



# **SELF STUDY REPORT**

**FOR**

**2<sup>nd</sup> CYCLE OF ACCREDITATION**

## **GOVINDRAO WANJARI COLLEGE OF ENGINEERING AND TECHNOLOGY**

**SALAI GODHNI, NEAR CHIKNA VILLAGE, HUDKESHWAR ROAD  
441024**

**[www.gwcet.ac.in](http://www.gwcet.ac.in)**

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Submitted To

**NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL**

**BANGALORE**

**August 2024**

# 1. EXECUTIVE SUMMARY

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## 1.1 INTRODUCTION

Govindrao Wanjari College of Engineering & Technology, Nagpur was established in the year 2008 by Amar Sewa Mandal, Nagpur with an objective of creating and uplifting the economically backward students and bringing them into the main stream of the society by giving them equal opportunities, quality education. Today's youth has skill and abilities; all they need to do is focus their energy. As a result, our faculty members have been given a variety of tasks to help them mentor students in both their extracurricular and academic endeavors.

The institute is approved by All India Council for Technical Education, New Delhi, Director of Technical Education, Mumbai and affiliated to Dr. Babasaheb Ambedkar Technological University, Lonere and Rashtra Sant Tukdoji Maharaj Nagpur University, Nagpur. The institute currently offers U.G programmes (B.Tech) in Civil Engineering, Electrical Engineering, Mechanical Engineering, Computer Science & Engineering, Electronics & Telecommunication Engineering and Information Technology. The institute also has a P.G Programme Masters in Business Administration.

The Institute strives to offer high-quality technical education in keeping with the demands of the quickly advancing technology and the competitive industry of today. The Institute offers a setting that makes it possible to maximize the potential of teachers and students by organizing the teaching-learning process in a methodical and efficient manner.

The core values of our institute are excellence in Academic & Research, Technical quality education, and maintaining perfection. We have made education a priority not only in fostering the growth of future engineers but also in helping students become well-rounded citizens and engineers. The institute is always ready to adopt the technological revolution. The welfare of the students is at the highest priority of the Institute.

### **Vision**

- To emerge as a centre of excellence creating research, innovation and entrepreneurial attitude among the technocrats who in turn shall contribute to the development of society and mankind.

### **Mission**

- To develop a culture of excellence in teaching and learning with accountability from all support activities.
- To promote new ideas leading to emergence of creators, innovators, leaders, and entrepreneurs.
- To achieve excellence in application-based research in technology to contribute to the development of the community.
- To imbibe the ethical values among the students to make them responsive citizens.

## 1.2 Strength, Weakness, Opportunity and Challenges(SWOC)

### **Institutional Strength**

The institute is an Research Centre for DMIHER Deem University, Wardha.

The robotics & Automation lab is created to promote the Industry based projects

The grant is received from the Industry for Research and Development activities.

It is an Institutional Member of ISTE, New Delhi

ISO 9001-2015 & ISO 14001-2015 Certified Institute

Functional MoU's with the Industries and Institutes.

The institute has experienced and qualified faculties.

Innovative teaching learning practices are followed.

The institute conducts entrepreneurship development activities for encouraging the entrepreneurial skills in the students.

The institute has well equipped infrastructure facilities like State-of-the-art laboratories, classrooms, tutorial rooms.

The institute is well connected through pedestal friendly roads.

The institute promotes enthusiastic students participation for social causes through the NSS Programme.

Institute promotes co-curricular and extra-curricular activities.

The Institute has departmental forums for overall personality grooming of the students.

Economically weaker students are given Scholarship by Management.

Exposure of Foreign University/Professor's collaboration is improved in form of International Conferences, International Faculty Development Programmes organized by the Institute and guiding Post Doctoral Research at foreign Universities.

### **Institutional Weakness**

Consultancy activities need to be enhanced.

Lack of government funding projects.

Institute lacks in sufficient patents.

## **Institutional Opportunity**

There is scope for inter-disciplinary research.

To provide exposure to the students from rural area for developing a scientific temperament through workshops and trainings.

The Institute can provide Academic flexibility if it becomes Autonomous.

## **Institutional Challenge**

Student's skill need to be enhanced through additional measures as per the continuous changing requirements of the industry.

Due to the growing number of engineering institutes there is need to attract academically good students.

Retention of qualified and competent faculties.

Campus placement in Core Engineering Companies.

## **1.3 CRITERIA WISE SUMMARY**

### **Curricular Aspects**

The institute was established in the year 2008 and it is affiliated to Dr Babasaheb Ambedkar Technological University, Lonere and Rashtrasant Tukdoji Maharaj Nagpur University, Nagpur. The institute strictly follows rules and regulations of the above affiliating University. The organization uses a methodical, well-documented procedure to guarantee that the program is delivered effectively. By means of its ongoing oversight, IQAC guarantees the transformation of quality education. In 2020-21, the Institute implemented the Choice Based Credit System (CBCS) under the directive of the affiliating university.

The institute at its level analyses the curriculum and identify the gaps which could be addressed by conducting value added programmes. The curriculum composes of cross cutting issues relevant to professional ethics, gender, human values, environment and sustainability to make the student globally competent. The curriculum of DBATU, Lonere and RTMNU, Nagpur is structured in such a way that various learning mechanisms could be practiced progressively from first year to final year. At college level the curriculum feedback from stake holders like students, teachers, alumni, employers etc. is taken and suitable action is taken to address the inputs given by the stakeholders. For effective delivery of the subject, there is a structured approach in administering the course by the faculty. On receiving the affiliating university academic calendar, the institute designs its Institutional Academic Calendar in order to organize and execute various co-curricular and extra-curricular events and is further distributed to all the departments for effective implementation.

### **Teaching-learning and Evaluation**

The institute is situated in the rural part of Nagpur. The Institute was established by the Management with a Moto 'Education for All' so that the weaker section of the society can be brought into main stream line. The institution believes that making the students academically strong would benefit, both their families and the country as a whole. As a result, the teaching-learning area has the highest emphasis inside the institution. The institution has state-of-art laboratories, stand-alone buildings and well-furnished admin and amenity areas. The academic infrastructure like ICT enabled class rooms, Language lab, learning resources digital library, 300 MBPS leaseline internet band width, well equipped auditorium, facilities are the assets for the Teaching-Learning-Process to carry more effectively. Above 80% of students who gets admitted to the Institute belongs to SC/ST/OBC categories. The Teaching-Learning-Process adapts student centric methods such as experiential learning, participative learning and problem-solving methodologies are used for enhancing learning experiences. The teachers are well-versed in using ICT enabled tools.

The Internal Evaluation, External Evaluation are done as per the guidelines given by the affiliating University DBATU, Lonere and RTMNU, Nagpur without any deviation. The Academic Coordinator monitors syllabus coverage and attendance every fortnight and necessary actions to be taken are discussed in the departmental meeting and necessary actions will be initiated with concern of HoD and Principal as mentoring plays a vital role in this regard. The course file is the heart of administering the course of a particular semester. The course file contains the vital elements like list of PEOs, POs and Cos, Academic Calendar, Assignment Questions, University Question Papers of past exams for the subject, Subject Notes etc.

### **Research, Innovations and Extension**

To encourage the research among the students and faculty a Research and Development cell is established at institutional level. The objectives and functions of the committee are made clear. Some Doctorates of the Institution are acting as recognized research supervisors by the affiliating University and deemed to be University. The R&D cell and IPR cell in association with IQAC of the institute has the practice of organizing R&D related programmes like research methodology, IPR and Patents, guidelines to write the papers etc. The institution also promotes the paper publications in reputed journals by assisting financially to some extent. It is the policy of the institute to encourage PG holders to enroll for further studies. Special leaves are granted for faculties who are pursuing Ph.D and attending for various academic fulfilment of the course. Also the faculty will be permitted to attend the research related workshops or seminars organizing outside the campus. The students are driven by their guides towards innovative/creative thoughts based on the contemporary problems facing by the society/nation. The faculty and students drive the technology to the society as needed. Particularly in this region there is scope for development of automated equipment for agriculture sector.

The institute is Research centre in Electronics & Telecommunication Engineering Department and Basic Science & Humanities Department in collaboration with Datta Meghe Institute of Higher Education & Research, Wardha. The Institutions Innovation Council Cell (IIC) and Industry Institute Interaction cell (IIIC) encourage the final year students to prepare new innovative projects for getting recognition in National level Science Exhibition.

The institution is also well aware of extension activities to be carried out in the neighbourhood community. There is strong NSS unit recognized by the affiliating university which helps to organize the events related to NSS in a structured manner. The institution is getting financial help from the affiliating university for carrying out these activities. Many national/international importance days are also celebrated to make the minds of the student and faculty service oriented. The institution by establishing MoUs with the other institution and industries carry out the collaborative activities of research and others.

## **Infrastructure and Learning Resources**

The institution has adequate infrastructure and physical facilities for teaching-learning. Viz., classroom, laboratories, computing equipment etc. also having facilities for cultural activities, sports games, gymnasium, yoga etc. Each classroom is of adequate size and has enough lighting, air ventilation and good ambience. Smart Class rooms are equipped with LCD projectors to facilitate the teachers to adopt varied teaching methods. The infrastructure is also made available to conduct various technical activities. The Institute has Six Engineering programmes and one Management Programme with 24 classrooms & 40 Laboratories.

All laboratories are operational, and well maintained. Tutorial rooms are available to conduct tutorial classes to address the personal level doubts and queries of the students. The Institute has well equipped seminar halls. Nearly 300 to 350 people can be accommodated in the seminar halls. Institute has sufficient Computing facilities with total 345 computers for staff and students. All computers are equipped with high-speed internet of 300 Mbps speed. The institution has adequate facilities to promote extracurricular activities like cultural events, sports, games, gymnasium and yoga.

## **Student Support and Progression**

The institution is of more concern of welfare of the students. The management in view of promoting the admissions with meritorious students offers scholarships and freeships every year in addition to the scholarships provided by the Government of Maharashtra.

The underlying motto is to give an opportunity to more number of students to get educated in this backward region. Students are encouraged to learn various set of skills like soft, language and communication, life, computing etc. the institution trains the students through skill development programmes for competitive examinations and career counselling programmes are organized.

The institution also has a transparent mechanism for timely addressing the student grievances including sexual harassments and ragging cases. Online grievance redressal portal is made available for all the stake holders.

The job-oriented trainings are organized by the training and placement cell. 35-40% of eligible students are getting placed in small to medium scale industries. Some students of the institute also progress in higher education. Some students are clearing the government competitive examinations and getting absorbed to PSU.

The students are encouraged to participate in sports/cultural activities at university/state/national/international level. The students are given an opportunity to represent in various committees at institutional level which make them to learn managerial skills. The alumni interactive sessions are also arranged with the objective of bringing awareness among the students regarding latest trends in technology.

## **Governance, Leadership and Management**

The governance of the institution is structure to reflect the vision and mission of the institute. The effective leadership is visible in various institutional practices such as decentralization and participative management. The students are allowed to be members of various committees at institutional level. This decentralization and participative management helps to take the decisions quickly and makes the students to enhance their leadership

skills respectively. The institution for effective functioning framed various committees at institutional level with clearly defined objectives and functions. Almost in all administrative domains rules and policies are in practice. In the important domains like admin, finance, student support and examination e-governance is implemented. There is provision for the students and faculties to have free/low cost medical services. The faculty are also encouraged and financially supported to participate in conferences workshops etc., The teachers are continuously motivated to undergo FDPs. At the end of every year performance appraisal will be looked in by the management. The institution established IQAC to impart high quality of education with effective planning and close monitoring. The institution undergoes academics and admin quality checks at appropriate times.

### **Institutional Values and Best Practices**

The institution promotes the measures for the gender equity by conducting various curricular and co-curricular activities. Separate facilities are made available for women in campus like safety and security, counselling, common rooms. The institution has facilities for alternative sources of energy and energy conservation measures viz. solar power plant of 75 KW, sensor based energy conservation and use of LED bulbs. There is a separate mechanism for solid and E-wastes management. Rain water is collected effectively and directed to a large ground level tank to store water. Inside the campus many green initiatives are in practice. The institution maintains disabled friendly, barrier free environment. The institution promotes human values and professional ethics among the student and faculty communities by organizing various events. The institution gives utmost to the discipline by bringing code of conduct for students, teachers and administrators and other staffs.

The birth and death anniversaries of National Heroes are celebrated to inculcate human values among students and staffs. The quality audits on Energy, Environment and Green audit is regularly done every year. The plastic free and pollution free environment is maintained in the campus.

## 2. PROFILE

### 2.1 BASIC INFORMATION

Name and Address of the College	
Name	GOVINDRAO WANJARI COLLEGE OF ENGINEERING AND TECHNOLOGY
Address	Salai Godhni, Near Chikna Village, Hudkeshwar Road
City	Nagpur
State	Maharashtra
Pin	441024
Website	<a href="http://www.gwcet.ac.in">www.gwcet.ac.in</a>

Contacts for Communication					
Designation	Name	Telephone with STD Code	Mobile	Fax	Email
Principal	Salim Chavan	7823-850876	9511761245	-	gwcet2008@gmail.com
IQAC / CIQA coordinator	Avishkar Wanjari	7875-237169	9309083281	-	avishkarwanjari@gmail.com

Status of the Institution	
Institution Status	Self Financing

Type of Institution	
By Gender	Co-education
By Shift	Regular

Recognized Minority institution	
If it is a recognized minority institution	No

Establishment Details	



State	University name	Document
Maharashtra	Dr. Babasaheb Ambedkar Technological University	<a href="#">View Document</a>
Maharashtra	The Rashtrasant Tukadoji Maharaj Nagpur University	<a href="#">View Document</a>

Details of UGC recognition		
Under Section	Date	View Document
2f of UGC	19-03-2015	<a href="#">View Document</a>
12B of UGC		

Details of recognition/approval by stationary/regulatory bodies like AICTE,NCTE,MCI,DCI,PCI,RCI etc(other than UGC)				
Statutory Regulatory Authority	Recognition/Approval details Institution/Department programme	Day,Month and year(dd-mm-yyyy)	Validity in months	Remarks
AICTE	<a href="#">View Document</a>	10-04-2018	12	AICTE EOA
AICTE	<a href="#">View Document</a>	10-04-2018	12	AICTE EOA
AICTE	<a href="#">View Document</a>	10-04-2018	12	AICTE EOA

Recognitions	
Is the College recognized by UGC as a College with Potential for Excellence(CPE)?	No
Is the College recognized for its performance by any other governmental agency?	No

Location and Area of Campus				
Campus Type	Address	Location*	Campus Area in Acres	Built up Area in sq.mts.
Main campus area	Salai Godhni, Near Chikna Village, Hudkeshwar Road	Rural	10.32	14923.54

## 2.2 ACADEMIC INFORMATION

Details of Programmes Offered by the College (Give Data for Current Academic year)						
Programme Level	Name of Programme/Course	Duration in Months	Entry Qualification	Medium of Instruction	Sanctioned Strength	No.of Students Admitted
UG	BTech,Computer Science And Engineering,Computer Science and Engineering	48	Intermediate or Diploma	English	90	90
UG	BTech,Information Technology,Information Technology	48	Intermediate or Diploma	English	60	60
UG	BTech,Electronics And Telecommunication Engineering,Electronics and Telecommunication Engineering	48	Intermediate or Diploma	English	30	30
UG	BTech,Mechanical Engineering,Mechanical Engineering	48	Intermediate or Diploma	English	60	60
UG	BTech,Electrical Engineering,Electrical Engineering	48	Intermediate or Diploma	English	60	60
UG	BTech,Civil Engineering,Civil Engineering	48	Intermediate or Diploma	English	60	60
PG	MBA,Business Administration,Master	24	UG	English	120	82

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**Position Details of Faculty & Staff in the College**

<b>Teaching Faculty</b>												
	<b>Professor</b>				<b>Associate Professor</b>				<b>Assistant Professor</b>			
	Male	Female	Others	Total	Male	Female	Others	Total	Male	Female	Others	Total
Sanctioned by the UGC /University State Government	0				0				0			
Recruited	0	0	0	0	0	0	0	0	0	0	0	0
Yet to Recruit	0				0				0			
Sanctioned by the Management/Society or Other Authorized Bodies	2				5				79			
Recruited	2	0	0	2	4	1	0	5	45	34	0	79
Yet to Recruit	0				0				0			

<b>Non-Teaching Staff</b>				
	<b>Male</b>	<b>Female</b>	<b>Others</b>	<b>Total</b>
Sanctioned by the UGC /University State Government				0
Recruited	0	0	0	0
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				18
Recruited	16	2	0	18
Yet to Recruit				0

<b>Technical Staff</b>				
	<b>Male</b>	<b>Female</b>	<b>Others</b>	<b>Total</b>
Sanctioned by the UGC /University State Government				0
Recruited	0	0	0	0
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				10
Recruited	9	1	0	10
Yet to Recruit				0

### Qualification Details of the Teaching Staff

<b>Permanent Teachers</b>										
<b>Highest Qualification</b>	<b>Professor</b>			<b>Associate Professor</b>			<b>Assistant Professor</b>			<b>Total</b>
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt/LLD/DM/MCH	0	0	0	0	0	0	0	0	0	0
Ph.D.	2	0	0	4	1	0	0	0	0	7
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	45	34	0	79
UG	0	0	0	0	0	0	0	0	0	0

<b>Temporary Teachers</b>										
<b>Highest Qualification</b>	<b>Professor</b>			<b>Associate Professor</b>			<b>Assistant Professor</b>			<b>Total</b>
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt/LLD/DM/MCH	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	0	0	0	0
UG	0	0	0	0	0	0	0	0	0	0

<b>Part Time Teachers</b>										
<b>Highest Qualification</b>	<b>Professor</b>			<b>Associate Professor</b>			<b>Assistant Professor</b>			<b>Total</b>
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt/LLD/DM/MCH	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	0	0	0	0
UG	0	0	0	0	0	0	0	0	0	0

<b>Details of Visting/Guest Faculties</b>					
<b>Number of Visiting/Guest Faculty engaged with the college?</b>	<b>Male</b>		<b>Female</b>		<b>Total</b>
	0	0	0	0	0

**Provide the Following Details of Students Enrolled in the College During the Current Academic Year**

**Self Study Report of GOVINDRAO WANJARI COLLEGE OF ENGINEERING AND TECHNOLOGY**

<b>Programme</b>		<b>From the State Where College is Located</b>	<b>From Other States of India</b>	<b>NRI Students</b>	<b>Foreign Students</b>	<b>Total</b>
UG	Male	922	4	0	0	926
	Female	406	1	0	0	407
	Others	0	0	0	0	0
PG	Male	48	0	0	0	48
	Female	69	0	0	0	69
	Others	0	0	0	0	0
Diploma	Male	0	0	0	0	0
	Female	0	0	0	0	0
	Others	0	0	0	0	0

<b>Provide the Following Details of Students admitted to the College During the last four Academic Years</b>					
<b>Category</b>		<b>Year 1</b>	<b>Year 2</b>	<b>Year 3</b>	<b>Year 4</b>
SC	Male	81	81	60	35
	Female	42	36	19	18
	Others	0	0	0	0
ST	Male	11	20	20	67
	Female	0	11	14	30
	Others	0	0	0	0
OBC	Male	149	130	155	85
	Female	71	68	73	35
	Others	0	0	0	0
General	Male	21	33	46	42
	Female	17	16	15	16
	Others	0	0	0	0
Others	Male	42	30	17	12
	Female	28	18	18	12
	Others	0	0	0	0
<b>Total</b>		<b>462</b>	<b>443</b>	<b>437</b>	<b>352</b>

### **Institutional preparedness for NEP**

<p>1. Multidisciplinary/interdisciplinary:</p>	<p>As per the directions mentioned in NEP 2020, GWCET has taken initiatives to follow the guidelines of affiliating university regarding the multidisciplinary and interdisciplinary courses. Courses such as Communication Skills, Professional Ethics, Universal Human Values and Environmental Science are conducted for the students. The college is following the practice of making interdisciplinary project based on societal problems and latest developing trends in the various fields. Multiple Open Elective subjects are introduced in the courses by the university which are implemented by the Institute.</p>
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<p>2. Academic bank of credits (ABC):</p>	<p>GWCET is affiliated to DBATU, Lonere and RTMNU, Nagpur is following the Choice Based Credit System (CBCS). The institution has been registered under the Academic Bank of Credits and proper guidelines are given to the students as mentioned in NEP 2020. The HEI has got its maximum students enrolled under Academic Bank of Credits. The universities are organizing curriculum design workshops and regular meetings through its Board of Studies and faculties of GWCET are actively participating in the design of syllabus for various courses. The college has developed/designed its own mechanism for the assessment of the courses on the basis of assessment tools.</p>
<p>3. Skill development:</p>	<p>GWCET has designed the skill development programs in various domains such as Centre for Innovation and Incubation. The college has taken initiative to start its Centre of Excellence which will make students deployable by providing high end and industry specific training, designed and delivered by the industry partners. GWCET provides the guidance to the students who want to invent new product, service and processes and who want to set up their own start-up.</p>
<p>4. Appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using online course):</p>	<p>GWCET has established the various students forum department wise for organizing various activities in Marathi, Hindi and other languages. The forums are regularly arranging various programs to inculcate the Indian Culture among the students and to develop the Human values and Ethics in the stake Holders of the college. The college is organizing the cultural events to provide the platform to the students for showing their performances in singing and dancing competitions.</p>
<p>5. Focus on Outcome based education (OBE):</p>	<p>GWCET is following the practices defined by Outcome Based Education. It is following the various curricular and extra-curricular activities in order to attain the Course Outcomes, Program Specific Outcomes, Program Educational Objectives and Program Outcomes through the Teaching Learning process and additional programs conducted by the institute. As the part of curriculum, each course has defined Course Outcomes which are mapped to Program Outcomes and Program Specific Outcomes. Some direct and indirect assessment tools are defined to achieve the attainment goal of Program Outcomes.</p>



6. Distance education/online education:	As per the curriculum laid by the affiliating University, the institute does not offer any programs through ODL mode.
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### Institutional Initiatives for Electoral Literacy

1. Whether Electoral Literacy Club (ELC) has been set up in the College?	Yes the Institute has established the Electoral Literacy Club (ELC) with following objectives: • To educate the targeted population about voter registration, electoral process and related matters through hands on experience • To facilitate voter registration for its eligible members who are not yet registered • To help the audience understand the values of their vote and exercise their right to franchise in a confident, comfortable and ethical manner
2. Whether students' co-ordinator and co-ordinating faculty members are appointed by the College and whether the ELCs are functional? Whether the ELCs are representative in character?	Yes the Institute has established the Electoral Literacy Club (ELC) where students' co-coordinator and co-coordinating as well as faculty members are appointed. The details are as under: Dr Salim Chavan, Principal, Prof Manoj Vairalkar, Nodal Officer, Mr Sahilkumar Nasre, Campus Ambassador(7th Sem CSE Deptt Student), Mr Aditya Zade, Chairman (5th Sem ETC Deptt, Student), Mr. Mithilesh Walde, Vice Chairman (5th Sem ETC Deptt, Student), Mr. Pradip Pandey, Student Representative (5th Sem ETC Deptt Student), Mr Ajay Mishra, Student Representative (5th Sem ETC Deptt Student), Ms. Madhuri Sadhula, Student Representative (7th Sem CSE Deptt Student), Mr. Lokesh Tarare, Student Representative (7th Sem CSE Deptt Student), Mr. Nishant Yawalkar, Student Representative (7th Sem CSE Deptt Student)
3. What innovative programmes and initiatives undertaken by the ELCs? These may include voluntary contribution by the students in electoral processes-participation in voter registration of students and communities where they come from, assisting district election administration in conduct of poll, voter awareness campaigns, promotion of ethical voting, enhancing participation of the under privileged sections of society especially transgender, commercial sex workers, disabled persons, senior citizens, etc.	ELC conducted session to help students and public to know about their rights and encourage them to exercise those rights by participating in the election. The ELC at has undertaken following activities: 1. MOU Between District election office,NGP, Worship Earth foundation, Pune and Govindrao Wanjari College of Engg. & Technology. 2. New Voter Registration Camp at GW CET in collaboration with Salai-Godhani Gram-Panchayat 3. Right to Vote Pledge taken on constitution (Samvidhan Divas) Day. 4. Right to Vote Pledge taken on National Voter Day

	<p>5. Participation in Voting Awareness Rally at RBI Square          6. Voting awareness by organizing Rangoli competition          7. Session on Importance of Voting to students and public at chikna village          8. Voting awareness programme and rally at chikna village</p>
<p>4. Any socially relevant projects/initiatives taken by College in electoral related issues especially research projects, surveys, awareness drives, creating content, publications highlighting their contribution to advancing democratic values and participation in electoral processes, etc.</p>	<p>The Electoral literacy club of institute has taken various initiatives that are socially relevant. Following initiatives taken by College in electoral related issues.</p> <ul style="list-style-type: none"> <li>• Conduction of various activities for the students and public to know the importance of individual's voting</li> <li>• Encourage citizens for voting and youth to register for voting ID card</li> </ul>
<p>5. Extent of students above 18 years who are yet to be enrolled as voters in the electoral roll and efforts by ELCs as well as efforts by the College to institutionalize mechanisms to register eligible students as voters.</p>	<p>The students above 18 years who are to be enrolled as voters were motivated for voter registration and sensitized about Indian democratic process and procedure. The Electoral literacy club (ELC) had conducted awareness drives to give the experience-based learning of the democratic setup. They were sensitized for their electoral rights and got them formalized with the electoral process of registration and EVM voting.</p>

## Extended Profile

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### 1 Students

#### 1.1

Number of students year wise during the last five years

2023-24	2022-23	2021-22	2020-21	2019-20
1450	1530	1431	1153	789
File Description		Document		
Upload Supporting Document		<a href="#">View Document</a>		
Institutional data in prescribed format		<a href="#">View Document</a>		

### 2 Teachers

#### 2.1

Number of teaching staff / full time teachers during the last five years (Without repeat count):

Response: 160

File Description	Document
Upload Supporting Document	<a href="#">View Document</a>
Institutional data in prescribed format	<a href="#">View Document</a>

#### 2.2

Number of teaching staff / full time teachers year wise during the last five years

2023-24	2022-23	2021-22	2020-21	2019-20
86	92	85	74	76

### 3 Institution

#### 3.1

Expenditure excluding salary component year wise during the last five years (INR in lakhs)

2023-24	2022-23	2021-22	2020-21	2019-20
295.23	423.77	1478.94	115.99	283.14

File Description	Document
Upload Supporting Document	<a href="#">View Document</a>

## 4. Quality Indicator Framework(QIF)

### Criterion 1 - Curricular Aspects

#### 1.1 Curricular Planning and Implementation

##### 1.1.1

**The Institution ensures effective curriculum planning and delivery through a well-planned and documented process including Academic calendar and conduct of continuous internal Assessment**

##### **Response:**

The College was established in 2008 and affiliated to Dr. Babasaheb Ambedkar Technological University, Lonere since 2021-22 (B. Tech. Programme) and Rashtrasant Tukadoji Maharaj Nagpur University Nagpur since 2008 (MBA Programme) and follows the Choice Based Credit System (CBCS).

The College strictly adheres to the curriculum delivery as per the DBATU and RTMNU guidelines. In view of implementing the curriculum, GWCET has effective mechanism as described under.

#### **I. Curriculum Analysis and Delivery Plan**

##### **1. Curriculum Analysis**

It is analysed that the DBATU and RTMNU curriculum consist of various subjects as per the AICTE guidelines. The Curriculum meets the industrial needs and also inculcates the ethical and moral values among the students.

##### **2. Curriculum Delivery Plan:**

- In view of effective curriculum delivery, the institution established IQAC which takes care of the academic planning and monitoring.
- All departments strictly follow the Academic Calendar and the subject teaching plan and conduct lectures as per the Time Table of the respective department.

#### **II. Process of implementation of curriculum**

- Academic co-ordinator continuously monitors the attendance and syllabus coverage in every month for each department.
- Student's feedback on teacher is taken after fifteen days of the commencement of the semester and at the end of the semester.
- Through Mentor-Mentee committee meetings the academic difficulties with the students are resolved at department level.
- Mentoring of students is done after every Internal Assessment, which helps to identify the slow learner and advance learner students.

GWCET strictly adheres to the academic calendar pertaining to CIE. The CIE includes Internal

Assessments for Theory, Lab, Major Project, Seminar & Internship.

### 1. Internal Assessment

As per the university scheme the internal assessment guidelines are strictly followed & the rubrics for internal assessment are Sessional exams, Mid Sem Exams., Pre University Test, Assignments and Attendance of students.

### 2. Laboratory Internal Assessment

The internal marks for practical are given as per affiliating university guidelines on the basis of regular performance, journal submission and viva voce.

### 3. Major Project Work

Three Progress Seminars are conducted to review the status of the project. The fourth Seminar is treated as internal Practical and sum of the three progress seminar score is treated as final internal marks for project.

### 4. Internship

The grades awarded for the internship will be based on the evaluation of Internship report & Certificate. GW CET has signed MoU with leading industries to provide internship to the students.

File Description	Document
Provide Link for Additional information	<a href="#">View Document</a>

## 1.2 Academic Flexibility

### 1.2.1

**Number of Certificate/Value added courses offered and online courses of MOOCs, SWAYAM, NPTEL etc. (where the students of the institution have enrolled and successfully completed during the last five years)**

**Response: 52**

File Description	Document
Institutional programme brochure/notice for Certificate/Value added programs with course modules and outcomes	<a href="#">View Document</a>
Institutional data in the prescribed format	<a href="#">View Document</a>
Provide Links for any other relevant document to support the claim (if any)	<a href="#">View Document</a>

### 1.2.2

*Percentage of students enrolled in Certificate/ Value added courses and also completed online courses of MOOCs, SWAYAM, NPTEL etc. as against the total number of students during the last five years*

**Response:** 51.11

1.2.2.1 Number of students enrolled in Certificate/ Value added courses and also completed online courses of MOOCs, SWAYAM, NPTEL etc. as against the total number of students during the last five years

2023-24	2022-23	2021-22	2020-21	2019-20
1323	1107	332	40	445

File Description	Document
Upload supporting document	<a href="#">View Document</a>
Institutional data in the prescribed format	<a href="#">View Document</a>

## 1.3 Curriculum Enrichment

### 1.3.1

*Institution integrates crosscutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability in transacting the Curriculum*

**Response:**

Professional Ethics are well integrated into the Curriculum prescribed by RTMNU and DBATU and the list of the courses related to professional ethics, Human Values, environment and sustainability in all branches of B. Tech and MBA course are listed below:

Environment Engineering, Advanced Environment Engineering, Basic Human Rights, Environment

Impact Assessment, Planning for Sustainable Development, Legal Aspects in Disaster Management, Indian Constitution, Construction Management and Law, Employability and Skill Development, Solar Energy, Human Resource Management, Wind Energy, Waste Management, Energy Conservation and Management, Advanced Renewable Energy Sources, Corporate Social Responsibility and Sustainability, Organizational Behaviour

### **1. Professional Ethics and Human values**

- The above course enables students to know fundamental rights, directive principles, and the duties of citizens, to understand engineering ethics and their responsibilities, identify their individual roles and ethical responsibilities towards society.
- The professional ethics and human values are dealing with the ethical aspects for the prosperity of organization and personal development of students.
- It helps to lead the life towards holistic and value-based living.
- Even though it is in academic curriculum the college takes efforts for integration of ethical and human values through extra-curricular activities such personality development, yoga, meditation etc.
- The institute organizes various programmes under NSS to inculcate human values among students.
- Different activities like guest lectures, seminars and workshops relating to the professional ethics and human values have been organized for students.

### **2. Gender**

- The institute understands the importance of Gender equity and thus maintain good ratio of women to men work force in both teaching and non-teaching. Also, as per the admission analysis girl to boy student ratio is 1:2.
- GWCET has provided separate hostel for boys and girls with good infrastructure.
- Institute's woman cell works consistently for women safety in college campus and other problems related to girl students.
- Number of programmes are specially conducted for promoting gender equity.
- Institute has organized various workshops and invited talks on Woman Empowerment, Laws for Woman, Role of Woman in Nature Conservation, The awareness on Sexual Harassment of Woman at workplace acts and procedure etc.

### **3. Environment and Sustainability**

- Environmental studies is a part of DBATU and RTMNU curriculum which provides information about ecology and environmental issues that apply to air, land, and water.
- NSS takes initiative for planting of good number of saplings to make environment green and pollution free.
- NSS organizes various environment related programmes like Earth Day, World Environment Day, plastic free drive, seminars and guest lectures on environmental awareness etc.
- GWCET has installed solar power panel with 75 KW power generations and partly it is used by the institute and the other part is contributed to the grid.
- Environment, Green and Energy Audits are carried out periodically.



File Description	Document
Provide Link for Additional information	<a href="#">View Document</a>

**1.3.2**

**Percentage of students undertaking project work/field work/ internships (Data for the latest completed academic year)**

**Response:** 62.83

**1.3.2.1 Number of students undertaking project work/field work / internships**

Response: 911

File Description	Document
Upload supporting document	<a href="#">View Document</a>
Institutional data in the prescribed format	<a href="#">View Document</a>

**1.4 Feedback System****1.4.1**

*Institution obtains feedback on the academic performance and ambience of the institution from various stakeholders, such as Students, Teachers, Employers, Alumni etc. and action taken report on the feedback is made available on institutional website*

**Response:** A. Feedback collected, analysed, action taken& communicated to the relevant bodies and feedback hosted on the institutional website

File Description	Document
Feedback analysis report submitted to appropriate bodies	<a href="#">View Document</a>
At least 4 filled-in feedback form from different stake holders like Students, Teachers, Employers, Alumni etc.	<a href="#">View Document</a>
Action taken report on the feedback analysis	<a href="#">View Document</a>
Link of institution's website where comprehensive feedback, its analytics and action taken report are hosted	<a href="#">View Document</a>
Provide Links for any other relevant document to support the claim (if any)	<a href="#">View Document</a>

## Criterion 2 - Teaching-learning and Evaluation

### 2.1 Student Enrollment and Profile

#### 2.1.1

##### Enrolment percentage

**Response:** 90.19

##### 2.1.1.1 Number of seats filled year wise during last five years (Only first year admissions to be considered)

2023-24	2022-23	2021-22	2020-21	2019-20
462	443	437	352	227

##### 2.1.1.2 Number of sanctioned seats year wise during last five years

2023-24	2022-23	2021-22	2020-21	2019-20
480	480	420	390	360

#### File Description

#### Document

Institutional data in the prescribed format

[View Document](#)

Final admission list as published by the HEI and endorsed by the competent authority

[View Document](#)

#### 2.1.2

*Percentage of seats filled against reserved categories (SC, ST, OBC etc.) as per applicable reservation policy for the first year admission during the last five years*

**Response:** 84.79

##### 2.1.2.1 Number of actual students admitted from the reserved categories year wise during last five years (Exclusive of supernumerary seats)

2023-24	2022-23	2021-22	2020-21	2019-20
217	219	187	153	127

**2.1.2.2 Number of seats earmarked for reserved category as per GOI/ State Govt rule year wise during the last five years**

2023-24	2022-23	2021-22	2020-21	2019-20
240	240	210	195	180

<b>File Description</b>	<b>Document</b>
Institutional data in the prescribed format	<a href="#">View Document</a>
Final admission list indicating the category as published by the HEI and endorsed by the competent authority.	<a href="#">View Document</a>

**2.2 Student Teacher Ratio****2.2.1**

**Student – Full time Teacher Ratio**  
(Data for the latest completed academic year)

**Response:** 16.86

**2.3 Teaching- Learning Process****2.3.1**

**Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences and teachers use ICT- enabled tools including online resources for effective teaching and learning process**

**Response:**

We believe in the adoption of students-centric methods to enhance the student's involvement as a part of experiential learning, participative learning and problem solving methodologies.

**1. Regular Teaching Techniques**

**Class Room Lectures & E-Learning Resources:** Classroom lectures interspersed with discussion are resources for sound understanding, fundamentals, design and implementation. The teaching is carried out on a conventional green-board and through PPTs using LCD projectors for explanation and visualization. During the pandemic session (2020-2021), the teaching (theory and practical session) carried out through online mode (Zoom Meet app, Google Meet and Teachmint app) NPTEL videos e-sources are also used for in-depth learning of the subjects.

**2. Experiential learning:**

Experiential learning supports students in applying their knowledge understanding to real-world problems in a formal guided manner.

**Laboratory sessions and Simulation:** Technical education is always justified with the help of practical knowledge. In this context, we provide exposure to our students in the laboratories from the first year. Later from the second year, students related to the core department are given exposure to their course related advanced practical orientation through various agencies in the respective field. We have MoUs with various industries to provide a platform for students to engage in experiential learning while visiting the organization. During the pandemic session, the institute provided practical based video and NPTEL virtual lab video for practical knowledge.

**3. Participative learning:**

The students of our college are made to participate in different brainstorming activities and case studies in consultation with field experts. The students are motivated to participate in various technical activities like Group discussions, Technical Quizzes, Debates etc. As the students come with different opinions and thought processes, the learning process gets justified in an argumentative way.

We encouraged the students to become members of professional bodies to showcase their talent, communication skill and technical competency and also encouraged them to organize technical events to develop their creativity by participating and organizing intercollegiate as well as national level technical symposiums, seminars, field visits and internships. During the session 2020-2021 (Covid-19), the institute conducted technical quizzes through Google Forms and Power Point presentation (through online mode).

**4. Problem Solving Methods**

In the Problem solving method, students learn about a subject by working in groups to solve an open-ended problem. In this method, students learn about how to define problems, gather information, generate possible solutions, evaluate ideas and then choose one solution. In our institute, all the departments conduct special sessions on problems, diagnosis and solutions. In our college campus, assignments and problems on various topics are given regularly to increase engagement with the subject and its understanding. To develop the problem solving methods and to enhance the practical knowledge and logical thinking of students, we are following case studies in an innovative way and encouraging students to participate in expert lectures on different topics, participate in different technical tests and participate in other competitions.

File Description	Document
Provide Link for Additional information	<a href="#">View Document</a>

**2.4 Teacher Profile and Quality****2.4.1**

**Percentage of full-time teachers against sanctioned posts during the last five years****Response:** 100**2.4.1.1 Number of sanctioned posts year wise during the last five years**

2023-24	2022-23	2021-22	2020-21	2019-20
86	92	85	74	76

**File Description****Document**

Sanction letters indicating number of posts sanctioned by the competent authority (including Management sanctioned posts)

[View Document](#)

**2.4.2**

*Percentage of full time teachers with NET/SET/SLET/ Ph. D./D.Sc. / D.Litt./L.L.D. during the last five years (consider only highest degree for count)*

**Response:** 11.38**2.4.2.1 Number of full time teachers with NET/SET/SLET/Ph. D./ D.Sc. / D.Litt./L.L.D year wise during the last five years**

2023-24	2022-23	2021-22	2020-21	2019-20
11	12	9	7	8

**File Description****Document**

List of faculties having Ph. D. / D.Sc. / D.Litt./ L.L.D along with particulars of degree awarding university, subject and the year of award per academic year.

[View Document](#)

Institution data in the prescribed format

[View Document](#)

**2.5 Evaluation Process and Reforms****2.5.1**

**Mechanism of internal/ external assessment is transparent and the grievance redressal system is**

**time- bound and efficient****Response:**

In Govindrao Wanjari College of Engineering and Technology, Nagpur, the internal assessment is so transparent that every student has an idea about the standard internal evaluation process of the theory and practical subjects. The institute follows the regulations of Rashtasant Tukadoji Maharaj Nagpur University, Nagpur, and Dr. Babasaheb Ambedkar Technological University, Lonere. The internal assessment is carried out in a systematic manner for theory, practical and project work. The college prepared an academic calendar in line with affiliated universities prior to the commencement of the academic year in consultation with the Heads of the departments. Then the college organizes orientation programs or induction programs for students to make them acquainted with the rules and regulations of the affiliating university, examinations, the evaluation process, extra-curricular activities etc. The Heads of the departments communicate about the labs and subjects of the semester and the college provides folders indicating the important events including probable dates of examinations, extra-curricular and other activities to be conducted in the forthcoming academic session. These folders are handed over to the students after the program, and along with this, the college website link is also provided to all students. Information about the orientation program or induction program is given to parents through a telephonic call or via SMS.

All examinations are conducted as per the academic calendar. Marks for all examinations and experiments performed will be displayed on the department notice boards. If the students fail to appear due to some sound reason in the regular sessional examination or mid-semester examination, then the students are permitted to appear in re-examinations for performance improvement. The slow learners are permitted to improvise their marks if they have scored low; in such cases the students are given an opportunity to improve their marks by appearing in an oral examination, participating and performing in assignments, group discussions, quiz sessions, seminars, technical events, sports, cultural and NSS activities. It is always ensured that all students are satisfied with their internal assessment. All the records and data bank of attendance in internal examinations, question papers, valued answer sheets/copies and summary of marks sheets are properly maintained by the teachers for academic monitoring. There is complete transparency in the internal assessment for each assessment method.

A Parents-Meet is organized in each semester and information about the date and time is given to parents either through a telephonic call or via SMS or by sending an invitation letter. Parents are shown a complete student record including attendance, marks scored in each subject, assignments submitted, extra-curricular and other activities attended by their wards. Parents can also view the answer sheets. Letters are sent to parents having less attendance or lower marks asking for improvement. During the pandemic session, the Parent-Teacher meet program is carried out through online mode.

File Description	Document
Provide Link for Additional information	<a href="#">View Document</a>

**2.6 Student Performance and Learning Outcomes****2.6.1**

**Programme Outcomes (POs) and Course Outcomes (COs) for all Programmes offered by the institution are stated and displayed on website**

**Response:**

The institute at the central level, while finalizing the learning outcomes considers the remarks of representatives of all stakeholders which include staffs and students.

**Students Awareness:** Programme Outcomes (POs), Programme Specific Outcomes (PSOs), Programme Educational Objectives (PEOs) and Course Outcomes (COs) are published and disseminated through various media such as display boards in the corridors, laboratories, HOD cabins, institute websites etc. Also, all the outcomes are disseminated to the stakeholders through the Parents Meet program and the Alumni Meet program.

**Staff Awareness:** The special brain storming sessions are arranged and staffs take active participation in these sessions for further modification and to understand the concept of learning outcomes. Learning outcomes are disseminated through display boards, circulars, pamphlets, etc.

**Outcomes:** For achieving this vision and mission, the college has adapted Outcome Based Education (OBE) as per the guidelines laid down by approving and regulatory authorities. Departmental vision and mission statements are well defined by involving different levels of outcomes like:

- Outcomes are the abilities that students acquire at the end of the program
- Outcomes provide the basis for an effective interaction among stakeholders
- It is result-oriented thinking and is the opposite of input-based education, where the emphasis is on the educational process and we are happy to accept whatever the result is.

**Levels of Outcomes:** In line with OBE Programme Specific Outcomes (PSOs), Programme educational objectives ( PEO), Programme Outcomes (POs) and Course Outcomes (COs) have evolved.

**Programme Outcomes:** POs are the statements that describe what the students learn from engineering programs and should be able to do after completion of the program.

**Programme Specific Outcomes:** PSOs are statements that describe what the students of a specific engineering program should be able to do after completion of the program.

**Programme Educational Objectives:** PEOs are the statements that describe what the graduates should be able to do after a few years of completion of the program.

**Course Outcomes:** COs are the statements that describe what the students should be able to do at the end of a course.

File Description	Document
Provide Link for Additional information	<a href="#">View Document</a>

**2.6.2**

*Attainment of POs and COs are evaluated.*

**Explain with evidence in a maximum of 500 words**

**Response:**

For the assessment of attainment level, the subject teacher maintains the evaluation data of the sessional examination, mid-semester examination and pre university test on regular basis which is used for assessing the learning outcomes. The subject teacher also maintains the evaluation data of assignments, subject seminars and project work, if any as well as extra-curricular and co-curricular activities. The affiliated university results are analyzed for student performance.

The course end survey feedback for each subject is taken from students once a semester and also collects data about learning outcomes from student's employers through survey feedback to verify the achievement of the learning outcome. The feedback from parents is collected during the Parent-Teacher Meet and considered for improvement.

Graduates seeking higher education and placement data of students are collected by the training and placement cell. The participant's feedback on guest lectures, trainings and workshops is collected by the faculty in-charge.

**Assessment:** The programme outcomes and programme specific outcomes are assessed with the help of the Course Outcomes of relevant courses through direct and indirect methods. The institution assesses the students continuously through the application of assessment tools.

**Evaluation:** Evaluation is the process of interpreting the data and evidence accumulated through assessment practices. Evaluation determines the extent to which all outcomes are being achieved and results in decisions and actions to improve the program.

**Mapping:** Mapping is the process of representing, preferably in matrix form, the correlation among the parameters. It may be done for one to many, many to one or many to many parameters.

**CO-PO-PSO Mapping Methodology:** The process of attaining COs, POs, and PSOs starts with writing appropriate COs for each course in the four year B.E. /B. Tech. degree program. The course outcomes are written by respective faculty members using action verbs of learning levels suggested by Bloom's Taxonomy. It is used when designing educational, training, and learning processes. A mapping matrix of COs-POs-PSOs is prepared (with a scale of 1 to 3) for all courses in the program. Course outcomes and the CO-PO-PSO mapping matrix for a sample course are discussed below.

**Direct Assessment:** Direct assessments are provided through direct examinations of students' knowledge and skills against measurable course outcomes. The measurable course outcomes are mapped to specific problems by university examinations, internal examinations and home assignments.

**Average attainment in the direct method = University-Examination-(70%) + Internal Assessment (20%) + Assignment / Seminar /Viva / Project Work (10%)**



**Indirect Assessment:** Indirect assessment is implemented by embedding it in the Student Exit Survey, the Employer Survey and the Alumni Survey. Few of the POs are assessed based on relevant, developed rubrics. Finally, Programme Outcomes are assessed with the above mentioned data and the Programme Assessment Committee concludes the PO attainment level.

**Average attainment in indirect method = Average (Alumni survey + Employer survey + Exit survey)**

The following scoring function is used to calculate the average attainment of each programme outcome.

**PO /PSO Attainment (%) = (weightage: 80%) x (Average attainment in the direct method) + (Weightage: 20%) x (Average attainment in the indirect method)**

File Description	Document
Provide Link for Additional information	<a href="#">View Document</a>

### 2.6.3

**Pass percentage of Students during last five years (excluding backlog students)**

**Response:** 71.54

**2.6.3.1 Number of final year students who passed the university examination year wise during the last five years**

2023-24	2022-23	2021-22	2020-21	2019-20
170	184	229	185	162

**2.6.3.2 Number of final year students who appeared for the university examination year-wise during the last five years**

2023-24	2022-23	2021-22	2020-21	2019-20
247	358	278	255	162

<b>File Description</b>	<b>Document</b>
Institutional data in the prescribed format	<a href="#">View Document</a>
Certified report from Controller Examination of the affiliating university indicating pass percentage of students of the final year (final semester) eligible for the degree programwise / year-wise.	<a href="#">View Document</a>
Provide Links for any other relevant document to support the claim (if any)	<a href="#">View Document</a>

## 2.7 Student Satisfaction Survey

### 2.7.1

#### Online student satisfaction survey regarding teaching learning process

**Response:** 3.97

<b>File Description</b>	<b>Document</b>
Upload database of all students on roll as per data template	<a href="#">View Document</a>

## Criterion 3 - Research, Innovations and Extension

### 3.1 Resource Mobilization for Research

#### 3.1.1

*Grants received from Government and non-governmental agencies for research projects / endowments in the institution during the last five years (INR in Lakhs)*

**Response:** 12

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

2023-24	2022-23	2021-22	2020-21	2019-20
12	0	0	0	0

File Description	Document
Upload supporting document	<a href="#">View Document</a>
Institutional data in the prescribed format	<a href="#">View Document</a>

### 3.2 Innovation Ecosystem

#### 3.2.1

**Institution has created an ecosystem for innovations, Indian Knowledge System (IKS), including awareness about IPR, establishment of IPR cell, Incubation centre and other initiatives for the creation and transfer of knowledge/technology and the outcomes of the same are evident**

**Response:**

#### **Introduction**

An ecosystem has been created in the institution to promote innovation, transfer of knowledge and entrepreneurship. IPR, IIC, IIIC Cell, Incubation and Innovation cell has been set up for nurturing innovative ideas. The aim of all these cells is to provide the innovative ideas such as, research, projects, filing patents, develop entrepreneur skills as a career etc. among students. The management of GW CET encourages the students to work on innovative projects.

#### **Intellectual Property Rights (IPR) Cell**

**This cell has been established from the session 2021-2022**

**Vision:**

Creation of superior quality Intellectual Capital for Indian Leadership in a globalized knowledge society.

**Mission:**

To create awareness and provide guidance to academic and non-academic staff, students, scholars, and outside agencies on the practices and the rules of institute regarding intellectual property rights and obligations within the frame work of the IPR policy of the institute.

**Objectives:**

To promote academic freedom and safeguard the interests of inventor in creation and commercialization of intellectual property with legal support wherever necessary. To create an environment for acquiring new knowledge through innovation, develop an attitude of prudent IP management practices and promote an IPR culture compatible with the educational mission of the institute.

**Outcome:**

Due to awareness created by IPR cell, some projects of final year are ready for filing patents.

**Institution's Innovation Council (IIC)**

**This cell has been established from the session 2022-2023. The major objective is to promote meaningful research and development activities with a vision and mission to pursue and promote research in frontier technologies.** Our institute provided facilities and financial support to conceptualize and execute projects of students and its presentation at the University and National level. A Committee consisting of experts from industry and academia . The Institution is an active member in Institution Innovation Council (IIC) activities and conducts programmes for creating an awareness among students regarding business plans, start-ups and research activities. The students are also members in professional technical bodies like ISTE (Institution & Individual).

**Outcome:**

**Some of the innovative projects got recognition in National level science exhibition (8th Indian Science Congress) organized by RTM Nagpur University, Nagpur**

**Industry-Institute Interaction Cell (IIIC)**

**This cell has been established from the session 2022-2023 with following vision, mission and objectives.**

**Vision:**

**To create a platform for technological education with exposure to real time industrial practices.**

**Mission:**

**To impart value added programs for enhancing employability skills to excel in a competitive**

**environment.**

**Objectives:**

1. To coordinate the quality of education to meet the trend of industry.
2. To assimilate industrial training and other inputs to develop students.
3. To offer research, development, consultancy and testing services to solve industrial problems.
4. To share the experience and expertise between institution and industry for mutual benefits.
5. To conduct other value-added programs based on industry requirements by experts from industry,
6. To develop best work culture among the students.

**Outcome:**

In collaboration with industry Bliinc Innovation Pvt. Ltd., some industry application based projects are done by the final year students.

File Description	Document
Provide Link for Additional information	<a href="#">View Document</a>

**3.2.2**

*Number of workshops/seminars/conferences including on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship conducted during the last five years*

**Response:** 63

**3.2.2.1 Total number of workshops/seminars/conferences including programs conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship year wise during last five years**

2023-24	2022-23	2021-22	2020-21	2019-20
32	26	1	2	2

File Description	Document
Upload supporting document	<a href="#">View Document</a>
Institutional data in the prescribed format	<a href="#">View Document</a>

**3.3 Research Publications and Awards**

**3.3.1**

**Number of research papers published per teacher in the Journals notified on UGC care list during the last five years****Response:** 0.63**3.3.1.1 Number of research papers in the Journals notified on UGC CARE list year wise during the last five years**

2023-24	2022-23	2021-22	2020-21	2019-20
55	9	19	12	5

**File Description****Document**

Link to the uploaded papers, the first page/full paper(with author and affiliation details)on the institutional website

[View Document](#)

Institutional data in the prescribed format

[View Document](#)**3.3.2****Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during last five years****Response:** 0.14**3.3.2.1 Total number of books and chapters in edited volumes/books published and papers in national/ international conference proceedings year wise during last five years**

2023-24	2022-23	2021-22	2020-21	2019-20
6	1	4	11	0

**File Description****Document**

Institutional data in the prescribed format

[View Document](#)

Copy of the Cover page, content page and first page of the publication indicating ISBN number and year of publication for books/chapters

[View Document](#)**3.4 Extension Activities****3.4.1**

**Outcomes of Extension activities in the neighborhood community in terms of impact and sensitizing the students to social issues for their holistic development during the last five years.**

**Response:**

The National Service Scheme unit of our institution Govindrao Wanjari College of Engineering & Technology, Salai-Godhani, Nagpur carried out Extension activities to encourage the students and fulfil the Vision and Mission of our institution. The students have participated individually in Holistic development programmes. The students are encouraged for participation in various NSS activities, clubs, societies etc.

Our institution has an active NSS unit which carry out the projects such as creating awareness about villages, clean and green, conducting weekly drive from the NSS student volunteers. Organizing awareness programmes for the community through street cause to educate the people on literacy such as “Beti Padhao-Beti Bachao”, Blood donation, Health check up, Eye check up camps etc.

Our NSS unit organizes social service activities for the adapted villages such as Special Camps, Swachhta Abhiyan, visit to Orphanages and distributing them blankets, cloths, food materials etc., Tree plantation, Hattirog eradication rally. In all these programs the NSS student volunteers and faculties actively participated for the social cause. From these activities the students feel their sense of responsibility about the community.

**COVID-19 Care**

Our institution has extended support to the people of Chikna Village and Salai-Godhani villages during COVID-19 by free distribution of masks, sanitizers, and organizing awareness program like vaccination camp at our institution for faculties and villagers for vaccination of 1st and 2nd dose of Covaccin and Covishield.

**Activities for Holistic Development**

Our NSS unit organizes 7 days special camp in adapted villages like Chikna, Salai-Godhani. Through this camp the various activities arranged for the villagers. In this camp our NSS unit organizes Blood donation camp, Health check up camp, Eye check up camp, Vaccination camp in Covid-19 etc. In this camp NSS unit arranged rally for Hattirog eradication, Organ donation, Beti Padhao-Beti Bachao, Swachh Bharat Mission, Cleanliness campaign, AIDS awareness, Nirmalya Collection, Organ Donation Rally, Tobacco Awareness rally etc. In this camp the various expert speakers recalled to develop the social responsibility among students. Due to these camps the students feel their sense of responsibility towards the community, integrity and human values.

Our institute students and NSS student volunteers actively participated in other various activities organized in College and out of College (in City), University etc. such as, Tree plantation, Traffic control activity, Meditation camp, Yoga, Tobacco Awareness rally, World Blind day rally, Voters awareness rally, Not to use Plastics, River clean, Nirmalya collection, Road Safety and Safe Driving, visit to orphanages, old age homes to provide them food materials and needy materials etc. as part of holistic development of the students.

Our NSS unit organized Blood Donation Camp every year in our College on the occasion of Birth

Anniversary of Amar Seva Mandal's Founder President Late Shri. Govindraoji Wanjari in association with various Blood Banks of the city which includes Government and Non-Government agencies.

File Description	Document
Provide Link for Additional information	<a href="#">View Document</a>

### 3.4.2

#### **Awards and recognitions received for extension activities from government / government recognised bodies**

##### **Response:**

The National Service Scheme unit of our institution Govindrao Wanjari College of Engineering & Technology, Salai-Godhani, Nagpur carried out various Extension activities to encourage the students. Our NSS volunteers have actively participated in many events organized by the institute and other organization such as Special Camps, Swachhta Abhiyan, visit to Orphanages and distributing them blankets, cloths, food materials etc. Tree plantation, Hattirog eradication rally, “Beti Padhao-Beti Bachao” rally, Blood donation, Health check up, Eye check up camps, Traffic control activity, Meditation camp, Yoga, Tobacco Awareness rally, World Blind day rally, Voters awareness rally, Not to use Plastics, River clean, Nirmalya collection, Road Safety and Safe Driving, Vaccination camp in COVID-19, AIDS awarness etc.

##### **Blood Donation Camp Award**

The NSS unit of our institution Govindrao Wanjari College of Engineering & Technology, Salai-Godhani, Nagpur, had jointly organized Blood Donation Camp in association with Life Line Blood Bank, Arpan Voluntary Blood Bank, Ayush Blood Centre & Component Lab, in the college premises and villagers through special camp in adopted villages. In these blood donation camps some times 70-80 donors donated blood in college campus and in special camps more than 100 donors donated blood. Blood bank medical officer from associated Blood Banks have extended their deep satisfaction to the Secretary and Principal of our college and presented certificate of recognition.

##### **Health Check-up Camp Recognition**

Our NSS unit organized free health check-up camp in every academic year in the college campus and in special camp in association with Lotus Hospital & Research Centre, Sakkardara, Nagpur and Primary Health Centre, Salai-Godhani, Nagpur. This camp have been organized for all the staff members, students and people of nearby adopted villages. The NSS student volunteers actively look after the community mobilization. For this activity, Lotus Hospital & Research Centre, Nagpur expressed their gratitude through recognition letter for these camps.

##### **Recognition for COVID-19 Vaccination**

Our NSS unit has organized “**Vaccination Camp**” program at College Campus, Salai-Godhani, Nagpur



in collaboration with Primary Health Centre, Salai-Godhani, Nagpur on 01.11.2021. This camp has been organized under the guidance and circular of Maharashtra Government “**Mission Yuwa Swasth**” from 25th Oct to 2nd Nov 2021 during COVID-19 period. In this Vaccination Camp more than 150 students & faculties of GWCET, Nagpur with some Villagers reported for vaccination for 1st and 2nd dose of Covaccine and Covishield vaccine. For this activity, Primary Health Centre, Salai-Godhani, Nagpur expressed their gratitude through recognition letter for these camps. In this period our NSS unit organized programme for free distribution of masks, sanitizers for the villagers of Chikna and Salai-Godhani.

**Other Recognitions**

The NSS cell of our college GWCET, Nagpur organized a workshop on “**LED Bulb Sale Campaign**” on 12.03.2022 at our college campus GWCET, Nagpur. This workshop was open for the college students and nearby college villagers also. In this workshop huge response was found to sale LED bulbs. About 500 LED bulbs of different watts sold in this campaign.

Our NSS unit organized rally on “Save Water, Save Earth”, “Voting Awareness”, River clean drive, Tree Plantation, Swachh Bharat Mission, Traffic Awareness, “Say No To Plastic”, “Tobacco Awareness”, Rally on Organ Donation Awareness, AIDS Awareness etc. The gram panchayat authority appreciated the initiative and awarded recognition for these activities in the interest of villagers.

File Description	Document
Provide Link for Additional information	<a href="#">View Document</a>

**3.4.3**

*Number of extension and outreach programs conducted by the institution through organized forums including NSS/NCC with involvement of community during the last five years.*

**Response:** 57

**3.4.3.1 Number of extension and outreach Programs conducted in collaboration with industry, community, and Non- Government Organizations through NSS/ NCC etc., year wise during the last five years**

2023-24	2022-23	2021-22	2020-21	2019-20
19	13	8	4	13

File Description	Document
Institutional data in the prescribed format	<a href="#">View Document</a>
Detailed report for each extension and outreach program to be made available, with specific mention of number of students participated and the details of the collaborating agency	<a href="#">View Document</a>

### 3.5 Collaboration

#### 3.5.1

*Number of functional MoUs/linkages with institutions/ industries in India and abroad for internship, on-the-job training, project work, student / faculty exchange and collaborative research during the last five years.*

**Response:** 45

File Description	Document
List and Copies of documents indicating the functional MoUs/linkage/collaborations activity-wise and year-wise	<a href="#">View Document</a>
Institutional data in the prescribed format	<a href="#">View Document</a>

## Criterion 4 - Infrastructure and Learning Resources

### 4.1 Physical Facilities

#### 4.1.1

The Institution has adequate infrastructure and other facilities for,

- teaching – learning, viz., classrooms, laboratories, computing equipment etc
- ICT – enabled facilities such as smart class, LMS etc.

Facilities for Cultural and sports activities, yoga centre, games (indoor and outdoor), Gymnasium, auditorium etc (Describe the adequacy of facilities in maximum of 500 words.)

#### Response:

Our institute has always prioritized the provision of suitable infrastructure for teaching and learning. Our Institute's campus is 10.32 acres, and the building was designed to include instructional, administrative, amenities, and circulation areas in accordance with AICTE guidelines. GWCET provides cutting-edge infrastructure that fosters progressive learning and growth. This comprises classrooms, laboratories, HOD Chambers, Smart Class rooms, workshops, libraries, faculty cabins, conference and seminar halls, auditoriums, and language labs. The infrastructure is also made available for a variety of technical events, such as seminars, workshops, expert lectures, conferences, campus recruitment and training sessions. The Institute offers six engineering courses and one MBA program, with 24 classrooms and 40 laboratories.

**Class rooms:** The Institute has well-furnished, room and well ventilated classrooms which are also well illuminated. All the classrooms are sustained as per norms for proper brightness and acoustics. The classrooms are equipped with adequate furniture, blackboard/green board/whiteboard, projectors, fans, lights and power backup. There are 7 Smart classrooms one in each department and those are equipped with Smart board for interactive learning experience.

**Laboratories/Workshops:** There are 40 well equipped laboratories, Central Computing facility and workshops. The Institute has Laboratories with state-of-the-art equipment's and machinery for the students to carry out practical courses. All laboratories are operational and well maintained.

**Seminar Hall:** The Institute has well equipped seminar halls. Nearly 300 to 350 people can be accommodated in the seminar halls. These halls are regularly used for conducting seminars of state and national level at the Institute.

**Computing Equipment:** Institute has sufficient Computing facilities with total 413 computers for staffs and students. All computers are equipped with high speed internet of 300 Mbps speed.

GWCET running under the umbrella of Amar Sewa Mandal Trust, has adequate facilities to promote extracurricular activities like cultural events, sports, games, gymnasium and yoga.

**Cultural Activities:** The College has best facilities for organizing and promoting cultural activities to students. Various cultural events are held in auditorium. The college conducts UTSAV as a part of

college annual cultural event & technical event TECHNOSTROM, Project competition, ROBO Race, CodeAthon, where the students from other colleges participate and show case their talents in different events.

**Sports and Games:** There is a well-equipped sports department. The college has provision to make use of common sport facilities for indoor and outdoor games. There is one sports period every week for all year students. The college encourages the students to participate in various sports events held at Regional, University, State, National and International levels. Apart from the regular sport hour, the students can utilize the sports facilities.

**Gymnasium:** GWCET provides a distinct multi-facility gym where boys and girls can gain physical strength and keep healthy.

**Yoga:** GWCET conducts International Yoga Day event. The objective of conducting these programmes is to create health awareness and provide fitness tips and also such programs inspire growth, development and retention of students in a present-day scenerioof hectic lifestyle. It helps create safe environment that develops fitness, social connectivity and leadership opportunities.

File Description	Document
Provide Link for Additional information	<a href="#">View Document</a>

#### 4.1.2

*Percentage of expenditure for infrastructure development and augmentation excluding salary during the last five years*

**Response:** 60.37

**4.1.2.1 Expenditure for infrastructure development and augmentation, excluding salary year wise during last five years (INR in lakhs)**

2023-24	2022-23	2021-22	2020-21	2019-20
46.59	139.20	1321.32	10.70	50.06

File Description	Document
Institutional data in the prescribed format	<a href="#">View Document</a>
Audited income and expenditure statement of the institution to be signed by CA for and counter signed by the competent authority (relevant expenditure claimed for infrastructure augmentation should be clearly highlighted)	<a href="#">View Document</a>
Provide Links for any other relevant document to support the claim (if any)	<a href="#">View Document</a>

## 4.2 Library as a Learning Resource

### 4.2.1

*Library is automated with digital facilities using Integrated Library Management System (ILMS), adequate subscriptions to e-resources and journals are made. The library is optimally used by the faculty and students*

#### Response:

Govindrao Wanjari College of Engineering and Technology library holds the rich collection of 22715 volumes of books comprising of 5406 titles. The library has facilities which includes 48 Indian journals, 6 daily newspapers and 14 magazines. Library consists of books for all the departments to encourage the students for higher education and to prepare them for competitive examinations. The users of library can access e-journals and e-books of DELNET. The digital library provides online access to e-resources using DELNET. The digital library has 15 computers to access the e-resources.

#### Library Services:

GWCET Central Library offers various types of information services to its users such as 'Intranet Based Current Awareness Services (OPAC & MOPAC)', 'Newspaper Clippings', 'Digital Library' for Digital Collection Management., 'Seminar & Conference Alerts', 'Reference Services.

**Library Automation:** Library is fully automated using Libman Software (MasterSoft Erp), which provides a single window search and the user can search the required books subject/author-wise and it can be issued to the user quickly. Online Public Access Catalogue (OPAC & MOPAC) has resulted in easy access information of subject/author-wise book, account information etc. Libman Software is extensively used for generating all the reports that are required in day to day monitoring of the Library such as circulation status, fine status, contact details, reading & circulation history. Easy to use interface makes the user experience a pleasant one.

#### The following are the facilities in Library:

OPAC & MOPAC (Online Public Access Catalogue): Yes

Electronic Resource Management package for e-journals: Yes

Federated searching tools to search articles in multiple databases: Yes

Library automation: Yes

Total number of computers for public access: 15

Total numbers of printers for public access: 01

Internet band width/ speed: 300 Mbps

NDLI Active Members: Yes

File Description	Document
Provide Link for Additional information	<a href="#">View Document</a>

### 4.3 IT Infrastructure

#### 4.3.1

**Institution frequently updates its IT facilities and provides sufficient bandwidth for internet connection**

*Describe IT facilities including Wi-Fi with date and nature of updation, available internet bandwidth within a maximum of 500 words*

**Response:**

The IT facilities available in our college can be summarized as follows:

**Computing Resources:**

The college has established a high-speed campus-wide network connecting to all departments with 345 systems for students. Full access is provided to all staffs to online sources of services and information through leased lines 300 Mbps Broadband. A fully distributed computing environment based on clusters of workstations and PCs provides users with ready access to computing resources, service software, and applications. The environment is tailored to the specific teaching/learning needs of each department.

Govindrao Wanjari college of Engineering and Technology has excellent IT facilities for students and faculties. 413 Computer systems are available in the campus with LAN connection. The highly configured system is available. The server room is well equipped to provide network connectivity in the campus.

**Software:**

Institute has 144 licensed Windows operating systems and 1 Windows Server 2008. Our college has MATLAB Software, Language Lab (Client Server) & Tally 3.0 licensed software. We also use open-source operating systems such as Ubuntu, Fedora & CentOS, RHEL. The college has also open access to ANACONDA, Dot Net, Corel Draw, MySQL, ORACLE Open Source Software. There are 144 licensed Microsoft Office 2010 & Office 365 procured from Microsoft.

#### **Printers:**

The Institute has 27 Laser jet, 3 Xerox machines, 12 Projectors and 9 scanners for academic and administrative usage, and also A1 plotter is available for drawing as per the curriculum and evaluation requirements.

#### **CCTV Surveillance**

The college campus has a complete CCTV camera system. It helps in monitoring the activities of the students especially during the exam time and also a better security performance that make it much easier to regularly monitor the daily activities of the students, staffs, and members of the public inside the campus.

#### **Updating the IT Facilities**

Based on the gradual increase in the student's strength, the systems in all the laboratories are updated. The student to computer ratio is maintained as 4.20:1. Based on the requirements, necessary software and hardware devices, computer systems and its peripheral devices are purchased. To carry out project activities, highly configured systems are provided in the laboratories in the campus.

#### **Wi-Fi Campus**

Internet facility provided through Lease line of 300 Mbps. By estimating the volume of data transmission, the bandwidth will be further increased during an ad hoc situation. For essential services Fiber Net communication as a secondary backup with 100 Mbps RF is available. The computers in the different departments are interconnected with LAN through switches. The entire campus has various Wi-Fi access points to access educational resources.

#### **4.3.2**

##### **Student – Computer ratio (Data for the latest completed academic year)**

**Response:** 4.2

##### **4.3.2.1 Number of computers available for students usage during the latest completed academic year:**

**Response:** 345

File Description	Document
Purchased Bills/Copies highlighting the number of computers purchased	<a href="#">View Document</a>
Extracts stock register/ highlighting the computers issued to respective departments for student's usage.	<a href="#">View Document</a>

#### 4.4 Maintenance of Campus Infrastructure

<p><b>4.4.1</b></p> <p><i>Percentage expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component, during the last five years (INR in Lakhs)</i></p> <p><b>Response:</b> 20.32</p>														
<p><b>4.4.1.1 Expenditure incurred on maintenance of infrastructure (physical facilities and academic support facilities) excluding salary component year wise during the last five years (INR in lakhs)</b></p> <table border="1"> <thead> <tr> <th>2023-24</th> <th>2022-23</th> <th>2021-22</th> <th>2020-21</th> <th>2019-20</th> </tr> </thead> <tbody> <tr> <td>132.45</td> <td>188.78</td> <td>50.40</td> <td>46.91</td> <td>109.13</td> </tr> </tbody> </table>					2023-24	2022-23	2021-22	2020-21	2019-20	132.45	188.78	50.40	46.91	109.13
2023-24	2022-23	2021-22	2020-21	2019-20										
132.45	188.78	50.40	46.91	109.13										
File Description	Document													
Institutional data in the prescribed format	<a href="#">View Document</a>													
Audited income and expenditure statement of the institution to be signed by CA for and counter signed by the competent authority (relevant expenditure claimed for maintenance of infrastructure should be clearly highlighted)	<a href="#">View Document</a>													
Provide Links for any other relevant document to support the claim (if any)	<a href="#">View Document</a>													



## Criterion 5 - Student Support and Progression

### 5.1 Student Support

#### 5.1.1

*Percentage of students benefited by scholarships and freeships provided by the institution, government and non-government bodies, industries, individuals, philanthropists during the last five years*

**Response:** 94.62

**5.1.1.1 Number of students benefited by scholarships and freeships provided by the institution, Government and non-government bodies, industries, individuals, philanthropists during the last five years**

2023-24	2022-23	2021-22	2020-21	2019-20
1374	1468	1331	1091	747

#### File Description

#### Document

Year-wise list of beneficiary students in each scheme duly signed by the competent authority.

[View Document](#)

Institutional data in the prescribed format

[View Document](#)

#### 5.1.2

*Following capacity development and skills enhancement activities are organised for improving students' capability*

- 1. Soft skills*
- 2. Language and communication skills*
- 3. Life skills (Yoga, physical fitness, health and hygiene)*
- 4. ICT/computing skills*

**Response:** A. All of the above

#### File Description

#### Document

Report with photographs on Programmes /activities conducted to enhance soft skills, Language and communication skills, and Life skills (Yoga, physical fitness, health and hygiene, self-employment and entrepreneurial skills)

[View Document](#)

Institutional data in the prescribed format

[View Document](#)

**5.1.3**

**Percentage of students benefitted by guidance for competitive examinations and career counseling offered by the Institution during the last five years**

**Response:** 59.63

**5.1.3.1 Number of students benefitted by guidance for competitive examinations and career counselling offered by the institution year wise during last five years**

2023-24	2022-23	2021-22	2020-21	2019-20
885	923	806	694	480

**File Description****Document**

Upload supporting document

[View Document](#)

Institutional data in the prescribed format

[View Document](#)

**5.1.4**

*The institution adopts the following for redressal of student grievances including sexual harassment and ragging cases*

- 1.Implementation of guidelines of statutory/regulatory bodies**
- 2.Organisation wide awareness and undertakings on policies with zero tolerance**
- 3.Mechanisms for submission of online/offline students' grievances**
- 4.Timely redressal of the grievances through appropriate committees**

**Response:** A. All of the above

**File Description****Document**

Proof w.r.t Organisation wide awareness and undertakings on policies with zero tolerance

[View Document](#)

Details of statutory/regulatory Committees (to be notified in institutional website also)

[View Document](#)

**5.2 Student Progression****5.2.1**

**Percentage of placement of outgoing students and students progressing to higher education during**

**the last five years**

**Response: 75.91**

**5.2.1.1 Number of outgoing students placed and / or progressed to higher education year wise during the last five years**

2023-24	2022-23	2021-22	2020-21	2019-20
158	128	167	135	118

**5.2.1.2 Number of outgoing students year wise during the last five years**

2023-24	2022-23	2021-22	2020-21	2019-20
170	184	229	185	162

<b>File Description</b>	<b>Document</b>
Number and List of students placed along with placement details such as name of the company, compensation, etc and links to Placement order(the above list should be available on institutional website)	<a href="#">View Document</a>
Institutional data in the prescribed format	<a href="#">View Document</a>

**5.2.2**

*Percentage of students qualifying in state/national/ international level examinations during the last five years*

**Response: 4.46**

**5.2.2.1 Number of students qualifying in state/ national/ international level examinations year wise during last five years (eg: IIT/JAM/NET/SLET/GATE/GMAT/GPAT/CLAT/CAT/ GRE/TOEFL/ IELTS/Civil Services/State government examinations etc.)**

2023-24	2022-23	2021-22	2020-21	2019-20
5	1	3	0	1

File Description	Document
List of students qualified year wise under each category and links to Qualifying Certificates of the students taking the examination	<a href="#">View Document</a>
Institutional data in the prescribed format	<a href="#">View Document</a>

### 5.3 Student Participation and Activities

#### 5.3.1

**Number of awards/medals for outstanding performance in sports/ cultural activities at University / state/ national / international level (award for a team event should be counted as one) during the last five years**

**Response:** 31

**5.3.1.1 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 wise during the last five years**

2023-24	2022-23	2021-22	2020-21	2019-20
10	13	7	0	1

File Description	Document
list and links to e-copies of award letters and certificates	<a href="#">View Document</a>
Institutional data in the prescribed format	<a href="#">View Document</a>

#### 5.3.2

**Average number of sports and cultural programs in which students of the Institution participated during last five years (organised by the institution/other institutions)**

**Response:** 32.8

**5.3.2.1 Number of sports and cultural programs in which students of the Institution participated year wise during last five years**

2023-24	2022-23	2021-22	2020-21	2019-20
45	43	15	15	46

File Description	Document
Upload supporting document	<a href="#">View Document</a>
Institutional data in the prescribed format	<a href="#">View Document</a>

## 5.4 Alumni Engagement

### 5.4.1

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

**Response:**

Govindrao Wanjari College of Engineering & Technology Alumni Association (GWCETAA) is registered under the Societies Registration Act 1860(Act XXI of 1860) in the year 2018 with registration number Nagpur/0000121/2018 with the office of Registrar of Societies, Nagpur.

Association regularly meets and interacts with the management; it is the flag bearer of the developments in the institution. The alumni also help the institution by influencing industries and other agencies in getting placements drives for the institution. The alumni have expanded and strengthened it with new enrolments. The alumni participate in various activities and their suggestions are taken into account. Alumni meet is regularly conducted every year and their achievements are recognized. The successful alumni are selected as guests of honor for awards. The Institution has a social networking page and a separate link in the website where the Alumni can register and connect to share their ideas. Alumni association is beneficial for students in career advising, Industry Institute Interaction, Placement assistance, Project Assistance for final year students, arranging seminar for students.

**Objectives:**

1. To bring the students of GWCET together to act as college representative and coordinate, synchronize and promote their interest in all matters.
2. To utilize the experience, wisdom, zeal, ability and spare time of past students of the college for the benefit of the weaker section of the society.
3. To take up public interest matters relating to the past students in this area with State and Central Government and Semi Government or private organizations or public co operations.
4. To promote for education, educational scholarships and medical relief useful to poor and the needy students.
5. To promote for exposure in latest development trends through seminars of past students.

6. To make the students career oriented and attain international standard through guidance seminars
7. To arrange seminars and develop activities for healthy environment, and avoid pollution, develop the habit of tree plantation, cultivate horticulture gardens and agriculture plants in selected areas.
8. To bring about better living condition, mutual co-operation amongst the past students of GW CET by implementing recreational facilities.
9. To help and assist financially or otherwise old age homes, rescue homes, health care units, family welfare centers, seminars etc.
10. To arrange, conduct and hold seminars, conferences, discussions, symposia etc. by past students.

File Description	Document
Provide Link for Additional information	<a href="#">View Document</a>

## Criterion 6 - Governance, Leadership and Management

### 6.1 Institutional Vision and Leadership

#### 6.1.1

*The institutional governance and leadership are in accordance with the vision and mission of the Institution and it is visible in various institutional practices such as NEP implementation, sustained institutional growth, decentralization, participation in the institutional governance and in their short term and long term Institutional Perspective Plan.*

#### Response:

#### The Vision of the Institute:

To emerge as a center of excellence creating research, innovation and entrepreneurial attitude among the technocrats who in turn shall contribute to the development of society and mankind.

#### The Mission of the Institute:

- To develop a culture of excellence in teaching and learning with accountability from all support activities.
- To promote new ideas leading to emergence of creators, innovators, leaders, and entrepreneurs.
- To achieve excellence in application based research in technology to contribute to the development of the community.
- To imbibe the ethical values among the students to make them responsive citizens.

Mission statements of the Institute are defined to meet requirement of society, students, industry and to add values among the students. The Institute has been set up with a mission to impart such knowledge as may be necessary for the holistic development of students thereby making them capable of being better employable and at par with the highly competitive career market.

#### Perspective Plan

- To promote research culture among faculties and students for the welfare of the society.
- To develop strong collaboration between industry and institutions.
- To get accreditation of the institution and all programs by NAAC and NBA.
- To establish recognized research center from affiliating university and apply further to upgrade as a center of excellence.
- To obtain permanent affiliation from affiliating university and apply for UGC 12(B) by recognition.
- To create entrepreneurs by inculcating entrepreneurship skills in the students.
- To collaborate with institution of high repute for community development.
- To acquire the status of autonomous institution.

### Participation of Teachers in Decision Making Bodies

The institution strictly adheres and functions as per the rules and regulations laid down by the regulatory bodies. In view of executing the directions/instructions received from regulatory bodies and decisions taken in Governing Council at trust level, the institution has a structured administrative system and also framed various statutory and non-statutory committees.

After enabling the State of Art Infrastructure and facilities Institution focuses on development in educational, industrial and social change so as to fulfill the corresponding needs by providing qualified staff which leads students towards technical & social excellence. Governing body constitutes Chairman, Principal, Heads of department, Internal Quality Assurance Cell chairperson, Government representative, Industry representative. Heads of department review the department progress for continuous improvement.

Various committees like College Academic Advisory Committee, IQAC Committee, R&D cell, Internal Committee, Grievance and Redressal committee, Anti-Ragging Committee, Women's cell, Anti-sexual harassment committee, Alumni Cell, Sports, and National Social Service (NSS) constituted at institutional level function in tune with the requirement to meet the vision and mission of the institute.

#### NEP Implementation:

As per the guidelines of Dr. Babasaheb Ambedkar Technological University, new education policy NEP 2020 has been implemented in the curriculum of university affiliated institutes from the session 2024-25. Following all guidelines of NEP 2020, the academic activities and other activities are properly planned for effective implementation.

File Description	Document
Provide Link for Additional information	<a href="#">View Document</a>

## 6.2 Strategy Development and Deployment

### 6.2.1

*The institutional perspective plan is effectively deployed and functioning of the institutional bodies is effective and efficient as visible from policies, administrative setup, appointment, service rules, and procedures, etc*

#### Response:

#### Governing body:

The Govindrao Wanjari College of Engineering & Technology, Nagpur is managed by Amar Seva Mandal (ASM), Nagpur, which has its governing board. Governing Body is responsible for Policy making and verifying the reports through the secretary & correspondent. The decision making procedures are made at appropriate levels in the organizational hierarchy. Statutory bodies such as IQAC Cell, T&P



Cell, NSS Cell, Sports Cell etc., as per the university/government guidelines are also included in the organizational structure of the institution.

**College Development Cell (CDC):** CDC meets regularly to review the growth of the institute and make recommendations for the improvement and upgradation of existing academic, administration, and infrastructure, extra and co-curricular activities.

**Principal:**

Principal is involved in the implementation of the perspective plans of the College. They ensure efficient functioning of academic and administration through the departments and various committees constituted for effective execution of the respective task.

**Internal Quality Assurance Cell (IQAC):**

IQAC has been established in the college, which meets regularly to assess the quality deliverance of engineering education in the institute leading to achieve the course and program outcomes.

**Service rules and procedures:**

The college follows the service rules as per the provision of relevant annexure of university, statute and directives, state government and statutory bodies under ministry of HRD. The institution functions according to the norms laid down by AICTE and UGC. The faculty members (Teaching/Non Teaching) get benefit of EPF. Faculty members are given Casual/Earned/Medical/Maternity/Compensatory Leaves.

**Recruitment Policies:**

The institute follows AICTE and DBATU norms for staff recruitment. The HoDs review requirements as per Teaching Load and submit the consolidated staff requirement to Principal. The faculty recruitment is carried out according to the norms of the University and UGC. The university/management selection committee comprising of Principal, HOD and Subject experts decides the worthiness of the faculty member by their performance in the interview.

**Promotional Policies:**

A promotion is the shift of an employee from one position to another with more responsible duties or requiring more skills. Promotions are based on merit and qualifications required for the higher position. A pay rise is eminent in case of promotions but the Management reserves the right to do so.

**Grievance redressal mechanism:**

Committee members meet to discuss and resolve the grievances, if any received in writing from the concerned students/staffs. The suggestion/complaint boxes are kept at prominent places in the college premises to provide easy access for staffs and students to put forth their grievances, which are opened regularly and prompt redressal is done.

File Description	Document
Provide Link for Additional information	<a href="#">View Document</a>

**6.2.2**

*Institution implements e-governance in its operations*

- 1. Administration**
- 2. Finance and Accounts**
- 3. Student Admission and Support**
- 4. Examination**

**Response:** A. All of the above

File Description	Document
Screen shots of user interfaces of each module reflecting the name of the HEI	<a href="#">View Document</a>
Institutional expenditure statements for the budget heads of e-governance implementation ERP Document	<a href="#">View Document</a>

**6.3 Faculty Empowerment Strategies****6.3.1**

**The institution has performance appraisal system, effective welfare measures for teaching and non-teaching staff and avenues for career development/progression**

**Response:**

Well-being of the staff is important for effective functioning of the Institute. The institution has effective welfare measures for teaching and non-teaching staff. The institution conducts quality improvement programs for faculty and training programs for non-teaching staff periodically.

In order to improve the qualification, update their knowledge/skill sets faculty members are given academic leave to attend FDPs, Workshops/Seminars/Conferences/Industrial training programs are organized by premier institutions. Registration fee is partly paid by the institute to the faculty to attend these programs. Faculty is encouraged to register for Ph.D. programs and special leave is given to the faculty to attend the course work by the affiliating university or premier institution.

**List of welfare measures for the teaching staff**

- 1. Duty Leave for attending Seminars, Conferences and Workshops.**

For encouraging the faculty towards research and development, the college management permits the

employees to attend national and international conferences, seminars, and workshops by sanctioning them duty leave. 50% of the registration fee or Rs. 2000 whichever is minimum will be paid by college.

## **2. Employee's Provident fund.**

As per the EPF Act the institution provides provident funds, pension fund and deposit-linked insurance fund for employees. The institution has the mandatory provision of CPF.

## **3. Maternity Leave.**

College renders a maternity leave to eligible lady staff as per the rules of the government.

## **4. Group Insurance for staff & students**

## **5. Eco-Friendly campus.**

The institution has eco-friendly environment with least air pollution. The green trees provide fresh air to breathe in.

## **6. Pure Drinking R.O. Water.**

R.O. plants are installed at all the coolers available in the college for providing pure and safe drinking water to the staff and students.

## **7. Winter & Summer Vacation.**

The winter & summer vacation are provided to the staff as per university norms.

## **8. Xerox Facility for staff.**

## **9. Wi-Fi Campus for Faculty**

### **Self-Appraisal System:**

1) Performance appraisal of teaching staff in the appraisal format, performance appraisal of Professor / Associate Professor & Assistant Professor is evaluated on following points Session wise:

1. Engaging Theory Lectures
2. Engaging Practical
3. Attendance in Theory Lectures
4. Attendance in Practical
5. Result Analysis of Theory Subjects
6. Marks obtained by students in Theory Subjects

7. Comparison with last 3 years-Average Results

8. Students Feedback of respective session

9. Professional Endeavour

10. Functional Performance

The correct information is filled by the faculty. HoDs submit the self appraisal of each faculty member with remarks to the principal. The HoD also submits annual report of each faculty of respective department to the principal. The Principal takes review in presence of reviewing officer and assesses the performance of faculty.

File Description	Document
Provide Link for Additional information	<a href="#">View Document</a>

### 6.3.2

**Percentage of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies during the last five years**

**Response:** 52.3

**6.3.2.1 Number of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies year wise during the last five years**

2023-24	2022-23	2021-22	2020-21	2019-20
55	46	42	38	35

File Description	Document
Institutional data in the prescribed format	<a href="#">View Document</a>
Copy of letter/s indicating financial assistance to teachers and list of teachers receiving financial support year-wise under each head.	<a href="#">View Document</a>

### 6.3.3

***Percentage of teaching and non-teaching staff participating in Faculty development Programmes (FDP), Management Development Programmes (MDPs) professional development /administrative training programs during the last five years***

**Response:** 68.61**6.3.3.1 Total number of teaching and non-teaching staff participating in Faculty development Programmes (FDP), Management Development Programmes (MDPs) professional development /administrative training programs during the last five years**

2023-24	2022-23	2021-22	2020-21	2019-20
90	73	64	76	62

**6.3.3.2 Number of non-teaching staff year wise during the last five years**

2023-24	2022-23	2021-22	2020-21	2019-20
28	22	15	26	28

<b>File Description</b>	<b>Document</b>
Institutional data in the prescribed format	<a href="#">View Document</a>
Copy of the certificates of the program attended by teachers.	<a href="#">View Document</a>

**6.4 Financial Management and Resource Mobilization****6.4.1**

**Institution has strategies for mobilization and optimal utilization of resources and funds from various sources (government/ nongovernment organizations) and it conducts financial audits regularly (internal and external)**

**Response:****Primary Sources of funds:**

- Tuition Fee collections from the students
- Fee collections for the other services rendered to the students.
- Hostel and Mess Fees

**Other Sources:**

- NSS funds from DBATU and RTMNU

**Mobilizations of funds:**

- The short term deposits
- Long term deposits

### **Funds utilization strategies:**

The funds will be used to cover regular operational and administrative expenses and also used in the establishment of advanced laboratories of the institute.

- According to financial requirement of each department, budget amount will be allocated annually. Such budget will be discussed and monitored the establishment of the infrastructure, purchase of equipment's for various labs.
- Sufficient funding is allocated for enhancement of teaching-learning practices which includes conducting Faculty Development Programs, Orientation programs, Workshops, Interdisciplinary activities, Training programs to improve quality education.
- Purchase of educational technology aids.
- Enough funds are allocated to maintain a Green campus and amenities.
- Sufficient funds are allocated to social service activities as part of social responsibility.
- Any excess of income over expenditure generated is utilized for infrastructure augmentation

Govindrao Wanjari College of Engineering & Technology runs under the umbrella of Amar Sewa Mandal. We have centralized audit section which carries out every year the internal and external audits for all the institutions by deputing the audit committee comprising of qualified chartered accountants. After thorough scrutiny/ verification, committees submit their audited statement for follow up action. There have been no major audits objections identified as the internal financial approval mechanism ensures adherence financial discipline. The minor objection, if found any, is resolved as per the inputs of the Account Officer and his team.

### **Audit procedures:**

**1. Source of income verification:** Auditor will cross verify the fee collections with approved list of students like:

- List of students with CET for the first year students and list sent to DBATU for the first-year admitted students.
- Eligibility list of students approved and sent to DBATU for higher semester students.
- Other incomes cross verified with the receipts issued to the students.
- Fee amount receivable and amount received will be reconciled.
- Checking Grants received if any.

### **2. Expenses Vouching:**

1. Auditor will vouch payment
2. Correctness of Classification revenue and capital expenses.
3. Reconciliation of bank accounts and checking the bank confirmations.
4. Reconfirmation of reconciled items.
5. Calculation of depreciation of fixed assets.
6. Status of the old debit/ credit balances.
7. Checking of statutory dues payment.

- 8. Salaries payments with the salary statements.
- 9. Any other statutory compliances verification required as per Income Tax Act.

3. On such verification if any discrepancies arises will be discussed and sorted with the management. Any changes required will be incorporated into.

4. One all financial transactions are accounted and based on those financial statements like balance sheet and Income and Expenditure for the financial year end the accounting process is completed

5. Such financial statements will be signed and approved by Auditor and Management. Based on the audited financial statements, auditor will issue “Audit Report”

File Description	Document
Provide Link for Additional information	<a href="#">View Document</a>

## 6.5 Internal Quality Assurance System

### 6.5.1

**Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing the quality assurance strategies and processes. It reviews teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals and records the incremental improvement in various activities**

#### Response:

The institution has formed an Internal Quality Assurance Cell .The cell is coordinated by a team of faculty representatives from all the departments. The formation is institutionalized through formal office order of the Institute. The Internal Quality Assurance Cell (IQAC) of the institute has been trying to develop a system for consistent and catalytic action to improve the academic and administrative performance of the institution and to promote measures for institutional functioning towards quality enhancement through internalization of quality culture.

#### Review of Teaching-Learning Process and its Outcomes:

Every teacher prepares subject file before the commencement of semester. Review committees verify the content and completion of subject file and report it to respective HOD. Regular review of completion of syllabus is taken and accordingly remedial actions are suggested. Teacher feedback is taken time to time by HOD to ensure the quality of teaching. Learning levels of the students are assessed based on their performance in sessional, internal examinations and university examination. Result analysis of all the semester is done. Action plan for improvement of result in case if the result of subject is poor is submitted to IQAC.

#### Methodologies:

IQAC regularly conducts the meetings with Heads of departments & Academic coordinator. Academic audit is regularly taken in the institute for continuous monitoring of the teaching learning process. Schedule of each academic activity is mentioned in the academic calendar. Academic Calendar covers the schedules such as commencement of classes , Sessional examination-I, Sessional exam II, PUT examination to be conducted, guest lectures and industry visit slots, etc.

**1) Feedback System:** Under the guidance of IQAC and academic coordinator feedback analysis is done and necessary improvements are suggested to the faculties having satisfactory feedback & faculties are appreciated if their feedback is good.

**2)Teaching Learning Process:** The faculty members of the concerned department gather the lists of courses for the coming semester. The head of the department finalizes the course allocation for the faculty members based on their choice and area of interest or expertise. The faculty members prepare the lesson plan before the commencement of semester, indicating the topics to be covered lecture wise including the evaluation process for each subject and it is duly reviewed by the one of the senior faculty in the department and approved by the head of the department. It is then, made available to the students. Timetable incharge of each department prepares the time table as per the guidelines of respective statutory bodies for the number of credit hours for each subject prior to the commencement of the semester. Time-table is uploaded on the system and displayed in the respective department notice boards.

We believe in the adoption of students centric methods to enhance the student’s involvement as a part of experiential learning, participative learning and problem solving methodology through the following.

1. Regular Teaching Techniques
2. Participative learning
3. Seminars, Workshops and Guest Lectures
4. Digital Library and Project Cell
5. Aptitude Test
6. Project Work and Case Studies
7. Industrial and Field visits

File Description	Document
Provide Link for Additional information	<a href="#">View Document</a>

### 6.5.2

**Quality assurance initiatives of the institution include:**

- 1.Regular meeting of Internal Quality Assurance Cell (IQAC); quality improvement**



**initiatives identified and implemented**

**2. Academic and Administrative Audit (AAA) and follow-up action taken**

**3. Collaborative quality initiatives with other institution(s)**

**4. Participation in NIRF and other recognized rankings**

**5. Any other quality audit/accreditation recognized by state, national or international agencies such as NAAC, NBA etc.**

**Response:** A. Any 4 or more of the above

File Description	Document
Quality audit reports/certificate as applicable and valid for the assessment period.	<a href="#">View Document</a>
NIRF report, AAA report and details on follow up actions	<a href="#">View Document</a>

## Criterion 7 - Institutional Values and Best Practices

### 7.1 Institutional Values and Social Responsibilities

#### 7.1.1

**Institution has initiated the Gender Audit and measures for the promotion of gender equity during the last five years.**

*Describe the gender equity & sensitization in curricular and co-curricular activities, facilities for women on campus etc., within 500 words*

#### **Response:**

The Institute's Women Cell, dedicated to "Preserving and strengthening the status of women," plays a crucial role in advancing gender equality. It focuses on building self-confidence, preventing harassment, and enhancing the well-being of female students and staff. Through targeted programs on education, health, and safety, it empowers women financially, mentally, and emotionally. Additionally, it prioritizes female participation in curricular and co-curricular activities, with each department having a women faculty coordinator and an annual action plan to achieve its gender equality objectives.

#### **1. Safety and security**

- The entire campus is under CCTV surveillance.
- GW CET is deeply committed to gender equality, implementing a comprehensive policy that addresses the needs of students, faculty, and staff across the entire community.
- The college ensures fair treatment of all staff, assigning duties and responsibilities to both men and women impartially, based on their needs and roles.
- At the start of the academic year, recommendations are sent to all faculties to ensure equality in the classroom.
- The Anti-Ragging Committee is formed to ensure the compliance of the provision of anti-ragging regulation as per AICTE notification.
- The Institute's "TEJASWINI" women's cell enhances safety and security for female students and staff, fostering a supportive environment for their growth and success.
- The cell addresses women's grievances, organizes wellness programs, and hosts social events to support personal development and foster community spirit.
- In library separate reading rooms for boys and girls are provided.
- Without wearing helmet, the students with bikes are not allowed into the campus.
- The students are motivated to participate in the awareness campaign organized by NSS regarding road safety.
- Female faculties are appointed as hostel wardens to take care of the girls residing in hostel.
- The Internal Cell (IC) as per the guidelines of AICTE is active to address all women grievances.
- The college campus features a strong security system with entry checks for people and vehicles, mandatory student ID cards, and security staff monitoring outsiders.
- For Social programs which are held outside the campus of the institute, the institute provides pick up and drop facility to girls and boys students.

#### **2. Counselling**

- Under the “MENTOR-MENTEE” scheme, 10-15 students are assigned to each faculty member. Counseling of these mentees is done through the scheme regularly.
- GW CET’s Special Counseling Cell offers guidance on psychological well-being and career issues, collaborates with the training department for career advise, and is supported by faculty guardians in each department.
- The girl students counseling is done through ‘Tejaswini’ women cell members.

**3. Common Rooms:** The girls common room and boys common room are provided in the institute to facilitate the students for the general purpose and in case of emergency. The common rooms are spacious and well ventilated. In girls common room physical health and hygiene is maintained. Also privacy for girl student is ensured.

**4. Extension of Lunch break for baby care:** The female faculty is permitted to avail special permissions beyond lunch break timings to attend the needs of the young children about one to one and half hour.

File Description	Document
Provide Link for Additional information	<a href="#">View Document</a>

### 7.1.2

**The Institution has facilities and initiatives for**

1. Alternate sources of energy and energy conservation measures
2. Management of the various types of degradable and nondegradable waste
3. Water conservation
4. Green campus initiatives
5. Disabled-friendly, barrier free environment

**Response:** A. 4 or All of the above

File Description	Document
Geo-tagged photographs/videos of the facilities.	<a href="#">View Document</a>
Bills for the purchase of equipment’s for the facilities created under this metric	<a href="#">View Document</a>

### 7.1.3

**Quality audits on environment and energy regularly undertaken by the Institution. The institutional environment and energy initiatives are confirmed through the following**

1. Green audit / Environment audit

- 2. Energy audit**
- 3. Clean and green campus initiatives**
- 4. Beyond the campus environmental promotion activities**

**Response:** A. All of the above

<b>File Description</b>	<b>Document</b>
Report on Environmental Promotional activities conducted beyond the campus with geo tagged photographs with caption and date	<a href="#">View Document</a>
Green audit/environmental audit report from recognized bodies	<a href="#">View Document</a>
Certificates of the awards received from recognized agency (if any).	<a href="#">View Document</a>
Provide Links for any other relevant document to support the claim (if any)	<a href="#">View Document</a>

#### **7.1.4**

**Describe the Institutional efforts/initiatives in providing an inclusive environment i.e., tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic and Sensitization of students and employees to the constitutional obligations: values, rights, duties and responsibilities of citizens (Within 500 words)**

**Response:**

#### **Tolerance and Harmony towards Cultural & Regional factors**

The institute fosters an inclusive environment by bringing together students and staff from diverse cultural and community backgrounds. It promotes tolerance and harmony through events like yoga, meditation, and seminars on human values, as well as celebrations of national and cultural days such as Youth Day, Republic Day, and Women’s Day, which enhance national pride and mutual respect.

#### **Communal factors:**

The NSS unit organizes events like plantation drives and blood donations, while the Women Cell hosts Ethnic Day and Women’s Day. Students and staffs also celebrate festivals such as Diwali and Eid together, showcasing communal harmony.

#### **Socio-economic & other diversities**

Since 2008, over 3,000 students, mainly from rural and middle-class backgrounds, have graduated from the institute. Around 80% are employed and support their families, reflecting the institute's commitment to their social and economic upliftment.

To address gaps in cultural and historical awareness among students from rural areas, DBATU and RTMNU have introduced mandatory courses on the Constitution of India, Professional Ethics, and Universal Human Values, enhancing students' understanding of their rights, duties, and ethical responsibilities.

#### **The outcomes of these courses are**

Gain general knowledge and legal literacy for competitive exams, understand state and central policies, the electoral process, and local governance. Learn engineering ethics, basic human rights, and the Constitution of India.

Apart from the curricular activities functions like Independence Day, Republic Day, Constitution Day, Human Rights Day, Gandhi Jayanti, Engineers Day, Woman's day, NSS foundation Day, National Youth Day etc. are celebrated in the college.

The college educates students about their future roles as engineers through various programs and observances. Birth and death anniversaries of prominent leaders like Mahatma Gandhi and Dr. A.P.J. Abdul Kalam are marked with talks by eminent speakers, highlighting these figures' contributions and inspiring students to contribute to national development.

## **5. CONCLUSION**

Additional Information:

1. Visionary and Committed Management.

1. ISO 9001: 2015 and ISO 14001:2015 certified institution.

2. Ragging free campus

3. The Institution has an active Entrepreneurship Development Cell which organizes a number of events to promote awareness of entrepreneurship.

4. The Institution's active Innovation Cell conducts numerous programs annually to foster student development in innovation, invention, and entrepreneurship.

5. The R&D Cell promotes and oversees research activities, providing students with guidance and training to encourage their involvement in research.

6. The institution's Robotics Lab allows students to work on projects like robotic arms, offering practical experience with robotics theory and programming methods.

7. The Industry-Institute Interaction Cell offers students practical training through projects, internships, and industrial visits.

8. The Institution inculcates social consciousness among its students through active forums such as NSS, Women Cell & Grievance Redressal Cell.

File Description	Document
Provide Link for Additional information	<a href="#">View Document</a>

## 7.2 Best Practices

### 7.2.1

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

**Response:**

**Best Practice 1:**

**1. Title of the Practice:**

**Community upliftment initiative by the National Service Scheme (NSS)**

**2. Objectives of the Practice:**

- **Engage in identifying community needs:** Collaborate with community members to identify their key needs and challenges, facilitating collective problem-solving efforts.
- **Promote social and civic responsibility:** Encourage a strong sense of social duty and civic engagement among participants and community members.
- **Apply knowledge to practical solutions:** Utilize the skills and knowledge of NSS volunteers to devise and implement effective solutions for community issues.
- **Enhance skills for group living:** Develop and strengthen competencies necessary for effective teamwork, collaboration, and shared responsibilities.
- **Build community mobilization capabilities:** Equip volunteers with skills to effectively mobilize and involve community members in various initiatives.
- **Increase environmental awareness:** Raise awareness and promote actions related to pollution control, health, and environmental conservation.

**Focus Area**

1. Education & Literacy
2. Water and Sanitation
3. Medical & Health
4. Women Empowerment
5. Environment
6. Socio-Economic Development

**3. The Context**

1. Under the dynamic leadership of the NSS Programme Officer, the NSS Unit of college is actively involved in a diverse array of activities throughout the academic year.

2. At the start of the academic session, the NSS Unit launched its activities with strong support from our dedicated volunteers and the guidance of the Programme Officer. Through these efforts, NSS volunteers gain experience working with rural communities and focus on raising awareness about blood donation, hygiene, and disease prevention.
3. NSS volunteers organized a variety of activities, including cleanliness drives, special camps, surveys, observance of significant days, and awareness campaigns.

#### **4. The Practice**

NSS volunteers play an active role in the Swachh Bharat Mission and lead initiatives to keep the campus clean. They organized a cleanliness drive on the college premises as well as nearby communities as part of this mission, with participation from the Principal, Teachers, students, and staff members who all contributed their efforts.

#### **5. Evidence of Success**

1. The primary outcome of the National Service Scheme is that it instills a democratic mindset in students while also building their confidence to become effective leaders.
2. Students gain insight into the social issues faced by villagers and develop an understanding of their role and contributions within society.
3. This scheme empowers students to approach emergency or challenging situations with composure and resilience.

#### **6. Problems Encountered**

1. A significant challenge faced by the NSS is the wide range of goals and objectives, coupled with the high expectations placed on NSS volunteers by both the college and the community.
2. At the same time, NSS volunteers do not have all resources at their disposal.

#### **Best Practice 2:**

**1. Title of the Practice:** The role of values in shaping personality.

**2. Objective of the Practice:**

- Developing students into positive and contributing members of society
- Preparing students to be accountable and engaged citizens
- Enhancing professional conduct and personal development in students
- Instilling Indian culture and ethical values in students
- To develop a spirit of gender sensitization.
- Empowering girls with physical and emotional resilience and raising awareness of their civil rights

**3. The Context:**

- The primary role of educational institutions is to instill values and ethics in students, fostering

their overall development and enhancing their contributions to both the community and the country.

- Organizational practices consistently focus on students' academic growth and overall development.

#### **4. The Practice:**

- Implementing various personality development programs
- Conducting blood donation camps.
- Implementation of anti-ragging rules.
- Initiating to conduct various activities related to gender-based program.
- Conducting of fire safety and road safety programs.
- The organization of various cultural events.
- Raising awareness about environmental protection among the institution and its surrounding community

#### **Curricular Activities:**

- ICT enabled teaching-learning.
- Remedial coaching to weak learners and attention to advanced learners.
- Academic, personal and psycho-social counselling to the students.
- Book bank facility to advanced learners and needy student of the college.
- Exposure to the students to advanced learning and skills through expert lectures, seminars, workshops, guest lectures, industrial visit etc.
- Conducting value added courses to enhance the employability and skills of the students.

#### **Co-curricular and Extra-curricular Activities:**

- Co-curricular and extra-curricular activities are key components of the non-academic curriculum, contributing to the development of various aspects of students' personalities.
- Organising field and exposure trips.
- Each department conducted the inter department and inter class competitions such as Quiz, poster making, Dance Competition, Debate Competition, Drama etc.

#### **5. Evidence of Success:**

- It is found that our students have perseverance on human values.
- Learners are able to organize different cultural events on their own without any charge of misconduct.
- There is no ragging case in the premises.
- The activities have a possible effect on the students especially girls.
- Programs on legal awareness, physical training, self-defense etc. help in developing personal, social and professional skills needed by girls.
- The prizes and awards won by the students in technical and other academic events emphasized the impact of the programs.
- The academic and non-academic skills, imparted throughout the year, ensure holistic development of the students.
- The evidence is reflected in the on and off-campus placements of the students and in development



of their entrepreneur skills.

**6. Problems encountered and resources required:**

- Time management and crowd control are significant challenges due to the simultaneous occurrence of numerous academic and non-academic activities. However, these issues are effectively addressed through the collaborative efforts of the principal, department heads, and staff.
- In some activities, the limited capacity for student participants creates a challenge, given the high level of enthusiasm among students.

File Description	Document
Any other relevant information	<a href="#">View Document</a>
Best practices as hosted on the Institutional website	<a href="#">View Document</a>

**7.3 Institutional Distinctiveness**

**7.3.1**

**Portray the performance of the Institution in one area distinctive to its priority and thrust within 1000 words**

**Response:**

**Financial Aid and Quality Education: Ensuring Equity for Rural Students**

The primary goal is to inspire and motivate students hailing from rural, remote, and tribal areas who come from economically disadvantaged backgrounds. By providing them with the necessary support, we aim to prevent them from discontinuing their studies due to financial constraints. This initiative is designed to offer financial assistance to all deserving students, irrespective of their caste, creed, or background, ensuring that no student is left behind due to poverty. Additionally, we seek to instill important values such as generosity and a strong sense of social responsibility among these students. The ultimate expectation is that, through this support, students will be empowered to complete their academic degrees with commendable grades. Moreover, we hope that the beneficiaries of this aid will embody the principle of "lend a helping hand without discrimination," extending support to others in need and promoting a culture of empathy and inclusiveness.

The college struggled a lot in deciding the eligibility criterion for the aid. After comprehensive deliberations with students and teachers, it was decided to extend the benefit to all the poor students, who do not have the advantage of government scholarship without any discrimination of caste and creed. Verification of the financial backwardness of the aspirants was yet another challenge.

The specific objective of the Institution is to select, educate, train, and thoroughly equip students to meet

the evolving needs of various industries. In order to help realize the aspirations of young individuals from economically disadvantaged communities, the Institution has committed to provide robust financial support through an array of scholarship schemes. These scholarships are part of a comprehensive approach designed to address the financial barriers that might otherwise impede students from pursuing their educational and professional goals.

The various scholarship schemes are meticulously crafted and managed according to a well-defined admission policy. This policy is continually reviewed and updated by the Governing Council to ensure that it remains responsive to the needs of the students and the demands of the industry. By adhering to this structured and adaptive framework, the Institution aims to create equitable opportunities for all students, ensuring that financial constraints do not hinder their educational and career aspirations.

Faculty members, both as individuals and in collaborative teams, play a crucial role in supporting and guiding students through the enrollment process at our institution for their higher education. They proactively reach out to rural and underserved areas, where they engage with potential students and provide them with essential information about higher education opportunities. This includes detailed explanations of the admission process, the documentation required for application, and the various management scholarships available to them.

Once admitted, students benefit from a learning environment designed to foster critical thinking, effective communication, and creativity. The institution employs student-centric methods like Experiential Learning and Participative Learning, which actively engage students in practical and collaborative activities. Additionally, the integration of ICT tools enhances teaching effectiveness and enriches the learning experience. These approaches collectively boost students' cognitive abilities and support their overall academic and personal development.

One notable example of the positive impact of our institution's support is the college fee assistance provided to students from the OBC category enrolled in the B.Tech program for the academic years 2021-22, 2022-23, and 2023-24. This initiative involved covering the maximum amount of tuition fees for these students, allowing them to focus entirely on their studies without the burden of financial stress. As a result of this support, these students have shown significant improvement in their academic performance and are now more dedicated and committed to their education.

The positive outcomes of this practice extend beyond academic achievements. The financial aid has contributed to a transformative effect on the students' attitudes and behaviors. They are now more engaged, responsible, and motivated in their studies, reflecting the broader impact of the support provided.

The review of this aid initiative reveals that such assistance not only facilitates access to higher education for economically disadvantaged students but also plays a crucial role in shaping them into responsible and proactive citizens. This approach underscores the institution's commitment to fostering both academic excellence and personal development among its students.

### **Selection Procedure of the Scholarship**

- Scholarship requisition has to be submitted at the time of admission with all the required
- Priority will be provided to parent whose annual income below Rs 2,00,000/-
- Priority will be provided to Single Parent students.

- The dean admission finalize the student those who are eligible for acquiring the management scholarship
- The decision of the Management will be final in all matters relating to admission and scholarships.

File Description	Document
Any other relevant information	<a href="#">View Document</a>
Appropriate web in the Institutional website	<a href="#">View Document</a>

## 5. CONCLUSION

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### **Additional Information :**

The institute is an Research Centre for DMIHER Deem University, Wardha.

The robotics & Automation lab is created to promote the Industry based projects

The grant is received from the Industry for Research and Development activities.

It is an Institutional Member of ISTE, New Delhi

ISO 9001-2015 & ISO 14001-2015 Certified Institute

Functional MoU's with the Industries and Institutes.

The institute has experienced and qualified faculties.

Innovative teaching learning practices are followed.

The institute conducts entrepreneurship development activities for encouraging the entrepreneurial skills in the students.

The institute has well equipped infrastructure facilities like State-of-the-art laboratories, classrooms, tutorial rooms.

The institute is well connected through pedestal friendly roads.

The institute promotes enthusiastic students participation for social causes through the NSS Programme.

Institute promotes co-curricular and extra-curricular activities.

Departmental forums for overall personality grooming of the students.

Economically weaker students are given Scholarship by Management.

Exposure of Foreign University/Professor's collaboration is improved in form of International Conferences, International Faculty Development Programmes organized by the Institute and guiding Post Doctoral Research at foreign Universities.

### **Concluding Remarks :**

Our Institute has completed 15 years of its establishment in imparting quality education to the students since 2008 with support of vision of the management and good governance. The state-of-the-art infrastructure, amenities and other support services provided in the campus has nurtured the student growth as well as the learning process.

GW CET with its defined vision has enriched the holistic growth of students. The Research initiatives, technical training programmes, Industry-Institute Interaction, Extension and outreach programmes by the institution have promoted research culture and establishment of good rapport with the community and Industries.

In pursuit of excellence our institute looks forward to achieve more heights in the times ahead. The Institute has initiated process of establishing High end Lab that is funded by Non-Governing Agency and is mentored by National level Institute.

The thrust in academic excellence and holistic growth of the students remain the prime focus of the Institution. The faculty members join hands in the Institution's zeal to enhance and sustain quality education flagging way for the attainment of Vision, Mission and Values.

The institution's societal commitment provides opportunity for the faculty members and students alike to render services to the society.

The institute takes care of gender equality and also inculcates ethical values and social responsibilities among faculties and students by conducting various activities. To prepare students for their placements, special programs such as CRT, GD/PI Sessions, Mock Interviews are conducted. Apart from the above programs, each department conducts several activities to bridge the gap in academics and industry practices. The institute has a policy to identify the slow learners and advanced learners in academics who are mentored by the departmental as well as institutional teams for shaping up their career. The institute organizes annual national level technical event "TECHNOSTORM", the annual social gathering "UTSAV", workshops and seminars for the overall development of the students and also to inculcate leadership qualities among them.

The institute gives priority to green initiatives & Quality audit on Energy, Gender and Environment. The Faculties and Students are motivated for participation in innovations through publications, patents, copyrights.