaikwad	18/07/2019	18/07/2019	88
Independence Day	15/08/2019	15/08/2019	220
Teachers Day	05/09/2019	05/09/2019	62
Republic Day	26/01/2020	26/01/2020	62
Engineers Day	07/09/2019	07/09/2019	235

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7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

College bus facility is available for students and staff members Car pooling use by faculties Nagpur Muncipal Corporation bus facility is available Single use plastic free campus Plants leaves are decomposed then use as compost

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

1. Title of the Practice: E-Management: for effectiveness and Transparency. 2. Goal: To use E-management tools for effective: i. Teaching and Learning ii. Monitoring and Maintaining iii. Transparency 3. The Context: The use of information technology in management in any organization can augment the productivity and quality. The use of information technology in the domain of education can accord help to the students. The help is extended to the students by ready availability of subject resources, Time Tables, Performance, Attendance schedule related to all examinations and other programmes/activities. Moreover it offers transparency which is most important aspect of the management. Similarly e-management systems are extremely helpful in providing aids to the Members the teaching staff and it accords a great help to create a culture of transparency which is very significant and consequent for healthy and un-biased working atmosphere. 4. College has resorted to uses of information technology in management of several systems for the students,

members of the teaching staff and the members of the non teaching staff through following practices: i. Website: a) Availability of complete information beginning from departments, courses and teachers including Main phone contacts. b) Complete details about the course structure, Syllabi, subject details, time table, the rules and regulations and the examination procedure. ii. Internet for effective dissemination of information and strong space (N: Drive) accessible to everybody, everywhere in the college campus. iii. Study material is available on college website for 24X7 referal iv. Web kiosk: Different persons and professional activities/ aspects related to the college can be entered and retrieved making the system transparent. These activities are related to a) Personal: salary of employees, details of benefits, kinds of leaves, attendance, details in case of emergency, and help in tax information. b) Teaching: student attendance, information about the students who bunk the classes, classroom booking. c) Examination: the Entry of marks, grade entry, result, invigilation duty. d) Counseling and mentoring: To view grades of the students and performance of the students by parents and teachers. e) Provide feedback: e.g. IQAC. 5. Evidence of success: the practice followed by College has led to the creation of healthy and transparent work culture. The transparency and dissemination of knowledge/information in easy manner through IT enabled system starting from the classroom experience to examination has accorded great help to the students and the parents concerned. The policy to view examination copies, mechanism to redress issues/ problems along with engagement has provided unbiased and effective mechanism. For employees the information about salaries, benefits kind of leave, income tax deduction, etc are available online. This type of transparency along with healthy policy for promotion and help in career advancement makes college an alluring place to work. College has good rate of faculty and staff retention. The confidence of faculty reposed in system has laid to long term thinking and planning. 6. Problems encountered and resources required: The change from paper work to paperless work is not easy. Since many years the employees have engaged themselves in traditional letter writing, report writing, etc. The mindset of the employees has been mandating them to resort to paper to express their opinions, views and remarks on paper only. Change from paper work to paperless works needs change in mindset. Moreover it is the matter of training. The senior employees traditionally involved in the paper work initially are reluctant to receive training to change to correspondence. College has senior as well as young and enthusiastic members of teaching and non teaching staff. Though it took time to change the mindset of the senior employees, with the passage of time, after learning the simplicity and effectiveness of new method gradually they shifted themselves to new methods. Now all employees in the college are able to implement several aspects of engagement successfully. Best Practice II 1. Title of the Practice: TGPCET Green Initiative 2. Goal: Environmental issues bring about thoughtful questions on the role of Institute in society. Irrespective of whether they are contributing to a better environment or worsening it, Institutions have to acknowledge environmental or green issues through impact research and measurement. Based on the approach college has significant Green Initiatives to Promote sustainability by creating awareness Share knowledge expertise-Expert talks about environmental problems and possible solutions Deploy eco-friendly technologies for greening and cleaning our campuses 3. The Context: Water Management, Waste management, Energy (conservation and generation) and Landscaping and Trees. 4. The Practice: Energy conservation • The Internal stakeholders take all measures to save the power. • More than 50 lighting requirements are met through LED sources and Solar System Use of renewable Energy • Interactive solar power generating system of 120 KW is provided on the roof top of the buildings. With the installation of this system 70 to75 of the total electricity requirement is met .It also has additional advantages like: no escalation in power cost for 15 years upto20 rebate in property tax under Green Building Norms , Un-interrupted

energy use during day time round the year. Hot water is provided in Bathrooms of boys and girls hostels Water harvesting • Rain water harvesting structures are in place which collects the roof top rain water and discharges it to ground. Efforts for carbon neutrality •Installing solar panels helps in reducing carbon emissions. The installation of 167258 KWH solar power systems has saved the amount of carbon dioxide released into the air. Thus the emission of carbon dioxide is well controlled with these efforts in the institute to achieve carbon neutrality. Plantation • Every year students along with the garden staff plant trees. Plantation Drives are organized by NSS. Due to this program over the years the campus has become lush and green. Also, a herbal garden consisting of plants with medicinal values is proposed to be cultivated in the college campus. E-waste management • E-waste generated is first reused in the campus itself. 1.Evidence of success: Water Management: Due to the increase of water usage, the volume of sewage increases and safe disposal of sewage has become a cause of concern. The appropriate reuse of treated sewage is the obvious and eminent solution. Our Institution has sewage treatment plant (STP) to recycle the waste water. To ensure effective utilization of waste water, the lawns, saplings and trees in the campus are watered after recycling. Well constructed drainage system in the form of closed collection tanks prevails in our campus. The tanks are regularly cleaned to avoid stagnation of water. Effluent Treatment Plant is in place for effective treatment of liquid waste. Waste management: Solid waste management is the process of collecting, treating and disposing of solid waste material. Improper disposal of solid waste can create unsanitary conditions in turn leads to pollution of the environment and outbreaks of vector-borne diseases. The college has made adequate arrangement for solid waste management. To make the environment conducive for survival and retaining the natural setting, the following procedure is followed in the campus: For disposal of Biological waste Dustbins are placed at distinct spots. There is proper collection of fallen leaves of the trees and plants and these leaves are converted into manure for fertilization. Food and vegetable waste from mess and canteen is collected and that is used to feed the animals outside the campus . A common Effluent Treatment Plant is functioning to treat solid and liquid waste and to produce energy/gas for cooking. Solar Systems: The College has installed solar panels on the top of the building. This system produces total Energy 167258 KWH. It has substantially reduced the electricity consumption. This system provides round the clock energy supply. This system has considerably lessened dependence on supply of electricity. Landscaping and Trees: Keeping the campus green and clean is mandatory for the institution to keep the ambiance of the institution .The vibe is conducive to teaching and learning process .The endeavours are made in respect of Global Warming, Soil preservation, reducing air pollution, getting more oxygen and good rain . The college has developed a magnificent infrastructure with the "Clean Green Campus" as its motto. It provides a natural eco friendly ambiance to the students to enjoy learning experience at the lush green atmosphere. The small seeds that we planted a few years ago have grown into a large number of trees. The campus is turned into an eco friendly and green campus. It includes various eco friendly trees. The Ventilation in classrooms is adequate due to natural light and air. 6. Problems encountered and resources required: The initial problem was related to certain formalities related to Maharashtra Electricity Board. It took much time to get the necessary permission. The installation process also consumed lot of time. However the ardent and earnest efforts of the college solved all these problems and solar plant was installed. The solar plant is functioning properly. The Green Initiative seeks to better the ambience which is conducive to teaching learning process. The trees and the plants need to be zealously needed to be guarded.

Upload details of two best practices successfully implemented by the institution as per NAAC format in your

7.3 – Institutional Distinctiveness

7.3.1 – Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust in not more than 500 words

Distinctiveness - Diversity of Students Promoting diversity in the Institutions is a big challenge. We have highlighted diversity practiced and illustrate the ways to incorporate an understanding of diversity in the classroom and beyond. The Institution has admitted students from various states in India like MP,CG,Bihar, UP, JK and Countries like Nepal. Much discussion about diversity focuses on the forms of marginalization: Race, Gender and physical orientation. 1. Diversity in the classroom Having a diverse group of students simply means recognizing that all the people are unique in their own way. Their differences consist of their reading level, athletic ability, cultural background, personality, religious beliefs, and the list goes on. There has always been diversity in the classroom, but it is important to embrace it and make positive use of it. Teachers value the diversity and model this attitude to their students. Teachers recognize and respect the fact that students are different and these differences are generally good things. For example, when attempting to solve a problem, teacher assembles a diverse team with many skills and many different ways of approaching the problem than a team that has all their strength concentrated in one area. Teachers playing number of roles in the classroom yet, valuing diversity is one of the most important ones. Here is a list of environments created where each student feels valued and respected. Take the time to learn students background, interest and learning style. Create an environment that is conducive to each individual student to learn about each other and gain an appreciation for the diversity they bring to the classroom. Teach students that everyone has strength and weakness. When working in teams, students are encouraged to take advantage of their strengths of the team members to produce the best possible results. Invite guest speaker from different places may share certain qualities with students. Implement a zero tolerance for anything that is disrespectful, hurtful, or intolerant of diversity 2. Learning Culture, Location and Ambiance The atmosphere in the classroom reflects the importance of the work undertaken by both students and faculty members. RTMNU and AICTE are recommending English as the medium instruction. This avoids the language problem. A classroom with a strong culture for learning is characterized by high cognitive energy. There are high expectations from all students and the classroom is a place where the teacher and students value learning and hard work. For the weak students, the institute arranges remedial classes to improve the performance. Mentors are allocated to the students to give counseling in their academic, personal problems and create fearless environment. Elegence – Finishing school is active for the professional and personality development of the students 3. Ethical Values and Integrity College celebrate national days like Republic day, Independence Day, International Women's Day, Engineers day, Teachers Day, etc to inculcate the importance of moral values and significances. During every program, the national anthem is being played to feel the integrity and patriotism.

Provide the weblink of the institution

http://www.tgpcet.com

8.Future Plans of Actions for Next Academic Year

In view of COVID-19 pandemic, there is paradigm shift in Teaching-Learning process. Therefore the institute is planning new and innovative methodology to cope up with this change. There is need of development of T-L tools/Methodology which can be implemented in online mode to comply with effective T-L process. The

digital teaching material will be made available to the students through youtube channel. Institute will prepare pool of MCQs for every subject with minimum 150 questions per subject. All the examinations of next semester may be conducted in online mode using MCQs. Conduction of Practicals may be through online mode. To prepare for it, faculties are advised to record the video of the practicals to be performed. Especially in non circuit branches. Performance of the practical will measured through MCQs based on practical topic. Institute is also planning to start UG/PG courses in emerging areas as per AICTE norms. The institute is also proposed to start new add-on courses to improve employability of the students like salesforce, drone technology, Fire and Safety training etc. The institute is also planning to go for NBA accreditation of eligible UG programs.