



# **SELF STUDY REPORT**

**FOR**

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

## **PRIYADARSHINI BHAGWATI COLLEGE OF ENGINEERING**

**HARPUR NAGAR, UMRED ROAD, NEAR BADA TAJBAG**

**440024**

**[www.pbcoe.edu.in](http://www.pbcoe.edu.in)**

**Submitted To**

**NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL**

**BANGALORE**

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# 1. EXECUTIVE SUMMARY

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## 1.1 INTRODUCTION

Founded in 1983 LTJSS (Lokmanya Tilak Jankalyan Shikshan Sanstha) today runs 28 educational institutions and is considered synonymous with excellence in education. Sanstha derives its philosophy from the eminent mathematician, educationist and social reformer Lokmanya Bal Gangadhar Tilak.

Priyadarshini Bhagwati College of Engineering, Nagpur established in year 2007, is one of the reputed Engineering Colleges in the Rashtrasant Tukadoji Maharaj Nagpur University area. The college has an excellent infrastructure and campus. The architecture of college building is of international standards with all the modern amenities. The college has state of the art Library, well equipped laboratories, and highly experienced teachers.

The institute has around 590 computers. The campus is fully WiFi enabled. The institute has also developed in-house ERP software to regulate all the activities like academic, stores, and scholarship, leave record, faculty profile online at institution and sanstha level.

The institute includes amenities like Auditorium, Seminar Halls, Girls common room, Boys common room, Medical room, Electrical generator, ample parking and canteen. The college has sports facility available within the campus for the students.

The institute has well established cells like Training & Placement, R&D, III Cell, Entrepreneurship Development, Alumni, NSS, Internal Complaint Committee, Faculty Development, Anti Ragging, Library Advisory committee and Research Advisory committee.

All the teaching departments has well experienced, qualified, enthusiastic and dynamic staff members who never left any stone unturned to bring academic excellence in students. Along with the academic activities, students are also motivated and encouraged to take part in co-curricular and extracurricular activities. Various cultural and technical activities are organized throughout the year for students.

Some of the distinguished features of the institute are well disciplined academic culture and environment, highly experienced and qualified staff, excellent infrastructure with all facilities. We have extensive training facilities to enhance employability of students, continuous interaction with industries and research organizations, active students associations of all departments for overall personality development of students. We always strive for continuous quality excellence through implementation of innovative ideas, industry linkages, extension activities, filing of patents and copyrights, participation and organization of conferences, seminars, workshops, training programs.

### **Vision**

**To be a leading institution ensuring Academic Excellence, Nurturing Research, Innovation and Entrepreneurial Attitude to produce employable technocrats for service to society.**

## Mission

1. To be a student centric institute imbibing experiential, innovative and lifelong learning skills, addressing societal problems.
2. To create a conducive ecosystem for Research, innovation & extension services.
3. To inculcate entrepreneurial attitude and values amongst Learners.
4. To Collaborate with Industries and other institutions to strengthen symbiotic relations.
5. To inculcate high ethical and moral values among the students.

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

### Institutional Strength

- Centrally located campus situated in the heart of the city. Easily accessible through public and private transport
- Academically disciplined environment of students and staff thus enriching overall teaching and learning process
- Highly dedicated and integrated faculty members across the departments at all levels with good retention ratio.
- The college has invested in state-of-the-art laboratories, advanced engineering software, and well-equipped classrooms, enhancing the learning experience.
- Spacious Library with rich contents like textbooks, e-learning resources, ICT
- Teacher-Guardian scheme enabling the smooth implementation of continuous evaluation of academic process
- Active Internal Quality Assurance Cell (IQAC) to ensure quality in Teaching learning process as well as in all area of operations.
- Strong and active academic monitoring system in place.
- Collaborations with local industries and companies offer students internships, industrial projects, and potential job placements, providing real-world exposure.
- Continuous support and guidance from top management in every activity at college level
- Fully WiFi Enabled campus with Central computing facilities
- Excellent results of the departments in RTM Nagpur university examinations and few students secured merit positions.
- The college is accredited by a NAAC Cycle 1 and is committed to maintain high standards of education and quality.
- The College is ISO-9001 and ISO-14001 certified.
- Faculty members are actively engaged in research, leading to publications and innovations that contribute to the academic community and students' learning.
- There is a dedicated placement cell with other supporting cells like III cell, ED Cell, Alumni Cell, Institution Innovation council

### Institutional Weakness

- Lacking in Funded projects and consultancy.
- Students with poor communication skill at entry level.
- Few publications in indexed journals and high impact factor journals

- The college faces challenges in engaging alumni for mentorship programs, guest lectures, and industry connections, potentially limiting networking opportunities.
- MOU with National and international organizations of repute

### **Institutional Opportunity**

- Starting of new UG programs after NBA accreditation to cater the diversified need of the Industry.
- Becoming an autonomous Institute in coming future
- As Nagpur is developing industrial zone with MIHAN and Metro rail project there will be demand for qualified engineers, which can be contributed by the Institute
- Inculcating research culture among faculties and students and getting the funds from various funding agencies
- Starting skill based courses in collaboration with local industries
- The rise of fields like renewable energy, data science, and automation presents opportunities to introduce new programs and research initiatives aligned with these trends.
- Exploring partnerships with international universities can lead to student exchanges, joint research projects, and exposure to diverse perspectives.
- The adoption of online courses and hybrid learning models can cater to non-traditional students, working professionals, and those seeking flexible education options.
- Leveraging government grants and initiatives supporting research, innovation, and education can provide additional funding opportunities.
- Addressing the increasing demand for engineers in emerging industries by designing programs that align with industry needs and providing relevant skill sets.
- Establishing an entrepreneurship center which can nurture students' innovative ideas and provide them with resources to launch startups, fostering an entrepreneurial spirit.
- Implementation of NEP in true spirit.

### **Institutional Challenge**

- Decreased inclination of students for engineering education in core branches.
- Higher cost of engineering education
- Majority of students joining the institute are from rural background with poor language and communication skill.
- Inclination of students towards higher education is poor.
- Number of students getting placed in the prestigious companies is low.
- Students could not fulfill the expectation level of the corporate sector at entry level
- The presence of renowned engineering colleges in the region makes it competitive to attract and retain high-performing students and faculty.
- Staying updated with evolving education policies and regulations to ensure compliance and adapt institutional practices accordingly.
- Developing inclusive teaching approaches that cater to diverse learning backgrounds, cultures, and languages to ensure proper students growth.
- Coping up with rapidly changing technologies.
- The rigidity in academic structure and curriculum since our institute is an affiliated institute.
- Diverse socioeconomic background of students.

## 1.3 CRITERIA WISE SUMMARY

### Curricular Aspects

- The curriculum of the undergraduate programs is in alignment with the guidelines provided by AICTE and RTMNU. Choice Based Credit System is implemented for all the courses.
- Institute adheres strictly to the Academic Policy and Calendar
- Academic monitoring is a continuous process for maintaining quality of teaching and learning. Institute offers certificate and add on courses to the students every year
- Looking at the structure of the syllabus the programs include the Humanities and basic sciences alongwith professional core courses and elective courses.
- Professional core courses focuses on major competencies in the students in each semester.
- In addition compulsory industry internship at second year, mini projects and mega projects at pre final year and final year, activity based learning in each course, laboratory performance are regularly implemented in each department.
- In the professional elective courses the students have the choice to select the course of their interest in multiple semesters.
- Open electives are available from Fifth semester onwards, which fulfils the interdisciplinary aspects of learning new courses for the students.
- The institute also offers multiple certificate courses in each semester on the subjects other than the syllabus. This improves the learning and knowledge of the students.
- Students are advised to enroll for atleast one online course on web based platform like NPTEL to gain the additional subject based and industry related knowledge.
- In addition to this courses on Human values, effective technical communication, Yoga and meditation, research methodology, consumer affairs, report writing, Economics, IPR etc. are also included in syllabus.
- Many faculty members are involved in university work. Some are holding positions like members BOS, co-opted positions etc. Faculty members also actively participate in the curriculum restructuring
- Regular industrial visits and field visits are carried out for real life learning.
- Expert lectures on soft-skills, communication, personality development, CRT etc are regularly conducted by the departments and T and P Cell of the institute.
- Structured feedback on Curriculum is collected from various stakeholders like students, teachers, alumni, Industry person/employer.

### Teaching-learning and Evaluation

- Directorate of Technical Education (DTE), Maharashtra State regulates engineering admissions for UG and PG through centralized admission procedure.
- Admissions are based on the entrance examination conducted on National & State level.
- The institute is having a linguistic minority status.
- Students from Maharashtra and other states of India are admitted as per government norms.
- All admitted students are enrolled in Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur.
- Institute promote interactive teaching-learning process.
- Teaching of few subjects like soft skills and communication skills promotes the teaching-learning process through formation of study groups.
- Mini-project seminars and project seminars are organized regularly so as to promote interactive and independent learning among students.

- Faculty prepares the teaching material through online learning resources like tutorials, PPTs, E-books, book chapters and shared with students for effective delivery of the curriculum.
- In institute assessment of students' performance is done on continuous basis.
- Evaluation is based on attendance of students in classroom, laboratory and project slots. Class Test I and II are planned and conducted at central level. Sessional Exam and internal practical exam is conducted.
- Review of syllabus coverage, lectures taken, activity based learning, practical's conducted is taken from all head of the departments by the Principal and IQAC coordinator regularly
- Experiential and Participative learning are main focus in learning process.
- The institute is having well defined mechanism to assess the learning levels of the students. Advanced learners and slow learners are identified and appropriate measures are taken accordingly
- Crash course and performance improvement workshops are conducted at the end of each semester.
- Feedback from students, parents, alumni's and employers are taken and used for improvement in the system.
- Institute has implemented mentoring scheme named as Student mentoring Scheme.
- The Student-teacher ratio is maintained by the institute.
- Teaching learning process is student centric which is made effective by technologically enriching faculty members with the help of various training programs
- Departments have well designed PSO's, PEO's, PO's and CO's. Course objectives and course outcomes are implemented by the faculties.
- The attainment of the CO's with PO's and PSO's is being implemented for all courses to achieve Outcome Based Learning objectives.

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

- The Institute is actively engaged in making adequate resources available, encouraging active research involvement of teachers and students.
- Internships in the curriculum, provides students with real-world experience and exposure to cutting-edge research. Through these opportunities, students gain valuable insights, enhancing their skills and employability.
- Few faculty members have created intellectual property right in the form of patents and copyrights.
- The institution nurtures innovation, with research findings translating into novel ideas, and fostering entrepreneurship. Few students have participated in Smart India Hackathon and Mayor Innovation Council.
- Institute has created an Ecosystem for Innovation by setting up Incubation Center for Transfer of Knowledge
- Furthermore, research and extension activities also manifest in the form of publications in reputable journals and conferences by students and faculties.
- Institute has functional IPR Cell, R & D cell and III cell.
- 53 Expert lectures and workshops on Research methodology, Entrepreneurship development, and Patent awareness are conducted.
- Institute has signed around 25 MoU's with industries and various research based activities are carried out under the collaboration.
- 25 faculties are having Ph. D qualification and few are pursuing. Some senior faculties are approved research guides for Ph.D Candidates.
- Around 50 paper publications in SCI, Scopus, UGC Journals and 170 conference presentations and book chapters are published by the faculties.
- For developing sensitivities towards community issues, gender disparities and commitment to society

National Service Scheme unit promotes Extension activities such as Swachh Bharat , Gender Issue, blood donation camp, campus cleaning, tree plantation etc in the neighborhood community

### **Infrastructure and Learning Resources**

- A robust infrastructure and comprehensive learning resources are available at Institute, fostering holistic development and academic excellence.
- Classrooms are the heart of learning, where knowledge is imparted and ideas are nurtured. Classrooms are equipped with modern teaching aids and comfortable seating to facilitate effective teaching and learning.
- State-of-the-art lab facilities are available at Institute for scientific and technical disciplines. Institute has total 590 computers with high speed Internet connection.
- 280 Mbps High-speed internet and Wi-Fi connectivity are accessible at Institute for research and online learning.
- Central library has a vast collection of books, journals, and digital resources. Library has KOHA software, Springer subscription, DELNET, NPTEL videos and other learning material along with reading blocks. Reading rooms provide a serene space for focused study and research
- Adequate number of Seminar halls are available at Institute for hosting guest lectures, conferences, and workshops, enriching students' exposure to diverse perspectives.
- The adequate facilities for extra-curricular activities like outdoor and indoor games, cultural activities, are available.
- Sports rooms and yoga rooms are available which promotes physical well-being, stress relief, and a balanced lifestyle. It contributes to overall student development, instilling discipline and teamwork.
- The college campus is under the surveillance of CCTV cameras.
- The equipment, furniture, computers and generator are well maintained. The college campus is lush green with well-maintained lawns, trees and plants.
- Institute has all the facilities for specially challenged learners.
- The college is having language lab for improving communication skills of students in addition to computer center. The college is having internet facility as per norms.

### **Student Support and Progression**

- Institution takes utmost efforts to provide necessary assistance to students, to enable them to acquire meaningful experiences for learning in the campus and to facilitate their holistic development and progression.
- Institute supports students through well-structured mechanism and policies. Institute has a defined procedure to provide the various state and central level scholarships to SC/ST/OBC/SBC/NT/VJ and economically backward classes.
- Institute provides scholarship to economically weaker class.
- Institute has regular practice of providing guidance to students for development of soft skills, life skills, communication skills, computing skills, yoga and meditation, and sports.
- Institute has central level career guidance cell, training and placement cell to provide the inputs for overall development of the students.
- Every department conducts sports and cultural activities/competitions throughout the year.
- Institute has functional Grievance Redressal committee, Anti-ragging committee and Internal complaint committee to address the issues related to it.

- Institute has registered alumni association and Alumni cell.
- Regular interaction with the alumni's are conducted along with guidance and technical sessions for the students.
- Alumni meet is organized on regular basis.
- The Training and placement cell, conducts regular sessions on aptitude test, GD, personality development, technical trainings etc. Institute has good number of placements.
- Institute conducts sessions on higher studies, preparation of competitive exams to motivate students for PG courses and government jobs.
- Every department has a student's forum which provides the platform for team work, managerial skills and extracurricular activities.
- There is representation of students in all centralize cells of college.
- Few students have participated in sports at National and University level and won the Gold and Silver medals.
- Students participate in Cultural fest at university level and bring laurels to the college.

### **Governance, Leadership and Management**

- Priyadarshini Bhagwati College of Engineering is run by Lokmanya Tilak Jankalyan Shikshan Sanstha (LTJSS) established in 1990.
- The institute strives to bring excellence with the involvement of the governing body and stakeholders to achieve the vision, mission and goals of the institute.
- Effective leadership has developed the organizational culture in the institute.
- The College Development Committee give guidelines for framing policies of the Institute in tune with the vision and mission. The institute believes in practicing decentralization and involves stakeholder's representatives in decision making.
- The vision and mission of the college is well articulated and drafted in tune with vision and mission of sanstha (LTJSS). The institute takes efforts in achieving vision and mission through governing body and various stakeholders
- Principal , Dean , IQAC Coordinator & Heads of the department, plan and implement quality improvement strategies taking into consideration the feedback of all stakeholders.
- College has well framed statutory and non-statutory cells as per the norms of regulatory bodies like DTE / AICTE / UGC / University.
- The Principal is the Academic and Administrative head of the college and responsible for the implementation the Vision and Mission of the college.
- Institute plan, execute and monitor all the academic activities through joint efforts of Principal, IQAC cell, HoD's, faculties, support staff, stakeholders and alumni.
- The institute has inhouse ERP based E-governance system in the areas of academics, accounts, establishment, and admission process.
- Institute has various active cells at college level for smooth functioning of student bodies and activities.
- Faculties are provided with financial support for paper presentation, attending FDP/STTP and workshops as per the institute policy.
- All financial and accounts processes are duly audited.
- The Institute is ISO certified as per 9001:2015 and 15001: 2015
- The institute participates in NIRF , AISHE and AICTE-CII survey
- The academic audits are conducted regularly.
- Internal Quality Assurance Cell (IQAC) monitors, reviews, and evaluate academic and administrative processes to ensure the quality.



## **Institutional Values and Best Practices**

- Safety and security of students and staff are the prime concern of the Institute.
- All essential security arrangements have been made by the institute, including Counselling cell, well equipped medical room and girls' common rooms.
- The Institute takes conscious efforts to create awareness about energy conservation and renewable energy usage among students. These include Installation of solar panel of 84Kw at college roof top, water conservation through various ways such as rain water harvesting, safe and efficient disposal of all waste generated along with developing and maintaining a green campus . LED fittings are installed at various locations in the campus.
- Green, Environment and Energy audits are conducted as per standards.
- Eco friendly transportation is promoted and public transport is encouraged to keep our air quality in check.
- Arrangements have been made to make the campus equally accessible to differently-abled persons.
- The institute has its core values and code of conducts adhered to by all within the campus.
- The Institute engages itself in various social activities for the benefit of the nearby communities, including sharing of infrastructure.
- All major anniversaries of national importance are celebrated with fervour, which inculcates universal values and emboldens national identity and integrity amongst the students.
- In today's rapidly evolving world, institutional values and best practices are vital cornerstones for any organization's success. Fostering an environment that prioritizes these values not only reflects a commitment to ethical principles but also strengthens the institution's reputation and sustainability
- Women empowerment lies at the heart of progressive institutions. Promoting gender equality and providing equal opportunities for women within an organization fosters diversity and enriches the talent pool.
- By participating in charitable initiatives, volunteering, and promoting corporate social responsibility, college is demonstrating its dedication to creating a positive impact beyond their walls.

## 2. PROFILE

### 2.1 BASIC INFORMATION

Name and Address of the College	
Name	PRIYADARSHINI BHAGWATI COLLEGE OF ENGINEERING
Address	Harpur Nagar, Umred Road, Near Bada Tajbag
City	Nagpur
State	Maharashtra
Pin	440024
Website	<a href="http://www.pbcoe.edu.in">www.pbcoe.edu.in</a>

Contacts for Communication					
Designation	Name	Telephone with STD Code	Mobile	Fax	Email
Principal	Nitin Krishnarao Choudhari	0712-2710281	9823273864	0712-2710283	principalpbcoe@gmail.com
IQAC / CIQA coordinator	Archana R. Chaudhari	0712-2710282	9823285684	-	pbcoeqac@gmail.com

Status of the Institution	
Institution Status	Private and Self Financing

Type of Institution	
By Gender	Co-education
By Shift	Regular

<b>Recognized Minority institution</b>	
If it is a recognized minority institution	Yes <a href="#">Minority Certificate English Translation.PDF</a>
If Yes, Specify minority status	
Religious	
Linguistic	Hindi Linguistic Minority
Any Other	

<b>Establishment Details</b>				
<b>State</b>	<b>University name</b>	<b>Document</b>		
Maharashtra	The Rashtrasant Tukadoji Maharaj Nagpur University	<a href="#">View Document</a>		
<b>Details of UGC recognition</b>				
<b>Under Section</b>	<b>Date</b>	<b>View Document</b>		
2f of UGC				
12B of UGC				
<b>Details of recognition/approval by stationary/regulatory bodies like AICTE,NCTE,MCI,DCI,PCI,RCI etc(other than UGC)</b>				
<b>Statutory Regulatory Authority</b>	<b>Recognition/Approval details Institution/Department programme</b>	<b>Day,Month and year(dd-mm-yyyy)</b>	<b>Validity in months</b>	<b>Remarks</b>
AICTE	<a href="#">View Document</a>	03-06-2023	12	EOA REPORT OF AICTE

<b>Recognitions</b>	
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

<b>Location and Area of Campus</b>				
<b>Campus Type</b>	<b>Address</b>	<b>Location*</b>	<b>Campus Area in Acres</b>	<b>Built up Area in sq.mts.</b>
Main campus area	Harpur Nagar, Umred Road, Near Bada Tajbag	Urban	5.09	22553.94

## 2.2 ACADEMIC INFORMATION

<b>Details of Programmes Offered by the College (Give Data for Current Academic year)</b>						
<b>Programme Level</b>	<b>Name of Programme/ Course</b>	<b>Duration in Months</b>	<b>Entry Qualification</b>	<b>Medium of Instruction</b>	<b>Sanctioned Strength</b>	<b>No.of Students Admitted</b>
UG	BTech,Civil Engineering	48	Intermediate or Diploma	English	60	32
UG	BTech,Computer Science And Engineering	48	Intermediate or Diploma	English	60	60
UG	BTech,Electronics And Communication Engineering	48	Intermediate or Diploma	English	60	60
UG	BTech,Information Technology	48	Intermediate or Diploma	English	60	60
UG	BTech,Mechanical Engineering	48	Intermediate or Diploma	English	60	53
PG	Mtech,Computer Science And Engineering	24	B.E B. TECH MCA	English	16	1
PG	Mtech,Electronics And Communication Engineering	24	B.E. B. TECH.	English	22	0

### 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	8				14				65			
Recruited	1	0	0	1	0	1	0	1	24	41	0	65
Yet to Recruit	7				13				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						22
Recruited	16		6		0	22
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				4
Recruited	4	0	0	4
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>
	<b>Male</b>	<b>Female</b>	<b>Others</b>	<b>Male</b>	<b>Female</b>	<b>Others</b>	<b>Male</b>	<b>Female</b>	<b>Others</b>	
D.sc/D.Litt/LLD/DM/MCH	0	0	0	0	0	0	0	0	0	0
Ph.D.	1	0	0	0	1	0	11	12	0	25
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	13	29	0	42
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**

Programme		From the State Where College is Located	From Other States of India	NRI Students	Foreign Students	Total
UG	Male	610	8	0	0	618
	Female	434	7	0	0	441
	Others	0	0	0	0	0
PG	Male	1	0	0	0	1
	Female	3	0	0	0	3
	Others	0	0	0	0	0

Provide the Following Details of Students admitted to the College During the last four Academic Years					
Category		Year 1	Year 2	Year 3	Year 4
SC	Male	132	130	136	125
	Female	76	83	79	78
	Others	0	0	0	0
ST	Male	4	9	13	12
	Female	1	1	4	6
	Others	0	0	0	0
OBC	Male	335	334	322	298
	Female	228	208	203	209
	Others	0	0	0	0
General	Male	115	155	107	88
	Female	65	59	57	61
	Others	0	0	0	0
Others	Male	105	104	95	89
	Female	65	59	57	56
	Others	0	0	0	0
Total		1126	1142	1073	1022

**Institutional preparedness for NEP**



1. Multidisciplinary/interdisciplinary:	<p>Our institute is affiliated to RTM Nagpur University and we follow the choice based credit system scheme which allows students to opt for program electives and open electives. Open electives are opted by the interdisciplinary engineering students in the areas like waste management, consumer electronics, data science, Linux fundamentals etc. This allows the students to gain knowledge in inter- disciplinary areas of the engineering. Academic scheme also includes the courses like Universal Human Values, Effective technical communication etc. at second and third year level which allows for the integration of the science and humanities courses in engineering. Students of the institute regularly engaged in project based learning and selects the topics in the areas of community engagement and environment friendly solutions to the problem. For implementing the multidisciplinary aspects of NEP-2020 in true spirit our faculty members attending various seminars and workshops on NEP and we are in process of identifying benchmarks from various reputed institutions.</p>
2. Academic bank of credits (ABC):	<p>Our Institute has created account on Digi locker in the last Academic Session. Institute has implemented registration of student for the Academic Bank of credits. Almost 900 students have created their ABC ID account on the portal. From current academic session 2023-2024 we have decided to register newly admitted students in the beginning of the session itself. We have created awareness amongst students regarding creating ABCID and how it is beneficial for them. Dr. M. S. Chaudhari, Head IT Department is in charge of this activity and he is regularly taking follow up from all departments regarding creation of ABCID of the students.</p>
3. Skill development:	<p>The institute conducts various training sessions comprise of soft skill, technical skill and aptitude skill trainings through guest lectures, industry visit, and technical workshop to enhance employment opportunities. • Priyadarshini's Centre of Excellence (PCoE) conducts soft skills training to the students on regular basis. In few semesters the soft skill classes are included in regular time table. • Campus Recruitment Training (CRT) is conducted by experts from organizations like VistaMind, Face, TIME etc. • Certificate course at department level are conducted</p>

	<p>regularly • Employment Enhancement Training EET, soft skill training. Campus To Corporate Training are conducted under Human Excellence Department to improve the employability of students. • The training and placement cell arranges and conducts various skill development programs for the capacity building of the students. • Various enrichment programs like workshops, seminars, conferences, technical events, sports are conducted.</p>
<p>4. Appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using online course):</p>	<p>Language is an integral part of human life. It plays a vital role in the learning process and knowledge enhancement of students. • The RTMNU syllabus is having courses focusing on Indian constitution and culture •The College conducts programme like Yoga, Meditation, spiritual programme, traditional show with the theme of Indian Mythology to inculcate the traditional Indian culture among students. The College has conducted online seminar on “Yogic Science in Geeta” a spiritual programme and Self Exploration Programme itself. The college uses English as its primary language of instruction because it is a higher education institution. The university has also noted the challenges that students experience when using English in the classroom. Teachers are also expected to use a multilingual approach to instruction while taking into account the socioeconomic, cultural and language backgrounds of the students. Also, it was discovered that the multilingual delivery method improved the student receptive skills. The college used to conduct Essay Competition with the choice of English, Marathi and Hindi Language. We conduct the Value Added Course on “Ethical Science” for newly admitted First Year students.</p>
<p>5. Focus on Outcome based education (OBE):</p>	<p>Outcome-Based Education (OBE) is an educational approach that focuses on defining specific learning outcomes or competencies that students should achieve by the end of a learning experience, such as a course, program, or degree. The emphasis in OBE is on what students should be able to demonstrate they know, understand, and can do, rather than simply completing a set curriculum or accumulating course credits. Institute has well planned vision and mission aligned with OBE. Every department has well defined PEOs and PSOs. Regularly mapping of course outcome and program outcome is being implemented by all the departments. Attainment of</p>

	CO is executed and calculated for all the subjects in each semester. Both direct and indirect attainment parameters are rigoursly monitored and continually improved by each faculty. The gap if any in the attainment of the CO is find out and is being removed subsequently. Activity based learning is also included in each subject. With respect to OBE institute has defined clear learning outcomes, academic processes are aligned with outcomes, student-centric approach is followed, has carefully designed assessment methods, focuses on continues improvement of the students, ensures flexibility and transparency along with lifelong learning.
6. Distance education/online education:	Online education has gained significant prominence and popularity in recent years, offering flexibility, accessibility, and a wide range of learning opportunities. Institute has well defined practice of using Google classroom, NPTEL video lectures and other digital contents for academic delivery. Students have been provided with class notes, question bank, PPT, e-books, assignments in digital form regularly. Blended learning approach is followed by the institute. During COVID Pandemic Period the total Teaching Learning was done in online mode. We have conducted theory, practical's, Discussions, Examinations through Online mode only. Few faculty members developed Digital Content of their subjects and uploaded on RTM Nagpur University e- portal and on You Tube channel. During Pandemic the department have conducted Online Certification Courses.

### **Institutional Initiatives for Electoral Literacy**

1. Whether Electoral Literacy Club (ELC) has been set up in the College?	Priyadarshini Bhagwati College of Engineering has set up Electoral Literacy Club (ELC) as per the directions of District Election Officer (DEO) and Electoral Roll Officer (ERO). Objective of ELC is to promote awareness of 'Right to Vote' among Faculty Members, Student's and Community at large. Enable critical thinking on issues related to Elections, Rights, Democracies /Non-Democracies electoral system.
2. Whether students' co-ordinator and co-ordinating	The Student and faculty Coordinators are appointed

<p>faculty members are appointed by the College and whether the ELCs are functional? Whether the ELCs are representative in character?</p>	<p>to ensure the smooth conduction of club activities. Our faculty Ms. V. M. Atakari has been appointed as a faculty coordinator for ELC. The coordinator along with students Yuva Ambassadors have planned activities to provide awareness about Electoral literacy. ELC of our college is functional. •The ELC members meet to engage in group session of thematic discussions on relevant topics. •They organize activities like outreach program and in campus program with targeted groups to create voting awareness.</p>
<p>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.</p>	<p>PBCOE Electoral Literacy Club is a platform to engage the students through interesting activities. Students are exposed to hands- on experience to sensitize them on their electoral rights and familiarize them with the electoral process of registration and voting. The ELC club involve students in various innovative activities to encourage them to use their voting rights and spread awareness about the importance of voting among the general public. Our students and staff have participated in the voter’s awareness rally. Our faculty members has assisted district election administration by performing duties during election and also we had a polling center at our institution. Two workshops were organized on Electoral Literacy Club in which Tahsildar and Deputy Tahsildar guided the students regarding voter ID registration. Our college have appointed 47 Student Yuva Ambassadors to create awareness among other students. Till date 378 students have submitted voter ID registration forms in the session 2022-23.</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 students of PBCOE have multiple role and responsibilities pertaining to their academic and extra- curricular activities. Our students has taken initiative in spreading awareness within the society about voter registration. ELC is creating awareness among the public through posters and participating competition as per the direction of District Collector office.</p>
<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 club collaborates along with the District Collector office to create awareness on the importance of voting through various programs like, surveys, Voter Awareness Contest Quiz, Voter awareness posters creation, Voter awareness banners etc. Our college has organized voter registration</p>

program to register students above 18 years as a voter in electoral list. We have also listed students having age above 17 year and will register them as and when they will be eligible.

## Extended Profile

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### 1 Students

#### 1.1

Number of students year wise during the last five years

2022-23	2021-22	2020-21	2019-20	2018-19
1126	1142	1073	1022	1209

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: 120

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

2022-23	2021-22	2020-21	2019-20	2018-19
67	66	70	77	84

### 3 Institution

#### 3.1

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

2022-23	2021-22	2020-21	2019-20	2018-19
590.05	471.36	567.19	483.50	687.99

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:**

Priyadarshini Bhagwati College of Engineering (PBCOE) is affiliated to Rashtrasant Tukadoji Maharaj Nagpur University (RTMNU), Nagpur and follows the curriculum designed by University. For effective curriculum planning and its implementation we adopt the following

##### **A. Curriculum Analysis, Delivery Plan and Implementation.**

1. **Curriculum Analysis:** The RTMNU curriculum is a blend of Humanities, Basic Science, Basic engg, Core Courses, Elective courses, Projects and Seminars. Etc.
2. **Curriculum Delivery Plan and Implementation :** The curriculum delivery plan meets the OBE components like POs, PSOs, and COs as defined by regulatory bodies and departmental committees. The measures are
  - Upon release of university academic calendar the IQAC discuss, decide, and plan the college calendar of events. It includes number of working days, schedule for conducting internal assessment tests, submission of assignments in each unit by the students, conducting Class Committee meetings, Course committee meetings and collecting on-line feedback. Post these respective department heads in consultation with department faculty members will prepare the department calendar of events.
  - The Time table coordinator of each department circulates the skill matrix and collect the subject preferences from all the faculty members. Based on these, subjects are allocated by the HoD before the beginning of every semester.
  - The Faculty Preparatory Programme is prepared before the beginning of every semester. It contains the Lesson Plan, Notes of lesson, assignment topics, and question bank and sample university question papers. They are verified by IQAC team and HoD.
  - Every month, the log books are verified and the status of portion completion is periodically monitored by the HoD.
  - The important topics in each subject are recorded as video sessions by faculties and they are available online. Some of the faculties have developed digital content in the form of YouTube channel, video lectures and Presentations. This helps the students to revise the topics and helps the absentees to understand the concepts. This also helps other teachers to understand and review the concepts.
  - Online feedback is collected in a semester from students for every semester.

##### **B. Process of Monitoring**



- The senior members handling a subject are nominated as course coordinators for that subject to monitor the status of course delivery.
- IQAC periodically verifies the quality of delivery process through regular audits of Question paper audits, Answer script audits, Course file audit and will continuously monitor the attendance and syllabus coverage for every fortnight, and corrective measures are taken for any deviation observed.

**C. Conduct of Internal Assessment :** To ensure the institute strictly complies with the university academic calendar accommodating all planned activities. The Institute academic calendars help faculty members to plan their respective course delivery and undertake academic and other activities. Department heads closely supervise and monitor completion of the syllabus as per the lesson plan prepared by faculty members. Portions for each CIE are decided well in advance and faculty members are required to stick to it.

File Description	Document
Upload 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:** 49

File Description	Document
List of students and the attendance sheet for the above mentioned programs	<a href="#">View Document</a>
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>
Evidence of course completion, like course completion certificate etc. Apart from the above:	<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:** 58.83

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

2022-23	2021-22	2020-21	2019-20	2018-19
680	690	664	654	590

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:**

Priyadarshini Bhagwati College of Engineering is affiliated to RTMNU and implement the syllabus prescribed by RTMNU. RTMNU continuously strive to focus towards imparting the crosscutting issues like professional ethics, Human values, Environmental Engineering which are highlighted through below points:

***Gender Equality:***

PBCOE always follow the culture of upholding the gender equality. The institute have Students cell under which equal opportunity is given to students. The institute also have fully functional women cells under which different programs are conducted to encourage and guide the girl students in their academic as well as overall growth in life.

***Environment Awareness:***

As a part of core curriculum and to make the students so sensible to understand the perseverance of Mother Nature, to find out the solutions of present environmental problems and to develop the sustainable strategies to protect the environment, the institute integrate the environment science subject for second year students of all stream. As a part of contribution the NSS cell of the institute, every year,

we celebrate “World Environment Day” and conduct various activities in contribution to sustainable environment.

### ***Human Values:***

With the objective of imparting a set of attitude, habits and belief of morality in our student, our institute sincerely execute and implement the subjects in curriculum like universal human values, organizational behavior etc. College has prepared Code of Conduct in order to shape the behaviors of students so as to make them responsible citizen in future. The code of conduct sessions are organized at department level for newly admitted student. Faculties are the major sources who inspire the students to impart social values and loyalty, to guide the students to appreciate the right of others. Believing the same, every year the faculties are encourage to participate in FDP on “Universal Human Values”. Inculcating these things is an ongoing process, with this view we organize the related sessions for our newly admitted students during induction program.

Similarly imbibing the culture of social responsibility, the institute conduct social activity like blood donation camp under NSS cell. Ensuring animal welfare is a human responsibility and contributing for the same even in small manner represent a part of human value with this vision every year our first year students conduct “Bird Feeder” activity for feeding grains and water to birds in summer season.

### ***Professional Ethics:***

For making our students aware about the ethical conduct, honesty and integrity in work the institute adopted the professional ethics as a part of core curriculum as well as different events conducted in different cells. The teachers contribute their best to prepare their student professionally as well as ethically sound through effective classroom teaching and conducting various student centric activities.

RTMNU have adopted all these student enrichment programs in higher semesters, but as a beginning of imbibing these values in the initial phase of the professional course, the institute organize the student induction program for the fresher students through which number of sessions like diet planning, habit formation, yoga and meditation, time management etc. are conducted every year.

<b>File Description</b>	<b>Document</b>
Upload 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:** 63.32

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

**Response:** 713

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

<p><b>1.4.1</b></p> <p><i>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</i></p> <p><b>Response:</b> C. Feedback collected and analysed</p>	
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>

## Criterion 2 - Teaching-learning and Evaluation

### 2.1 Student Enrollment and Profile

#### 2.1.1

##### Enrolment percentage

**Response:** 63.19

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

2022-23	2021-22	2020-21	2019-20	2018-19
281	214	205	162	235

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

2022-23	2021-22	2020-21	2019-20	2018-19
308	342	342	342	402

#### 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](#)

Document related to sanction of intake from affiliating University/ Government/statutory body for first year's students only.

[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:** 100

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

2022-23	2021-22	2020-21	2019-20	2018-19
220	162	151	125	167

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

2022-23	2021-22	2020-21	2019-20	2018-19
220	162	151	125	167

File Description	Document
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>
Copy of communication issued by state govt. or Central Government indicating the reserved categories(SC,ST,OBC,Divyangjan,etc.) to be considered as per the state rule ( Translated copy in English to be provided as applicable)	<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:** 16.81

## 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:**

PBCOE adopts student centric methods to make the Teaching Learning process more effective for the holistic development of students through Experiential learning, Participative Learning and Problem solving Methodologies. The following activities have been adopted by the faculty and they adorn student-centric methods:

#### **A. Experiential learning:**

- **Laboratory sessions:** Curriculum was designed in such a way that sufficient emphasis is laid on hands-on experiments required for comprehensive understanding of the subjects. The laboratories, software and model experiments are beyond curriculum
- **Industrial visits:** Study without practical approach is not considered as worth in this challenging and competitive environment. Putting that aim in mind we always take our students to various industries in order to make them understand the classroom concepts in a better way.
- **Field works and Internships:** The main motto of Field works/Internships are educational and career development opportunities, providing practical experience in a field/discipline.
- **Community outreach programme:** Students are taken to community visits under social innovation and practice. We make them to understand real world societal problem. After visit they should understand and design solutions for at least one problem.

#### **B. Participative Learning:**

- **Expert Talks, Workshops and seminars:** Students are encouraged to participate in workshops expert talks and seminars organized by various professional societies, esteemed institutes and industries.
- **Group Discussions:** The purpose of a group discussion is not to win an argument but it is to help each group member explore and discover personal meanings of a text through interaction with other people. In the Language lab students gets an opportunity to participate in group discussions.

#### **C. Problem Solving Methodologies:**

- **Developing Models in Engineering and Science:** Science often involves the construction and use of a wide variety of models and simulations to help develop explanations about natural phenomena. Models make it possible to go beyond observables and imagine a world not yet seen.
- **Project Based Learning:** Project Based Learning is a learning method in which students learn actively by engaging in real-world and personally meaningful projects. Students work on a project over an extended period of time from a week up to a semester that engages them in solving a real-world problem or answering a complex question.

#### **ICT- enabled tools including online resources for effective teaching and learning process**

Conducting activities using ICT tools is an effective methodology. These tools provide benefits like maintaining structured data and a fast evaluation process. During the pandemic situation, the role of ICT tools was predominantly experienced. In the online mode of teaching-learning, the use of ICT-enabled tools is mandatory but in offline mode, it was effectively enforced as per the requirement of the subject, for the teaching-learning process. Various ICT tools and resources were incorporated to share knowledge and information with students. Tools include devices, and equipment such as desktops, laptops, computers, projectors, smartphones, licensed and open source software. Resources included open educational resources (OER) like Swayam NPTEL courses and material shared via Google Classroom,

virtual labs. Online facilities like Zoom, Webex, Google Meet, were used effectively for the online teaching-learning process.

File Description	Document
Upload 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**

2022-23	2021-22	2020-21	2019-20	2018-19
67	66	70	77	84

File Description	Document
Sanction letters indicating number of posts sanctioned by the competent authority (including Management sanctioned posts)	<a href="#">View Document</a>

### 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:** 20.33

**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**

2022-23	2021-22	2020-21	2019-20	2018-19
25	18	11	11	09



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.	<a href="#">View Document</a>
Institution data in the prescribed format	<a href="#">View Document</a>
Copies of Ph.D./D.Sc / D.Litt./ L.L.D awarded by UGC recognized universities	<a href="#">View Document</a>

## 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:**

The college has effective internal assessment system comprising of examination and evaluation system to improve the continuous internal evaluation process. As per the curriculum, the syllabus is completed within specified time. After completion of each topic, the teachers conduct examination to assess the students. The objectives of evaluation System are:

1. To make the evaluation system adequate and transparent
2. It helps teachers to know how far the students are able to learn the topics, so that the teacher can modify their teaching methods.
3. To give feedback to students about their strength and weaknesses in the subject.

**Internal Examinations:**

The college conducts internal examination comprise of two class tests in a semester. Class test–I is based on 50% syllabus and class test-II is based on remaining 50% syllabus. Sessional examination is conducted at the end of the session based on University examination pattern which covers complete syllabus. Two assignments are given in a semester based on unit content of respective subject. Unit wise question bank is provided to students.

With the ongoing syllabus of subject, the subject teacher conduct various academic activities like surprise test, objective type test, technical quiz, open book test etc for assessing students.

Assignments are evaluated by the respective subject teachers and proper remarks are mentioned on assignment copies to improve the answers written by the students.

Question paper setting is done after completion of specified units for class test and sessional examination by respective subject teachers. The required number of copies of question papers is printed and handed over to the Examination Incharge one hour before the scheduled time of the exam. The valuation of class

test and sessional examination is done by respective subject teachers. After valuation, the marks are displayed by subject teachers and answer sheets are shown to the students. After showing the answer sheets, discussion is done on the written answers. Evaluation is done both in theory and practical examinations. This assessment process is impartial and accurate. The involvement of students in internal assessment process makes the students aware about the University examination pattern and time management of University examination.

The college has internal grievance redressal system where the students can put their grievance against paper valuation, it get solved by respective subject teacher.

### **External Examinations:**

The Final examinations are conducted by RTM Nagpur University, Nagpur. The odd semester exams are conducted in November / December. Even semester exams are conducted April / May. Question papers are uploaded on the mail id of appointed Chief Supervisor at least one hour prior to the time of examination. Invigilation duties, seating arrangements, and distribution of hall tickets are handled by the Exam cell in accordance with University rules. The Chief Supervisor works for the examination as per University rules along with the external supervisor appointed by University.

For University examinations also revaluation and grievance redressal system is provided by University. Student having any grievance has to apply for revaluation. It is then send to University for further process.

<b>File Description</b>	<b>Document</b>
Upload 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 switched over to Outcome Based Education (OBE) in year to impart education through student centric approach and follow outcome oriented teaching learning process. Programme Outcomes (POs), Programme Specific Outcomes (PSOs), and Course Outcomes (COs) have been formulated and disseminated to the teachers and students.

**The Mechanism of Communication of Program outcomes, program specific outcomes and course**

**outcomes**

The Vision, Mission, PEOs, POs and PSOs of all departments are published at College website, in HOD cabins, Departmental Library, Department corridors, Departmental Notice Boards, Class Rooms, Laboratories Notice Board, and Course Files.

Course Outcomes define the fundamental knowledge of required skills and the level of learning expected from students at the end of the course. The COs are published at College website as well COs are communicated by course teachers to the students and are available in Course files.

**Process of dissemination of Vision, Mission and POs / PSOs among the stakeholders and its awareness:**

1: The Vision, Mission and POs / PSOs are published on college website, for dissemination and awareness to stake holders.

2: The Vision, Mission and POs / PSOs are displayed in HoD cabin, departmental library, department corridors, Departmental Notice Boards, Class Rooms, and Laboratories Notice Board so that it will be easily conveyed to stake holders particularly students, faculty, parents, visitors etc.

3: Department conducts meeting with industry persons, alumni, parents and Internal Stakeholders i.e. students, faculty etc. Procedure for conduction of these meeting and a tentative schedule of these meeting is prepared by department in the faculty meeting. Such meetings were conducted once or twice in a year. In the meeting Vision, Mission and POs / PSOs of the department are conveyed to all the internal and external stakeholders so that they get awareness about Vision, Mission and POs / PSOs of the department.

4: The faculty members discuss their progress in achieving COs, POs, and PSOs in the departmental meetings. Some faculty members share the techniques for evaluating each course outcome and the mapping with POs and PSOs. The CO attainment level is examined

**Process of dissemination of COs among the students:** The Newly admitted students of first year are informed about COs in the Induction program. The teacher explains course objectives and course outcomes, before starting first lecture. After completion of each unit of the course, teacher again informs about the CO. The COs are mentioned in the teaching plan. Department conducts CO assessment periodically to identify, analyze and evaluate data in order to accomplish the course outcomes. The CO achievement can be calculated by considering data from various theory courses, practical and project courses. The Internal assessment receives 30% of the weightage and the external assessment receives 70% weightage.

File Description	Document
Upload 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:**

COs, POs, PSOs attainment is measured in terms of actual percentage of students performance. If targets are achieved then all the course outcomes are attained for that year. If targets are not achieved, corrective actions were planned to attain the target in subsequent years.

- The attainment levels are set considering average performance levels in all examinations throughout the semester or year. Attainment level is measured in terms of student performance in internal assessments with respect to the COs of a course and the performance in the University examination.
- Attainment levels are stated in terms of percentage of students getting more than the targeted average marks.

**Assessment Tools, process, and levels for POs,PSOs attainment used are given in below**

### **1. PO and PSO assessment for PO1 to PO5 and PSO1 PSO2**

PO assessment for PO1 to PO5 and PSO1, PSO2 is done by giving 80% weightage to direct assessment and 20% weightage to indirect assessment. Direct assessment is based on COURSES and PROJECT attainment wherein 60% weightage is given to attainment through Courses and 15% weightage is given to attainment through Projects. Field visits and Internships are assigned weightage of 5%. Indirect assessment is done through program graduate survey, alumni survey and employer survey where program alumni survey and employer survey are assigned weightage of 5% each and graduate survey is assigned weightage of 10%.

### **2. PO and PSO assessment for PO6 to PO12**

PO assessment for PO6 to PO12 is done by giving 80% weightage to direct assessment and 20% weightage to indirect assessment. Direct assessment is based on courses, project, field visits/ internships and co-curricular and extra curricular activities. 40% weightage is given to attainment through Courses, 20% weightage is given to attainment through Projects and field visits/ Internships and 20% weightage is given to attainment through co-curricular and extra co-curricular activities. Indirect assessment is done through program exit survey, alumni survey and parent survey. Program alumni survey and parent survey are given a weightage of 5% each and exit survey is given a weightage of 10%.

### **PO and PSO Assessment Tools:**

The various direct and indirect assessment tools used to evaluate POs and PSOs and the frequency with which the assessment processes are carried out are listed as

<b>PO, PSO Assessment Tools and Processes</b>				
<b>Direct Assessment</b>	<b>Courses</b>	<b>Course Type</b>	<b>Assessment Tools</b>	<b>Frequency</b>
		<b>Theory</b>	Sessional Exams	Once per course
			Assignments	Twice per course

		University Exam	Once per course	
	<b>Practical</b>	Performance in lab	Every lab session	
		Internal Lab exam	Once per course	
	<b>Project</b>	University Exam	Once per course	
		<b>Project Reviews</b>	First Review	Once per course
			Second Review	Once per course
			Final review	Once per course
	<b>Viva-Voce</b>	University Assessment	Once per course	
	<b>Co-Curricular and Extra Curricular Activities</b>		After the activity	
<b>Indirect Assessment</b>	<b>Surveys</b>	Graduate survey	Once in a year	
		Parent survey	Once in a year	
		Alumni survey	Once in a year	

The overall CO attainment is the weighted average of direct and indirect attainment and the ratio used is either 70%-30% or 80%-20% respectively.

### 2.6.3

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

**Response:** 93.81

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

2022-23	2021-22	2020-21	2019-20	2018-19
213	318	293	319	357

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

2022-23	2021-22	2020-21	2019-20	2018-19
263	322	296	321	397

<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>
Annual report of controller of Examinations(COE) highlighting the pass percentage of final year students	<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:** 0.45

**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)**

2022-23	2021-22	2020-21	2019-20	2018-19
0.45	00	00	00	00

#### File Description

#### Document

Upload supporting document

[View Document](#)

Institutional data in the prescribed format

[View Document](#)

### 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:**

The institute provides conducive environment for innovations through Five key constituents.

- **Innovation**
- **Research**
- **Industry**
- **Technology**
- **Indian knowledge system:**

Each one of the above acts as a feeder to the next and creates a ripple effect on building innovative products.

- The institution has established an **Innovation Council** to promote innovation and

entrepreneurship among students.

- The institution has set up an **Incubation Centre** and an Innovation Club to support and foster innovation and entrepreneurship. The Incubation Centre provides resources, mentorship, and a nurturing environment for startups and innovative ventures.

### Company At Incubation Centre:

#### 1. AeroFlutter Techlabs

**Company Profile:** Aeroflutter is a leading drone survey & inspection company in India. Their services include drone survey, mapping, visual and thermal inspection of solar plants, transmission lines & utilities, wind turbines, thermal plants, factories, dams and hydro power projects, telecom towers, coal & mine, construction sites.

**Website:** <https://www.aeroflutter.com>

**Contact Personal:** Ankit Bhagat, Founder, AeroFlutter Techlabs +91 8793188229

**Pratit Gendekar, Co-Founder, AeroFlutter Techlabs +91 8087805452**

#### 2. MiproTecz

**Company Profile:** Miprotecz is a Information technology company, and they providing IT solution services, our services like digital marketing, website development, app development, cloud services and also provide IT training and internship.

**Website:** [www.miprotecz.com](http://www.miprotecz.com)

**Contact Personal:** Akshay A. Deotare, Founder, MiproTecz, Nagpur +91 7768005685

- The **Innovation Club** serves as a collaborative platform for students and faculty to share ideas and work on innovative projects. These initiatives create an ecosystem that promotes the creation and transfer of knowledge within the institution.
- We have established **Entrepreneurship Development Cell** (ED Cell). ED cell regularly organizes workshops and seminars conducted by successful entrepreneurs, industry experts, and academicians. Recently cell has organised seminar on Khadi for nation Khadi for fashion in association with Khadi and Village Industries Commission Nagpur where they discuss business opportunity in khadi sector entrepreneurs.
- ED cell have MoU with MCED, enabling us to conduct seminars on Government Incentives and the Roadmap to Starting a Business.
- Additionally, students took part in a Go-Kart competition, where they applied engineering principles and teamwork to create high-performance vehicles, enhancing hands-on learning and problem-solving skills.
- **Intellectual Property Right Cell** (IPR) encourages faculty members, research scholars and students to undertake patentable works and organises seminars/workshops on IPR. Patents have been obtained by the faculty and research scholars.
- In order to bring Industry, Academia & Entrepreneur together on the same platform and to



discuss the issue for better understanding, we organized a **conclave on Academia Industry & Entrepreneur** (IAE CONCLAVE 2022)

#### Technology:

- The institution's **Robotics Club** engages students in the field of robotics and automation through workshops, competitions, and hands-on training sessions.
- Students from the institution actively participated in the **Indian Science Expo** held in Nagpur in 2023.
- Our students also joined the Smart India Hackathon, promoting creative thinking, teamwork, and the development of innovative prototypes.

#### Indian knowledge system:

- We take immense pride in promoting the rich tapestry of the **Indian Knowledge System**. We recognize that the foundation of our academic and technological excellence rests on the timeless wisdom and innovations rooted in our nation's history.

File Description	Document
Upload 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: 5**

**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**

2022-23	2021-22	2020-21	2019-20	2018-19
1	1	1	1	1

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:** 0.01

**3.3.1.1 Number of research papers in the Journals notified on UGC CARE list year wise during the last five years**

2022-23	2021-22	2020-21	2019-20	2018-19
1	0	0	0	0

#### File Description

#### Document

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

[View Document](#)

Link to re-directing to journal source-cite website in case of digital journals

[View Document](#)

Links to the papers published in journals listed in UGC CARE list or

[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:** 1.47

**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**

2022-23	2021-22	2020-21	2019-20	2018-19
84	18	32	29	13

<b>File Description</b>	<b>Document</b>
List of chapter/book along with the links redirecting to the source website	<a href="#">View Document</a>
Institutional data in the prescribed format	<a href="#">View Document</a>
Copy of the Cover page, content page and first page of the publication indicating ISBN number and year of publication for books/chapters	<a href="#">View Document</a>

### 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:**

Extension activities carried out by our esteemed Engineering College in the neighbouring community, with a strong emphasis on sensitizing students to social issues for their holistic development. These activities not only serve as a means to contribute to society but also provide our students with invaluable experiences and a broader perspective on the world.

All these activities are carried out by various departments in collaboration with NSS cell of the institute. Our NSS cell is always striving hard to make students aware about their social responsibilities and also to sensitize them.

Our college recognizes the importance of nurturing well-rounded individuals who possess not only technical knowledge but also a deep sense of social responsibility. With this vision in mind, we have established a range of extension activities that actively engage students in the local community, allowing them to witness and address real-life challenges faced by different segments of society.

One of the primary avenues through which we accomplish this is by organizing regular community service initiatives. Students actively participate in various projects such as volunteering at local schools, orphanages, and elderly care centres. By interacting with individuals from diverse backgrounds, our students gain a greater understanding of the social issues prevalent in our society, fostering empathy and compassion.

In addition to community service, our college also conducts awareness campaigns and workshops on pertinent social issues. Through collaborations with non-governmental organizations (NGOs) and government agencies, we organize sessions on topics like environmental conservation, gender equality, healthcare accessibility, and digital literacy. These initiatives encourage students to critically analyse societal challenges and brainstorm innovative solutions that can positively impact their community.

We actively collaborate with other educational institutions, industry partners, and community organizations to create a collective impact. By forging these partnerships, we ensure a more

comprehensive and sustainable approach to addressing social issues, while also fostering a culture of collaboration among our students.

In conclusion, the extension activities carried out by our Engineering College in the neighborhood community play a vital role in sensitizing students to social issues for their holistic development. By actively engaging with the community, students gain valuable experiences, develop a sense of empathy, and cultivate skills that extend beyond their technical knowledge. We are proud to foster a generation of engineers who understand the importance of their role in society and actively contribute towards its betterment.

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

### 3.4.2

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

##### **Response:**

Not only has PBCOE excelled in the realm of academics, but it has also distinguished itself in cultivating a comprehensive and well-rounded environment. Through a series of extension activities and club initiatives, our institution is actively engaged in spearheading diverse social awareness campaigns under the banner of extension activities. This collective endeavor has a core objective: to foster youth leadership that looks towards the future. By guiding the youth through a transformative journey, we aim to nurture responsible individuals dedicated to nation-building. Our approach encompasses equipping them with essential skills, providing comprehensive training, and empowering them to become the vibrant voice of the emerging young India.

Moreover, our students' achievements speak volumes about our commitment to excellence:

- In 2023 , Shree Sainath Blood centre and Component is thankful to PBCOE, Nagpur for smooth conduction of Blood donation Camp.
- In 2022, our work in tragic incident of Beltarodi cylinder blast is appreciated by Agneepankh Foundation Nagpur.
- In 2021, our students earned the prestigious position of Parliament Member at Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur.
- Our efforts garnered appreciation and recognition from the Mayor Innovation Council, Nagpur, during Innovation Parve-2019.
- In 2019, Our efforts are appreciated by Bhagawati girls Junior College, Nagpur and Jotiba Madhyamic Vidyalaya & Junior College, Nagpur for delivering Carrier counselling Seminar & conducting MH-CET Mock Test.
- In 2019, Manawata high school, Nagpur is thankful to ous for conducting social awareness activity of ‘Paper Lantern Making’ toward promoting plastic free India.

File Description	Document
Upload 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:** 63

**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**

2022-23	2021-22	2020-21	2019-20	2018-19
24	05	09	18	07

File Description	Document
Photographs and any other supporting document of relevance should have proper captions and dates.	<a href="#">View Document</a>
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:** 36

<b>File Description</b>	<b>Document</b>
Summary of the functional MoUs/linkage/collaboration indicating start date, end date, nature of collaboration etc.	<a href="#">View Document</a>
List of year wise activities and exchange should be provided	<a href="#">View Document</a>
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:

The Institution Priyadarshini Bhagwati College of Engineering (PBCoE) has adequate infrastructure and physical facilities viz., classrooms, laboratories, ICT infrastructure, facilities for cultural and sports activities, yoga center etc. in the institution. Priyadarshini Bhagwati College of Engineering (PBCoE) encompasses a sprawling area of 5.9 acres, offering a serene and pristine environment that is abundant with greenery. The campus is thoughtfully designed to be self-sufficient, providing the entire necessary infrastructure as per the norms set by the All India Council for Technical Education (AICTE) & RTMNU Nagpur University. The college aims to facilitate an effective teaching and learning process by providing state-of-the-art facilities.

Room	Description	Count
Classroom	Well maintained, airy, spacious classrooms with Big green board, LCD Projection and Internet Facility	20
ICT Enabled Classroom	Equipped with mounted LCD projector, Internet access and Audio system	06
Laboratories	Well-equipped high configuration computer laboratories with fast Internet access and multiple sets of apparatus and Instruments	52
Seminar Hall	Seating Capacity of 100 and above students with ICT facilities with LCD Projector	03
Drawing Hall	Equipped with Drawing Tables	01
Board Room	Equipped with Air Conditioner and Projector	01
Central Library	The institution offers a comprehensive central library with abundant resources, supporting diverse academic	01

	needs and research endeavors	
Department Library	Spacious and good department library with sufficient number of books	06

As an integral part of the curriculum, various sports facilities and cultural facilities are provided to the students within the campus. The participant and winner students are honored with medals, trophies and certificates. The college has created a balanced atmosphere of academic, cultural and sports activities for overall personality development of students.

### Sports –

Various **sports** competitions are organized in developing team spirit among the students in a healthy manner. All these activities encourage the students to participate in intra and inter collegiate sports and games. The institute has indoor & outdoor games facilities such as Chess, Carom, Table Tennis, Volleyball and Kabaddi. It helps the students to develop their physical strength and fitness.

### Cultural –

The college infrastructure is provided with an auditorium hall where various curricular and co-curricular activities on the occasion of Ganesh Festival, Various events on the occasion of Founders Day and Annual Social Gathering are organized to provide platform to students to explore their hidden potential. The students participate in the various cultural events organized during “Amrutam” the college cultural fest.

### Yoga Center –

Awareness on Yoga and its practice has been included in the student curriculum. The International **Yoga Day** is celebrated every year in the campus where many faculty and students have participated.

### Additional Infrastructure

The Amenities and facilities also include well maintained Lift, Wheelchair for Physically challenged students, RO water, Fire Extinguisher, Water Purifier, CCTV Surveillance, Solar plant, and Rainwater harvesting. College has provisions of an NSS cell for the extension activities to the neighborhood Community development.

File Description	Document
Upload 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:** 3.77



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

2022-23	2021-22	2020-21	2019-20	2018-19
25.84	12.70	0.21	46.76	20.07

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>

**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:**

The Priyadarshini Bhagwati College of Engineering (PBCoE) has adequate infrastructure for Library with digital facilities using ILMS and adequate subscriptions to e-resources and for journals.

PBCOE has established a technologically advanced library system, employing the KOHA Online Library software with the version 18.11.03.000, an Integrated Library Management Software (ILMS). This strategic implementation greatly enhances the institution's library services and management.

The KOHA software provides robust support for various library functions, particularly in the realm of circulation control. It efficiently manages book issuance and returns, ensuring a streamlined process. Moreover, the software facilitates an Online Public Access Catalogue (OPAC) that empowers users to conduct searches based on titles and periodicals. This digital search functionality enhances user experience and access to the extensive library resources.

Through KOHA, the library can generate comprehensive reports related to general book information, categorized by Accession Number, Title, Author, and Publisher. This aids in organized book tracking and resource management. Additionally, the software allows for effective book classification, enabling grouping by genre, author, subject, and publisher. This feature simplifies book retrieval and selection, enhancing the library experience for both students and staff.

One noteworthy advantage of the KOHA software is its capability to facilitate swift searches for lost or misplaced books. This tool significantly reduces the time required for book recovery, enhancing library efficiency. Regular audits, guided by the software's functionalities, ensure that the library remains well-maintained, and the resources are easily accessible to the library's patrons.

PBCOE's implementation of the KOHA Online Library software demonstrates the institution's commitment to offering advanced library services. The software's capabilities, from circulation control to efficient cataloging, contribute to a well-organized and accessible library environment. Through this integration, PBCOE ensures that its library remains a valuable resource hub for all stakeholders.

The Central Library is the 'Heart' of institute. Teaching and learning system is supported by library by providing reading material and easy access to get online information about different subjects. The college library stands as a cornerstone of our intellectual prowess, enriching our academic landscape immensely. Spanning 1,214 square meters and accommodating 150 reader seats, our expansive library provides an optimal space for scholarly endeavors. Our extensive collection comprises a remarkable array of resources, including over 20,105 books spanning various disciplines, 10,000 Springer E-books, 2,627 social welfare books, 54 national journals, 588 bound volumes, 745 project reports, exam papers, and more than 725 multimedia packages encompassing CDs and DVDs.

To stay abreast of the latest research and literature, we subscribe to five publications and six newspapers. Our digital library services unit, equipped with 15 PCs boasting high-speed Internet connections, serves as a hub for electronic resources. We proudly offer access to the IEEE Journal Online, the Licence e-Aarjav Academic Plagiarism software, Springer E-books, DELNET e-journals, and the NDL National Digital Library.

The following Sections are in the Central Library;

Library Area –

- Total area of Library - 1214.14 Sq. Mt.
- Stack Room Area - 412.63 Sq. Mt.
- Reading Room - 801.51 Sq. Mt.
- Reading Room Seating Capacity - 150

File Description	Document
Upload 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:**

PBCOE places a strong emphasis on the continuous upgrading of technology to create an IT-based atmosphere on campus. The institution recognizes the significance of incorporating the latest digital environment into the teaching and learning process. To achieve this, PBCOE strives to provide state-of-the-art technologies and consistently updates its infrastructure to stay at the forefront of technological advancements. PBCOE is dedicated to providing an IT-enabled teaching and learning environment that is available round the clock. To facilitate connectivity, the institution has implemented leased web connectivity, ensuring that students and staff have access to Wi-Fi and physical connectivity across the campus. This reliable internet infrastructure enables uninterrupted communication and access to online resources, promoting a seamless learning experience by providing two dedicated leased lines, each offering 250 Mbps from BSNL, alongside an additional 30 Mbps from VODAFONE. Hence overall Internet Bandwidth is 280Mbps.

The college has implemented a rapid campus-wide network that interconnects all departments and the library, encompassing 590 computer systems. PBCOE's commitment to upgrading technology and creating an IT-based atmosphere is evident through its continuous efforts to provide state-of-the-art facilities and infrastructure. By prioritizing ICT and ensuring a robust connectivity infrastructure, the institution fosters an environment that enhances the teaching and learning experience. PBCOE's proactive approach to technology integration underscores its dedication to preparing students for success in an increasingly digital world.

**Wireless Networked Campus**

The institute offers internet connectivity through BSNL at a 250 Mbps bandwidth, with provisions to scale up bandwidth during increased data transmission needs. An additional 30 Mbps secondary backup is provided via Vodafone for vital services. Interdepartmental computer networking occurs through LAN interconnections utilizing switches. Across the campus, multiple Wi-Fi access points facilitate seamless access to educational resources

**Digital Services**

The college website serves as a comprehensive platform for stakeholders, offering crucial information. Google Classroom facilitates teaching, while urgent class materials are uploaded there. We have an ERP system which aids in disseminating essential messages to students and faculty. This integrated approach ensures efficient communication and seamless teaching and learning processes, underscoring the institution's commitment to information dissemination and technological integration.

**Enhancing the IT Infrastructure**

In response to the progressive growth in student enrollment, laboratory computer systems are regularly expanded. Adhering to AICTE regulations, a student-to-computer ratio of 2.16:1 is maintained. Essential software, hardware devices, and computer systems with peripherals are procured in accordance with specific needs. Furthermore, advanced configurations of computer systems are supplied within the campus laboratories to support project-related endeavour effectively. This strategic approach ensures that the institution's IT facilities remain aligned with evolving demands and technology advancements

for students.

### Video Surveillance System

The PBCOE campus is equipped with a comprehensive CCTV camera network. This system is instrumental in overseeing student activities, particularly during exam periods, while also enhancing security measures. This heightened security setup facilitates consistent monitoring of daily campus undertakings, encompassing students, faculty, staff, workers, and visitors. Through this advanced surveillance infrastructure, a proactive approach is taken to ensure a secure and well-monitored environment within the campus premises.

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

#### 4.3.2

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

**Response:** 2.17

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

Response: 520

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

#### 4.4.1

*Percentage expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component, during the last five years (INR in Lakhs)*

**Response:** 32.34

#### 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)

2022-23	2021-22	2020-21	2019-20	2018-19
238.58	249.26	229.72	84.60	103.31

<b>File Description</b>	<b>Document</b>
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>

## 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:** 85.89

**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**

2022-23	2021-22	2020-21	2019-20	2018-19
1008	1001	918	858	1001

#### File Description

#### Document

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

[View Document](#)

Upload Sanction letter of scholarship and free ships (along with English translated version if it is in regional language).

[View Document](#)

Upload policy document of the HEI for award of scholarship and freeships.

[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)	<a href="#">View Document</a>
Report with photographs on ICT/computing skills enhancement programs	<a href="#">View Document</a>
Institutional data in the prescribed format	<a href="#">View Document</a>

### 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:** 62.63

**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**

2022-23	2021-22	2020-21	2019-20	2018-19
823	827	380	539	921

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

### 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:** B. 3 of the above

<b>File Description</b>	<b>Document</b>
Proof w.r.t Organisation wide awareness and undertakings on policies with zero tolerance	<a href="#">View Document</a>
Proof related to Mechanisms for submission of online/offline students' grievances	<a href="#">View Document</a>
Proof for Implementation of guidelines of statutory/regulatory bodies	<a href="#">View Document</a>
Details of statutory/regulatory Committees (to be notified in institutional website also)	<a href="#">View Document</a>
Annual report of the committee motioning the activities and number of grievances redressed to prove timely redressal of the grievances	<a href="#">View Document</a>

## 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:** 62

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

2022-23	2021-22	2020-21	2019-20	2018-19
91	160	190	211	278

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

2022-23	2021-22	2020-21	2019-20	2018-19
213	318	293	319	357



File Description	Document
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>
List of students progressing for Higher Education, with details of program and institution that they are/have enrolled along with links to proof of continuation in higher education.(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:** 2.98

**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.)**

2022-23	2021-22	2020-21	2019-20	2018-19
6	2	4	5	0

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: 15**

**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**

2022-23	2021-22	2020-21	2019-20	2018-19
3	5	1	2	4

File Description	Document
Upload supporting document	<a href="#">View Document</a>
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: 17.2**

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

2022-23	2021-22	2020-21	2019-20	2018-19
22	17	5	20	22

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:**

The Alumni Association “Bandhan” with registration number F-35620(N) contributes significantly to the development of the institute through various activities.

The alumni community's gatherings serve as an occasion to exchange the real-world encounters they encountered after departing from the institution. This meeting also establishes a platform for recognizing the most exceptional alumni. The core aim is to nurture and amplify the bond among alumni and between them and the institution. Through the Alumni Association "Bandhan" we meticulously monitor our alumni's progress and apprise them of the institute's recent milestones.

Among our accomplished alumni, a considerable number have forged their paths as thriving entrepreneurs. They actively orchestrate initiatives aimed at procuring internships and placements for our current students. During alumni meet, the interaction of alumni with students helps students to get insight into the industry requirement and corporate culture. At regular intervals, our alumni deliver technical sessions that furnish insights into the contemporary developments and practices within their respective industries. Engagements with the heads of departments and students afford them the opportunity to divulge information about prevailing trends.

Upon visiting the campus, these alumni assume the role of motivators, encouraging students to emulate their trajectories for the betterment of society. Drawing from their corporate experiences, they offer valuable guidance to the present cohort of students, urging them to maintain continuous communication. Constructive feedback is also tendered, thereby suggesting enhancements to the infrastructure facilities.

**The Following are the activities carried out with the help of Alumni.**

**Curriculum Enrichment:** Alumni are involved for curricular gap identification and development of value added course module.

**Interactive Sessions:** The alumni association helps in holding interactive sessions to motivate current students about the employability and educational opportunities abroad. They share their opinions in social networks, blogs and forums.

**Industry connect:** Alumni helps in establishing MoUs with industries. The alumni those who are entrepreneurs arranges industrial visits to the students and provide inputs on how to start a new venture to turning them in to job providers. The Alumni extend their support for student internship.

**Research and consultancy:** To encourage the students of the college & members of the Association for research & consultancy works in various fields like Engineering, Computers, Industrialization, etc. Alumni helps the departments by directing the entrepreneurs to carry out consultancy works in various sectors of the engineering stream.

**Mentorship:** Alumni can play an active role in voluntary programs like mentoring students in their areas of expertise. To utilize the rich experiences of old students of the college for the benefit. To assist the students in securing suitable jobs.

**Placements/ References:** The alumni network of a college is one of the biggest sources of placement opportunities to the students. Alumni can help students in referring to companies and get placed at their respective organizations. The Alumni conduct mock personal interviews and job oriented training.

**Administration:** Alumni are members in IQAC and provides inputs for imparting quality system adaptive to recent trends and requirements of industry.

File Description	Document
Upload 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:**

Our governance body is very reflective and the prime focus is on the vision and mission of the institute

Vision : To be a leading institution ensuring Academic Excellence, Nurturing Research, Innovation and Entrepreneurial Attitude to produce employable technocrats for service to society.

Mission :

- 1.To be a student centric institute imbibing experiential, innovative and lifelong learning skills, addressing societal problems.
- 2.To create a conducive ecosystem for Research, innovation & extension services.
- 3.To inculcate entrepreneurial attitude and values amongst Learners.
- 4.To Collaborate with Industries and other institutions to strengthen symbiotic relations.
- 5.To inculcate high ethical and moral values among the students.

The following strategic characteristics and aspirations enable the College to realize its vision

1. Modern infrastructure and experienced faculty for development of students
2. An atmosphere that facilitates personal commitment to the educational success of students in an environment that values multiplicity and society
3. Education and research collaborations with industries.
4. Highly successful alumni who contribute to the profession in the global society.
5. Undergraduate and Post graduate programs that integrate global awareness, communication skills and team building across the curriculum
6. Practical and responsible resource management;
7. Training that prepares students for interdisciplinary engineering research and advanced problem solving
8. Leadership and service to meet society needs.

The College functions in a well-structured and defined manner to ensure participative management at all levels of decision making. The college authorities always involve the students and teachers while organizing various activities at department and college level. From every department the faculty, students and nonteaching participation is ensured as per the requirement of the Cell. Under this practice the cells namely Alumni Cell, Internal Complaint Committee, Anti Ragging Cell, Internal Quality Assurance Cell, Entrepreneurship Development Cell, Library Advisory Committee, Faculty Development Cell, NSS Cell, Grievance Redressal Cell, Research Advisory Board, Industry Institute Interaction Cell, Training and Placement Cell, IPR Cell, Sports Cell and Students Cell are formed. The Constitution of all these Committees consists of members from all the departments which clearly indicates the de-centralised and participative work culture. Every department is having working student forum. Many technical, curricular, extracurricular activities conducted.

The IQAC continuously reviews and takes steps to improve the equality of the teaching-learning process. The Academic Calendar is prepared in advance, displayed and circulated in the Institute and strictly followed. Admission to various programmes, summer and winter examination schedule and declaration of results are notified in the Academic Calendar.

All newly admitted students attend the Orientation Programme, in which they are made aware of the of the Education system, the teaching learning process, continuous evaluation process which will be implemented and various co-curricular activities, discipline and culture of the Institute.

Important announcements are made in Google Class room as well as students whatsapp group.

Conduction of classes are monitored by the Deans and Heads, Feedback from students is also taken individually which is properly analyzed and shared with the Director, Deans, HODs and individual faculty members.

File Description	Document
Upload 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:

The Institution has well defined institutional bodies and organizational structure

**1. Governing Body:** It includes Chairman, Secretary, Director, all important policy decisions are taken by Governing Body.

It is the main executive authority to formulate policies and procedures for administrative and academic affairs of the college. It manages financial resources and allocation of funds for various academic service units.

## **2. Principal**

Principal shares the vision & decisions taken by the management with the Deans, Heads of the Departments and faculty members. He sets up rules and regulations of the institution for effective governance, transparent administration and participatory decision making for collective responsibility. He ensures that recruitment process is undertaken with the aim to attract the suitable faculty and the staff. Being head of the institute, he continues to explore opportunities for development of research and teaching practices. He promotes faculty competency and encourages team building. He generates inputs through direct communication with students, faculty and staff members. He also manages availability of infrastructure and supporting facilities to satisfy academic and administrative requirements.

## **3. Dean**

Dean ensures academic planning, like faculty requirement, academic performance reviews and utilization of resources, feedback of academic system. Dean motivates faculty for adoption of innovative methods in teaching and promotes research activities. Dean ensures the discipline amongst faculties, staff and students of institute.

## **4. Head of the Department**

Head of the Department make plans and responsibility to execute the plans for the development of department. He/she identifies lab requirements (maintenance and procurement), and execution of academic planning. He/she also ensures quality teaching-learning system and academic disciplines with the help of faculty members.

## **5. Cells**

There are different cells in institute to carry out specific functions.

**T & P Cell:** It ensures pre-placement training of the students and persuades companies and industries for student's placement activities.

**R & D Cell:** propagate research environment in the institute.

**ED Cell :** carry out Entrepreneurship Development awareness among students.

**III Cell :** plans all activities related to Industry Institute Interaction.

**Women / ICC Cell :** protect the women rights and ensures gender equality.

**Anti-Ragging Cell:** refrain the students from getting involved in unlawful activities.

## **6. Librarian**

Librarian maintains the procurement of books, magazine, e-learning resources for the students and faculty members. He ensures proper regulation of issue and returns of books.

## 7. Registrar

Registrar assists the Principal in all administrative matter. He exercises control over accounts and administration. He also provides the necessary information to the management. Keeping service records of employees is also one of the important functions of the registrar

**Strategic Perspective Plans:** A 360 degree perspective plan is developed and is as follows

Sr. No	Strategic Plan
1	Enhance engagement with Society
2	Diverse Student learning environment
3	Enhance engagement with Industry
4	Improve internal support systems
5	Enhance alumni engagement
6	Develop a cleaner and greener campus
7	Enhance Research Culture
8	Academic Autonomy and Industry Oriented Curriculum

File Description	Document
Upload Additional information	<a href="#">View Document</a>
Institutional perspective Plan and deployment documents on the website	<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:** B. 3 of the above



<b>File Description</b>	<b>Document</b>
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>
Annual e-governance report approved by the Governing Council/ Board of Management/ Syndicate Policy document on e-governance	<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:**

The institution understands and appreciates the efforts of its staff. It recognizes their hard work and acknowledges their needs and requirements. As a result the institution has a very strong welfare policy for its teaching and non-teaching staff.

Following are the welfare schemes available for teaching and non-teaching staff of the college:

#### **Continuing Education Programme (CEP)**

- Facility of Duty leave and on duty leave is provided to the faculties for attending the faculty development programs and conferences.
- Special leave is provided for pursuing research, Ph. D. and higher education.
- Facilities are provided for consultancy projects.
- Recognition of faculty members for achievements
- Conduction of conference/STTP/FDP for teaching staff.
- Conducting specialized computer awareness workshops, training workshop for non- teaching staff.

#### **Financial Aids**

- Financial assistance for attending seminar, conferences and publications of research papers in reputed journal.
- Under the Institutional Social responsibility, college provides the fee concession to the wards of employee.

#### **Welfare schemes**

- Employee provident fund facility is provided to staff.
- Group insurance scheme for staff.
- Maternity leaves for female staff.
- Centralize Xerox and canteen facility in subsidies rate..

**Recreation facility for the staff.**

- Annual sports meet for teaching and non teaching staff
- Annual social gathering

**Institution has Performance Appraisal System for teaching and non-teaching staff**

The institute has set procedure for Performance appraisal and Annual confidential reports laid down in Standing order. The head of the administration /registrar initiates the process at least 15 days before the due date i.e on or before 15th June.

The faculty members submit the duly filled performance appraisal forms to the verification committee at college level to verify the contents. The committee may suggest the modifications if required which may result in better appraisal. The forms are then submitted to reporting officer which are Heads of respective departments. After the evaluation of the forms by Heads of the departments with proper remarks the forms are forwarded to reviewing officer i.e. Principal of the College. The Principal has the authority to make some corrections if required in the heads of the department’s evaluation for betterment of faculty appraisal. Finally appraisal forms are submitted to Directors Office for further processing. The remarks of reviewed appraisal is communicated to the concerned person by head of the institute. The Principal and Head of the departments guides the concerned person on improvement in the areas identified for improvement.

A good performance management system works towards the improvement of the overall organizational performance of teams and individuals for ensuring the achievements of the overall organizational mission and vision. The Institute is following the appraisal scheme suggested by AICTE viz. Performance Based Appraisal System (PBAS). In this scheme, the performances are classified into three categories (i)Teaching, Learning and Evaluation related activities (ii) Co-Curricular, Extension and Professional Development related activities (iii) Research Publications and Academic Contributions. Further, at the end of each semester, feedback forms are issued to the students in the form of questionnaire and non-Teaching Staff are also assessed through annual confidential reports.

File Description	Document
Upload 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: 0****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**

2022-23	2021-22	2020-21	2019-20	2018-19
0	0	0	0	0

File Description	Document
Policy document on providing financial support to teachers	<a href="#">View Document</a>
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>
Audited statement of account highlighting the financial support to teachers to attend conferences / workshops and towards membership fee for professional bodies	<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: 71.59****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**

2022-23	2021-22	2020-21	2019-20	2018-19
57	63	67	62	76

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

2022-23	2021-22	2020-21	2019-20	2018-19
19	19	17	17	18

File Description	Document
Refresher course/Faculty Orientation or other programmes as per UGC/AICTE stipulated periods, as participated by teachers year-wise.	<a href="#">View Document</a>
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>
Annual reports highlighting the programmes undertaken by the 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:

Priyadarshini Bhagwati College of Engineering is a self-financed institution, where the funds are generated through the fees paid by the students. Deficit is managed by taking advance from the parent trust. These funds are utilized for the salary, infrastructure, maintenance, and research & development. The institute has a well-defined mechanism to monitor effective and efficient utilization of available financial resources for the development of the academic processes and infrastructural developments.

1. Institutional budget is prepared by Accounts Department every year taking into consideration of recurring and non-recurring expenditures.
2. Accordingly all the administrative and academic heads are requested to submit the budget required for the subsequent financial year.
3. All the major financial decisions are taken by the Director and Chief Accounts & Finance Officer with Management of college.
4. As and when urgent requirements arise it is given after sanctioned received from Chief Accounts Office.

All the major financial transactions are analyzed and verified under following sections.

- Research and Development
- Training and Placement
- Software and Internet Charges
- Library Books and Journals
- Repairs and Maintenance
- Printing and Stationary
- Equipment and Consumables
- Furniture and Fixtures

Financial Audit is conducted by the Chartered Accountant to verify the compliance. Vouching of all bank and cash transactions, Ledger scrutiny, analysis of fixed assets register, cash book, advance register, checking of bank reconciliation statement, scrutiny of all documents relating to purchase of fixed assets. Checking of TDS payment, EPF payment in due dates. TDS Profession tax return filing in due dates. Digital payment facility. Maintenance of Dead Stok Register, Verification of Cash in Hand, Consultancy Income Payments. Verification of monthly Salary Register including properly deduction of Profession tax, Income Tax and EPF. Reconciliation of Students Fee with Ledger. Timely payments of government authorities such as University, DTE, ARA, FRA, AICTE, Income Tax, Profession Tax, EPF, etc.

File Description	Document
Upload 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:**

Priyadarshini Bhagwati College of Engineering, Nagpur has embraced quality culture in Institutional functioning since its inception in the year 2007. To establish the standards in academics as well as in administration, it is essential to monitor functioning of various areas. IQAC of the college has been established since 03/02/2016.

The quality assurance mechanisms are framed in accordance with the requirements of National Assessment and Accreditation Council (NAAC). A qualitative methodological approach is included in the Internal Quality Assurance Cell (IQAC) of the institute to develop a system for conscious, consistent and catalytic action to improve the academic and administrative performance of the institution.

In general, IQAC monitors and mentors all the academic and administrative activities. IQAC in the

college, work towards imparting quality education and culture among the students. It reviews and continuously takes appropriate steps toward improving the quality of the teaching and learning process.

### **The main areas and responsibilities of IQAC are**

- Realizing the vision and mission of the institution
- Academic monitoring to ensure quality
- Academic results
- Students training in both technical and soft skills.
- Placement support
- Faculty development programme
- Research and development
- Industry interaction
- Arranging industrial visits and internship training to students.
- Redefining the goals and observing the attainment level.
- Collaborative initiatives

### **Quality Assurance Strategies and Processes:**

- Outcome based education, Course Outcomes and their refinement.
- Implementation of CBCS from Academic year 2020-2021
- Participation in NIRF Ranking process.
- Collaboration with Industries and Institute
- Established Institution Innovation Council (IIC) for enriching Innovation and entrepreneurship development.
- Installation of various clubs at college level like Innovation club, Robotics Club, English Club, Go kart club. Electoral Literacy club, etc
- Feedback collection from stakeholders, Analysis, and action-taken reports are prepared every year for continuous improvement
- Assessing the quality parameters and providing required suggestions for the improvement.
- Continuous monitoring of academics throughout the session
- Conduction of remedial classes and crash courses for slow learners
- Conduction of bridge courses, value added courses and certificate courses for students skill development
- Conduction of Induction and Orientation Programme for newly admitted students in true spirit
- Conducting seminars / workshops, FDPs on emerging technologies.
- Conducting Guest Lectures from Industry/Experts.
- Arranging regular training programs/workshops for students
- Encouraging R&D and Consultancy.
- Action plan for enhancing quality of student projects (outcome based approach)
- Evaluation of students projects by industry experts
- IQAC holds regular meetings to discuss quality initiatives, procedures, evaluation, and offer suggestions to the institute at various levels.
- Conduction of Academic Audit, Green Audit, Electric Audit and Environment Audit and inputs are given for further improvement.
- Efforts for Holistic Development of Students and Social Extension activities.
- Conduction of various co and extracurricular activities for overall development of students.
- Under the student mentoring scheme around 10 to 15 students are allotted per teacher mentor, to

review the academic performance of the student as well as for moral support.

File Description	Document
Upload 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>
List of Collaborative quality initiatives with other institution(s) along with brochures and geo-tagged photos with caption and date.	<a href="#">View Document</a>
Link to Minute of IQAC meetings, hosted on HEI website	<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:**

PBCOE is committed to provide equal opportunities to both the genders in terms of admissions, employment, empowerment, leadership, training programs and sports/ cultural activities. Women Cell is constituted to empower and safeguard the rights of female members. It provides women with opportunities to grow in their leadership capabilities to build professional skills and participate in important administrative roles. Various awareness programs are organized as part of their personality development.

- Grievance Redressal Cell:-(GRC) exists at college to address the complaints filed by students and faculty members.
- Internal complaints committee promote measures aimed at achieving gender equality. Various committees exist as per the guidelines to ensure gender equality, elimination of ragging, anti-discriminatory behavior and to prevent any kind of harassment. The committees address the received complaints from the students and staff of the college, by holding meetings as and when necessary.
- Anti-Ragging committee takes care of the well-being of all the students, and mainly the freshly admitted students during their initial period of study in the campus, to ensure a fair and free learning ambience for all boys and girls admitted to the various programs. Gender sensitization action plan is worked out in general, each year, by taking care of various issues, in respect of girl students, such as safety, security, counseling, and any other relevant information as suggested through the feedback received in this regard from all the stake holders. The Institute has on campus with CCTV surveillances and 24/7 security personnel. The campus is very much safe for academic living, especially for girl students, with the security personnel taking utmost care of their safety throughout the year. Eminent speakers are invited regularly to provide insight to the students and staff pertaining to gender equality.
- The institute encourages equal participation in cultural and festival promotions, NSS activities, survey Camp, Ganesh festival and outreach programs.
- CCTV cameras are installed at important locations for continuous surveillance of the premises of the college campus. Security guards are positioned at the entrances for the safety and security of all students, employees, and visitors, especially women
- A female counsellor visits the college and attends to psychological challenges faced by students. Apart from this, there is a provision of batchwise guardian teacher for students.
- During study tours, lady staff accompany girl students.
- All the Student are provided with identity cards to ensure safe entry in institute and the detail on the identity card like blood group, phone number and address help them in any critical situation.



- The college provides medical support to students experiencing any kind of health issues.
- Women Cell organizes seminars for the girl students and women faculty members to generate awareness about legal rights for women and girls.
- Sanitary Napkins' Vending machine available for girl students for hygiene purpose.
- In various college committees almost equal representation is given to male and female genders.
- In technical, cultural and sports events girl students are specially encouraged to participate.

File Description	Document
Upload 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
Policy document on the green campus/plastic free campus.	<a href="#">View Document</a>
Geo-tagged photographs/videos of the facilities.	<a href="#">View Document</a>
Circulars and report of activities for the implementation of the initiatives document	<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

File Description	Document
Report on Environmental Promotional activities conducted beyond the campus with geo tagged photographs with caption and date	<a href="#">View Document</a>
Policy document on environment and energy usage Certificate from the auditing agency	<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>

#### 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:

Our Institute always puts effort into creating harmony between society and culture to reduce inequality. The institute has organized various activities during the last five years. For conservation and preservation of culture, the institute organized various cultural activities. On the occasion of “Amrutum” Annual Social gathering, the institute encourages the students to perform different art forms like Folk, Mythological Drama, singing, Traditional show etc.

In ‘Ganesh festival’ the institute organized, Rangoli, Singing competition and various other activities. Student forum of various departments organised various social activities for students to sensitized the students about social issues. The institute organized Marathi Bhasha Din to emphasise the importance of regional language. The institute provides concession in fees for economically backward students. The Institute also provides book bank facility in the library for economically backward and SC/ST/OBC students. Scholarship committee guides and encourages the students to apply for the scholarships. The Institute organized different activities and guest lectures on Gender equality and awareness. The institute organized ‘Voters Awareness Rally’. The Institute takes care of the students coming from villages in nearby areas. The institute sensitizes the students and employees regarding constitutional obligation Values, Rights, Duties and responsibilities of citizenship. During the last five years, the Institute organized various activities through-out the years.

Constitution Day was celebrated on 26th Nov 2022. On this occasion, group reading of preamble was conducted. National Voter Day (Voter Awareness program) was celebrated by organizing guest lecturers of government authority. Campaign for new voter registration and distribution of new voter cards was conducted on 25th January. 23rd March is celebrated as Shahid Din, on this occasion blood Donation camp, poster presentations on freedom fighters was organized on. Under the NSS cell seminar on “Vyasan Mukti” was organized on antitobacco day. The institute also organized world yoga day and

World environment day. 15th August and 26th January are celebrated in college with great enthusiasm to inculcate National Spirit in students and staff. Various commemorate days are celebrated throughout the year Mahanirwan Din, Savitribai phule jayanti, Lokmanya Tilak Jayanti, Shiv Rajyabhishek Din, Birth Anniversary of Rangnathan etc.

<b>File Description</b>	<b>Document</b>
Upload 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:**

1	Title of the Practice- 1	Academic Preview and Academic Review
2	<b>Objective</b>	<p><b>Academic Preview:</b></p> <p>To assess the academic preparedness of faculty for effective curriculum delivery. (Plan)</p> <p>To verify and validate components of Academic Administration Plan (AAP), and ensure its completeness by a panel of experts.</p> <p><b>Academic Review:</b></p> <p>To verify the Course Files compiled by faculty members for their respective courses. (Do &amp; Check)</p> <p>To assess the proper implementation of AAP, to suggest remedial actions and corrective measures if any. (Check</p>

		<p>&amp; Act)</p> <p><b>Underlying principle of this practice:</b></p> <p>Preparation is the key to success (Academic Preview); feedback is the key to continuous improvement (Academic Review).</p>
<p>3</p>	<p><b>The Context</b></p>	<p>An effective Teaching and Learning Process is implemented in the college with the following objectives:</p> <ul style="list-style-type: none"> <li>• To promote higher order of Thinking.</li> <li>• To achieve the expected learning Outcomes, and</li> <li>• To create a positive learning Experience for Students</li> </ul> <p>The four Steps Process for Effective Teaching Learning and reviews to analyze outcome</p> <p><b>1. Expectation</b></p> <p>a. Content for setting expectation</p> <p>b. Delivery of expectation set</p> <p><b>2. Teaching Content</b></p> <p>a. Development of teaching content</p> <p>b. Execution/ Delivery of teaching content</p> <p><b>3. Evaluation</b></p> <p>a. Evaluation content preparation</p> <p>b. Evaluation Execution</p> <p><b>4. IQAC Action</b></p>

		<p><b>Knowledge Review (K Review):</b> Reviews overall learning outcomes and higher-order thinking</p> <p><b>Process Review (P Review):</b> Reviews learning experience with blended learning, flip classroom and virtual labs.</p> <p><b>HoD Review (H Review)</b> Reviews K and P reviewer feedback and submit retrospective view about the entire process</p>
4	<p><b>The Practice</b></p>	<p>PBCOE also believes in this philosophy and has therefore initiated Academic Preview and Review Processes in 2020-21 during Covid Pandemic to help set benchmarks for quality professional education and to streamline curriculum delivery.</p> <p><b>Academic Preview:</b></p> <p>As “Well begun is half done”, PBCOE has introduced Academic Preview which contributes to meticulous planning and use of appropriate academic resources for effective course delivery. It is carried out in three stages:</p> <p>Stage 1: Faculty prepares all documents as per check list provided by IQAC</p> <p>Stage 2: Faculty then submits action plan for curriculum implementation and to address gap</p> <p>Stage 3: HOD verifies and validates the academic preparedness and prepares annual academic activity calender.</p> <p><b>Academic Review:</b></p>

		<p>Academic Review is an evaluation of the implementation of AAP. Faculty appears for the Review process with respective Course File that contains well-documented proofs of all predefined items along with duly filled in formats circulated by IQAC. It is carried out in three stages:</p> <p>Stage 1: Faculty submits standardized self-evaluated Review form to HOD. HOD validate the information at the Department level and the same is forwarded to the IQAC</p> <p>Stage 2: The IQAC Audit team verifies the contents in the Review Form, Course File, Lab Manuals based on guidelines.</p> <p>Stage 3: Report is submitted to the Principal and feedback is communicated to the faculty.</p>
5	<b>Evidence of success</b>	<ul style="list-style-type: none"> <li>• Innovative teaching learning styles</li> <li>• Development of E-learning resources</li> </ul>
6	<b>Problems Encountered and Resources Required</b>	<ul style="list-style-type: none"> <li>• Designing and developing of Academic Preview and Review process</li> <li>• Preparation of Course File comprising predefined items</li> </ul>
1	<b>Title of the Practice- 2</b>	<b>Holistic development of students through Social Activities</b>
2	<b>Objective</b>	<ul style="list-style-type: none"> <li>• To sensitize students about the importance of serving society through their selfless service.</li> <li>• To help the students find practical solutions to individual and community problems,</li> <li>• To develop the competence</li> </ul>

		required for group living and sharing responsibilities, and gain skills in mobilizing community participation.
3	<b>The Context</b>	NSS sensitizes the student on various Social issues. National Service Scheme (NSS) initiates many programs through which students who are socially aware realize that one of their prime responsibilities is to serve the society. Along with academic, social and personal life, the NSS allows the students to furnish services to the community and the Nation. The NSS unit of institute provides the students a platform to get involved with real life activities and thereby become responsible citizens of India. The NSS Unit of the College, under the effective leadership of the NSS Program officer is actively engaged in a variety of activities throughout the academic year.
4	<b>The Practice</b>	The NSS unit starts its activities at the beginning of the academic session with the full support of our NSS volunteers and under the leadership of the programme officer. NSS Volunteers learn how to work with people in rural communities to raise awareness about blood donation, hygiene, and disease prevention. NSS volunteers conducted a wide range of activities like a cleanliness program, surveys, the observance of important days, and an awareness campaign. The overall aim of our institute's NSS programmes is to promote a knowledge-based society. NSS Volunteers took part in the Swatch Bharat Mission Programs and took steps to keep the campus clean. The Swatch Bharat Mission

		<p>cleanliness drive on the college campus was led by volunteers, with assistance from the principal, teacher, students, and staff members. Volunteers also interacted with the nearby residents to maintain cleanliness and hygiene. The NSS volunteers organised tree plantation drive inside and outside the college campus.. A Plastic Awareness Campaign was held to sensitise the public, through placards and the chorus messages of NSS volunteers, to harm of using plastic, especially single-use plastic bags. Students conducted various programs like Road plays in important issues, Visit to Deaf and dumb school and mentally challenged school, computer awareness programs for schools in nearby localities.</p>
5	<b>Evidence of success</b>	<p>The participating students appeared more sensitised to their surroundings and were motivated to participate in other social activities, like blood donation camps, medical camps, vaccination drives, etc., conducted by the college. The organizational skills among the students appeared to be enhanced while coordinating and conducting special camps in the surrounding areas. The National Service Scheme's main result is that it helps students develop a democratic attitude and the confidence to become leaders. The NSS is part of our academic, social, and personal lives as it is the third dimension of education.</p>
6	<b>Problems Encountered and Resources Required</b>	<ul style="list-style-type: none"> <li>• High expectations of society from the NSS volunteers.</li> <li>• Lack of self discipline and responsibility among students.</li> </ul>



File Description	Document
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:**

**Experiential and Project based learning of students through design, innovation and fabrication of Go kart in College workshop.**

**Context:** Our Institute always give stress on experiential, participative and project based learning. The experiential and project-based learning offer numerous benefits, including active engagement, practical application, critical thinking, real-world relevance, collaboration, integrated learning, and self-directed learning. Students who participate in experiential learning feel empowered to use their knowledge and skills in contexts that will aid in their career development. Experiential learning also provides individuals with transferrable skills such as creativity, innovation, team collaboration, problem-solving, and critical thinking.

**Objective:**

- To inculcate the habit of learning by doing process.
- To engage students in hands-on experiences and reflection.
- To connect theories and knowledge learned in the classroom to real-world situations.
- To imbibe team work and leadership sprit.

**Practices**

**In the year 2018**, our students embarked on a truly impressive venture by constructing a Go-Kart from scratch. This Endeavour was a testament to the team's dedication and ingenuity, as they meticulously assembled this marvel using a diverse range of raw materials and an assortment of components sourced from our college workshop. The year 2018 was a year of distinction for MECHEETAH. Not only did they breathe life into the Go-Kart, but they also participated in the highly competitive National Level Go-Kart Competition 2018, which took place in Coimbatore and Hyderabad. In these prestigious competitions, MECHEETAH displayed their prowess, determination, and exceptional teamwork, ultimately securing an impressive **5th position in National level competition 2018**. In an era where the landscape of education is evolving at a rapid pace, it is the dedication, determination, and achievements of our students that define our institution.

**In the year 2019**, the MECHEETAH team once again ventured into the exhilarating world of

engineering and competition by participating in the National Level Go-Kart Competition 2019. In this remarkable year, the MECHEETAH team showcased not only their unwavering commitment but also their ever-evolving skills and innovation. Against fierce competition, they reached new heights by securing the **3rd position in the national competition 2019**. It is a rare occurrence when a team not only consistently participates in challenging competitions but also consistently excels, all while maintaining their self-reliance. This remarkable journey demonstrates that our institution is a breeding ground for innovation and unwavering determination.

In continuation to this in 2019 our indomitable MECHEETAH team yet again took the centre stage at the National Level Go-Kart Competition. This year marked a new zenith in the MECHEETAH journey. Their unwavering commitment to innovation and continuous improvement propelled them to an astonishing achievement - they secured the **second position in the fiercely competitive national competition 2020**.

**In the year 2023**, a remarkable chapter was penned by the students of the Mechanical and Information Technology Departments. Their unwavering commitment to innovation and their relentless pursuit of excellence led to the creation of a groundbreaking Go-Kart, laden with new and visionary innovations. This Go-Kart was more than just a vehicle; it was a testament to the limitless potential and ingenuity that thrives within our institution. The crowning glory of this journey was the team's participation in the **esteemed RACY Academe, a National Level Go-Kart Event held in Coimbatore from 01/02/2023 to 02/02/2023**. The result was nothing short of extraordinary; the MECHEETAH team secured the **prestigious Runner-up position in National Level Go-Kart competition 2023**. The MECHEETAH team clinched a total of five coveted prizes at the event. These prizes include:

- 1) **Overall Runner-up:** An acknowledgment of their all-encompassing excellence, from innovation to execution.
- 2) **Best Business Plan:** Demonstrating their strategic vision and understanding of market dynamics.
- 3) **Best Innovation:** A recognition of their groundbreaking and revolutionary concepts.
- 4) **Best Build Quality:** A testament to their engineering prowess and dedication to perfection.
- 5) **Best Faculty:** Acknowledging the invaluable guidance and mentorship received from our exceptional faculty.

In continuation the remarkable MECHEETAH team extended their legacy of excellence by participating in the highly competitive GOKART competition - the **EDGELINE CHAMPIONSHIP, held from 17/02/2023 to 19/02/2023 in Pune**. The result was **A well-deserved 3rd position in the competition**. The MECHEETAH team, with their innovative approach and exceptional dedication, clinched four distinguished prizes, including:

- 1) **Endurance Runner-up:** A testimony to their determination and their Go-Kart's ability to withstand the test of time.
- 2) **Overall 2nd Runner-up:** A reflection of their consistent brilliance in an array of categories.
- 3) **Valuable Participation:** An acknowledgment of their impactful presence and contribution to the

competition.

**4) Best Innovation:** A recognition of their forward-thinking ideas that continue to revolutionize Go-Kart design.

**5) Dronacharya Award:** A reflection of the mentorship and guidance provided by our exceptional faculty.

Further MECHEETAH was selected to participate in the **highly esteemed GKDC National Level Go-Kart Competition**, a beacon for budding engineering talents. This grand event took place from **10/04/2023 to 14/04/2023 at Kari Motors, Coimbatore, Tamil Nadu**, and it drew participants from across the nation. The team received a standing ovation-worthy performance! MECHEETAH secured not one but two highly prestigious awards at the competition. The **"Best Team Award"** is a reflection of their seamless teamwork, determination, and a spirit of unity that sets them apart. It is an acknowledgment of their ability to work harmoniously, showcasing the ideal team spirit and resilience needed for success. The **"Skidpad Award"** is a testimony to their profound understanding of vehicle dynamics and stability, a critical facet of Go-Kart engineering. It speaks to the core ethos of our institution, where students are not only encouraged to dream but also to relentlessly chase those dreams, regardless of financial challenges.

The outcome of this activity is in 2023 our students established GO Kart Innovation Workshop in the college campus which proves to be the centre of attraction to all newly admitted students.

MECHEETAH is a shining example of what can be achieved when passion meets perseverance, when innovation meets dedication. While celebrating this incredible achievement, we are looking forward to even more remarkable feats in the future, inspiring and nurturing the next generation of innovators and engineers.

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

## 5. CONCLUSION

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### Additional Information :

- Our Institute always give stress on experiential, participative and project based learning. The experiential and project-based learning offer numerous benefits, including active engagement, practical application, critical thinking, real-world relevance, collaboration, integrated learning and self-directed learning. Experiential learning also provides individuals with transferrable skills such as creativity, innovation, team collaboration, problem-solving, and critical thinking.
- The institution has Institution Innovation cell (IIC)
- Since more than 5 years, Department of Mechanical Engineering and Information & Technology Engineering has established a special laboratory 'GO Kart Innovation Workshop' for developing Gokart and students have participated in various competition at National level and bagged various prizes.
- The Institution have a valid ISO 9001:2015 and ISO 14001:2015 certificates.
- Being situated in Nagpur city, we have always been well connected to local industries and is lot easier for our students to take internships.
- We engage our students in various activities to become lifelong learners, ICT skills are taught so that everyone is up to date on the newest developments in technology. To improve faculty and student ICT proficiency, the institution is hosting a number of programs.
- Our institution is situated in the heart of city. It is very green and peaceful campus suitable place for study.

### Concluding Remarks :

Priyadarshini Bhagwati College of Engineering, Nagpur has earned good name for its academic discipline during its journey of 16 years. Our educational programs begin with traditional coursework, but we place more of a focus on self-study, industry connections, partnerships, and communication skills and training. Priyadarshini Bhagwati College of Engineering works to produce responsible citizens of the nation and engineers who are committed to society. With its ability to adapt quickly to changing academic conditions, our college is well-positioned to meet new challenges in education. Our students could achieve success in academics as well as in their post-graduation assignments only because of our teaching methodologies, experimental and participative learning, industry institute interaction, training provided at college level. The college has been updating its infrastructure and amenities on a constant basis. Our alumni have also extended their support in student development process. The establishment of an Internal Complaints Committee (ICC) in accordance with UGC rules is another crucial area of concentration for the institution. Its purpose is to handle any complaints of sexual harassment of students and staff and to guarantee their safety and security while on campus. The institute organizes environment-based activities to create holistic consciousness among students and staff. Our stakeholders are happy with the academic environment in the campus.

## 6.ANNEXURE

### 1.Metrics Level Deviations

Metric ID	Sub Questions and Answers before and after DVV Verification																				
1.2.1	<p><b>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)</b></p> <p>Answer before DVV Verification :</p> <p>Answer After DVV Verification :49</p> <p>Remark : DVV has made changes as per the report shared by HEI</p>																				
1.2.2	<p><b><i>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</i></b></p> <p>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</p> <p>Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2022-23</th> <th>2021-22</th> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> </tr> </thead> <tbody> <tr> <td>880</td> <td>690</td> <td>664</td> <td>654</td> <td>590</td> </tr> </tbody> </table> <p>Answer After DVV Verification :</p> <table border="1"> <thead> <tr> <th>2022-23</th> <th>2021-22</th> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> </tr> </thead> <tbody> <tr> <td>680</td> <td>690</td> <td>664</td> <td>654</td> <td>590</td> </tr> </tbody> </table> <p>Remark : DVV has made changes as per the report shared by HEI</p>	2022-23	2021-22	2020-21	2019-20	2018-19	880	690	664	654	590	2022-23	2021-22	2020-21	2019-20	2018-19	680	690	664	654	590
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1.4.1	<p><b><i>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</i></b></p> <p>Answer before DVV Verification : A. Feedback collected, analysed, action taken&amp; communicated to the relevant bodies and feedback hosted on the institutional website</p> <p>Answer After DVV Verification: C. Feedback collected and analysed</p> <p>Remark : DVV has made changes as per the report shared by HEI</p>																				
3.2.2	<p><b><i>Number of workshops/seminars/conferences including on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship conducted during the last five years</i></b></p> <p>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</p> <p>Answer before DVV Verification:</p>																				

2022-23	2021-22	2020-21	2019-20	2018-19
29	13	03	04	03

Answer After DVV Verification :

2022-23	2021-22	2020-21	2019-20	2018-19
1	1	1	1	1

Remark : DVV has considered the value and considered 1 as no relevant supporting is provided by the HEI.

**3.3.1 Number of research papers published per teacher in the Journals notified on UGC care list during the last five years**

**3.3.1.1. Number of research papers in the Journals notified on UGC CARE list year wise during the last five years**

Answer before DVV Verification:

2022-23	2021-22	2020-21	2019-20	2018-19
18	09	12	11	02

Answer After DVV Verification :

2022-23	2021-22	2020-21	2019-20	2018-19
1	0	0	0	0

Remark : DVV has made changes as per the report shared by HEI

**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**

Answer before DVV Verification : A. All of the above

Answer After DVV Verification: B. 3 of the above

Remark : DVV has made changes as per the report shared by HEI

**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)**

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

Answer before DVV Verification:

2022-23	2021-22	2020-21	2019-20	2018-19
30	22	6	21	23

Answer After DVV Verification :

2022-23	2021-22	2020-21	2019-20	2018-19
22	17	5	20	22

Remark : DVV has made changes as per the report shared by HEI

6.2.2 ***Institution implements e-governance in its operations***

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

Answer before DVV Verification : A. All of the above

Answer After DVV Verification: B. 3 of the above

Remark : DVV has made changes as per the report shared by HEI

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**

**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**

Answer before DVV Verification:

2022-23	2021-22	2020-21	2019-20	2018-19
32	23	21	29	27

Answer After DVV Verification :

2022-23	2021-22	2020-21	2019-20	2018-19
0	0	0	0	0

Remark : DVV has made changes as per the report shared by HEI

**2.Extended Profile Deviations**

**Extended Profile Deviations**

No Deviations