



SELF STUDY REPORT

FOR

2nd CYCLE OF ACCREDITATION

BHARATI VIDYAPEETH'S COLLEGE OF ENGINEERING KOLHAPUR

**BHARATI VIDYAPEETHS COLLEGE OF ENGINEERING, KOLHAPUR. NEAR
CHITRANAGARI, MOREWADI, KOLHAPUR**

416013

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Submitted To

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

BANGALORE

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1. EXECUTIVE SUMMARY

1.1 INTRODUCTION

Bharati Vidyapeeth is an esteemed organization with well-defined ideological orientation and commitments. Founder of Bharati Vidyapeeth Hon'ble Dr. Pantangraoji Kadam has very aptly coined motto of Bharati Vidyapeeth as "**Social Transformation through Dynamic Education**". During the last 59 years, Bharati Vidyapeeth has made astonishing strides in the field of education. Today, Bharati Vidyapeeth runs more than **190** educational units right from pre-primary schools to post-graduate institutions and full-fledged professional 'Bharati Vidyapeeth (Deemed to be) University, Pune. The prime campuses of Bharati Vidyapeeth are located in New Delhi, Navi Mumbai, Pune, Solapur, Kolhapur, Sangli and also overseas.

Bharati Vidyapeeth's College of Engineering, Kolhapur was established in year 2001. It is approved by AICTE, New Delhi and affiliated to Shivaji University, Kolhapur. The campus is spread over 10 acres of land with a beautiful landscape maintained to refresh the mind of the students and teachers which provides a good teaching learning environment. It has spacious buildings with necessary amenities such as Library with reading room, digital library, journal access to students and faculty, Canteen, Auditorium, well equipped and furnished laboratories, Internet connection, Play ground and other needed amenities.

The college offers five U.G. programmes namely Civil Engineering, Computer Science & Engineering, Electronics & Telecommunication Engineering, Mechanical Engineering, Computer Science & Engineering (Artificial Intelligence & Machine Learning) along with three P.G. programmes namely Computer Science & Engineering, Electronics & Telecommunication Engineering and CAD/CAM/CAE. It also offers three diploma programmes i.e. Civil Engineering, Computer Engineering and Mechanical Engineering

The college is committed to groom future visionaries and leaders by imparting knowledge that has a blend of academics, practical training and overall personality development. The strength of college lies in the excellent infrastructure with qualified and experienced faculty, commitment to personal attention, motivation to excel in academic and extra- curricular activities and also continuous interaction with industries and outside world.

It also promotes a culture of research among the faculty and students by conducting various research activities. Faculty guides students to do innovative research based projects.

The NAAC has accredited this college with 'A' grade in October 2017.

Vision

Social Empowerment through Technical Education

Mission

1. To achieve excellence in teaching, learning and research.
2. To nurture the students for professional career and lifelong learning.
3. To develop a multidisciplinary campus for serving the society.

4. To inculcate ethical & social values among the students.

1.2 Strength, Weakness, Opportunity and Challenges(SWOC)

Institutional Strength

- Prudent and proactive leadership and management
- Well qualified, experienced and dedicated faculty
- State-of-the-art infrastructure with clean and green campus
- Student centric curriculum with CBCS, Quality education at affordable cost with emphasis on rural students
- Promotion of Value added programs for holistic development of students

Institutional Weakness

- Average quality student input
- Limited consultancy and collaboration due to exiguous presence of industries and R&D organizations in the proximity of the institution
- Inadequate industry driven research

Institutional Opportunity

- To increase involvement of industry in Curriculum planning
- To Enhance employability of students
- To transform into an Autonomous institute
- To increase peer reviewed journal publication (Scopus, citation index, impact factor, h-index)

Institutional Challenge

- To attract more number of national and international companies for placements.
- To attract students towards traditional engineering courses in the wake of declining student interest.
- Recession in employment potential for the graduates in core areas of engineering.

1.3 CRITERIA WISE SUMMARY

Curricular Aspects

The college has a clear vision for learning, research, and extension and looking towards the vision of the college, to be an instrument of change for peace, progress, and prosperity for all. The college makes every effort to realize its mission of developing competent human resources through quality education, by creating an innovative educational environment and promoting creativity to develop skilled human resources. To provide better chances for distributing available educational opportunities, the college has made efforts to diversify the courses in tune with the diversifying interests and career opportunities. The college provides opportunities for better exposure to the students by conducting value-added courses. However, it is pertinent to mention that

the college is supposed to teach the curricula designed by the affiliating university and the college makes efforts for curriculum improvement through its representatives participating in boards of studies meetings who provide suggestions and inputs for revision of the syllabi in the respective program. The IQAC department of the college looks after the effective implementation and timely completion of prescribed syllabi in various disciplines.

The following aspects deserve mention:

- Strict adherence to the Academic Calendar
- Formatting Department time-table
- Conducting value-added courses
- Conducting events that enhance human values, and ethics among students
- Taking feedback from the stakeholders

Teaching-learning and Evaluation

The faculty in the college balance teaching and research. Students who studied in a regional medium are provided free coaching to improve their written and spoken English skills. Teachers combine traditional teaching methods with use of modern teaching aids. Faculty prepare lecture plans and also maintain a weekly log of what was actually transacted in the classroom. Feedback is obtained from students to ensure that teaching is student-centric. The Internal Quality Assurance Cell conducts quality audit and conducts programmes for improving the quality of teaching. Remedial classes are organized for students who have problems coping with the class work. ICT is used to ensure 24x7 learning environment. In addition to the core courses, the students enrolled in programmes under the Choice Based Credit System (CBCS) are offered a range of optional courses, both within their respective departments as well as in other departments. To cultivate broad intellectual outlook, students are required to enroll every semester for one course unrelated to their major area of study. The Evaluation process is transparent. Many of faculties as well as students are participating in workshops, seminars, lectures etc.

Research, Innovations and Extension

Faculty members are encouraged to actively involve themselves in research and consultancy work to carry out societal impact and interdisciplinary projects by receiving Rs.5.208 lakhs research grants from two government & seven non- government funding agencies in the last four years. All India Council for Technical Education has sanctioned an amount of 2.33 lakhs under Modernization and Removal of Obsolescence (MODROBS). Institute organizes National conference for promotion of research atmosphere and encourages faculty and students to involve in presentations/publications. The institution provides platform for active interaction between faculty, students and eminent researchers through invited lectures. Many faculties have published textbooks, book chapters and research articles. Number of papers has been published by the faculty in peer reviewed journals in past five years which are indexed in Scopus, Web of Science and UGC Care list.

An extension activity is for the higher education system to orient the student youth to community service while they are studying in education institutions. Students are made aware of the moral and social obligations through the NSS units. Programs like tree plantation, swachh bharaat, blood donation camps, Environmental Awareness workshops, teaching underprivileged, Medical camps etc. are organized in addition to technical exhibitions. Twenty four programs were conducted in the last five years. Approximately 1288 students participated in such activities. Rehabilitation work after heavy rainfall and flood, distributed Note book to village children on occasion of Birthday of founder are some major activities carried out by the Institute with help of NSS unit.

The Institution has several collaborations/linkages with industry and signed memorandum of understanding for faculty exchange, student exchange, internship, field trip etc. during the last five years.

Infrastructure and Learning Resources

The college adheres to the norms provided by AICTE and university to provide infrastructure and facilitate effective teaching and learning. The college offers student centric education. The college management is devoted towards development and continuous improvement of infrastructure facilities such as Library with reading room, digital libraries, free journal access to students and faculties, Canteen, Auditorium, Computer labs with Internet connection, well equipped and furnished laboratories, Playground, Yoga centre, Gymnasium, amenities to boys as well as girls.

- The college has sufficient number of well-furnished, well ventilated, spacious classrooms, seminar halls, tutorial rooms, drawing halls and laboratories.
- A separate playground of 6500 sq m. area is provided in college campus which is used for various outdoor games as well as inter-class, inter-college and university level sport competitions.
- The college has separate communication skills laboratory provided with computers and audio system.
- The college is situated in an area of 10 acres. The total built up area of all the buildings is 14600 sq m.
- The college has taken care of physically disabled students. In this regard wheelchair, ramps and lifts have been provided in the main building.
- G+3 hostel facility is available for boys in college campus. MOU's are signed with local hostels for Girls accomodation near to campus.
- The College has well-stacked Central Library with fully automated E-Granthalaya software having both print and digital resources. Library has OPAC system connected through LAN to all the departments. Also, library has subscription to E-Journals and NPTEL Video Lectures.
- Internet service is available for both faculty and students in the campus also LMS facility is available.
- Classrooms are equipped with the LCD projector and digital smart boards which makes the learning very interesting and easy to understand the concepts. Each department is having a separate seminar hall for the seminar and final project presentation.
- Sufficient budget is allocated for Maintenance of Physical and Academic support facilities.
- NSS unit with 100 volunteers, affiliated to Shivaji University, Kolhapur.
- Decentralized waste water treatment plant having capacity 50000 liters per day is installed in the premises.

Student Support and Progression

Once admitted in the college, the students are taken care of by providing various facilities in the form of indoor and outdoor sports facilities, encouragement for participation in co-curricular activities, besides supporting deserving students with financial assistance. The eligible students are provided with all types of the state government scholarship schemes and Fee concession by Bharati Vidyapeeth, Pune to support the education of poor and needy students. The college has activated the Training and Placement Cell for career counseling, entrepreneurship development, and placement, for guiding students towards a bright career and providing job

opportunities through campus interviews with the support of prospective employers visiting this institution for placement of students. The college has a registered Alumni Association that creates and maintains a lifelong connection between the college and alumni. This Alumni Association brings all these outstanding people together on a single platform. Many of our students have gone for higher studies leading to M.S.,M.Tech,Ph.D and MBA degrees.

Governance, Leadership and Management

The vision of the college emphasizes on imparting quality education and involves all its stakeholders in the decision-making process. The college promotes decentralization and involvement of staff in various administrative and academic activities. E-Governance solution in the field of educational sector has changed the way of administration. The solution incorporates whole data and processes of an educational Institution into a unified system, making the process simple, well-organized and error free. The solution is designed to make the system user-friendly, time saving and cost saving also. E-Governance helps in improving transparency, providing speedy information, dissemination, improving administrative efficiency and public services in all the aspects of education. The college has software for student documents and data management system in which we can centrally create and maintain student's data with their documents. The college provides welfare measures such as Provident fund, gratuity, Medical leave etc. to all Faculty and Staff members. Faculty members are encouraged to contribute and attend workshops, conferences, seminars, and FDPs, etc. All the faculty, staff and students have been covered by an insurance policy. The college organizes professional development/administrative training programs every year for the development of faculty members. The faculty is provided with financial support for such programmes. College has well defined Performance Appraisal system. The college conducts internal and external audits regularly.

The college has active and vibrant Governance and Leadership policies which are pivotal for promoting and upholding the standards and quality. Internal Quality Assurance Cell (IQAC) has been established in 2013. IQAC is functioning as per the guidelines laid by NAAC for post accreditation quality sustenance and enhancement. It accelerates strategic overview of teaching-learning process.

Institutional Values and Best Practices

Gender sensitization and professional ethics courses are part of curriculum. Infrastructural facilities are developed to cater need of all genders and Divyangjan. Counseling facilities and common room is provided to female students with adequate safety and security and the campus is monitored through CCTV surveillance. Installed sanitary napkin incinerators as well as sanitary napkin vending machine for the menstrual health and hygiene of the girl students. Internal Complaints Committee (ICC) organizes awareness program for ladies. Since its inception, the college has been very conscious about environmental and green initiatives. The rain water is diverted into harvesting percolation pits constructed at various locations in the contour plan of the campus. The campus is well covered with plants and greenery. College emphasizes on the generation and use of non-conventional energy. A 140KW grid tied solar plant is installed on the rooftop. College provides bus facility to students. The campus is maintained as plastic free campus and most intra as well as inter departmental communication is through email and electronic media.

The college through NSS and NCC has organized various programmes to address the local community and societal needs. Every year the institute organizes national festivals and birth and death anniversaries of the great Indian personalities viz. social reformers and freedom fighters. The institute conducts multiple extension activities like tree plantations, Swacch Bharat Abhiyan, blood donation camp etc. The students are empowered through educational and extra-curricular activities to be better citizens and leaders in fast –changing culture of

the country. Institute emphasizes on moral code of conduct for student and staff. The institute follows many best practices for students and staff. Some of the best practices includes 'Initiative for Multiskilling Students' and 'Nurturing Consciousness for Sustainable Environment'.

2. PROFILE

2.1 BASIC INFORMATION

Name and Address of the College	
Name	BHARATI VIDYAPEETH'S COLLEGE OF ENGINEERING KOLHAPUR
Address	Bharati Vidyapeeths College of Engineering, Kolhapur. Near Chitranagari, Morewadi, Kolhapur
City	Kolhapur
State	Maharashtra
Pin	416013
Website	coekolhapur.bharatividyaapeeth.edu

Contacts for Communication					
Designation	Name	Telephone with STD Code	Mobile	Fax	Email
Principal	Vijay Ram Ghorpade	0231-2638893	9657177171	0231-2636050	vijayghorpade@rediffmail.com
IQAC / CIQA coordinator	Jayamala Kumar Patil	0231-2638894	9850032933	0231-2636050	jayamala.p@rediffmail.com

Status of the Institution	
Institution Status	Private and Self Financing

Type of Institution	
By Gender	Co-education
By Shift	Regular

Recognized Minority institution	
If it is a recognized minority institution	No

Establishment Details	
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State	University name	Document
Maharashtra	Shivaji University	View Document

Details of UGC recognition		
Under Section	Date	View Document
2f of UGC		
12B of UGC		

Details of recognition/approval by stationary/regulatory bodies like AICTE,NCTE,MCI,DCI,PCI,RCI etc(other than UGC)				
Statutory Regulatory Authority	Recognition/Approval details Institution/Department programme	Day,Month and year(dd-mm-yyyy)	Validity in months	Remarks
AICTE	View Document	09-07-2022	12	

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

Location and Area of Campus				
Campus Type	Address	Location*	Campus Area in Acres	Built up Area in sq.mts.
Main campus area	Bharati Vidyapeeths College of Engineering,Kolhapur. Near Chitranagari, Morewadi, Kolhapur	Rural	10	14600

2.2 ACADEMIC INFORMATION

Details of Programmes Offered by the College (Give Data for Current Academic year)						
Programme Level	Name of Programme/Course	Duration in Months	Entry Qualification	Medium of Instruction	Sanctioned Strength	No.of Students Admitted
UG	BTech,Mechanical Engineering	48	10+2 years with Diploma of Vocation or passed 12th std. or equivalent vocational training with level 4	English	60	4
UG	BTech,Electronics And Telecommunication Engineering	48	10+2 years with Diploma of Vocation or passed 12th std. or equivalent vocational training with level 4	English	60	44
UG	BTech,Computer Science And Engineering	48	10+2 years with Diploma of Vocation or passed 12th std. or equivalent vocational training with level 4	English	60	60
UG	BTech,Computer Science And Engineering	48	10+2 years with Diploma of Vocation or passed 12th std. or equivalent vocational training with level 4	English	60	60

UG	BTech,Civil Engineering	48	10+2 years with Diploma of Vocation or passed 12th std. or equivalent vocational training with level 4	English	60	3
PG	Mtech,Mechanical Engineering	24	A candidate with 4 yrs. Bachelor(level 6.00)	English	6	0
PG	Mtech,Electronics And Telecommunication Engineering	24	A candidate with 4 yrs. Bachelor(level 6.00)	English	6	2
PG	Mtech,Computer Science And Engineering	24	A candidate with 4 yrs. Bachelor(level 6.00)	English	6	1

Position Details of Faculty & Staff in the College

Teaching Faculty												
	Professor				Associate Professor				Assistant Professor			
	Male	Female	Others	Total	Male	Female	Others	Total	Male	Female	Others	Total
Sanctioned by the UGC /University State Government	4				8				36			
Recruited	1	0	0	1	1	1	0	2	28	6	0	34
Yet to Recruit	3				6				2			
Sanctioned by the Management/Society or Other Authorized Bodies	0				0				26			
Recruited	0	0	0	0	0	0	0	0	19	7	0	26
Yet to Recruit	0				0				0			

Non-Teaching Staff				
	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				39
Recruited	37	2	0	39
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				0
Recruited	0	0	0	0
Yet to Recruit				0

Technical Staff				
	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				0
Recruited	22	0	0	22
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				0
Recruited	0	0	0	0
Yet to Recruit				0

Qualification Details of the Teaching Staff

Permanent Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	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.	1	0	0	1	1	0	7	0	0	10
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	22	5	0	27
UG	0	0	0	0	0	0	0	0	0	0

Temporary Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	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	19	7	0	26
UG	0	0	0	0	0	0	0	0	0	0

Part Time Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	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	1	2	0	3
UG	0	0	0	0	0	0	0	0	0	0

Details of Visting/Guest Faculties					
Number of Visiting/Guest Faculty engaged with the college?	Male		Female		Total
	1	2	0	3	
	1	2	0	3	

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	855	0	0	0	855
	Female	326	0	0	0	326
	Others	0	0	0	0	0
PG	Male	4	0	0	0	4
	Female	2	0	0	0	2
	Others	0	0	0	0	0
Diploma	Male	0	0	0	0	0
	Female	0	0	0	0	0
	Others	0	0	0	0	0

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	48	59	54	96
	Female	18	39	32	43
	Others	0	0	0	0
ST	Male	0	4	0	1
	Female	0	9	0	0
	Others	0	0	0	0
OBC	Male	103	169	103	151
	Female	48	48	26	46
	Others	0	0	0	0
General	Male	590	458	526	583
	Female	241	177	138	281
	Others	0	0	0	0
Others	Male	38	0	48	81
	Female	11	0	122	35
	Others	0	0	0	0
Total		1097	963	1049	1317

Institutional preparedness for NEP

1. Multidisciplinary/interdisciplinary:	a) Institution is currently affiliated to Shivaji University, Kolhapur. It is bound to the curriculum prescribed by the University. Institute is looking forward for short term certificate courses in collaboration with the University, along with the regular offered programs. Multidisciplinary and Interdisciplinary is integral to holistic education and has been integrated in the curriculum prescribed by the University. Students in Vth and VIth semester can opt for open electives from a wide spectrum of options offered by other programs. Students are encouraged to undertake multidisciplinary project in VIIth and VIIIth semester. To enhance multidisciplinary knowledge of students invited
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	<p>lectures and conferences, seminars, special talks are organized by departments. b) It offers the courses such as Professional Communication, Business English, Environmental studies, Democracy Elections and Good Governance. Institute has active NSS cells which encourages students to involve in the activities which integrates science and the curriculum for enriching integration of humanity and the curriculum through activities like social surveys, environment awareness through tree plantation, pollution free Ganesh Visrjan etc. c) Yes, the institute offer flexible and innovative curricula and provides Choice Based Credit System(CBCS). It offers courses such as Environmental studies at second year which also includes a small project based on environmental studies, community based projects at computer science and engineering program. d) Institution is affiliated to Shivaji University, Kolhapur. Currently, it is not offering multiple entry and multiple exit scheme. e) Institute offers B.Tech and M.Tech programs. The curricula includes research work in terms of project at final year of B.Tech and dissertation at second year of M.Tech. Students are encouraged to carry out project pertaining to satisfy the needs of industry and society. Students visit industry, medical institutes, conducts group surveys for understanding issues and challenges in society and puts efforts on providing appropriate solution. f) (1) Students of all courses can select electives from a wide spectrum of options offered by other departments.(2) In order to give students a wider exposure, institute organizes lectures, seminars, special talks, workshops at institute and department level .</p>
2. Academic bank of credits (ABC):	<p>a) Being affiliated to Shivaji University, Kolhapur, institute take initiatives along with the affiliating university regarding Academic bank of credits as proposed in NEP 2020. b) No, the institution has not registered under the ABC. In curriculum being taught currently, there are credits assigned to courses which are not transferable. c)As of now, institution has not made any collaboration, internationalization of education, joint degrees between Indian and foreign institutions. d) Faculty are encouraged to prepare teaching-learning material, assignments and assessment tools of their respective courses. Faculty has published books and chapter in books on various</p>

	<p>topics. e) Being affiliated to Shivaji University, Kolhapur, institute can implement Academic bank of credits (ABC) with the help of affiliating university.</p>
<p>3. Skill development:</p>	<p>a) Institution regularly organizes soft skill development seminars, workshops for the students which helps to strengthen student's skills. b) Currently institute is not providing any program which offers vocational education. c) Institution understands the importance of value-based education to inculcate positivity among the students. National and regional festivals are celebrated to inculcate constitutional and cultural values. Cultural activities are conducted on themes like communal harmony and human rights to develop humanitarian values. Values are practiced by students in activities related to cleanliness, hygiene by providing plastic free and green campus. Spiritual lectures/talks are conducted to raise students' spiritual quotient. Personality Development Course, expert talks on anti-ragging , sexual harassment prevention act etc. are organized which focuses on morality and character development of student, helps students to become self-aware, sincere, and successful in their many roles - as ideal student, reliable employee, caring family member, and responsible citizen. d) i. The institute is offering diploma, undergraduate and postgraduate courses in engineering. The syllabi are to improve the hardcore skills in the respective branch of engineering and also special efforts are taken to increase the soft skills of the students. ii. Institute regularly organizes seminars, workshops and trainings for students and faculty by industry experts. To bridge the gap between the industry and academia, value added courses are organized. iii. The institute offers both the blended and on campus value added courses to the students. iv. As of now, the institute is not associated directly with NSDC. However, the basic motto of skill development is fulfilled through university syllabus, value added courses and timely workshops on different topics. v. Institute plans and conducts skill development courses for students in online as well as offline mode. e) (1) Institute organizes workshops with more hands-on sessions to enhance programming skills of students. (2) Encouraging students for participation in technical and non-technical activities which enhances their presentation skills, leadership attitude, etc.</p>

<p>4. Appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using online course):</p>	<p>a) The Institute is planning to offers various courses in Regional language with the permission from Apex bodies. b) and c) Currently no degree course is taught in Indian languages in the institution. As per the Government initiatives Institute is ready to plan its moves in the direction of faculty training to provide the classroom delivery in bilingual mode . d) Every year institute organizes cultural activities wherein students are encouraged to show the beauty of Indian arts, culture and traditions. Also students are encourage to participate in such cultural events organized at university and state level. a group of students work on preserving 'Modi' lipi (an endanger script). e) Institute encourages students to showcase their skills in arts, culture and traditions by organizing various 1. Indian festivals, 2.cultural activities .</p>
<p>5. Focus on Outcome based education (OBE):</p>	<p>i. OBE is a student-centric teaching - learning methodology which aims to achieve stated objectives and outcomes through well planned course delivery and assessment . Institutions strictly adheres to the mechanism of well planned delivery of course contents for achieving OBE. ii. Course outcomes (CO) are defined for each course in the curriculum of Shivaji University, Kolhapur. Program outcomes (PO) are defined by NBA. Institute assess the performance of students through internal, external examinations, various co-curricular and extra curricular activities to capture the Outcome based education in teaching and learning practices. iii. 1. Mapping of CO & PO for each course by the faculty based on students performance in external and internal examinations. 2. Evaluation of attainment of POs and COs using various rubrics in direct and indirect assessment methods. 2.Practicing various teaching pedagogies.</p>
<p>6. Distance education/online education:</p>	<p>a) The Institute is preparing to offer vocational course through ODL mode in due course of time b) Additional to traditional chalk board teaching, various technological tools such as power point presentations, video lectures are used by the faculty. Especially during Covid-19 pandemic for online mode of content delivery faculty preferred Google Classroom, Microsoft teams, Google Meet as teaching platform. E- contents are developed by faculty for lectures and practicals. c) Currently institute is not providing Distance education. Online</p>

education was provided only during Covid-19 pandemic .

Institutional Initiatives for Electoral Literacy

1. Whether Electoral Literacy Club (ELC) has been set up in the College?	Yes, The Electoral Literacy Club (ELC) has been set up in college
2. Whether students' co-ordinator and co-ordinating faculty members are appointed by the College and whether the ELCs are functional? Whether the ELCs are representative in character?	The student's coordinator and coordinating faculty members are appointed by the college and are consistently functional.
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.	Various innovative programs and initiatives were undertaken by the ELC's for example, visiting each classroom in the institute and spreading awareness about the voting registration of 18 years and above students for their voluntary support in the electoral process. Also, on the 25th of January 2023, The 13th Notional Voters Day was celebrated in the institute in which "My Vote, My Future" was the main motto of the event. In the event, public awareness oath regarding voting was undertaken on behalf of everyone for the promotion of ethical voting.
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.	Many socially relevant projects were initiated by the college in the electoral related issues such as, voting awareness program held in nearby villages such as Kandalgaon, Morewadi, Pachgaon and many more places. This included spreading of social awareness in the above mentioned places with regards to ethical voting. Various surveys as well as drives were also undertaken in these villages as a measure of making the general public aware about their effective participation in the voting process .
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.	There are approximately 100 plus students above 18 years of age who are to be enrolled as voters in the electoral roll. Collaboration between the Honorable District Magistrate of Kolhapur and the college was carried out in order to conduct the enrollment of the students who are 18 years and above age.

Extended Profile

1 Students

1.1

Number of students year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
1187	1097	963	1049	1317

File Description	Document
Upload Supporting Document	View Document
Institutional data in prescribed format	View Document

2 Teachers

2.1

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

Response: 91

File Description	Document
Upload Supporting Document	View Document
Institutional data in prescribed format	View Document

2.2

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

2021-22	2020-21	2019-20	2018-19	2017-18
63	49	57	62	79

3 Institution

3.1

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

2021-22	2020-21	2019-20	2018-19	2017-18
488.40	393.17	338.60	505.41	610.97

File Description	Document
Upload Supporting Document	View Document

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:

Bharati Vidyapeeth's College of Engineering, Kolhapur is affiliated with Shivaji University, Kolhapur. It follows the syllabus designed by Shivaji University, Kolhapur.

Planning of Curricular Activities:

At the commencement of the Academic year, the Academic Calendar is prepared by the committee which includes a plan for curricular, co-curricular, and extracurricular activities for effective execution. At the beginning of each semester teaching plan is prepared by faculty for their respective courses and it is verified by the Head of the Department. There is sufficient flexibility in the teaching plan, so as to adopt the changes if any. The evaluation of the students is carried out periodically as per the norms of the University.

The departmental Academic plan includes the following parameters:

a. Classes and Lab timetable –Referring to the academic calendar, time table coordinator of each department prepares the timetable as per the guidelines of the affiliating university.

b. Course files and Lecture Plan- The course file of each subject is prepared consisting of a detailed teaching plan, course material, etc. This course file is audited by IQAC.

c. Internal Examinations- The Mid Term Test and End Term Test dates are mentioned in the academic calendar. The respective Head of the Department announces the detailed Examinations schedule in advance.

Implementation:

Review of syllabus completion is taken by HoDs.

Conduct of Assessment:

To maintain further compliance, answer books are checked within three days after each examination. In the case of labs and projects, internal viva and practical exams are conducted by respective departments before the university examinations.

File Description	Document
Upload Additional information	View Document

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: 75

File Description	Document
List of students and the attendance sheet for the above mentioned programs	View Document
Institutional programme brochure/notice for Certificate/Value added programs with course modules and outcomes	View Document
Institutional data in the prescribed format	View Document
Evidence of course completion, like course completion certificate etc. Apart from the above:	View Document

Other Upload Files

1

[View Document](#)

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: 55.03

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

2021-22	2020-21	2019-20	2018-19	2017-18
884	608	451	639	507

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

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:

College integrates cross-cutting issues of society like Moral Values, Human Values, Professional Ethics, Ethical Values, Gender Equality, and Environmental Awareness, which are an inseparable part of the curriculum.

College celebrates days of National and International importance such as Republic day, Women's day, Independence Day, Teacher's day, Human Right Day, International Yoga Day, etc. These celebrations nurture the students' moral, ethical, and social values.

Gender Sensitization:

The college has an Internal Complaints Committee Cell to provide counselling to students, promote gender equity among students and also deal with related issues of safety and security of students, staff and faculty.

Environmental Studies, Human Values:

The course “**Environmental studies**” related to ecosystems, their balance and sustainability is an integral part of the second year's curriculum along with this “**Democracy, Elections and Good Governance**” for first-year engineering students to know good governance to become good citizens. University prescribed this course for creating awareness and developing the importance of the environment among students. Awareness about the Environment is necessary for the protection of the environment and the survival of human life. The basic aim of this subject is to make the students aware of the importance of the Environment.

Professional Ethics/Skill Development:

It is important for professionals to be familiar with the ethical guidelines that are applied to their profession and to conduct themselves in a manner that is consistent with professional guidelines. Shivaji University included Professional skill development in the syllabus itself. Professional skill courses provide opportunities to build additional skills to increase effectiveness and enhance abilities, need to be in a dynamic workplace. Shivaji University included a “**Professional Communication skill**” subject for first-year engineering as well as a “**Professional Skill Development**” course for third year engineering syllabus.

File Description	Document
Upload Additional information	View Document

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

Response: 53.24

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

Response: 632

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

1.4 Feedback System

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

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

File Description	Document
Feedback analysis report submitted to appropriate bodies	View Document
At least 4 filled-in feedback form from different stake holders like Students, Teachers, Employers, Alumni etc.	View Document
Action taken report on the feedback analysis	View Document
Link of institution's website where comprehensive feedback, its analytics and action taken report are hosted	View Document

Criterion 2 - Teaching-learning and Evaluation

2.1 Student Enrollment and Profile

2.1.1 Enrolment percentage

Response: 41.82

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

2021-22	2020-21	2019-20	2018-19	2017-18
196	111	73	150	135

2.1.1.2 Number of sanctioned seats year wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
300	300	330	330	330

File Description	Document
Institutional data in the prescribed format	View 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: 30.17

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

2021-22	2020-21	2019-20	2018-19	2017-18
70	35	32	52	37

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

2021-22	2020-21	2019-20	2018-19	2017-18
147	147	162	161	132

File Description	Document
Institutional data in the prescribed format	View Document
Final admission list indicating the category as published by the HEI and endorsed by the competent authority.	View Document
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)	View Document

2.2 Student Teacher Ratio**2.2.1 Student – Full time Teacher Ratio
(Data for the latest completed academic year)****Response:** 18.84**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:**

Teaching learning is a combined process where a teacher assesses understanding needs, establishes particular learning objectives, formulates teaching and memorizing strategies, enforces a plan of work, and assesses the outcomes of the instruction. This process would get completed as an outcome of teaching. To achieve this outcome, students have been provided with conventional and innovative methods for enriching learning experience.

Our college makes intensive use of ICT-enabled tools, including online resources for effective teaching and learning process. The faculty use ICT enabled classrooms with LCD projectors, Wi-Fi connectivity,

software, Powerpoint presentations to improve the effectiveness of the teaching- learning process. The laboratories are updated with latest softwares. As a green campus initiative, college encourages extensive use of the ICT resources, other computing and storage facilities such as Cloud based Google Drive.

Along with the conventional approaches, the college follows other methods that are interactive, collaborative, ICT enabled such as Microsoft Teams, Google meet. Google classroom is used to share learning materials, quizzes, lab submissions and evaluations, assignments, etc. Also our college has laboratories, seminar Halls, auditorium, conference room which are well equipped with ICT facilities.

To ensure the holistic development of students and knowledge management, experiential learning, participative learning and problem solving methodologies are well adopted

Experiential learning:

1. **Industrial Visits:** Industrial visits are organized to engage students in experiential learning.
2. **Internships:** To experience real time industry environment, student undergoes internship program in vacations.
3. **Seminar Presentation:** Students are giving presentation on various topics and expressing their thoughts.
4. **Student Achievement:** Students get involved in various technical events to enhance their knowledge.

Participative learning:

1. **Expert Lectures and Workshops:** Domain specific lectures, workshops etc are organized for students by departments.
2. **Group Discussion and Debate:** College encourages students to participate and express their views on given topic.
3. **Activity Based Learning:** Course specific activity based learning is adopted.
4. **Project Work:** It's a team work where students work together, develop projects and present it in a group.

Problem Solving Methodologies:

1. **Assignments:** Assignments are given to solve at the end of each unit.
2. **Quiz Competitions:** College organizes various quiz competitions to evaluate the knowledge of the participants.
3. **Aptitude Test:** Training and placement cell conducts such type of test for students to get them familiar with this and helping them to crack aptitude which is useful to get selected in any company.

2.4 Teacher Profile and Quality

2.4.1 Percentage of full-time teachers against sanctioned posts during the last five years

Response: 96.27

2.4.1.1 Number of sanctioned posts year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
63	54	62	62	81

File Description**Document**

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

[View Document](#)

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

Response: 10.32

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

2021-22	2020-21	2019-20	2018-19	2017-18
12	8	6	3	3

File Description**Document**

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

[View Document](#)

Institution data in the prescribed format

[View Document](#)

Copies of Ph.D./D.Sc / D.Litt./ L.L.D awarded by UGC recognized universities

[View Document](#)

2.5 Evaluation Process and Reforms**2.5.1 Mechanism of internal/ external assessment is transparent and the grievance redressal system is time- bound and efficient**

Response:

In order to ensure transparency in internal/external assessment, the internal/external assessment schedule

and marking system is communicated to the students in advance. The Principal holds meetings of the departments and directs them to ensure effective implementation of the evaluation process. Continuous assessment is done at institute and university level. For continuous internal evaluation there are two exams namely midterm test and end term test are conducted which will be considered for 30 marks out of 100 for calculating final term marks. Term tests are conducted regularly as per the schedule given in academic calendar. Defaulter lists are displayed month wise and messages will be given to respective stakeholders. Feedback is taken from stakeholders to improve teaching learning process And practical feedback is also added to improve hands on. The performance of the students is displayed on the Notice board and communicated to the students. Personal guidance is given to the poor performing students after their assessment.

The final examination will be conducted at the university level for which the paper setting will be done at the university level in confidential manner. Institute will conduct the semester examination according to university schedule. Also the external examiners for internal/ external evaluation are appointed by university.

The university has been continuously carrying out of reforms in its examination procedure through integration with stakeholders of the examination system. The reforms have also been implemented in the continuous internal assessments as the Choice Based Credit System (CBCS) system is introduced at the university level.

Also the reforms in the examination question paper pattern are made which includes multiple choice as well as subjective type questions.

Due to corona pandemic we had to reform the conduction of examination from offline mode to online mode where internal and external examinations where conducted using online platform.

The method of internal assessment helps the teachers to evaluate the students more appropriately. Due to internal assessment, the interest of the student towards learning and attending the classes has been also increased. It has created the interest among the students to take active participation in various co-curricular and extra-curricular activities for their overall personality development. In this way mechanism of internal/external assessment is transparent and robust.

The institute has a well organized mechanism for redressal of examination related grievances. The student can approach the teachers, institute examination officer and principal to redress the examination related grievance as per the requirement and jurisdiction of the grievance.

Grievances related to university semester examinations are forwarded to the university grievances committee. Students can obtain photocopy of the answer sheets from the university on request. Students who were not satisfied with their marks at the university examinations can apply for revaluation/reassessment to the university.

The norms regarding grievances are displayed on university website. The institution follows the university policy. The entire mechanism to deal with examination related grievances is time bound as per university rule and regulations.

File Description	Document
Upload Additional information	View Document

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:

It is required to focus on student centric education in order to develop the personal, social, professional, critical thinking, effective communication, leadership skills and knowledge requirements in student's career and life through the approach of learning outcomes. The college follows the curricula prescribed by the university which clearly states learning outcomes of all the programme. The learning outcomes are clearly mentioned in the CBCS syllabus of all the courses on college website:

http://coekolhapur.bharativedyapeeth.edu/media/pdf/POs_PEOs_and_PSOs_ALL_DEPARTMENTS_291220.pdf

It also provides information regarding infrastructural facilities to optimize the achievement of intended learning outcomes by the college. The syllabus follows course objectives, course outcomes and also outlines all the essential information about structure and evaluation pattern. To adopt holistic development, the students are encouraged to participate in various academic and cultural activities to improve quality and outcomes, according to education plans.

Course Outcomes (COs) give the resultant knowledge and skills to the student at the end of each course.

Program Outcomes (POs) represent the knowledge, skills and attitudes which the students should have at the end of their respective engineering program.

Program Specific Outcomes (PSOs) defines outcomes of a program which make students realize the fact that the knowledge and techniques learnt during the course has direct implication for the betterment of society and its sustainability.

Program Outcomes (POs) and Program Specific Outcomes (PSOs) are approved by the Departmental Advisory Board.

Program Outcomes (POs), Program Specific Outcomes (PSOs) and Course Outcomes (COs) are communicated to the stakeholders of the program as below mentioned.

Source for dissemination of POs, PSOs and COs	COs, POs, PSOs of Programme	Stakeholders
<ul style="list-style-type: none"> Website 	<ul style="list-style-type: none"> COs, POs, PSOs 	<ul style="list-style-type: none"> Students, Parents, Faculties, and Alumni
<ul style="list-style-type: none"> Laboratories/Department Notice Boards 	<ul style="list-style-type: none"> POs 	<ul style="list-style-type: none"> Teachers and Students

• Syllabus	• COs	• Students, Parents, Faculties, and Alumni	
• Vmedulife Software , WhatsApps Groups	• COs, POs, PSOs	• Teachers and Students	
• Regular classes and discussions	• COs, POs, PSOs	• Students	
• Meetings	• COs, POs, PSOs	• Faculty , Parents and Alumni	

Students are counselled about outcomes at the beginning of academic year in regular classes by HODs and the concerned Faculties. Teachers assign assignments to the students, evenly spread throughout the semester. Students learning is encouraged by presentations and class discussion to improve skills. Industry interface is offered to students through seminars, guest lectures, Industrial visit, Internships, Projects and

Placements.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

2.6.2 Attainment of POs and COs are evaluated. Explain with evidence in a maximum of 500 words

Response:

The institute Programme has adopted outcome based education mechanism to ensure the attainment of course outcome and program outcomes. Program outcomes and program specific outcomes are attained through the attainment of course outcomes. The objective and outcomes are properly mapped for testing and evaluation of students. PSO's are attained through the competency mapping in terms of knowledge and skills.

Internal assessment is the requirement of the continuous assessment and is essential for the fulfillment of the COs and PO's. There is an internal examination committee that deals with the effective implementation of the evaluation reforms regarding the attainment of course outcomes and programme outcomes. The programme initiates a few steps such as Internal Tests, Industrial visit, Practical Work, Seminars, Internships etc.

Besides, the programme also tries to attain the course outcomes and program outcomes by conducting the activities such as cultural activities, N.S.S, Career Counseling, Personality Development Program, Communication Skills, Organizations of Scholarly Lectures, Health Awareness Programs etc.

The Departments adopt both Direct and Indirect methods of assessment to ensure Attainments of PO's and CO's. The score of this assessment is taken into account for evaluation of CO's.

Direct Assessment methods:

Continuous Internal Evaluation (CIE)-Continuous Internal Evaluation (CIE) is conducted and evaluated by the Department itself thus, institute have access to question-wise marks in all assessment instruments in CIE.

Technical Seminars- Knowledge in recent technical advancements and their Presentation is conducted. The content, quality of the presentation and communication skill is assessed by the evaluation committee of each student. At the end of the presentation the assessment panel and the student audience ask questions and seek clarifications on specific issues related to the seminar. The effectiveness of the student's response to these queries is assessed and evaluated. A bonafide report on seminar is submitted at

the end of the semester.

Laboratory Performance (TW)-Practical based assignments and performance by individual is conducted for each given course for continuous assessment marks..

Project I & II-To test students concepts in design creative thinking and independent analysis project are conducted based on courses undertaken.

Assignments-Assignments are for each given course for continuous assessment marks are considered.

Mini Project/Internship-To test student's concepts in independent analysis industry real world projects are under taken by students.

End Semester Examination (ESE)-Theory End Examination is conducted at the end of semester for all programme.

Indirect Assessment Methods:

Course exit survey -This survey gives the opinion of the graduate on the attainment of course outcomes. COs/PO's/PSO's assessment is done by giving 80% weightage to Direct assessment and 20% weightage to Indirect assessment. Direct assessment is based on CO attainment, where 70% weightage is given to attainment through university exam and 30% weightage is given to attainment through Continuous Internal Evaluation.

Indirect assessment is done through Course exit survey.

Attainment of all POs is Evaluted and discussed in Departmental Advisory Board.

File Description	Document
Upload Additional information	View Document

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

Response: 94.08

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

2021-22	2020-21	2019-20	2018-19	2017-18
397	330	265	274	372

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

2021-22	2020-21	2019-20	2018-19	2017-18
400	330	266	323	422

File Description	Document
Institutional data in the prescribed format	View Document
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.	View Document
Annual report of controller of Examinations(COE) highlighting the pass percentage of final year students	View Document

2.7 Student Satisfaction Survey**2.7.1 Online student satisfaction survey regarding teaching learning process****Response:** 3.94

File Description	Document
Upload database of all students on roll as per data template	View Document

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: 16.76

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)

2021-22	2020-21	2019-20	2018-19	2017-18
6.40	1.01	3.45	2.97	2.93

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 College provides a conducive environment for promoting innovation. Necessary facilities such as the Incubation center, Research and Development Cell, Entrepreneurship Development Cell, Institution Innovation Council and National Innovation and Startup Policy Cell are established. Students are encouraged to undertake Industry Sponsored projects to get acquainted with the industrial environment.

National Innovation and Startup Policy Cell (NISPC):

The NISPC is formed for nurturing innovative ideas for students and faculties and engaging them in innovation and start-up activities. The policy aims at enabling to build, streamline and strengthen the innovation and entrepreneurial ecosystem and will be instrumental in leveraging the potential of student's creative problem solving and entrepreneurial mind-set, and promoting institutional partnerships with ecosystem enablers and different stakeholders. NISPC policy is formed and adopted as per guidance of the Minister of Education.

Outcomes:

- Established Incubation Center and hand hold for Start-up.
- Patent Filing by Faculty and Students.
- Research Publication by Faculty and Students.

Research and Development Cell (RDC):

R&D Cell aims to nurture research culture by promoting research in emerging and challenging areas of Engineering. Incentives and necessary support is provided for the research publication and patents respectively. College encourages students and faculty to undertake research projects, participate in conference and activities in emerging areas including multidisciplinary fields.

Outcomes:

- Total of **196** research publications in UGC Care, Scopus, and Peer reviewed journals.
- National Conference on Emerging Trends in Engineering and Technologies (**NCETET**) is organized yearly.
- TechnoBharati, a technical and non technical event, is organized every year.

Intellectual Property Rights (IPR):

IPR cell is established at the college ,which promotes and creates awareness by organizing workshops, seminars, and expert lectures on IPR. Financial support is provided to faculty for filing patents.

Outcomes:

- **15** patents were **published** and **02** patents were **granted** in the last five years.
- **01 Copyright** is filed.
- Total **66** workshops/seminars on Innovations have been organized in the last five years.

Incubation Center:

The incubation center, namely **Internet of Things(IoT)** , is established, which offers students an opportunity to build prototypes that are useful in promoting agriculture and rural development. Students are encouraged to gain hands-on experience to become better acquainted with industry.

Outcome:

- Incubation center **Internet of Things(IoT)** is established.
- The College has received **2,32,957/- Rs. Grant-in-aid under Modernisation and Removal of Obsolescence (MODROBS) of Center of Excellence for Internet of Things** from All India Council for Technical Education, India.

Institution Innovation Council (IIC):

The IIC is established and various activities are organized to promote Innovation and Entrepreneurship Environment. A letter of appreciation is awarded to the college by the Minister of Education, Innovation Cell, Govt. of India for the continuous support and contribution towards building the innovation and entrepreneurship culture development in the campus.

Outcome:

- Organized **66** workshops/seminars/conferences on Innovation and **5342** students benefited.

Entrepreneurship Development Cell (EDC):

The EDC Cell develops spirit/awareness on entrepreneurship among the students. EDC organizes interactive sessions with entrepreneurs. Workshops and seminars provide students an opportunity to interact directly with entrepreneurs who have excelled in their field.

Outcome:

- Nine** Students have started their start-up/ company.

File Description	Document
Upload Additional information	View Document

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: 66

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

2021-22	2020-21	2019-20	2018-19	2017-18
26	5	12	11	12

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

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: 0.37

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

last five years

2021-22	2020-21	2019-20	2018-19	2017-18
02	08	12	03	09

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:** 1.42**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**

2021-22	2020-21	2019-20	2018-19	2017-18
05	06	05	67	46

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

3.4 Extension Activities

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

Response:

Bharati Vidyapeeth strives to transform its Vision “Social Transformation Through Dynamic Education” into reality by undertaking various extension activities with its neighborhood community. The extension activities help students in understanding responsibilities and shaping them into responsible citizens of the country. College promotes regular engagement of students, faculty and staff with the neighborhood community for their holistic development and sustained community development.

Fight against COVID-19 :

- Students and staff worked as Corona Warriors during pandemic situation of Covid-19
- Donation of groceries was initiated by students and faculty at covid care center Jain Boarding Kolhapur.
- Covid Vaccination Drives were conducted in college campus for students and faculties in collaboration with Primary Health Care Center Kaneri Math Kaneriwadi Kolhapur.
- Covid-19 Pandemic General Awareness Quiz was conducted by IQAC of Bharati Vidyapeeth's College of Engineering Kolhapur.

Outcome: Created awareness about covid 19, Students and faculty understood their roles and responsibilities in pandemic situations and maintained humanity during pandemic.

Swachh Bharat Abhiyan:

- Adoption of villages for NSS Residential Camps and organizing various social awareness programmes.
- Cleanliness activities in nearby villages and initiatives for tree plantation.
- Watering of 500 mango plants planted by gram panchayat in the village.

Outcome: Such activities help to create the importance of cleanliness habits in day to day life and will contribute to building a good nation and understanding students' role in society.

Social Awareness:

- Organization of Rallies ,street plays on various social issues
- Green environment awareness was created through tree plantations, rallies and lectures.
- Workshops on gender equality,women empowerment were organized.

- Traffic rule awareness, Parking discipline sessions, Digital payment awareness program, Importance of voting sessions were organized.
- Distribution of essential items for peoples affected during flood.
- Donations of essential items to old age homes were organized by the college.

Outcome: Such activities encourage the young generation engineers to contribute towards needy people of society which improves their Emotional Quotient. Also the Students will understand the importance of gender equality.

Health Check-up Camps:

- Covid Vaccination drives were conducted in the college during the corona pandemic period.
- Health Checkup Camp is organized at the college regularly to create awareness about health.

Outcome: Such activities help to create awareness about health in individuals and maintain them healthy.

Celebration of International Days:

- Celebration of World Environment Day
- Celebration of World Earth Day
- Celebration of International Yoga Day are celebrated
- Celebration of Science Day

Outcome: To create awareness about the importance of days which are celebrated Internationally. The above activities help students to understand the importance of a health, environment, cleanness and innovation etc.

Program on Gender equality:

- Sessions on Gender equality and celebration of women's day were arranged for students in order to create awareness and understand their rights.

Outcome: Students will understand the importance of gender equality and their rights, which will be helpful to them at their workplace in future.

File Description	Document
Upload Additional information	View Document

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

Response:

Bharati Vidyapeeth's College of Engineering Kolhapur has been honored and appreciated by AICTE, Kolhapur Municipal Corporation and different Gram Panchayats of villages for conducting various activities in NSS camp. College regularly carry out social activities and social awareness activities, awareness programmes on women empowerment, environment protection and conservation.

The college was awarded with a certificate of appreciation for significant contribution in **“One Student One Tree”**. The college has received a certificate for first rank in Public & Institute in **"49th Flower show and garden competition"** organized by Gardens Club Kolhapur in association with Kolhapur Municipal Corporation Kolhapur in 2019.

Letters of appreciation were received from nearby gram panchayats for carrying out various extension activities in their gram panchayat area.

Certificate of appreciation for **Cleanliness Drive** from Gram Panchayat Nebapur for maintaining cleanliness at, 'Veer Shiva Kashid Samadhi Parisar' Village Nebapur.Tal-Panhala, District Kolhapur.

Certificate of appreciation for conducting **Swachhata Abhiyan** from Gram Panchayat Morewadi Kolhapur at Morewadi Kolhapur.

Certificate of appreciation for conducting **Seven days NSS Residential Camp** from Gram Panchayat Kaneriwadi Kolhapur and carrying out various social activities during Seven days NSS Residential Camp

Letter of appreciation for **Health Checkup Camp** from Bharati Vidyapeeth's Bharati Hospital Kolhapur for arranging health check up camp at college for Students, Teaching faculty and Non-Teaching staff.

Certificate of appreciation for **Cleaning Camp and Rehabilitation Work** at Ankalkhop Village Tal. Palus, Dist. Sangli by Grampanchyayat Ankalkhop. The village was heavily affected by flood and needs cleaning and rehabilitation work on immediate effect, which was carried out by NSS unit, faculties and Disaster management team.

Appreciation letter for **Donation of Grocery** and other essential items at Covid center by Jeevan Mukti Seva Sanstha Kolhapur. During covid 19 pandemic situations donations of Grocery items were donated white army covid care center Kolhapur.

Certificate of appreciation by Gram Panchayat Mouje Sangaon. Kolhapur for Conducting and performing a street play on social issues, and other National issues at Mouje Sangaon which helps in creating social awareness in society.

Appreciation letter for **Chief Minister's Disaster Relief Fund** Flood donation by government of kerala. The Mechanical Engineering department of the college has contributed towards it.

Certificate of appreciation by Gram Panchayat Mouje Sangaon, Kolhapur for conducting '**Swachhata Abhiyan**' at Mouje Sangaon. The drive has helped in maintaining environment cleanness.

File Description	Document
Upload Additional information	View Document

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: 58

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

2021-22	2020-21	2019-20	2018-19	2017-18
15	6	10	12	15

File Description	Document
Photographs and any other supporting document of relevance should have proper captions and dates.	View Document
Institutional data in the prescribed format	View Document
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	View Document

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: 69

File Description	Document
Summary of the functional MoUs/linkage/collaboration indicating start date, end date, nature of collaboration etc.	View Document
List of year wise activities and exchange should be provided	View Document
List and Copies of documents indicating the functional MoUs/linkage/collaborations activity-wise and year-wise	View Document
Institutional data in the prescribed format	View Document

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 college adheres to the norms provided by AICTE and university to produce infrastructure and facilitate for effective teaching and learning. The college offers student centric education. The management is devoted towards development and continuous improvement in infrastructure facilities such as library with reading room, digital libraries, journal access to students and faculty, canteen, auditorium, well equipped computer labs with internet connection, well equipped and furnished laboratories, playground and other amenities.

The college provides sufficient space for sports, gymnasium and yoga, cultural and social activities in the campus for overall development of students.

A) Extra-curricular activities: Sports, outdoor and indoor games, gymnasium, NSS, cultural activities, communication skills development, etc. are arranged regularly.

Cultural Activities:

- Every year college arrange “Bharatiyam” (Annual Social Gathering) and Prize Distribution Program.
- During Annual Social Gathering college arrange cultural programs like dance, dramas, antakshari, fashion shows, singing and talent shows etc.
- Rankers of university exams, winners of different sports event and other competitions are awarded during the prize distribution program.
- Departmental Associations conduct events aimed at overall development of the students.
- Students are encouraged to participate in cultural activities and competitions which are held outside the college such as Shivaji University youth Festival, Bharatiyam, Bharati Kala Mahotsav, Ganesh festival, Purshotam karandak etc.

Sports, outdoor and indoor games, gymnasium, yoga centre etc.:

- The college promotes sports and games and offers the individual an opportunity to enhance abilities like strong willing power, expressions, physical and mental development, courage and social interaction.
- A separate playground of 6500 Sq.mt. area is provided in college campus which is used for various purposes like lead college sports events as well as inter-college sports events.
- A separate indoor games facility for playing table-tennis, carrom and chess is provided and it is

being used by the students regularly.

- A well equipped gymnasium and yoga centre is provided in college campus for physical and mind empowerment.

Auditorium:

- The college has an auditorium with a seating capacity of 275.
- Auditorium is equipped with LCD projector, LCD screen, well-furnished interior, good sound system and public addressing system.

NSS:

- The college has a NSS Unit with a total strength of 100 volunteers, affiliated to Shivaji University, Kolhapur.
- The unit was established with an objective to cultivate the attitude of social service in the minds of students and to make them as responsible citizens.
- Several social awareness campaigns and programs such as Blood donation, Tree plantation, Save the baby girl campaign, Police mitra abhiyan, Road safety campaigning and celebrating anniversaries of various national legends are arranged in college campus.

File Description	Document
Upload Additional information	View Document

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

Response: 48.47

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

2021-22	2020-21	2019-20	2018-19	2017-18
195.43	197.22	201.91	259.57	278.42

File Description	Document
Institutional data in the prescribed format	View Document
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)	View Document

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 college have well equipped, state of art library, housed in 1116.40 Sq. mt. which is a unique feature of Bharati Vidyapeeth's College of Engineering Kolhapur. The number of volumes are 24331 with 5019 titles, 541 E-Books, 702 CD/DVDs, 42 Journals, 11 Periodicals, and 05 Daily Newspapers. The library is automated with e-Granthalaya software developed by the National Informatics Centre (NIC), New Delhi. NIC provides a complete ICT solution with **Integrated Library Management Software** and a Library Portal (OPAC). **e-Granthalaya** is useful to transform traditional libraries to e-Library with Digital Library Services which includes, automation of in-house activities of libraries, digital library integration, and to provide various online member services using single window access system. Unique bar coding has been introduced for ease of record keeping. The library provides open access to all users and any user can browse through the collections which are arranged according to Dewey Decimal Classification (DDC).

A) Integrated Library Management System (ILMS) :

Sr.No	Physical Description of ILMS	Remark
1	Name of ILMS Software	e-Granthalaya
2	Year of automation:	2013-2014
3	Nature of automation	Partially automated
4	Version	3.0.1
5	Developed by	National Informatics Centre Government of India

B) Subscription to e-resources:

Library provides following e-Resources through the platforms like ASPP (IEEE), DELNET, NDL (National Digital Library), E-Books and NPTEL IIT video Lecture series

DELNET	E-Books	NPTEL	NDL
IM - 7053	541	8455	Membership

C) Amount spent on purchase of books, journals:

Total expenditure of books, Periodicals, and other expenses of library during the last five years is Rs. 3764168/-

D) Per day usage of library:

Per day usage of library is 101 approx./day

Key Features:

- Library information is available on Institute website

<http://coekolhapur.bharativedyapeeth.edu/index.php/infrastructure/library>

- 12 computers are available for public access in digital library.
- Printing and photocopy facility is available in central library.
- 8455 NPTEL IIT video lecture series are stored in digital library for access to students, faculty and staff.
- Library notice board is provided for information and notifications.
- User orientation programs are conducted at the time of every academic year for students of first year and directly admitted to second year.
- Students, faculty and staff can use e-resources in college campus and remotely.
- Book bank for all students and free social welfare book bank for reserved category students is available.
- Library reading room is open beyond institute hours for students during exam period.
- Feedback from students is collected in online mode at regular intervals within academic year.
- A suggestion box is kept in library for taking helpful suggestions and complaints from students, faculty, and staff.

Layout of the Library:

- Ground floor: Stacking section, Reading Room
- First floor: Digital library.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

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:

College provides excellent IT facilities including wi-fi and upgrades frequently to strengthen the teaching and learning process.

Details of computerized hardware and software available in the institute as ICT resources:

Hardware:

- 18 Computer laboratories are there in college with 625 computers and 3 laptops having internet connection of **100 Mbps** which is updated from 20 Mbps since last 2 years from Reliance Jio service.
- IT infrastructure is enhanced with advanced Core i5 microprocessors, memory configurations from 8 GB RAM and 512 GB SSD and operating systems from windows XP to 10
- There are 51 printers, 3 Scanners and 24 LCD projectors for administrative and academic use situated in different departments.
- In Accordance with agreement made with the unusable or old equipments like computers, printers and scanner are given to scrap or sold.
- The E Waste management is done by Prabhunat Traders, Pune.

Softwares:

- College uses licensed as well as open source softwares like AUTOCAD-2013, STAAD-PRO, MICROSOFT WINDOWS 98, ASCENT 5.1 LV, TURBO C, MULTISIM, XILINX14.4, SCARM C COMPLIER, MATLAB, etc.

Internet service:

Internet Service and Wi-Fi facility is available for both faculty and students in the campus.

- 29 Computer systems are provided with internet facility in the central computing centre.
- All the departmental computer centers as well as classrooms are provided with internet facility having 6 servers
- 12 Computer systems are provided with internet facility in the central library.
- Internally, the skilled technical staff frequently configures, updates, and maintains the computer networking on campus.
- All faculty members have been given email addresses with the college's own domain, coekolhapur.bharatvidyapeeth.edu
- The college provides internet facility to staff members at the respective department in order to access the required study material from available e- resources and present them as part of their teaching process.
- The Principal's Office, Administrative Office, Examination Section, Training and Placement Cell and Faculty member cabins are provided with internet facility.
- Un-interrupted electricity supply is made available in the campus, so that the students and staff can

access the internet without any interruption.

Security and Surveillance:

- The Campus has 42 CCTV Cameras for security purpose having access to security personnel and the principal.

Updation of IT Facility:

- There are 10 ICT unabled classrooms, 24 LCD projector equipped in all classrooms of different departments.

Bandwidth of internet connection in the Institution:

- 100 Mbps- Gazon (Lease line)
- Wi-Fi Facility is available.

File Description	Document
Upload Additional information	View Document

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

Response: 3.12

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

Response: 381

File Description	Document
Purchased Bills/Copies highlighting the number of computers purchased	View Document
Extracts stock register/ highlighting the computers issued to respective departments for student's usage.	View Document

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: 25.62

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)

2021-22	2020-21	2019-20	2018-19	2017-18
90.37	87.28	119.65	189.55	111.80

File Description	Document
Institutional data in the prescribed format	View Document
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)	View Document

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: 78.53

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

2021-22	2020-21	2019-20	2018-19	2017-18
945	881	784	855	943

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)	View Document
Report with photographs on ICT/computing skills enhancement programs	View Document
Institutional data in the prescribed format	View Document

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

Response: 60.13

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

2021-22	2020-21	2019-20	2018-19	2017-18
546	635	457	753	984

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

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

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

Response: A. All of the above

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

5.2 Student Progression

5.2.1 Percentage of placement of outgoing students and students progressing to higher education during the last five years

Response: 72.71

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

2021-22	2020-21	2019-20	2018-19	2017-18
303	242	207	214	225

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

2021-22	2020-21	2019-20	2018-19	2017-18
397	330	265	274	372

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)	View Document
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)	View Document
Institutional data in the prescribed format	View Document

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

Response: 6.14

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.)

2021-22	2020-21	2019-20	2018-19	2017-18
11	1	3	10	11

File Description	Document
List of students qualified year wise under each category and links to Qualifying Certificates of the students taking the examination	View Document
Institutional data in the prescribed format	View Document

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: 37

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

2021-22	2020-21	2019-20	2018-19	2017-18
10	2	4	12	9

File Description	Document
Upload supporting document	View Document
list and links to e-copies of award letters and certificates	View Document
Institutional data in the prescribed format	View Document

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: 21.4

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

2021-22	2020-21	2019-20	2018-19	2017-18
25	12	13	25	32

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

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:

Alumni Association creates and maintains a life-long connection between the college and alumni. Bharati Vidyapeeth's College of Engineering has shaped entrepreneurs, and engineers, who collectively have a wealth of knowledge and experience. This Alumni Association brings all these outstanding people together on a single platform. This collective excellence is our contribution to the growing generation, the college and society as a whole.

Non-financial activities:

- Support in placement activities for the students.
- Arrangement of alumni lectures to know the upcoming technology in the industries.
- An alumnus is one of the members of the IQAC and departmental advisory board who provides inputs for academic development.
- To encourage and guide the students of the college on self-employment to become entrepreneurs.

File Description	Document
Upload Additional information	View Document

Criterion 6 - Governance, Leadership and Management

6.1 Institutional Vision and Leadership

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

Response:

- The governance of the College is reflective of an effective leadership in tune with the Vision and Mission. The Vision and Mission are prepared by considering views of all the stakeholders and guidelines of NEP-2020.
- To adapt NEP-2020, it is necessary to set new Vision and Mission. College need to put emphasis on innovative pedagogies, research, skill development and multidisciplinary environment. To address this, following Vision is set:

“Social Transformation Through Technical Education”

Following Mission which drive the college towards its vision are defined

1. To achieve excellence in teaching, learning and research.
 2. To nurture the students for professional career and lifelong learning.
 3. To develop a multidisciplinary campus for serving the society.
 4. To inculcate ethical & social values among the students.
- For sustained institutional growth, the college has adopted strategies. College is enhancing its quality by interacting with alumni, industry experts, sponsors and faculty. The college is focusing on innovation and enterprise, which contributes to growth and competitiveness by fostering new ways of working as well as new programs and services.
 - The administration of College strictly adheres to Participative and decentralized approach that represents collective decision making of the Secretary, Director, Principal, Administrative Officer, Heads of the Departments, Training and Placement officer, faculty members and the Laboratory Assistants.
 - Right from the Head of the college to the staff and students, all the stakeholders have a role to play in building of the college. Their involvement and cooperation in implementing decision making policies for academic and administrative affairs through various bodies and committees have contributed to the growth of the college.
 - College Governing Body takes care of financial management and the implementation of facilities to upgrade the standard of amenities which supports effectively the teaching learning and research aspects.
 - The Principal, Heads of the departments, teaching and non-teaching faculty along with student union members, class student representatives together concentrate on the progress of the college by sharing the responsibilities and participate growth of college and to act according to the aims and objectives of the College.
 - College focuses on decentralization by forming different Committees. Each committee has been

provided with specific functions that will help for the progress and development of the College.

- The governance and leadership is visible in various institutional practices such as Student Association, NSS, TPO and Student Council.
- A student Council is a representative structure through which Principal get involved in the student affairs for the benefit of the college and students.
- The student council suggest curricular and extra-curricular activities which are the most beneficial to the students.
- Considering the short term and long term goals of the college, every Year College defines a perspective plan and have put all the efforts & necessary resources to execute it.

File Description	Document
Upload Additional information	View Document

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 College is established by great educational visionary Dr.Patangraoji Kadam and is governed by the administration of Bharati Vidyapeeth,Pune with an aim of imparting quality higher education.Well-defined organizational structure of the college is a key indication of effective and efficient bodies.

Administrative setup:

- To decide the policy and take major decision Governing Body is formed. It monitors the progress of the college and suggests activities for the growth of the college.
- The College Development Committee provides direction considering feedbacks from various stakeholders for effective functioning.
- Principal conducts meetings with both academic and non-academic faculty and staff on regular basis and their suggestions are taken into account for effective implementation of strategies.
- Head of the Departments (HOD's) plan and run day-to-day academic activities and assures quality in teaching and learning process and administrative functions.
- Weekly and need based meetings are conducted by HOD's with faculty and staff to frame the timetable, formulate teaching plans and assign the responsibilities.
- Internal Quality Assurance Cell assures the quality of teaching learning process. It takes feedback from stakeholders and provides inputs for student's holistic development.

Appointment:

The procedure aims to ensure a fair selection of qualified people, who could serve with commitment.

- The college identifies the vacancy positions to be filled in during an academic year based on which

advertisement is published.

- The applications are scrutinised and shortlisted based on the qualification criteria prescribed by the UGC.
- The interviewer panel assesses the suitability of the candidate on the basis of subject expertise, teaching skill and communication.
- Based on the cumulative performance, merit list is prepared and the candidates are ranked.
- The college adheres to the norms prescribed by the UGC and the affiliating University in promoting teachers from one cadre to the next higher cadre.

Service rules, Procedures:

The college has a well-established policy, procedures, and rules as approved by the Governing Council, adhering to statutory bodies such as UGC, AICTE, and Affiliating University guidelines.

Deployment of institutional Strategic/ perspective/development plan:

The college has a well-defined structure for Perspective planning and overall management of resources. The following perspective plans are prepared to fulfil academic and infrastructure development of the college.

- Applying for permanent affiliation
- To start the incubation centre for start-up and innovation purpose.
- Introduction of new programme in Computer Science and Engineering (Artificial Intelligence & Machine Learning)
- Focus on renewable energy by introducing Solar Power Plant.
- Upgradation of Laboratories.

File Description	Document
Upload Additional information	View Document
Institutional perspective Plan and deployment documents on the website	View Document

6.2.2 Institution implements e-governance in its operations

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

Response: A. All of the above

File Description	Document
Screen shots of user interfaces of each module reflecting the name of the HEI	View Document
Institutional expenditure statements for the budget heads of e-governance implementation ERP Document	View Document
Annual e-governance report approved by the Governing Council/ Board of Management/ Syndicate Policy document on e-governance	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

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 Welfare facilities for the Teaching staff:

- Provident fund, gratuity, group insurance facility, covid insurance, concession in fees for children of employees.
- Medical leave.
- Maternity leave for woman employee.
- Deputation of faculty members for PG and Ph.D Program during their Course work
- Financial support and leave facility for research paper publication, presentation, conference and workshops.
- Preferential selection on higher level post after acquiring desired qualifications.
- Financial medical assistance through Sevak Kalyan nidhi.

The Welfare facilities for the Non-Teaching staff:

- Provident fund, gratuity, group insurance facility, covid insurance.
- Uniform (two sets every year)
- Internal promotion to higher post after acquiring qualification and depending on availability of higher post.
- Deputation for programs such as computer maintenance workshop.
- Earned leave and medical leave.
- For woman employee maternity leave of full 6 months.
- Financial medical assistance through Sevak Kalyan nidhi.

Corona Virus Disease or Covid -19 created havoc in the lives of people across the globe. In the light of the same, Management of Bharati Vidyapeeth provided Covid- 19 Insurance to the employee of Rs. 50,000/-

for Covid positive and Rs. 2,00,000/- for death.

Performance Appraisal System:

The college has performance based appraisal system for the Assessment of teaching. The appraisal report is based on the annual performance of the faculty on the basis of their academic, research and other extra-curricular activities.

The performance of each employee is assessed annually. The objective is not only to evaluate the performance as per established norms, but also to identify potential aspects for improvement that can eventually lead to further progress and growth of the employee.

Avenues for career development/progression:

- Workshops for teaching staff for every academic year.
- Full time faculty members are encouraged for upgrading their qualification by getting register for Ph.D.
- Various other training programmes such as , Ms-Office,Computer Networking etc for non-teaching staff.

File Description	Document
Upload Additional information	View Document

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: 33.23

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

2021-22	2020-21	2019-20	2018-19	2017-18
33	7	35	13	15

File Description	Document
Policy document on providing financial support to teachers	View Document
Institutional data in the prescribed format	View Document
Copy of letter/s indicating financial assistance to teachers and list of teachers receiving financial support year-wise under each head.	View Document
Audited statement of account highlighting the financial support to teachers to attend conferences / workshop s and towards membership fee for professional bodies	View Document

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: 48.67

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

2021-22	2020-21	2019-20	2018-19	2017-18
44	31	61	65	91

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

2021-22	2020-21	2019-20	2018-19	2017-18
45	60	61	61	63

File Description	Document
Refresher course/Faculty Orientation or other programmes as per UGC/AICTE stipulated periods, as participated by teachers year-wise.	View Document
Institutional data in the prescribed format	View Document
Copy of the certificates of the program attended by teachers.	View Document
Annual reports highlighting the programmes undertaken by the teachers	View Document

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:

Resources of funds:

Tuition Fee from the students including their scholarship

Mobilizations of funds:

1. Adequate fund is allotted to employee's salary.
2. To conduct Induction-cum-Orientation Programs for the students, workshops, FDPs, training programs that ensures quality education.
3. Adequate funds are utilized for development and maintenance of infrastructure of the College towards upkeep of the fixed assets, repairs & maintenance of classrooms, laboratories and administrative areas etc.
4. Funds are also allocated towards security, firefighting charges, water proofing, AMC charges, etc. for regular upkeep of the campus.
5. To conduct student activities like technical competitions, cultural activities, literary events, seminars, workshops, placements, study notes and study material printing etc.
6. University expenditure towards Registration fees, Examination fees, etc.
7. Funds are allocated to encourage research and development activities and for enhancing library facilities like subscriptions to Books/Journals/Periodicals/Magazines.

The college has a mechanism for internal (Pre audit) and external audit to ensure financial compliance every year.

Internal Audit:

The respective Department submits voucher, original invoice and supporting documents, including

approvals of purchase to account section of the college.

Account section verifies documents, make observations, check whether the financial delegation is properly maintained or not and if any discrepancy found, the same is brought to the notice of concerned department/Cell for immediate rectification. Account section prepares and keeps ready all the vouchers for pre audit. Pre audit is done by the appointed Chartered Accountant's team. This team visits the college fortnightly and verifies all the bills, vouchers and supporting documents, if found any discrepancies they inform to the account section and account section rectifies the discrepancy at the same time. After completing the pre audit process account section processes the all vouchers and post transactions accordingly.

External Audit:

The financial records are audited by chartered accountants at the end of each financial year. Statutory financial audit of the Colege is conducted from 1st April.

All government scholarships and funds received from government as grants are audited separately. Audit is conducted in accordance with auditing standards. Amounts and disclosures in the financial statements are verified on the basis of evidences.

Financial statements of college incorporate identifiable assets, liabilities and expenditure. The auditor ensures that all payments are duly authorized after the audit, the report is sent to the management for review. Any queries, in the process of audit are attended immediately along with the supporting documents within the prescribed time limits. All these mechanisms exhibit the transparency being maintained in financial matters and adherence to financial discipline. The audited income and expenditures statements are certified. Balance sheet is duly signed by the Principal and Chartered Accountant. The duly signed annual audit report is submitted to Bharati Vidyapeeth, Pune annually. All accounting systems are computerized.

File Description	Document
Upload Additional information	View Document

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:

a. Contribution of IQAC for institutionalizing the quality assurance strategies and processes: Internal Quality Assurance cell (IQAC) of institute was established on 24th June 2013. IQAC is vibrant and is constituted in accordance with NAAC standards that are frequently released. It works with a vision of rationalizing the quality initiatives of the college. IQAC persistently strives to inculcate values, ethics, educational quality and skills in the students by imparting outcome based quality education through its

innovative, comprehensive education policy. IQAC works for framing strategies for holistic and effective, teaching-learning process through increased use of ICT. It endeavours for expanding the scope of the library, industrial visit/training of students, assisting in placements, organization of skill development seminars, workshops, expert lectures on latest technologies, career counselling for higher studies etc. IQAC encourages various committees and cells of the institute like NSS, ICC, Anti ragging, IIC and alumni association to organize awareness Programs, Camps, periodically conducts academic and administrative audits. IQAC frequently organizes program for awareness of teaching and non-teaching staff about the benefits and need of accreditation by various external bodies. IQAC prepares and submits Annual Quality Assurance Report as per the guidelines and parameters of NAAC. Following strategies and processes have been initialized by IQAC for institutionalizing the quality assurance:

1. Value Added Program
2. Feedback from Stake holders
3. Competency Enhancement of Faculty

b. IQAC Reviews teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals and records the incremental improvement in various activities: IQAC facilitates the creation of learner centric environment by adopting the required knowledge and technology for participatory & experiential teaching and learning process. It analyses feedback from various stakeholder for enhancing teaching learning. IQAC regularly reviews teaching learning process, learning outcomes at periodic intervals and records the incremental improvement in various activities. It helps to excel academic environment, timely completion of curriculum and also co-curricular and extra-curricular activities. Some sample initiatives implemented by IQAC for reviewing Teaching learning process and its outcomes are:

1. Review of Preparedness of Course File for Enrichment of Teaching Learning
2. Academic Audits for Timely and Effective Completion of Curriculum
3. Campus Recruitment Training Programs

File Description	Document
Upload Additional information	View Document

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: B. Any 3 of the above

File Description	Document
Quality audit reports/certificate as applicable and valid for the assessment period.	View Document
NIRF report, AAA report and details on follow up actions	View Document
List of Collaborative quality initiatives with other institution(s) along with brochures and geo-tagged photos with caption and date.	View Document
Link to Minute of IQAC meetings, hosted on HEI website	View Document

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:

Measures initiated by the college for the promotion of gender equity:

College is committed to promote gender equity and provides a safe, secure environment for students and staff. To fulfil this objective, various sensitization programs are conducted regularly. The college organized 'Self-defense training program' for the girl students. Awareness programs like expert talk on gender equality and safety, importance of women's empowerment, Sexual Harassment at Workplace (Prevention, Prohibition, Redressal) Act., 2013 importance of human rights, Cyber security awareness programs related to the safety and security of women employees and students are conducted. Along with the above initiatives, the following measures are taken to promote gender equity.

1. Best outgoing student:

College awards Best outgoing student in male and female category every year based on performance of students in academic, co-curricular, extra-curricular and social activities.

2. Placements:

College provides equal opportunity for both male and female students for placements. In last five years, 746 male students and 409 female students are placed in various companies.

3. Sports:

College organizes annual sports where inter college sports competitions are held. Both male and female students are actively participated in these sports competitions.

4. Safety and security:

The safety and security of students is a prime concern of the college. The support and safety measures are ensured to the students, faculty, and staff without any gender discrimination. Necessary measures are taken by Internal Complaints Committee, Anti-ragging Committee and Grievance Redressal Committee to ensure safe and secure environment in college campus. As a measure of security, the college campus is under CCTV surveillance. Security guards are deployed in parking area, entrances, hostel and common areas. Fire extinguishers and fire hydrants are placed at important locations within the campus to ensure safety during fire accidents. Till date no security breaches or security threats have been reported. Purified drinking water is made available.

5. Counseling Cell:

Faculty interacts with the students to maintain healthy and stress-free environment. This cell helps to develop relationships, behavioral etiquettes, emphasize the importance of communication and respect personal spaces. Counseling plays a significant role in the personal and social well-being of the students. The mentor system in the college has been functioning effectively.

6. Common Room:

The college has an exclusive common room for girls and boys separately. These common rooms are adequately furnished. These rooms are utilized by the students in their leisure time for resort and relaxation. The girls' common room is equipped with a sanitary napkin vending machine and an incinerator.

7. Medical Facility

Health care facilities for students and staff are felt to be the basic need. The college provides Medicare for all students, faculty and staff and MOU has been signed in this concern.

8. Transportation facility for students:

The college provides intra-city transportation facility at free of cost to students so that it could be convenient to reach the college safely in time. This facility is also used for off-campus academic travels like industry visits and site visits.

File Description	Document
Upload Additional information	View Document

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: B. 3 of the above

File Description	Document
Policy document on the green campus/plastic free campus.	View Document
Geo-tagged photographs/videos of the facilities.	View Document
Circulars and report of activities for the implementation of the initiatives document	View Document
Bills for the purchase of equipment's for the facilities created under this metric	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

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: B. Any 3 of the above

File Description	Document
Report on Environmental Promotional activities conducted beyond the campus with geo tagged photographs with caption and date	View Document
Policy document on environment and energy usage Certificate from the auditing agency	View Document
Green audit/environmental audit report from recognized bodies	View Document
Certificates of the awards received from recognized agency (if any).	View Document

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:

College provides an inclusive environment with tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic and other diversities. Different sports and cultural activities organized

in the college that promotes harmony towards each other. Commemorative days like Women's Day, Yoga Day and Traditional Day along with many regional festivals like Ganeshotsav, Navratri and others are celebrated in the college premises. This establishes positive interaction among people of different religious and cultural backgrounds. There are different cells in the college like anti-ragging cell, Grievance redressal cell and Internal Complaints Committee (ICC) which deal with grievances without any discrimination. The college has a code of ethics for students and a separate code of ethics for teachers and other employees. Gender, class, caste and any other type of discrimination is strictly prohibited on campus. The students and staff are made well aware of the sense of harmony in the college through instructional procedures.

Knowing the fundamental prerequisites for students and employees for being a good citizen, the college believes that it is important to make them aware of the constitutional values, duties, rights and responsibilities. Through various activities and programmes, the institute inculcates a feeling of oneness among the student community. The college has been striving to enhance the level of awareness and appropriate practices amongst the students with regard to the following areas: ·

National Identities and Symbols: The College has always taken various direct and indirect steps which promote the awareness about various National Identities and Symbols. The college celebrates the Independence Day, Republic Day and Constitution Day.

Fundamental Duties and Rights of Indian Citizens: The university curriculum is framed with mandatory self-study course at first year "Democracy, Elections and Good Governance" as a step to inculcate constitutional obligations among the students. At the college, various activities are conducted for the propagation of the Fundamental Duties and Rights of the Indian citizens like: Student Induction program, Expert talks and technical Competitions. Students are encouraged to participate in the Voter Registration Campaign.

National Service Scheme: Various society centered activities are organized under the National Service Scheme (NSS). A camp is arranged in a rural area. With the help of the Gram panchayat and native people, some constructive activities like cleanliness drives, tree plantation, health checkup camp and informative sessions are organized for villagers.

File Description	Document
Upload Additional information	View Document

7.2 Best Practices

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

Response:

BEST PRACTICE: 1

1.Title: Initiatives for multi-skilling students.

2. Objectives:

- To impart more practical and industry-relevant knowledge
- To achieve holistic development through training in domain specific skills, employability skills, communicative skills, life skills, leadership qualities, analytical skills, interpersonal skills and entrepreneurial competencies.
- To motivate students to become as job providers rather than mere jobseekers
- To face interviews and competitive examinations with confidence and due preparation

3.The Context:

The prime objective of the **New Education Policy** is to *“make India a knowledge superpower by equipping its students with the necessary skills and knowledge.”* The needs of the industries keep on changing and it is a prerequisite to train the students in the required skill sets accordingly. On the successful completion of these programmes planned for students, the students are expected to possess skills and knowledge on par with the demands of the challenging job market. Lack of training leads to unskilled labourers and in turn may result in unemployment and underemployment. The College has organized trainings in the four major skills sets namely Technical Skills, Entrepreneurial Skills, Communication and Soft Skills and Employability Skills. Programmes and activities conducted at various departments and by the Entrepreneurship Development Cell and Training and Placement Department aim at acquisition of these skills by the students. The college collaborates with the industries and experts in new frontiers of research to customize the curriculum accordingly.

4.The Practice:

Students are imparted training to enhance the skill sets and ensure their holistic development of personality through:

- Training Programmes to enhance Technical Skills
- Training Programmes to enhance Communication and Soft Skills
- Training Programmes to enhance Entrepreneurial Skills
- Training Programmes to enhance Employability Skills

5. Evidence of Success:

- **Bridging the Gap between Industry and Academia**-Various value added courses were conducted for students in the direction of introducing the recent updates in their respective branches as per the current trends in industry. They helped to balance the acquired knowledge by the students and required knowledge by the industry.
- **Professional Communication Skills Development**- It is always an attempt of the college to blend hard and soft skills judiciously for the students. The soft skills selected for the trainings are relevant for the respective domains. These trainings help students improve Communication and Soft skills that resulted in encouraging them to appear for certain examinations like GRE, TOEFL and securing valid scores in them.
- **Encouragement for Entrepreneurship**- Some students started their own ventures related with the respective specializations.
- **Improvements in Placements:** The above initiatives boosted the on and off-campus placement

selection ratio. Training and Placement Cell, independently carried out some needed activities directed at improving placement.

6. Problems Encountered and Resources Required:

- Time constraint is a major limitation in implementing various skill development programmes
- Finding and bringing trained professionals/experts from other institutions is also very difficult.
- Sanctioning of funds by agencies have become very limited
- Multi National Companies give comparatively less campus drives preference to the institutes in the Tier-II cities.

BEST PRACTICE: 2

1. Title: Nurturing Consciousness for Sustainable Environment

2. The Context:

There are many opportunities and benefits of enhancing eco-friendly practices for environment consciousness among all its stakeholders. The college considers its paramount duty to practice environment consciousness and develop high standards of environment friendliness. It also encourages them to adopt environment friendly ways through the awareness and conservation initiatives to minimize the threats. The college has been keen in promoting activities related to environmental consciousness, sustainability and its conservation.

3. The Objectives:

- To promote an eco friendly environment and to find out innovative ways of sustainable use of natural resources
- To disseminate environmental literacy to motivate the students and staff
- To establish effective ways of waste management and recycling systems
- To optimize energy utilization through the non-conventional resources

4. The Practice:

To fulfill the above objectives, the college conducts variety of awareness activities through NSS, all the departments and with the participation of concerned experts in those fields. The major areas include tree plantation, cleanliness drives, reducing use of plastic, energy and water conservation.

5. Evidence of Success:

- Villages realized importance of Gram Swachhata for sound health, hygiene and clean atmosphere. The activities were aimed at making the streets, and populated places clean from filth and garbage. The activity also targets raising public awareness about cleanliness through community and academia participation.
- Green cover increased due to tree plantation campaigns. With the purpose of educating them on the environmental concerns, the college organizes tree plantation every year especially on occasion of the World Environment Day, the Earth Day and at the hands of dignitaries visiting the campus. As

a result of these initiatives, about 1100 trees are survived in the campus.

- The College has a well-maintained Medicinal Plant Garden. It has different varieties of medicinal plants tagged with their biological nomenclature. The garden made students and visitors familiar with the benefits of these plants and encouraged them grow the varieties themselves.
- The college is continuously reducing carbon footprints that are created by conventional energy sources. The college has installed Grid connected PV Solar System for the campus as an alternate energy resource. The various environment awareness practices like No Vehicle Day, using sapling for felicitations influenced the decisions of students and staff to prefer electrical vehicles.
- The college has received appreciation from the local authorities during these kinds of campaigns.

6. Problems Encountered and Resources Required

- Heavier initial cost and investments: Shifting to renewable resources is a costly affair. More Government assistance and subsidies are needed.
- Promoting environmental consciousness need continuous and multi-directional efforts that can create recognizable shift in the mindsets.

File Description	Document
Any other relevant information	View Document
Best practices as hosted on the Institutional website	View Document

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:

The state of Maharashtra is inspired by various great social transformers and revolutionary philanthropic leaders such as Mahatma Phule, Savitribai Phule, Karmaveer Bhaurao Patil, Rajarshee Shahu Maharaj and the likes. They have devoted their lives for the educational and social revolution in Maharashtra. Founder of Bharati Vidyapeeth and founder Chancellor of Bharati Vidyapeeth (Deemed to be) University Honorable Dr. Patangraoji Kadam has followed the same path. Since the foundation of this esteemed educational institution, the Founder envisioned strengthening the economically and socially deprived families in Western Maharashtra as many economically and socially backward families were lagging behind in education. The Founder focused on the upbringing of these strata of society and made traditional as well as professional education easily accessible to them through huge fees concessions and free education also. Bharati Vidyapeeth is considered as one of the largest multi-discipline and multi-campus educational institution in India. Distinct humanitarianism refers to a unique approach to social and cultural initiatives that is characterized by a guiding philosophy that is rooted in humanitarian principles. This philosophy informs and guides the development and implementation of multi-disciplinary and cross-

disciplinary academic programs, as well as other social and cultural initiatives undertaken by organizations that subscribe to this approach. Bharati Vidyapeeth is one of the socio-centric institutes in India, which is assisting students from economically and socially backward backgrounds by providing admission and fees concession. Under this scheme, students are asked to apply for fees concession along with their relevant documents. Students have to furnish their mark list, income certificate and attendance record from the particular department (branch). They need to fill a form which is especially for the fees concession purpose. These forms are sent to the Bharati Vidyapeeth's Head office, Pune for the final sanction. The committee appointed by Bharati Vidyapeeth addresses all the applicant students with their parents. By discussing students' academic progress and parents' financial background, proper concession is given in academic fees. Such fees concession report is forwarded by the Bharati Vidyapeeth central administrative office (Bharati Bhavan, Pune) to the Principal of the respective college.

Students are benefitted from Bharati Vidyapeeth's fee concession scheme each year, making it easier for them to achieve their academic goals. We claim that, this scheme is a distinctive aspect of our institution. This scheme has benefitted the diverse sections of society. This is really a big achievement of the Bharati Vidyapeeth and complies to its motto: "Social Transformation Through Dynamic Education." By far, the Bharati Vidyapeeth has availed fees concessions of Rs. **62,52,682/-** to the needy and eligible students of our college. The college adopted a student having weaker financial conditions, **Miss. Madhuri Baburao Kamble** and waived her full academic fees for the entire degree course. The college believes in giving back to the community by supporting educational institutions in need. With this spirit, the college has Donated a **12 set of Computers** to a **Loknete Mohanrao Kadam Vidyalaya, Soholi**.

Bharati Vidyapeeth's College of Engineering, Kolhapur as a constituent unit of such an acclaimed parent institution is driven to deliver its mission and convinced of the transformative power of education and research for the betterment of society. We aim to deliver an exceptional and age-relevant education and to make significant contributions to society-locally, nationally and especially on the inter-state levels. The college consistently inspires students and provides a platform for methodological and multidisciplinary skill development and development of ethical and human values. Bharati Vidyapeeth collectively seeks solutions to address the issues relating to a comprehensive and all-encompassing strategy for the development of society. This emphasis is to create an enabling ecosystem of equal opportunities for education, health and livelihood and to ensure sustainable development of the rural community.

In its vision to further upgrade the technological knowledge, employment generation, women empowerment and holistic development of the social periphery where its constituent units are functioning, Bharati Vidyapeeth runs various outreach programmes in Western Maharashtra and tribal belts like Palghar, Vikramgad, and some regions in Konkan. Our college, as a constituent unit of Bharati Vidyapeeth extends all the required assistance and expertise in them time to time. To carry this mission forward, the college stimulates and supports students to participate in various social developmental activities. Along with academic and technical excellence, Our college strives to incorporate the sense of social accountability among our students. Our students and staff volunteers, through NSS, contribute in the relief operations in the flood affected areas in Kolhapur and nearby districts. A special bond has been developed by them with certain villages in this manner.

The college is committed to enhancing values among faculty and students to develop better citizens through the adoption of new approaches. Thus all faculty members and students of our college are fortified to participate in social activities. The College is known as an active and influential contributor in various initiatives of environmental protection and mass awareness of them. During NSS camps, various programmes like village cleanliness drives, tree plantation and constructing roads in an inaccessible area in

the said locations have benefitted the residents as permanent solutions. We rendered commendable services in the flood affected regions in Sangli and Kolhapur districts and worked shoulder to shoulder with the Government and other Health Science units under Bharati Vidyapeeth. Promote scientific mindset and rationality among the people celebrating traditional festivals like Ganeshotsav for encouraging them to saving the river by donating the idols for artificial immersion. Conducting tree plantation on campus, decreasing use of plastic on campus, initiation of paperless administration, energy saving individual habits of staff and students, observance of no vehicle days etc. are some of them. Bharati Vidyapeeth is recognized on state and national levels for its extension activities aimed at social responsibility. The college has encouraged staff and students to plant a sense of social accountability through some regular charity and philanthropic activities. Our continuous growth towards excellence have been ensured by innovations, advancement and best practices in the key areas of knowledge incubation, social immersion, result oriented governance and state of the art infrastructure.

File Description	Document
Appropriate web in the Institutional website	View Document
Any other relevant information	View Document

5. CONCLUSION

Additional Information :

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Concluding Remarks :

The NAAC has developed quality measures for continuous improvement in the realm of higher education. The college has adapted and implemented these quality measures during Accreditation Cycle –I and achieved ‘A’ grade. In the present report for Cycle –II accreditation, we have tried our best to fulfill the measures laid down by the NAAC. The college is pleased to present the Self Study Report (SSR) to the National Assessment and Accreditation Council, Bangalore.

It was impossible to complete this Self Study Report without the whole-hearted companionship of entire team of Bharati Vidyapeeth’s College of Engineering Kolhapur. We wish to thank Hon’ble Dr. Shivajirao Kadam, Chancellor, Bharati Vidyapeeth (Deemed to be) University, Pune who has been a guiding force and motivating us to partake in the accreditation process. We wish to extend our sincere thanks to Hon’ble Dr. Vishwajeet Kadam, Secretary, Bharati Vidyapeeth, Pune and Pro-Vice-Chancellor Bharati Vidyapeeth (Deemed to be) University, Pune for his able mentorship. We are grateful to Hon’ble Dr. K. D. Jadhav, Joint Secretary, Bharati Vidyapeeth, Pune and Regional Director Hon’ble Dr. H. M. Kadam who extended all needed support to our team. Finally, we are looking forward to the visit of a peer team and we believe that their valuable suggestions will help us grow in terms of academic excellence.

6.ANNEXURE

1.Metrics Level Deviations

Metric ID	Sub Questions and Answers before and after DVV Verification																																								
1.2.1	<p>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)</p> <p>Answer before DVV Verification :</p> <p>Answer After DVV Verification :75</p> <p>Remark : As per the revised data and clarification received from HEI, based on that DVV input is recommended.</p>																																								
1.3.2	<p>Percentage of students undertaking project work/field work/ internships (Data for the latest completed academic year)</p> <p>1.3.2.1. Number of students undertaking project work/field work / internships</p> <p>Answer before DVV Verification : 668</p> <p>Answer after DVV Verification: 632</p> <p>Remark : As per the revised data and clarification received from HEI, based on that DVV input is recommended.</p>																																								
2.1.1	<p>Enrolment percentage</p> <p>2.1.1.1. Number of seats filled year wise during last five years (Only first year admissions to be considered)</p> <p>Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2021-22</th> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> </tr> </thead> <tbody> <tr> <td>196</td> <td>111</td> <td>73</td> <td>148</td> <td>135</td> </tr> </tbody> </table> <p>Answer After DVV Verification :</p> <table border="1"> <thead> <tr> <th>2021-22</th> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> </tr> </thead> <tbody> <tr> <td>196</td> <td>111</td> <td>73</td> <td>150</td> <td>135</td> </tr> </tbody> </table> <p>2.1.1.2. Number of sanctioned seats year wise during last five years</p> <p>Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2021-22</th> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> </tr> </thead> <tbody> <tr> <td>300</td> <td>300</td> <td>300</td> <td>300</td> <td>330</td> </tr> </tbody> </table> <p>Answer After DVV Verification :</p> <table border="1"> <thead> <tr> <th>2021-22</th> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> </tr> </thead> <tbody> <tr> <td>300</td> <td>300</td> <td>330</td> <td>330</td> <td>330</td> </tr> </tbody> </table>	2021-22	2020-21	2019-20	2018-19	2017-18	196	111	73	148	135	2021-22	2020-21	2019-20	2018-19	2017-18	196	111	73	150	135	2021-22	2020-21	2019-20	2018-19	2017-18	300	300	300	300	330	2021-22	2020-21	2019-20	2018-19	2017-18	300	300	330	330	330
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300	300	300	300	330																																					
2021-22	2020-21	2019-20	2018-19	2017-18																																					
300	300	330	330	330																																					

Remark : As per the revised data and clarification received from HEI, based on that DVV input is recommended.

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**

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

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
74	33	40	65	66

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
70	35	32	52	37

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

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
98	56	37	74	68

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
147	147	162	161	132

Remark : As per the revised data and clarification received from HEI, based on that DVV input is recommended.

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

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**

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
25	6	12	11	12

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18

26	5	12	11	12
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Remark : As per the revised data and clarification received from HEI, based on that DVV input is recommended.

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:

2021-22	2020-21	2019-20	2018-19	2017-18
91	19	19	43	24

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
02	08	12	03	09

Remark : As per the revised data and clarification received from HEI, based on that DVV input is recommended.

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

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

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
19	05	06	05	67

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
05	06	05	67	46

Remark : As per the revised data and clarification received from HEI, based on that DVV input is recommended.

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.

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

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
21	06	10	14	15

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
15	6	10	12	15

Remark : As per the revised data and clarification received from HEI, based on that DVV input is recommended.

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.***

Answer before DVV Verification :

Answer After DVV Verification :69

Remark : As per the revised data and clarification received from HEI, based on that DVV input is recommended.

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

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

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
329.36	298.12	227.07	394.21	460.37

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
195.43	197.22	201.91	259.57	278.42

Remark : As per the revised data and clarification received from HEI, based on that DVV input is recommended.

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)***

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)

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
95.74	58.20	124.71	195.69	115.67

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
90.37	87.28	119.65	189.55	111.80

Remark : As per the revised data and clarification received from HEI, based on that DVV input is recommended.

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***

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

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
1030	912	870	926	1187

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
945	881	784	855	943

Remark : As per the revised data and clarification received from HEI, based on that DVV input is recommended.

5.2.1 **Percentage of placement of outgoing students and students progressing to higher education during the last five years**

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

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
298	233	198	204	222

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18

303	242	207	214	225
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5.2.1.2. Number of outgoing students year wise during the last five years

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
400	330	266	323	422

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
397	330	265	274	372

Remark : As per the revised data and clarification received from HEI, based on that DVV input is recommended.

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

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

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
10	2	4	12	13

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
10	2	4	12	9

Remark : As per the revised data and clarification received from HEI, based on that DVV input is recommended.

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:

2021-22	2020-21	2019-20	2018-19	2017-18
31	17	19	43	57

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
25	12	13	25	32

Remark : As per the revised data and clarification received from HEI, based on that DVV input is recommended.

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:

2021-22	2020-21	2019-20	2018-19	2017-18
59	10	58	14	15

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
33	7	35	13	15

Remark : As per the revised data and clarification received from HEI, based on that DVV input is recommended.

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

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

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
45	32	164	76	170

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
44	31	61	65	91

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

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18

45	60	61	61	63
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Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
45	60	61	61	63

Remark : As per the revised data and clarification received from HEI, based on that DVV input is recommended.

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.**

Answer before DVV Verification : A. Any 4 or more of the above

Answer After DVV Verification: B. Any 3 of the above

Remark : As per the data available, DVV input is recommended.

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**

Answer before DVV Verification : A. 4 or All of the above

Answer After DVV Verification: B. 3 of the above

Remark : As per the data available, DVV input is recommended.

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**

Answer before DVV Verification : A. All of the above

Answer After DVV Verification: B. Any 3 of the above

Remark : As per the data available, DVV input is recommended.

2.Extended Profile Deviations

Extended Profile Deviations
No Deviations