SELF STUDY REPORT

FOR

2nd CYCLE OF ACCREDITATION

VASANTDADA PATIL PRATISHTHAN'S COLLEGE OF ENGINEERING AND VISUAL ARTS

VASANTDADA PATIL EDUCATIONAL COMPLEX, EASTERN EXPRESS HIGHWAY, PADMABHUSHAN VASANTDADA PATIL MARG, SION, MUMBAI 400022
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Submitted To

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

BANGALORE

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1. EXECUTIVE SUMMARY

1.1 INTRODUCTION

Vasantdada Patil Pratishthan's College of Engineering & Visual Arts (VPPCOE&VA) is one of the premier technical institutes under the esteemed umbrella of Vasantdada Patil Pratishthan. Institute was founded by esteemed Founder Late Manohar (Mama) Phalke, ex- member of Legislative Council (MLC) and labour leader as a tribute to the late Padmabhushan Vasantdada Patil in 1990. The institution is committed to fulfilling hon'ble Vasantdada Patil's vision of disseminating engineering education and offering top-tier higher education opportunities to a greater number of promising students. In addition to Engineering and Visual Arts, the Pratishthan also oversees the Manohar Phalke College of Architecture and a Law College. The VPPCOE&VA is approved by All India Council for Technical Education (AICTE), New Delhi, Directorate of Technical Education (DTE) and Directorate of Art (DOA). Institute is certified by ISO 9001:2015 and Computer Engineering and Information Technology programms are accredited by NBA till June 2027.

The institute offers undergraduate programs in Computer Engineering, Information Technology and Artificial Intelligence and Data Science within the Engineering discipline, as well as Bachelor of Fine Arts in Painting and Applied Art. In alignment with the National Education Policy (NEP), the institute has introduced Honours programs in emerging fields such as AI&ML, Data Science, Cyber Security, and Blockchain, etc. by following the guidelines of the University of Mumbai. This initiative allows students to choose additional courses of their interest alongside their core branch of studies.

The faculty is encouraged to upgrade their qualifications with an emphasis on Research & Development, so that they become successful educators in maintaining sustainable quality of employable Engineers. The institute having membership in professional bodies such as IEEE, ISTE, IETE, CSI, etc. which offers valuable resources and support to both faculty and students in their academic and professional pursuits.

The institute boasts state-of-the-art laboratories and a well-stocked library, providing students with access to cutting-edge facilities and resources essential for their academic and research endeavours. The Training and Placement Cell has a commendable track record in facilitating employment and internships and further enhancing their career prospects. The institute organizes a variety of seminars, symposia, and workshops that enrich the academic experience of students, faculty, and the broader engineering community. These events serve as platforms for knowledge exchange, networking, and skill development, contributing to the holistic growth and success of all involved.

Vision

To provide an environment to educate, encourage and explore students by facilitating innovative research, entrepreneurship, opportunities and employability to achieve social and professional goals.

Mission

- To foster entrepreneurship & strengthen industry institute interaction to enhance career opportunities for the employability of students.

- To encourage collaborations with industries and academic institutes in terms of projects & internships by creating area for Research and Development.

- To build up appropriate moral and ethical skills and to promote holistic development of students through various academic, social and cultural activities.

1.2 Strength, Weakness, Opportunity and Challenges(SWOC)

Institutional Strength

Institute has developed its brand image in society and develops following strength points

1. Well-qualified, highly dedicated, and enthusiastic faculty members with a blend of experienced and junior faculty.
2. State-of-the-art infrastructure with separate circulation areas, well-equipped labs, Wi-Fi enabled campus and ICT facilities, are available to serve students and society.
3. The institute has adopted advanced and reliable outcome-based teaching and learning methods with continuous evaluation of students.
4. A fully functional Training and Placement cell provides 100% placement assistance.
5. A strong student support system offers mentoring and counselling to assist students with their academic and personal issues.
6. Proactive, transparent, and visionary management adopts changes considering the needs of stakeholders and society.
7. A well-managed library with an ample collection of books, e-books, and journals.
8. Dedicated support and facilities for co-curricular and extra-curricular activities like sports, cultural and NSS Unit for cultivating social responsibility among the students.

Institutional Weakness

After rigorous discussion and brain storming session at different levels primarily it is observed that weaknesses are in field of research and development. These are listed below-

1. The institute has a limited number of start-up and entrepreneurship activities.
2. There is an inadequate number of Research and development and consultancy activities. Additionally, book publications and filing of IPRs need to be improved.
3. There is inadequate financial contribution from alumni.
4. Being a private institute, it is unable to secure a sizeable amount of research grants from government and semi-government organizations.

Institutional Opportunity

By considering environmental, economic and social conditions of surrounding region as well as global aspects following opportunities are considered.

1. The institute is located in a metro city surrounded by industries, so it can increase industry-institute

interaction through problem-solving and regular engagement.

2. The institute has scope for starting various postgraduate courses on campus, which will enhance involvement in research and development.
3. By utilizing the expertise of the faculty members, the institute can start various skill development and short-term courses to fulfill industry needs.
4. All eligible programs are accredited by the NBA. Therefore, after obtaining accreditation from NAAC, the institute has the scope for achieving autonomy.

Institutional Challenge

Following are the challenges faced by the surrounding condition of the institute

1. Very low number of students pursuing higher studies from reputed institutions.
2. Recruiting faculty members who have completed Ph.D. from reputed institutions like IITs.
3. High rigidity of academic structure and curriculum due to state university affiliated institute.
4. Quality of students being admityted is not in the control of the institute.

1.3 CRITERIA WISE SUMMARY

Curricular Aspects

The college is affiliated to University of Mumbai and adopts to the syllabus prescribed by it. Members of faculty actively contribute to the curriculum design by participating in the syllabus revision committee, university paper setting, etc. at the university level.

College designs the academic calendar and time table to ensure the smooth conduction of academics. Subject orientations are conducted before commencement of the semester where the faculties provide overview of the syllabus, teaching plan and teaching methodologies to deliver proper technical knowledge to students.

Delivery mechanism involves the use of Information and Communication Technologies (ICT) such as use of smart boards, LCD projectors, laptops and internet. Additional facilities in the labs are available to provide guidance on higher studies, online resources like NPTEL, spoken tutorial are made available. Institute follows experiential learning methodology where assignments, tutorials, experiments, mini projects are planned and designed according to the expected course outcomes. Apart from the traditional teaching methodologies like lectures, practical, or other forms of methods, institute adds input by conducting prerequisite tests, bridge courses, online MCQs, remedial lectures and various other innovative activities.

The feedback on academics, infrastructure and other facilities from various stakeholders like students, parents, alumni and employers are collected, analyzed and corrective actions are taken.

The curriculum gaps are bridged by conducting various certification courses, spoken tutorials, NPTEL courses, seminars, workshops, expert lectures and tie-ups and MOUs with leading industries.

Social awareness and community services are inculcated in the students through the elective subjects like

Professional Communication & Ethics, Environmental Management, Disaster Management and Mitigation Measures, and Energy Audit and Management.

Various courses, seminars are conducted by the Training & Placement Department for making students aware about the overall placement process as well as prepare them for the placements. Students are also encouraged to participate in various technical, extra-curricular activities, publish the research papers in various conferences, journals. The students are also motivated to undertake internship for getting idea about working environment in industries.

Teaching-learning and Evaluation

The institute adheres to a fair and transparent selection process for first-year engineering programs. This is achieved through the Maharashtra Directorate of Technical Education's (DTE) centralized admission process (CAP). CAP ensures a meritocratic selection, filling 80% of the seats. The remaining 20% are allocated by the institute itself, allowing for consideration of diverse student profiles and backgrounds. Upon admission, students receive a unique identification number, and their academic profiles are uploaded into a secure Enterprise Resource Planning (ERP) system. This system facilitates efficient record management, streamlines communication, and enables easy access to student information.

The institute prioritizes a strong teaching and learning environment. Faculty recruitment adheres to the University of Mumbai's rigorous qualifications and experience standards, fostering a team of highly qualified and dedicated educators. This commitment to excellence is reflected in the institute's impressive faculty retention rate.

To enhance the learning experience and cater to various learning styles, faculty members provide a diverse range of resources. This includes access to e-learning material, which offers flexibility and self-paced learning opportunities. Additionally, students benefit from exposure to prestigious institutions' video lectures, such as those offered by the National Programme on Technology Enhanced Learning (NPTEL) from IITs. Furthermore, the institute offers access to IIT Bombay's spoken tutorials, which provide valuable support in technical communication and subject-specific terminology.

Moving beyond traditional lectures, the institute embraces innovative and student-centric learning methodologies. This shift acknowledges the importance of active student engagement in the learning process. The curriculum incorporates experiential learning, where students gain practical knowledge by applying theoretical concepts to real-world situations. Participative learning strategies, such as group discussions, case studies, and role-playing exercises, encourage collaboration, critical thinking, and problem-solving skills. Problem-solving methodologies are also emphasized, equipping students with the ability to analyse complex situations, identify root causes, and develop effective solutions.

A dedicated examination cell ensures transparency in all assessment procedures, adhering guidelines given by the University of Mumbai. Continuous assessments throughout the semester provide valuable feedback on student learning and progress. A comprehensive 360-degree feedback system further strengthens the teaching-learning process. This feedback is then used to continuously improve the educational experience at institute.

Research, Innovations and Extension

VPPCOE& VA has well-defined Research and Development policies for promoting the research culture in the institute. To create awareness of various Research and Development activities like publications, Intellectual Property Rights (IPR), research grants, importance of higher education etc. The institute organises workshops, seminars, and conferences. As a result of the same

1. Number of faculties pursuing PhDs is increasing year on year; as of now, more than 50% of faculties are pursuing Ph.D.s.

2. Number of faculties' participation in paper, book and patents publication has increased over the last five years.

Apart from these activities, the institute collaborated with various industries, like Campus Corners, IBM/CSR BOX, etc. , to carry on the collaborative research work and also to increase the outside interaction of the faculties and students to be at par with the technology. The institute has a total of 24 MOUs, under which it organises various activities for members of faculty and students, such as industrial visit, internship activities, seminars and webinars on technical subjects. As a result of these activities, the number of registered start-ups has increased.

Apart from these research and innovation activities, the institute has made a contribution to socetial activities. To create social responsibility among the students, the institute exclusively established the NSS Unit . Under this, 100 volunteers are registered to conduct various activities for the benefit of society, which promotes blood donation camps, health checkup campaigns, plastic ban campaigns, and community networks to sensitise the students towards societal needs and bring social change in the surrounding communities. As a token of recognition, our NSS volunteers are awarded various state and national awards for various activities, like blood donation camps, youth parliament.

This gamut of activities makes our students socially responsible and technologically competent.

Infrastructure and Learning Resources

VPPCOE&VA has state of art infrastruture with dedicated adminstration area, learning resources for the smooth conduction of academics, holistic development of students. To deliver the lectures and practicals institute has 24 classrooms equipped with ICT enabled facilities along with 35 laboratories with latest technologies, 06 tutorial rooms and 02 seminar halls, etc. Apart from these the institute has common amenities like a gymnasium, a playground with two turfs, to play various outdoor sports, common rooms for boys and girls with indoor game facilities to maintain their physical and mental health.

The institute appointed a psychological counsellor and a doctor for students & staff. The institute has special washrooms, wheelchairs and ramp for physically challenged people.

Various common facilities include cafeteria, drinking water, washrooms, vehicle parking area, meter room, maintenance room, pump house, electric generator unit, housekeeping, security office, CCTV cameras, fire extinguisher system, solar panel unit, etc.

To help expand on technical knowledge, the institute has a central library which includes reading room and digital library. The library is managed with fully automated software ILMS e-Granthalaya upgraded to its latest version 3.0. To assist the students with latest trends in technology, the library subscribes to a variety of e-resources like e-journals including the IET digital library and springer nature. Additionally the library offers knimbus e-books accessible through the knimbus platform at http://pvppcoe.knimbus.com.

Along with physical facilities institute is well equipped with IT infrastruture. Institute has a total of 653

personal computers distributed across various departments of which 552 are dedicated to students, maintaining student - computer ratio as 4:1. The bandwidth available for the internet connection is provided through a leased line of 300 Mbps.

The institution also provides campus Wi-Fi comprising 85 indoor access points and 5 outdoor access points, each operating at a data rate of 3000 Mbps. Institute maintains these facilities by allocating a dedicated yearly budget.

So, the institute provides all the basic and the advanced educational and recreational facilities for the complete, all-round and holistic development of our very important stake holders i.e our students.

Student Support and Progression

Institution has a dedicated and defined policies for the student support and progression. In order to acquire a fruitful learning experience on campus and the holistic development. Institute has a dedicated student section to take care of the scholarship process provided by the government and non governmental organisations, which will give financial assistance to the students. Institute has been taking efforts to create ragging free environment. Institute was established various committees for redressal of students grievances including sexual harrasment and ragging cases. The committees strive to create awareness among students and to timely resolve issues. Institute has facility to raise the grievence via online and offline mode. These facilities provide a secured and safe place to study.

Along with this, institute helps the students for their skill enhancement by organising activities for improving their technical skills, soft skills, and life skills. Under this, institute organises career guidance seminars, workshops and guest lectures, and also organises various technical, sports and cultural events every year. These activities help boost the students' confidence to participate in state, national and international events. Institute has received many awards the last five years.Institute has a dedicated training and placement cell and the students are guided to choose their career path after graduation through career guidance programs, which help the students to choose their passion after graduation. Institute strives to provide spartan training higher education and placements. Institute has dedicated Entrepreneurship Development Cell to incorporate enterpreneurial skills among the students by conducting seminars on the said topics. As an outcome of the efforts by the training and placement cell, the average placement percentage of last five years has reached 75.79%. Students qualifiying state, national and international exams like GATE, GRE, TOEFL, CAT, etc. has increased over last five years. In order to maintain strong alumni network institute has a registerd alumni association. Institute organises alumni meet every year to get feedback and suggestions for the growth of the institute which helps the institute in academic and financial matters.All these activities conducted by the institute and its various technical departments make sure students are supported in their pursuit of becoming creative and competitive engineers and their progress is significant.

Governance, Leadership and Management

The Vasantdada Patil Pratishthan's College of Engineering and Visual arts was founded in the year 1990 by Late Manohar Phalke with the grace of Late Padmabhushan Vasantdada Patil, ex-Chief Minister of Maharashtra. and sought to establish an engineering instituite with a repute and a goal to provide quality

engineering and technology education to the people of this state and beyond. Institute made sure its has strong governance. leadership and management which willl facilitate the engineering education to be provided to the aspiring and would be engineers of tomorrow.

Decentralization is underway, empowering bodies like the IQAC to manage curricular and extra-curricular activities. Organizational structure including IQAC, Examination Cell, Anti-Ragging Committee, Grievance Redressal Committee, Sports Committee, Research and Development Committee are in place and are playing an important and a major role in the day-to-day activities of the institute. All these committees function in accordance with their specific guidelines and rules and regulations.

The institution has effective welfare measures for teaching and non-teaching staff such as accidental policy, mediclaim, gratuity policy. On-duty leave facility is also available whenever faculty and staff travel on duty for conferences/STTP/Workshops/Seminars.

Provident Fund facility is also available for the staff and is functional as per the rules of the central government, so also Gratuity facility for all the eligible staff. Other than this the financial support is also made available to the members of the faculty for attended conferences, various technical and non technical seminars and work shops.Appraisal based system is in place as a recognisition and an appreciation of a job well-done by the members of the faculty. The management ensures that the right people are available at the right place and right time, and have the capability and competence to work effectively and efficiently so as to achieve the objectives set by the organization. The institute conducts internal and external financial audits very regularly and are audited by external competent authorities. The finances of the institution are judiciously allocated and effectively utilized by proper budgeting system. The institution is effective in resource mobilization and planning developmental strategies.

In a sense, the top management and leadership belives in fair governance of the institution and strongly advocates that the members of the faculty develop leadership and management skills which inturn helps in making sure the institute produces quality engineers which are competent in taking initiatives in making sure the engineering issues of the society at large are taken care of and addressed.

Institutional Values and Best Practices

Over the past five years, our institution, VPPCOE&VA, has proactively pursued initiatives to promote gender equality, environmental sustainability, and inclusivity within our campus community. In terms of gender equity, we have integrated gender perspectives into both curricular and co-curricular activities, fostering awareness and understanding among students and memebers of faculty. Facilities for women have been enhanced to ensure safety and accessibility. Our institution has prioritized environmental sustainability through initiatives such as (1) alternative energy sources like roof top solar system of 72.96 KW with considerable reduction in electricity bill as well as Carbon Footprint, (2) waste management, (3) water conservation, and (4) green campus initiatives. We have also taken steps to create a disable-friendly environment to ensure accessibility for all members of our community. Our strong and active NSS Unit sensitizes our community to constitutional obligations, values, rights, duties, and responsibilities of citizens, promoting respect for human rights, social justice, and democratic principles through different awareness campaigns, workshops, day celebrations and training sessions in and outside the campus. Regular quality audits on environment and energy ensure that our institution maintains high standards of cleanliness and sustainability, contributing to a clean and green campus environment. As part of the TPO activities, institute conducts various programs to improve the employability skills of students through Career Guidance Seminars, seminars on Improving Employability Skills, and a

special initiative on Aptitude and Soft Skills Training. In order to provide information on Overseas Education, we also conduct short-term programs on Education Abroad. It has been our constant endeavour to make sure our students are updated and possess all the necessary skills that make them successful engineers. VPPCOE&VA'S student Mentoring System has been developed for establishing a better and effective relationship between students and teacher and also to continuously monitor, counsel and guide students in educational and personal matters. The institution's performance in prioritizing experiential learning, skill development, and holistic education through its curricular offerings, cutting-edge facilities, and vibrant extra-curricular ecosystem reflects its unwavering commitment to nurturing well-rounded individuals equipped to excel in the modern world.

The institution makes sure our would be engineers are creative, competitive and are ethically oriented and also have a sense of fair competition, and are guided to contribute to the growth of the society and the nation.

2. PROFILE

2.1 BASIC INFORMATION

Name and Address of the College	
Name	VASANTDADA PATIL PRATISHTHAN'S COLLEGE OF ENGINEERING AND VISUAL ARTS
Address	Vasantdada Patil Educational Complex, Eastern express Highway, Padmabhushan Vasantdada Patil Marg, Sion, Mumbai
City	Mumbai
State	Maharashtra
Pin	400022
Website	www.pvppcoe.ac.in

Contacts for Communication					
Designation	Name	Telephone with STD Code	Mobile	Fax	Email
Principal	Alam N. Shaikh	022-20840325	9082957589	-	principal@pvppcoe.ac.in
Professor	Pravin H. Yadav	022-20847227	9860312518	-	prof.pravinyadav@pvppcoe.ac.in

Status of the Institution	
Institution Status	Private

Type of Institution	
By Gender	Co-education
By Shift	Regular

Recognized Minority institution	
If it is a recognized minroity institution	No

Establishment Details

State	University name	Document
Maharashtra	University of Mumbai	View Document
Maharashtra	University of Mumbai	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	24-04-2024	12	EOA is generated yearly
AICTE	View Document	24-04-2024	12	EOA is generated yearly

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	Vasantdada Patil Educational Complex, Eastern express Highway, Padmabhushan Vasantdada Patil Marg, Sion, Mumbai	Urban	7.5	8991

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	BE,Computer Engineering ,Computer Engineering	48	HSC	English	120	119
UG	BE,Information Technology,Information Technology	48	HSC	English	120	119
UG	BFA,Applied Art,Applied Art	48	HSC	English	60	49
UG	BE,Artificial Intelligence And Data Science,Artificial Intelligence and Data Science	48	HSC	English	60	59
UG	BFA,Painting,Painting	48	HSC	English	30	14
UG	BVoc,Interior Design,Interior Design	48	HSC	English	30	21

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	7				23				66			
Recruited	5	2	0	7	12	11	0	23	30	36	0	66
Yet to Recruit	0				0				0			
Sanctioned by the Management/Society or Other Authorized Bodies	0				0				0			
Recruited	0	0	0	0	0	0	0	0	0	0	0	0
Yet to Recruit	0				0				0			

Non-Teaching Staff				
	Male	**Female**	**Others**	**Total**
Sanctioned by the UGC /University State Government				0
Recruited	0	0	0	0
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				66
Recruited	48	18	0	66
Yet to Recruit				0

Technical Staff				
	Male	**Female**	**Others**	**Total**
Sanctioned by the UGC /University State Government				0
Recruited	0	0	0	0
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				34
Recruited	26	8	0	34
Yet to Recruit				0

Qualification Details of the Teaching Staff

Permanent Teachers										
Highest Qualification	**Professor**			**Associate Professor**			**Assistant Professor**			
	Male	Female	Others	Male	Female	Others	Male	Female	Others	Total
D.sc/D.Litt/ LLD/DM/M CH	0	0	0	0	0	0	0	0	0	0
Ph.D.	5	2	0	7	8	0	0	0	0	22
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	5	3	0	30	36	0	74
UG	0	0	0	0	0	0	0	0	0	0

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Temporary Teachers									
Highest Qualification	Professor			Associate Professor			Assistant Professor		
	Male	Female	Others	Male	Female	Others	Male	Female	Others	Total
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	2	6	0	8
UG	0	0	0	0	0	0	0	0	0	0

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

Details of Visting/Guest Faculties				
Number of Visiting/Guest Faculty engaged with the college?	Male	Female	Others	Total
	8	2	0	10

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	1129	19	0	0	1148
	Female	549	7	0	0	556
	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	131	131	137	130
	Female	76	69	59	62
	Others	0	0	0	0
ST	Male	12	7	2	2
	Female	6	5	3	1
	Others	0	0	0	0
OBC	Male	241	221	211	199
	Female	107	95	87	89
	Others	0	0	0	0
General	Male	702	644	640	541
	Female	319	281	255	201
	Others	0	0	0	0
Others	Male	96	77	61	48
	Female	35	29	30	24
	Others	0	0	0	0
Total		1725	1559	1485	1297

Institutional preparedness for NEP

1. Multidisciplinary/interdisciplinary:	The National Education Policy (NEP) 2020 emphasizes developing the creative potential of each individual. The institution is committed to providing an educational experience that aligns with the goals

	of the NEP. This includes creating an environment where students can develop both their cognitive and non-cognitive skills, ensuring they are well-prepared for the demands of the modern world. Institute strives to contribute to journey of transformation by nurturing knowledgeable, ethical, and capable individuals who can lead and innovate in various fields, thereby helping India achieve its vision of becoming a global leader in knowledge and education. VPPCOE&VA conducts the various STTP and FDP programs for the faculties and also motivates faculty members to attend webinars, workshops, STTPs, FDPs, ATAL courses, etc. in multidisciplinary fields. Institute provides the multidisciplinary environment by providing honors degree in cyber security, block chain, data science and artificial intelligence, and by providing the electives in various semesters to get exposure of the multidisciplinary knowledge to the students. The students are encouraged to choose mini projects and major projects based on the multidisciplinary areas.
2. Academic bank of credits (ABC):	VPPCOE&VA is affiliated to University of Mumbai and thus follows the choice based system of University. Currently the academic credit data is maintained digitally at college level. As per the guidelines of University of Mumbai the academic credit data will be made available on MKCL portal.
3. Skill development:	As per the guidelines of NEP 2020, University of Mumbai promoted more skill oriented subjects in their curriculum. Along with university curriculum, institute also conduct different value addition programs for the skill development the students. Institute also provided technical as well as soft skill trainings. Institute organizes various cocurricular and extra-curricular activities through the different professional societies, clubs and student chapters. Students are motivated to participate in extracurricular activities and organize events both on and off campus. These experiences help them explore and develop a range of qualities, including managerial and leadership skills, planning and enterprising skills, and interpersonal skills.
4. Appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using online course):	VPPCOE&VA promotes the Indian language and cultures by conducting various activities to understand the importance of the same among the students. Students are motivated to learn the new

	courses and culture in regional language through online SWAYAM platform. This removes the language barrier to the students and helps students clear their basic understanding. Faculty members also use regional language during learning as and when required and demand by the students to clear their doubts and concepts. To promote the Indian culture, various cultural fests are organized like "Mayboli" as cultural event during annual cultural program focusing on various Maharashtrian traditions and cultures.
5. Focus on Outcome based education (OBE):	All the departments are following the Outcome Based Education concepts for the betterment of the students. The entire process aims to realize value addition by transforming students admitted to the program into capable technocrats. This transformation ensures that they possess sound domain knowledge and a satisfactory level of professional skills and attributes, making them ready for employment in the technical world. According to norms of National Board of Accreditation, based on vision and mission of the institute, program education outcomes (PEO) are defined. Along with graduate attributes provided by Washington Accord, program outcomes (PO's) and Program Specific Outcomes (PSO's) are defined. For Applied Arts program, PEO's, PO's and PSO's are defined by the program. For all subject course outcomes (CO'S) are defined before start of course. The same is measured timely by calculating the attainment levels of the course outcomes and program outcomes. If required corrective actions are taken to improve the attainment. The departments adopt teaching-learning process to achieve outcomes like technical skills, good communication and presentation skills, attitudes by giving platform through project presentations, group discussions, group projects, etc.
6. Distance education/online education:	Online education is the need of time which is focused in new education policy also. Institute promotes online learning through Spoken tutorial and NPTEL online courses. Credit transfer benefits are given to the students as per the norms of parent university. During COVID-19 pandemic also institute successfully completed its academic activities through online mode through different platforms like Google meet and My Perfectise platform. This shows that assess to the online recourses is not the constraint

anymore. Moodle as a learning management system used by all faculty members. E-learning facilities are further strengthened by providing smart classrooms, digitalization and providing content creation facility.

Institutional Initiatives for Electoral Literacy

1. Whether Electoral Literacy Club (ELC) has been set up in the College?	Yes
2. Whether students' co-ordinator and co-ordinating faculty members are appointed by the College and whether the ELCs are functional? Whether the ELCs are representative in character?	Yes
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.	VPPCOE&VA has taken following initiatives to create awareness and importance of exercising their Right to Vote. 1. Organised voters awareness rally on campus, surrounding residential area and market. 2. Volunteers created awareness amongst the people living in neighbouring Wadala slum and guided them with entire process of voting and its importance.
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.	As a socially relevant project VPPCOE&VA has celebrated National Voters Day at Kalaghoda Mumbai. The main purpose of the event is to encourage, facilitate and maximize enrollment specially for new voters and also a voters pledge campaign was organized to raise awareness about importance of voting in democratic process and a sense of civic duty and responsibility among community members.
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.	VPPCOE&VA has undertaken proactive efforts to promote civic engagement and democratic participation by initiating a voters registration drive at institute. Social media platforms and classroom announcements were utilised to spread information about the event and importance of registering as a would be voter.

Extended Profile

1 Students

1.1

Number of students year wise during the last five years

2022-23	2021-22	2020-21	2019-20	2018-19
1725	1558	1485	1297	1218

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: 154

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

2022-23	2021-22	2020-21	2019-20	2018-19
111	105	90	80	84

3 Institution

3.1

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

2022-23	2021-22	2020-21	2019-20	2018-19
664.733	386.65	264.399	319.80	313.01

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:

 VPPCOE&VA ensures effective curriculum delivery through a well-planned and documented process. Institute is being affiliated with University of Mumbai, it is restricted to follow guidelines, the curriculum and academic calendars prescribed by university. VPPCOE&VA continuously strives to create techno-managerial cadres who can engage effectively to contribute for the development of the nation. Therefore, the institute has effective planning methods to ensure the effective curriculum delivery and extra curricular activities. The implementation of the planned process and monitoring of the various activities are being coordinated by various institute level and department levels committees. The outcome of the same is measured through various graduate attributes, Program Educational Objectives (PEO), the Program Outcomes (PO), and Program Specific Outcomes (PSO).

Academic Planning:

The institute prepares academic calendar at the start of the semester as per the guidelines of the university which includes curriculum delivery, internal assessment, academic audits, technical activities, PTIM, and other extra curricular activites. All the departments follow the same and plan academics accordingly, which enables the implementation at micro level.

Academic execution process is streamlined by allocating the subjects to the faculties as per the choice-based, the domain knowledge / area of specialization of the faculty and past performance. Once the subject allocation is done, orientation of the allocated subject is scheduled, which covers the overview of the subject. The time table committee of the department prepares the time table for theory and laboratory sessions, tutorials, etc. in line with academic calendar.

Curriculum delivery in adherence to academic calendar:

The curriculum delivery starts with conduction of bridge course and pre-requisite tests. The lectures & practicals are conducted on regular basis by each faculty to cover the portion as prescribed in the syllabus. The delivery mechanism involves an extensive use of Information for Communication Technologies (ICT), internet and online resources. In this process the faculty deploys well prepared lecture notes through digital presentations and uses internet facility to deliver video lectures.

The effective measure and quality check of the same is done by regular academic audits by the appointed team of experts from the institute. Timely feedback is collected from stake holders like students, parents, employer, etc. and corrective meaures taken as per the analysis of the feedback which will help for the effective execution of the planned procedure. Along with curriculum institute offers various certificate

courses, trainings, seminars and work shops for the students are arranged.

Continuous Internal Assessment

The institute has adopted the transparent and robust policy of continuous evaluation. As per univeristy guidelines and Internal Assessment (IA)-I and Internal Assessment (IA)-II are conducted for evaluation of the students. Apart from these, lab performance and assignments are evaluated by concerned faculty as per rubrics.The attainment of COs, POs and PSOs are computed with 20% weightage to internal and 80% weightage to external assessment. These attainment levels of the departments are monitored in regular intervals and corrective measures are taken accordingly.

This well-defiend procedure helps the effective delivery of the curriculum leads to overall growth of the sudents.

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: 27

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](#)

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: 50.42

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

2022-23	2021-22	2020-21	2019-20	2018-19
875	702	832	722	541

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:

VPPCOE&VA , being a affiliated institute, the academic flexibility is not possible still the institute takes various initiatives for creating awareness about cross cutting the issues. As part of the curriculum various subjects are included to make the students aware about professional ethics & to increase the awareness about environment related issues. If the courses are opted by the then these courses are provided

Following are the details of the various courses in the curriculum

1.Professional Communication & Ethics

2. Disaster Management and Mitigation Measures

3.Energy Audit and Management

4. Professional Ethics and Corporate Social Responsibility (CSR)

5. Entrepreneurship Development and Management

6. Digital Business Management

7. Environmental Management

with the delivery of the above mentioned courses students will understand the professional ethics and the responsibile behaviour towards the environment. Along with this, institute conducts various activities, like workshops and seminars through the various students' committees like NSS Unit, WDC, ECO club, etc.

File Description	Document
Upload Additional information	[View Document](#)
Provide Link for Additional information	[View Document](#)

1.3.2

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

Response: 43.54

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

Response: 751

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](#)
Provide Links for any other relevant document to support the claim (if any)	[View Document](#)

Criterion 2 - Teaching-learning and Evaluation

2.1 Student Enrollment and Profile

2.1.1

Enrolment percentage

Response: 83.23

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

2022-23	2021-22	2020-21	2019-20	2018-19
378	348	330	284	208

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

2022-23	2021-22	2020-21	2019-20	2018-19
420	420	420	360	240

File Description	Document
Institutional data in the prescribed format	[View Document](#)
Final admission list as published by the HEI and endorsed by the competent authority	[View Document](#)
Document related to sanction of intake from affiliating University/ Government/statutory body for first year's students only.	[View Document](#)

2.1.2

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

Response: 84.54

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

2022-23	2021-22	2020-21	2019-20	2018-19
121	117	105	98	62

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

2022-23	2021-22	2020-21	2019-20	2018-19
132	131	132	121	79

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: 15.54

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:

20-09-2024 11:37:58

In the realm of engineering education, there's a growing recognition of the need to move beyond traditional teaching methods and embrace innovative approaches that actively engage students in the learning process. Student-centric methods such as experiential learning, participative learning, and problem-solving methodologies are increasingly being integrated into engineering curricula to enhance learning experiences and better prepare students for the challenges of the engineering profession.

Experiential learning, a cornerstone of engineering education, emphasizes hands-on experiences where students learn through direct engagement with real-world engineering challenges. Whether it's designing and building prototypes through mini and major projects, conducting experiments in laboratories, or participating in internships programs, experiential learning provides students with valuable opportunities to apply theoretical knowledge to practical situations. By actively engaging in the engineering design process, students develop critical skills such as problem-solving, teamwork, and project management, while also gaining a deeper understanding of engineering principles and concepts.

Participative learning is another essential component of engineering education, fostering collaboration, communication, and critical thinking skills among students. In engineering classrooms, participative learning takes many forms, including group discussions, case studies, think pair and share, turn and talk, lead and win, unfold the knowledge, just a minute and peer to peer learning. By working together with their peers to solve complex engineering problems, students learn from each other's perspectives, share ideas, and develop innovative solutions. This collaborative approach mirrors the teamwork and interdisciplinary collaboration that is integral to the engineering profession, preparing students for success in their future careers.

Problem-solving methodologies are also fundamental to engineering education, as engineers are constantly faced with challenges that require analytical thinking and creative problem-solving skills. In engineering classrooms, students are presented with authentic, real-world problems that require them to apply their knowledge of mathematics, science, and engineering principles to develop solutions. By engaging in problem-solving activities, students learn to think critically, analyze data, and make informed decisions – essential skills for success in the engineering field.

In addition to these student-centric methods, technology plays a crucial role in enhancing the teaching and learning process in engineering education. ICT-enabled tools such as computer simulations, virtual labs, and online learning platforms such as Google Classrooms, Moodle, Spoken Tutorial and NPTEL provide students with access to resources and experiences that complement traditional classroom instructions. These tools enable students to visualize complex engineering concepts, conduct experiments in virtual environments, and collaborate with peers in online forums and discussion groups. By leveraging technology, engineering educators can create immersive and interactive learning experiences that cater to the diverse learning styles and preferences of today's students.

In conclusion, student-centric methods such as experiential learning, participative learning, and problem-solving methodologies, supported by ICT-enabled tools, are transforming the landscape of engineering education. By prioritizing active engagement, collaboration, and critical thinking, these approaches empower students to become lifelong learners who are equipped with the skills and knowledge they need to succeed in the dynamic and rapidly evolving field of engineering. As educators continue to innovate and adapt their teaching practices, engineering education will continue to evolve, ensuring that future generations of engineers are well-prepared to tackle the complex challenges.

File Description	Document
Upload Additional information	[View Document](#)

2.4 Teacher Profile and Quality

2.4.1

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

Response: 100

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

2022-23	2021-22	2020-21	2019-20	2018-19
111	105	90	80	84

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: 14.68

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

2022-23	2021-22	2020-21	2019-20	2018-19
24	18	11	9	7

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:

The Vasantdada Patil Pratishthan's College of Engineering and Visual Arts, Mumbai is affiliated to University of Mumbai, a premier educational institution, employs a transparent and efficient mechanism for both internal and external assessments. The university conducts first-year and final-year examinations, while college, acting on its behalf, conduct second and third-year examinations. Additionally, college conducts internal assessments in each semester, termed as Internal Assessment I and II. The assessment process includes oral and practical examinations, overseen by both internal and external examiners, in accordance with university guidelines.

The assessment of both internal and university examinations is conducted as per the guidelines set by the University of Mumbai, ensuring fairness and consistency. The exam section has established a Student Grievances Committee, as mandated by the University, comprising a convener and members to address student grievances related to examinations. This committee ensures that grievances are handled in a time-bound and efficient manner, promoting transparency and accountability.

The internal assessment process at the college is structured and systematic. College is required to follow the assessment guidelines provided by the university, ensuring uniformity across all affiliated institutions. Internal Assessment I and II in each semester are designed to assess students' understanding and application of concepts taught in the classroom. These assessments not only contribute to the overall grade but also help in identifying areas where students may need additional support and guidance.

The university also emphasizes the importance of external assessments, which are conducted to evaluate students' overall performance and understanding of the subject. External examiners are appointed by the college as per the norms suggested by university to ensure impartiality and fairness in the assessment process. The university's guidelines for external assessments are designed to maintain high academic standards and integrity.

The grievance redressal system at the college is robust and student-centric. The Student Grievances

Committee is responsible for addressing grievances related to examinations promptly. Students can submit their grievances in writing to the committee, which is then reviewed and resolved within a specified time frame. The committee ensures that all grievances are handled fairly and transparently, maintaining the trust and confidence of students in the examination process.

In conclusion, the college has implemented a transparent and efficient assessment mechanism, ensuring that both internal and external assessments are conducted in accordance with the university's guidelines. The establishment of the Student Grievances Committee further demonstrates the institutes commitment to addressing student grievances in a timely and effective manner.

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:

The institute has switched over to Outcome Based Education (OBE) to impart education through student centric approach, to increase the students' employability and follow outcome oriented teaching learning process. Programme Outcomes (POs), Programme Specific Outcomes (PSOs), and Course Outcomes (COs) have been formulated for all the UG programs. Programme Outcomes (POs) represent the graduate attributes formulated as per Washington Accord and adopted by National Board of Accreditation. Programme Specific Outcomes (PSOs) are specifically defined outcomes of the programme which the graduates have to acquire by the end of the programme. Program Outcomes (POs), Program Specific Outcomes (PSOs) of all the UG Programmes have been disseminated to the stake holders as follows:

- Display Media: Departmental Corridors

- Electronic Media: https://pvppcoe.ac.in/

- Communication Media: Orientation Program, Induction Program, Alumni Meet, Different Meetings, Mentor's Meet

- Record books: Lab manuals, student's lab journals, attendance record book

Process of CO formation:

- Course Outcomes: COs (Course Outcomes) are statements that describe what students should be

able to do at the end of a course. Number of course outcomes are around to be 3 to 6 for a course. Course outcomes are specific, measureable, achievable. COs can be written using Blooms Taxonomy's action verbs.

Process of PO formation:

- POs (Program Outcomes) are statements that describe what the students graduating from the programme should be able to do. POs are independent to all engineering programmes. i.e. it is common for all engineering programmes . Number of POs as defined for engineering and visual arts' programs are twelve.

These COs are discussed and finalized by respective course incharge and Departmental Advisory Board. Correlation matrices are generated to link Courses with their outcomes, POs and PSOs. These matrices specify the correlation in terms of high, medium and low (3, 2 and 1 respectively) indicating the levels. The average mapping of Program Outcomes for the given program is obtained by averaging the levels of mapping for each of the courses. Similarly the averaging is done for Program Specific Outcomes as well.

The Course Outcomes (COs) delineate the anticipated knowledge and skills that students will gain upon completing a course. These outcomes are meticulously crafted for all courses within the various programs offered. Each course's COs are developed by the respective instructor at the beginning of the semester, drawing from the university syllabus, and are then uploaded onto the college website. A teaching plan, curated by the subject teacher, outlines approximately six (6) measurable and precise COs, aligning with Bloom's Taxonomy across all cognitive levels.

During introductory lectures for each course, students are acquainted with the COs. If necessary, COs are revised after approval from the departmental committee. Program Outcomes (POs), rooted in Graduate attributes, are widely disseminated among stakeholders, prominently showcased on departments' notice boards, in laboratories, classrooms, college brochures, and on the institute's website.

Dissemination of PO, PSO, CO

Sr. No.	Particulars of Publication and dissemination	Internal Stakeholders	External Stakeholders
1	Departments' pages on institute's website Link	?	?
2	Departmental Corridors	?	?
3	Attendance Record Book	?	?
4	Department's Newsletter's	?	?
5	Orientation Program,	?	?

	Induction Program, Alumni Meet, Different Meetings, Mentor's Meet		
6	Course Files Laboratory Journals, Project Log Books	?	

File Description	Document
Upload 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 following steps are followed to calculate the attainment levels of Programme Outcomes (PO), Program Specific Outcomes (PSO) and Course Outcomes (COs).

1. Members of faculty formulate COs for their respective subjects every semester are mapped to POs and PSOs

2. The assessment techniques are mapped to COs.

3. The target attainment levels are set for each course based on previous results.

4. At the end of the semester, the attainment levels of each CO are calculated based on the assessment evaluation.

5. The CO attainment levels are used to calculate the attainment level of each PO and PSO.

Attainment of Course Outcomes

Course Outcomes are learning goals that a student is expected to learn at the end of the course.The teacher's lectures plan includes approximately six (6) Course Outcomes (COs) that are measurable, precise, and cover all cognitive levels of Bloom's Taxonomy.

Various assessment techniques like internal assessment test, assignment, lab experiment, project

evaluation, etc are used to assess COs.

Attainment level is calculated as follows:

Attainment level 1: 40% of students scoring more than 50% marks.

Attainment level 2: 60% of students scoring more than 50% marks.

Attainment level 3: 70% of students scoring more than 50% marks.

Each CO in a given course is mapped to POs/PSOs as shown in Table 1.

Table 1. Course-PO matrix of course

| Course Name: Big Data Analytics (ITDO8011) CO Vs PO PSO | | | | | | | | | | | | | | |
| PO | | | | | | | | | | | | | PSO | |
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
ITDO8011.1	2	2	2	-	-	-	-	-	-	-	-	-	2	2
ITDO8011.2	3	3	3	2	2	-	-	-	-	-	-	-	2	2
ITDO8011.3	2	2	2	2	2	-	-	-	-	-	-	-	3	2
ITDO8011.4	3	3	3	3	2	-	-	-	-	-	-	-	3	2
ITDO8011.5	3	3	3	3	3	-	-	-	-	-	-	-	3	2
ITDO8011.6	3	3	3	2	2	-	-	-	-	-	-	-	3	2
AVERAGE	2.67	2.67	2.67	2.40	2.20	-	-	-	-	-	-	-	2.67	2.00

1: low 2: Moderate 3: High

Table 2 shows overall CO-PO mapping of all courses

Table 2. PO-PSO attainment of each course including First year

Evaluation of each PO & PSO for A Y 2022-23															
Sr No	Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
1	FEC101	2.01	1.90	1.62	0.98	0.98	-	-	-	-	-	-	0.67	0.81	0.81
.	…	…	…	…	…	…	…	…	…	…	…	…	…	…	…
79	ILO8011	1.80	1.80	1.72	1.77	0.86	-	-	-	-	1.93	1.61	0.90	0.90	0.90
82	ITDO8011	2.31	2.31	2.31	2.04	1.85	-	-	-	-	-	-	-	2.34	1.75
83	ITP801	2.44	1.71	1.47	0.98	1.96	1.63	2.91	1.47	2.34	2.60	2.60	2.11	2.28	1.95
Average		2.14	1.83	1.73	1.39	1.70	1.61	1.81	1.66	1.87	2.19	1.93	1.33	1.68	1.48

File Description	Document
Upload Additional information	[View Document](#)

2.6.3

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

Response: 94.61

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

2022-23	2021-22	2020-21	2019-20	2018-19
347	298	389	342	239

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

2022-23	2021-22	2020-21	2019-20	2018-19
410	313	392	342	250

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: 3.63

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: 13.7

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

2022-23	2021-22	2020-21	2019-20	2018-19
1.89	1.03	00	9	1.78

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:

VPPCOE&VA belives in the ecosystem for innovations and developing creative engineers who can contribute to the progress of the nation by develoiping niche startups thereby publishing and securing patents which will aid to the research and development.

VPPCOE&VA has set up an incubation center to promote innovation and entrepreneurship among the faculty, staff, research scholars, and students of the institute and start-ups. To accomplish its goal, the incubator runs and manages a center of innovation and technology business incubator at VPPCOE&VA .This process and system will also facilitate intellectual property ownership management, technology licensing and institutional start up policy, thus enabling creation of a robust innovation and start-up ecosystem in VPPCOE &VA .

Pre-Incubation/Incubation facility made available 24*7 to students, staff and faculty of all disciplines and departments across the institute including start-up vicinity with all the communication equipment, computers, printers and copier, scanner etc. The institute also helps them by providing shared resources like conference room, meeting room, laboratory, library etc. at institute level. As a result the institute has incubated a few startups like Edukandar, Project Triangle, website for Shalini Sahakari Bank Ltd, Smart Soldiers Strap, Pothole Detection using IoT, etc.

VPPCO&VA has established Institute's Innovation Council (IIC) as per the guidelines of MHRD'S Innovation Cell and allocate appropriate budget for its activities related to innovation start up and entrepreneurship development, collective and concentrated efforts has been undertaken to identify, scout, acknowledge, support and reward students' proven ideas and innovation and to further facilitate their entrepreneurial journey.

As a part of all this, institute strongly belives that an engineering institute is not only about imparting technology education to the aspiring engineers but also developing and creating a mindset of research and development among them. this will also facilitate the creation of intellectual property rights aiding the same. This resulted in the increase of number of patents developed by students and the teaching staff of the institute.

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: 82

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

2022-23	2021-22	2020-21	2019-20	2018-19
30	21	10	12	09

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: 0.05

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

2022-23	2021-22	2020-21	2019-20	2018-19
0	3	0	3	2

File Description	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](#)
Provide Links for any other relevant document to support the claim (if any)	[View Document](#)

3.3.2

Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during last five years

Response: 0.22

3.3.2.1 **Total number of books and chapters in edited volumes/books published and papers in national/ international conference proceedings year wise during last five years**

2022-23	2021-22	2020-21	2019-20	2018-19
34	0	0	0	0

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](#)
Provide Links for any other relevant document to support the claim (if any)	[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:

VPPCOE&VA is committed for overall dvelopment of students. Institute is undertaking various initiatives and activities for social development. Institute has exclusive NSS Unit of 100 registered volunteers, ECO club of first year students etc.These committees organise various events and activities to cerate awareness about the social responsibility among the students.

Impact of extension activities in society and neighborhood community:

NSS Unit has improved in the quality of life within communities through initiatives like health check up camps and educational workshops. It addressed the immediate needs of the society by undertaking various social initiatives like blood donation drives, beach cleaning exercises, tree plantation drives, book donation drives, the wall of humanity activity in which essential material like clothes and grocery is distributed among the marginalised and downtrodden strata of the society. These activities create avery positive ripple effect within among the neighborhoods.

Sensitization to Social Issues:

The NSS unit exposes its student-memebrs to a wide array of social issues, including environmental conservation and gender equality by conducting street plays, creation of short films, among others. This develops among the students and faculty the empathy, compassion and a social responsibility thereby creating samaritans who are responsible for the needs of the marginalised memebrs of the society

Personal and Professional Development:

- Cultivation of essential life skills such as leadership, teamwork, and communication.
- Building confidence, resilience, and a sense of purpose.

- Preparation for success in academic and professional spheres.

Civic Engagement and Active Citizenship:

- Encouragement of participation in the democratic process and advocacy for positive change.
- Instilling values of social justice, democracy, and human rights.
- Fostering a culture of civic engagement and conscientious citizenship.

In summary, NSS Units activities within neighborhood communities yield multifaceted outcomes, including tangible impacts on community development and intangible benefits for students' growth. Through sensitization to social issues, personal and professional development, and promotion of civic engagement, NSS Unit plays a vital role in nurturing well-rounded individuals committed to building a more equitable and inclusive society.

File Description	Document
Upload Additional information	[View Document](#)

3.4.2

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

Response:

The NSS Unit of VPPCOE&VA, University of Mumbai, has received several commendations and awards for its outstanding contributions and active participation in various events:

Blood Donation Drives: The NSS Unit has received appreciation and a memento from the Vice Chancellor, Prof. (Dr.) Suhas Pednekar, University of Mumbai, for its significant involvement in Blood Donation Drives at major railway stations. In one instance, they collected an impressive total of 223 units of blood and in another drive, they collected 115 units of blood.

State Level Adventure Camp: Miss Krupa Patel, a student from TE-COMPS was selected to participate in the State Level Adventure Camp at Amravati from 2nd Nov 2022 to 6th Nov 2022, providing her with an opportunity for personal growth and adventure.

State Youth Parliament: Miss Krupa Patel was also selected to participate in the State Youth Parliament at University of Mumbai from 18th to 19th April 2023, showcasing her leadership and oratory skills.

National Integration Camp: Mr Arya Ganesh Dandekar of Vasantdada Patil Pratisthan's College of Engineering and Visual Arts participated in the Meri Mati, Mera Desh (National Integration Camp) at Kartavya Path, New Delhi from Oct 29, 2023 to Nov 2, 2023, contributing to national unity and

understanding.

Disaster Management Training: Miss Neha Mishra and Mr Krishna Pandey were selected for the Maharashtra State Inter- University Disaster Management Training at Gondwana University, Gadchiroli, Maharashtra, furthering their skills in disaster response and preparedness.

Intercollegiate Competition: The NSS Unit has secured accolades in the District Level Intercollegiate Competition- Aagaaz 2024, winning the 1st Prize in Group Dance and the 2nd Prize in Street Play, showcasing their talents and creativity.

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: 145

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

2022-23	2021-22	2020-21	2019-20	2018-19
37	35	21	22	30

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: 17

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
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 institute is located in the heart of Mumbai city.The institute building has two wings with total area of 9149.20 sq.meters.This includes four departments,central library, classrooms, seminar halls, tutorial rooms, laboratories, workshop, drawing halls, specialized facilities and equipment for teaching and learning.

The institute has effective policy in order to create and enhance the infrastructure that facilitates effective teaching and learning.This policy ensures maximum and optimum utilization of the space and infrastructure so that the end user gets the best out of the available.

The institute has an enough space for conducting classes and related academic activities including seminar halls equipped with LCD projectors and laboratories with advanced equipment. Apart from these, various facilities are available which augment the academic activities.

The institute has a total of 24 classrooms equipped with ICT enabled facilities of which 02 classrooms are smart classrooms. The institute infrastructure includes a total 35 laboratories, of which one computer centre of area 152 sq.mt. It also includes one language lab of area 40 sq.mt. The institute has total 06 tutorial rooms and 02 seminar halls. The institute has central library of area 404 sq.mt which includes reading room and digital library.

There are good number of personal computers strategically distributed across various departments. Each of these systems is meticulously equipped with internet connectivity, ensuring seamless access to online resources, and incorporates the latest software versions to enhance user experience. Wi-Fi facility is also available on the campus.

The institute has a spacious adminstrative area, central store, examination section, students' section, placement office, girls' common room, boys' common room, stationary store, medical room, etc. In each department HOD cabin, staff room, department office is available.

Institute has a gymnasium containing modern equipment. It has amenities for both indoor & outdoor games. In indoor games, there are sports facilities like table tennis facility, carom and chess boards, etc. For playing various outdoor sports, the institute has a playground of area of 16810.4 sq.mt. on the play ground, the facilities for playing cricket and football are also made available.

Institute has a psychological counsellor for students who conducts counselling lectures to test various aspects of personality, ability and aptitude of the students. The institute has also appointed a medical doctor in case an emergency medical issue surfaces. To provide medical facility for minor injuries, every floor has first aid box which is easily accessible to students & staff.

The institute has a wheelchair facility as well as a comfortable ramp for physically challenged and special washrooms are also made available for them

Institute has installed CCTV cameras cocvering the entire campus.The common facilities like cafeteria, drinking water, washroom facilities, etc. are available on the campus. Other facilities like meter room, maintenance room, pump house, housekeeping, security office, vehicle parking area are available on the campus. In case of electric supply failure, institute has its own electric generator unit. In case of fire mishaps, institute has also installed and placed the fire extinguisher system. The institute has installed solar roof top unit of capacity 72.96KW.

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: 27.83

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

2022-23	2021-22	2020-21	2019-20	2018-19
340.97	34.81	66.47	41.36	58.77

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 institute has central library with an area of 404 sq.mt which includes reading room and digital library. The library is managed by the ILMS software, e-Granthalaya which is fully automated.

The e-Granthalya library software is developed by National Informatics Centre (NIC), Ministry of Electronics and Information Technology, Government of India. The software provides built-in Web OPAC interface to publish the library catalog over Internet and is UNICODE Compliant thus supports data entry in English language. Users within the campus can access various books /journals/titles by its authors' names using the link.

The library subscribes to a variety of e-resources to enhance its digital collection. For e-journals, it provides access to the IET and springer nature e-journals. These resources are accessible via the respective platforms: springer.com. Additionally the library offers knimbus e-books accessible through the knimbus platform at http://pvppcoe.knimbus.com.

For e-resources' access, the library maintains institutional memberships, including DELNET institutional membership and ILMS e-Granthalaya.These memberships facilitate both local and remote access to various databases and resources with DELNET accessible at www.delnet.com.

Both students and staff members are actively utilizing its resources. The fact that the digital library facilities are being utilized alongside the physical reading room indicates a well-rounded approach to providing access to information. The circulation of books also highlights the continued importance of traditional library materials even in an increasingly digital age.

In an era of digital technology like, laptops, tabs and ipads and also mobile phones the institute and its authorities belives that students should read print by visiting and issuing books from the library. So, the efforts are aligned to make sure students read physical books and not mearly study from digital devices. The facility of library enriches students' lives and helps them become good and quality engineers.

File Description	Document
Upload 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:

The institute prides itself on maintaining an extensive inventory of 653 personal computers distributed across various departments. Each of these systems is equipped with internet connectivity, ensuring seamless access to online resources, and incorporates the latest software versions to enhance user experience.

Responding to the escalating academic demands, the institution demonstrated its commitment to technological advancement by acquiring 375 cutting-edge computers during the specified academic year. These advanced Dell Optiplex systems, featuring configurations with 8GB RAM and 1TB hard disks, were thoughtfully integrated into the existing infrastructure, complemented by the addition of new printers to enhance overall functionality.

A noteworthy aspect of the institute's services is the provision of complimentary and uninterrupted internet access for all users. This underscores the institution's dedication to facilitating seamless connectivity for academic and research purposes. This commitment extends to regular upgrades in Local Area Network (LAN) speed and bandwidth. Notably, there has been a significant improvement in LAN bandwidth from 50 Mbps to the current 300 Mbps, reflecting the institute's dedication to optimizing network capabilities. Moreover, the campus-wide Wi-Fi connectivity further emphasizes the institution's commitment to ensuring ubiquitous access to digital resources.

The bandwidth available for the internet connection in the institution, provided through a leased line, is 300 Mbps (megabits per second). This capacity determines the maximum data transfer rate available for users accessing online resources, browsing the web, and conducting other internet-related activities within the institution's network.

Additionally, the institution provides campus-wide Wi-Fi, showing its dedication to making sure everyone can easily access digital resources from anywhere on campus. This is facilitated by the deployment of a comprehensive network infrastructure comprising 85 indoor access points and 5 outdoor access points, each operating at a data rate of 300 Mbps. These access points are strategically configured across the designated area, ensuring seamless coverage and accessibility. Furthermore, the utilization of dual-frequency bands, namely 2.4 GHz and 5.8 GHz, optimizes the network's performance and minimizes interference, thereby fostering an environment conducive to uninterrupted productivity and connectivity.

File Description	Document
Upload Additional information	[View Document](#)

4.3.2

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

Response: 3.13

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

Response: 552

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: 25.68

4.4.1.1 **Expenditure incurred on maintenance of infrastructure (physical facilities and academic support facilities) excluding salary component year wise during the last five years (INR in lakhs)**

2022-23	2021-22	2020-21	2019-20	2018-19
78.35	134.50	84.30	95.11	108.15

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: 70.05

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

2022-23	2021-22	2020-21	2019-20	2018-19
1253	975	1020	947	907

File Description	Document
Year-wise list of beneficiary students in each scheme duly signed by the competent authority.	[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: 65.73

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

2022-23	2021-22	2020-21	2019-20	2018-19
1245	506	701	1126	1209

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: B. 3 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: 75.79

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

2022-23	2021-22	2020-21	2019-20	2018-19
288	260	321	213	142

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

2022-23	2021-22	2020-21	2019-20	2018-19
347	298	389	342	239

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**
Provide Links for any other relevant document to support the claim (if any)	**View Document**

5.2.2

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

Response: 5.37

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

2022-23	2021-22	2020-21	2019-20	2018-19
10	5	0	3	3

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: 33

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

2022-23	2021-22	2020-21	2019-20	2018-19
11	4	7	8	3

File Description	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: 22.6

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

2022-23	2021-22	2020-21	2019-20	2018-19
42	18	12	19	22

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:

VPPCOE &VA interaction with alumni goes back to 20 long years. Institue has a registered alumni association from December 2, 2017, with a registration number of 2872. Institute has a very strong relationship with its alumni. Every year the institute organizes an alumni meet wherein provides a platform to our accomplished alumni to showcase their achievements and encourage their juniors. During meet alumni are invited to share their inspiring memories and take keen interest in the development of current students and explore opportunities for training and placement. The Alumni Association facilitates bridging the gap between young upcoming engineers and accomplished alumni in accordance with industry needs and brings the theoretical knowledge and practical experiences together. The institue is connected to alumni through social networks, Facebook, WhatsApp, etc. and interact formally and informally. The suggestions given by the alumni are of immense importance to the institute. Alumni contribute to an enriching learning experience through expert talks, workshops, hands-on training programs, project reviews and also as project mentors grooming the juniors. They also contribute towards preparing the students for placement by guiding them for aptitude tests, competitive exams, group discussions, personal interviews and also resume writing based on their personal experiences. Alumni take keen interest in development of teaching facilities not only by their suggestions but also by organizing workshops and guest lectures. Our alumni have not only been proved as technocrats but they have shouldered their social responsibilities adequately by contributing their technical knowledge for societal use.

File Description	Document
Upload Additional information	[View Document](#)
Provide Link for 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:

VPPCOE&VA is committed to achieving its vision and mission by providing state-of-the-art infrastructure, quality education, and in order to achieve this institute follows decentalisation and democratic modes of governance ehere all stake holders are involved and actively contribute. Governing body is the highest statutory body which monitors smooth functioning of the institute and its functions and activities by decentralizing the authorities among the principal, deans of various sections, heads of various departments and also heads of various committees.

Nature of Governance:

The institute has a visionary management constantly looking for ways and means of incorporating quality in education. The cosmopolitan and pluralistic nature of the institute enables it to provide holistic education by concentrating on effective teaching-learning process using ICT classrooms. The institute motivates the students' to organize technical events, cultural events and ensure the maximum participation of the students, providing a conducive environment comprising high-end infrastructure and state-of-the-art laboratory facilities wherein the students, faculty and staff can collectively enhance their technical potential, encouraging innovation through research activities for the benefit of society. Student centric flexible curriculum, multidisciplinary learning based curriculum, choice based electives, ability enhancement compulsory courses, skill enhancement compulsory courses, value added courses, product design and development, and Do It Yourself (DIY) are some of the significant features in the curriculum. The compulsory Internship. Develop competent professionals responsive to changes in technology and engineering. The institution follows a democratic mode of governance wherein different stakeholders participate and actively contribute in its administration to impart value based education which carries significant benefits to the students and society.

Efficient and Effective functioning of an institution can be benchmarked by the policies and practices it has derived in the following areas of governance:

1 Value addition in Education and Technologies

2 Blueprint of Development and Deployment

3 Faculty Empowerment Strategies

4 Financial Management

5 Socio Economics Commitments.

6 Entrepreneurship Development

7 Quality Assurance

8 Human Resource Management

The institute has well defined short term and long term goals which help in running the institute effectively and effeciently making quality eductaion priority for both the members of the faculty and important stakeholders i.e students.

The governing board comprises distinguished administrators, academicians and faculty representatives. It is the visionary leadership of Governing Board Members and principal that the college has developed a culture of excellence, dedication, hard work and selfless services which gives continual improvement in Vasantdada Patil Pratishthan's College of Engineering and Visual Arts.

File Description	Document
Upload Additional information	[View Document](#)
Provide Link for 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 institute's operations are guided by a strategic plan as decided by the governing body of the institute which has been formed in accordance with the government norms. As per the governing body's plan the principal and the departmental heads execute the various functions and operations of the institute. The governing body also suggests necessary actions to be followed in achieveing not only academic excellence but producing engineers who are technologically competent and socially responsible. The follow up action and corrective measures are taken continuposly to improve the quality of education imparted to the students and the results are presented to the governing body for evaluation and setting policies based on the findings so that the intitute is comitted to providing the best infrastructure, teaching learning aids and this leads to produce high quality engineers. The institute as a part of its strategic plan

operations focuses on the following:

1. Encourage faculties to improve the quality of the teaching learning process by employing the use of ICT-enabled tools

2. To bridge the industry-academia gap institute prvides a number of value added, certification courses, internship activities on industrial requirements and also the members of faculty are motivated to interact and forge allience with other institutions/Industries. This is achieved by signing MOUs with various industries and engoineering and technology companies.

3. The institute places a lot of emphasis on extra-curricular activities such as encouraging effective organization of technical fests, sports and cultural activities. encouraging the students to participate in different technical as well as nontechnical competitions.

4. The institute has a very competitive adminstrative setup that sees the adminstrative operations encompassing Research and Development activities, service rules comprises rules of appointments, promotion policy, appraisal policy, financial support policy, leave and vacation policy.

5. As per the rules and procedures, the institute regularly approves the maintanence and upgradation of the Infrastructure of the Institute related to teaching learning and other.

6. Institute conducts various academic and financial audits regularly to get hang of the situation and for initiating future developments and improvements.

All these system related rules procedures and policies make sure the institute functions at its optimum level and this also helps in improving the adminstrative effectiveness of the institute, therby transfering the best of the quality to its stakeholders.

File Description	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](#)

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:

VPPCOE&VA has well-defined policies for the appraisal system and the policies has been designed for the welfare and progress of teaching and non teaching staff. Institute is committed for financial, physical and mental well-being of the faculty and staff members. Following are the significant policies regardig welfare measures for teaching and non teaching staff.

1. Performance appraisal system for faculty members required for promotions and increments is provided. Based on the performance of faculty, the promotions and increments are provided to faculty members. Faculty members showing extraordinary performance are awarded with additional increments along with regular rise.

2. An incentive scheme is implementaed to recognize the research efforts of faculty members where rewards are given for Scopus/SCI index paper, book/book chapter publication, and patent works.

3. Financial support is provided for attending workshops, faculty development programs (FDP), and technical and non technical conferences. The departments appreciate additional efforts and achievements of faculty with a letter of appreciation.

4. To protect the faculty and staff from financial expenses due to medical emergency cashless mediclaim policy of Star Health is provided.

5. The instituite provides the faculty members with rights like service rules EPF scheme, maternity leaves and to top it all, relaxation in the maternity leave.

6. Institute promotes the higher education by providing study leaves and encourage teaching and non-teaching staff for improving their educational qualifications the higher education.

7. Group, and personal accident insurance schemes are available for all faculty members.

8. To take care of physical and mental health of faculties, sports and cultural activities are arranged annually that sees increased interaction among the faculties.

A part from all this, institute promotes Research and Development activities and a separate budget is allocated for the same. This budget is used for providing financial support to faculty members for under taking activities like professional membership of various technical bodies, and for journal subscriptions, for undertaking various Research and Development activities.

File Description	Document
Upload Additional information	[View Document](#)
Provide Link for 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: 43.62

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

2022-23	2021-22	2020-21	2019-20	2018-19
61	39	14	55	36

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: 56.68

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

2022-23	2021-22	2020-21	2019-20	2018-19
138	96	82	132	74

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

2022-23	2021-22	2020-21	2019-20	2018-19
99	93	85	87	87

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:

The finances of the institution are judiciously allocated and effectively utilized by a proper budgeting system. The institution is effective in resource mobilization and planning development strategies. Financial committees in the institute comprise both teaching and non-teaching staff. The principal and the management allocate funds according to the demand of the particular department. Quotations are invited from vendors/suppliers and the ones providing the best quality and the best price are selected for procurement. The automation of department of accounts helps the management for monitoring the financial resources and the financial health of the institute.

Financial audits are carried out at regular intervals. Internal audits are done twice a year, external audit is done by the charterted accountant appointed by parent organisation. In order to maintain the transparency the audited balance sheet and account statements are uploaded on the institute website.

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:

Institute has established an IQAC cell to improve the quality and for overall development of the institute. The IQAC makes all possible efforts to ensure an effective institutionalizing the quality assurance strategies and processes. This results from the continuous improvement achieved in various aspects such as planning, execution, monitoring of all academic processes, students' placement, research and publication. The IQAC promotes for the automation for smooth conduction of various academic and administrative functions.

1. **Research:** Research and Development Cell in discussion with IQAC facilitates the faculty members to publish their research work in renowned journals. Staff members and students are appreciated for publishing papers, books, patents, etc. To enhance the research skills in the students IDEATHON, Quasar, Hackathon, technical paper presentation, poster competitions, and expert talks are arranged. International conference has been arranged by the institute which provides platform to present their research work and innovative technology activities. IQAC promotes to conduct workshops, STTP, FDP, value added courses like Spoken Tutorial, NPTEL, arrangement of Industrial visits, internships for updating and adopting to new technologies.

2. **Entrepreneurship:** To improve institute industry interaction, MOUs are signed with various organizations. Enterpreneur ship development cell encourages the students for entrepreneurship, product development, seed funding, and mentoring for start-ups. For fostering the culture of innovation and start-

up, various activities are conducted under IIC.

3. Quality teaching and learning: IQAC has also been instrumental in ensuring quality teaching and learning. The institute provides best infrastructure that in turn makes IQAC a leading force to implement the same.

The IQAC makes sure that the quality checks of the institute and its imparting engineering and technology education are at highest possible standards. In particular this results into accreditation of the institute and departments by various government bodies like NBA, NAAC and ISO certification.

IQAC also sees the governing of the eco-friendly campus, Therefore roof top solar plant, other green practices, like e- waste disposal, effective solid and wet waste disposal, rain water harvesting and water conservation systems are in place in the institute.

Overall, the IQAC strives for and makes sure for quality development in all respects of the entire functioning of the institute. This ultimately results in imparting quality engineering education to our students and in the process they are made quality concious engineers.

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: C. Any 2 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](#)
Provide Links for any other relevant document to support the claim (if any)	[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:

VPPCOE&VA maintains a culture of gender equity and gender sensitivity on the campus by providing different facilities in terms of obligations, rights, benefits, and opportunities. Institute provides security guards at every key location like the main entrance, lift, ground, every floor and supervises the entire campus. The team of security guards consists of a few lady security guards. The security at the entrance checks the identity card of the students and visitors for avoiding any mishaps. CCTV cameras are installed on the campus at strategic locations for monitoring the activities of the campus. A women medical officer is appointed to take care of any emergency medical problems faced by students or staff while they are in the college. For assisting and guiding the college staff and students, the college has appointed a lady counsellor, Ms Pooja Punjabi. The college has provided a girls' common room on the campus. The common rooms have a proper seating arrangement, magazines, and an indoor game facility, and Sakhi Box to lodge a complaint in case of sexual harassment or any other related complaints. The girls' common room has separate washrooms and sanitary napkins' vending machines. VPPCOE& A has Internal Complaints Committees for girl-students and female members of staff functioning actively to solve problems of sexual harassment and related complaints.

VPPCOE&VA has also taken steps to promote gender equity in co-curricular activities. This includes encouraging the participation of women in sports, cultural events, and student organizations. Special initiatives such as women's sports teams, gender-neutral cultural events, and leadership training programs for women have been implemented to ensure equal opportunities for all students. Furthermore, our institution has aimed at creating a more inclusive and supportive environment for women on campus, ensuring their safety and well-being. In terms of sensitization, our institution has conducted regular workshops, seminars, and awareness campaigns on gender issues. These initiatives aim to educate students, faculty, and staff about gender stereotypes, discrimination, and violence, as well as promote gender sensitivity and respect for diversity. By raising awareness and fostering a culture of respect, we strive to create a more inclusive and gender-equitable campus community.

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: A. 4 or All 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](#)

7.1.3

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

1. **Green audit / Environment audit**
2. **Energy audit**
3. **Clean and green campus initiatives**
4. **Beyond the campus environmental promotion activities**

Response: A. All of the above

File Description	Document
Report on Environmental Promotional activities conducted beyond the campus with geo tagged photographs with caption and date	[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:

The NSS Unit of VPPCOE&VA has always been an active catalyst for positive change within our society throughout the academic year. Committed to the ethos of service and social responsibility, our unit tirelessly works towards the betterment of society through a diverse range of activities. NSS team conducts numerous impactful events aimed at addressing key societal needs. Highlights include activities like Blood Donation Drives held at Dadar Railway Station, potentially saving many lives, various awareness programs through different competitions and camps. To celebrate "Azadi Ka Amrit Mahotsav" and to commemorate the same, the NSS volunteers have conducted National Anthem in classes during college hours to spread awareness about 'Tiranga' and our National Anthem. To encourage the students to celebrate and know the importance of Independence Day, some competitions like Rangoli, Poster Making are conducted every year on the campus. Peace Rally on account of Azadi ka Amrit Mahotsav, Clothes Donation Drive and many such activities are conducted on campus and outside the campus.

Collaborating with University of Mumbai, our NSS Unit organises various events targeting university students and the wider community. These include seminars on HIV/AIDS awareness, Nasha Mukti Rallies to combat substance abuse, and walks for freedom advocating for social justice and human rights. Bhajan Sandhya event provide spiritual nourishment, while youth talk programs facilitate open discussions on relevant social issues, empowering students to become agents of change. At the college level, our NSS Unit organises a range of events to foster a sense of pride, community, and personal development among students. Celebrations of national milestones such as Independence Day and Republic Day are conducted with enthusiasm and patriotism. Additionally, seminars on building a bright future, tree plantation drives, and college cleanliness campaigns underscore their commitment to personal and environmental well-being.

Through the concerted efforts across various categories of events, NSS team has made tangible contributions to the betterment of society, touching the lives of individuals across different age groups and socio-economic backgrounds.

File Description	Document
Upload Additional information	[View Document](#)
Provide Link for 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 Practices 1

Title: Empowering Employability skills.

Objective: To enhance and empower the quantitative and qualitative aptitude of the students for effective employability by providing proper training which is required for the placements so as to make them sound not only technically but also to make a versatile personality by understanding the needs of industries.

Context: Industries while advertising for various posts even mention essential skills required along with the essential qualification. Various companies involved in the placement drives in the institute had given the feedback that despite the students being technically sound, They should be properly trained for the skills which are required for the placements recognizing the need. Regular industry interaction which involved a thorough discussion and interaction with HRs of the various companies have helped us to understand the need of having students' exposure to the recent technologies. In this context, the institute has signed MOUs with different industries.

The practice: As part of the training activities, we conduct various programs to improve the employability skills of our students. We make sure their technical skills are updated and communication and soft skills are in place. In this regard, we conduct Career Guidance Seminars for improving Employability Skills, and a special initiative on Aptitude and Soft Skills Training. Following activities are conducted under different MOUs:

Sr. No.	Company Name	Activities in the campus
1	IMB CSRBOX	IBM Skillsbuild Job Readiness Workshops for SE & TE students along with internships
2	TNS India Foundation (JP Morgan)	Soft skills and technical training by JP Morgan
3	Bridgelabz Solutions Pvt. Ltd.	Short term training programs for students
4	Inflow Technologies Pvt Ltd	Python IBM Global Certification for students
5	Anudip Foundation for Social Welfare & Capgemini Technology Services India Ltd	Training on Java and subsequent placement of some of the trained students
6	Gong Labs Private Limited (Coffeee.io)	Skill development and training programs, placement assistance

7	ExceIR Solutions	Skill development and training programs
8	YBI Foundation	Internships, guest lectures, training programs
9	Campus Corners	Campus Readiness Training Program to improve students' placement quotient and to prepare them for the same
10	Campus Credential	Aptitude and Soft Skill Training

Evidence of success:

A good number of companies visit our campus for placement drives including the reputed ones like Capgemini, Covonix, TCS, L&T Infotech, Mirraw, Ariston Capital, Diebold System, Protegrity, Qspiders, Zeus learning, IBM, Media.net, etc. The majority of the recruiters prefer our institute as the venue for the Pool Campus Placement Drives due to our centralized location in Mumbai. It's our continuing endeavor to better our services towards our ultimate customers, the aspiring engineers of VPPCOE&VA.

Problems encountered and resources required:

Lack of attention towards education is one of the major issues faced by the students. The student expects a high package but they hardly fight for it, in the ways of their dream they ignore their education and are unwilling to study hard for it. The tendency of over-expectation in oneself is very high in students without analyzing their own capabilities.

Best Practices 2

Title: VPPCOE&VA Student Mentoring System

Objective:

The mentoring system at VPPCOE&VA has been developed for establishing a better and effective relationship between students and teachers and also to continuously monitor, counsel and guide students in educational and personal matters. All teachers work as mentors for students allotted to them. This is a continuous process till the end of academic career of a student. Its primary aim is to build capability and self-reliance in the mentee with the following objectives:

1. To enhance teacher–student relationship.

2. To enhance students' academic performance and attendance.

3. To minimize students' dropout ratio.

4. To monitor the students' regularity and discipline.

5. To foster students' holistic development

6. To cater to students' psychological issues, if any.

Context:

The mentoring system operates in educational institutions such as schools, colleges, and universities. It addresses the need for personalized guidance and support, particularly for students who may face academic, personal, or social challenges. The system acknowledges the diverse backgrounds and learning styles of students and aims to create an inclusive and supportive environment for all.

The Practice:

The institute has taken the initiative of implementing the mentorship program of students. All the students who are admitted in first year of engineering undergo the mentorship program. A group of 20 to 22 students is allocated to one faculty mentor. Also, one student mentor of higher semester is assigned for ten first year students. Mentors maintain and update the mentoring format after collecting all necessary information. Mentors offer guidance and counseling as per students' requirements. It is the practice of mentors to meet students individually or in groups. At least seven(7) to eight (8) meetings are arranged by mentors for their mentees in each semester. This system has been useful in identifying slow and advanced learners and through a careful examination of each mentor's report, '**Remedial Classes**' are organized on identified topics.

Evidence of Success:

- The performance of the students in the internal assessment has improved and the students who perform better are motivated to do well in the upcoming tests.

- Students have started their own start-ups

- Students have actively participated in several co-curricular events inside and outside the college.

- Students have improved their technical and life skills

Problems Encountered:

1. Time Constraints: Busy schedule of students and mentors make it challenging to schedule regular meetings and maintain consistency in the mentoring process.

2. Resistance to Participation: Some students may be reluctant to seek help or engage in mentoring activities due to stigma, lack of awareness, or other barriers, personal or social in nature.

3. Evaluation Challenges: Difficulty in objectively measuring the impact of mentoring on students' outcomes and determining causality.

Resources Required:

1. Training Materials: Curriculum for mentor training sessions, workshops, and resources to support mentorship activities.

2. Physical Space: Access to meeting rooms, offices, and facilities for conducting mentoring sessions and events.

File Description	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 institution has established itself as a leader in providing a holistic education that combines rigorous academic training with practical skill development and enriching extra-curricular experiences. One area where the institution truly shines is its commitment to experiential learning and skill development, particularly through its state-of-the-art facilities such as the PCB fabrication lab, IoT lab, and other cutting-edge resources.

The PCB fabrication lab stands as a testament to the institution's dedication to fostering hands-on learning opportunities for students pursuing fields related to electronics, electrical engineering, and technology. Here, students have access to advanced equipment and tools necessary for designing, prototyping, and manufacturing printed circuit boards (PCBs). Through guided projects and independent exploration, students gain invaluable experience in PCB layout design, soldering techniques, and quality control processes. This hands-on approach not only reinforces theoretical concepts learned in the classroom but also cultivates essential skills in problem-solving, critical thinking, and attention to details.

Similarly, the institution's IoT lab serves as a dynamic hub for exploring the rapidly evolving field of the Internet of Things (IoT) and emerging technologies. Equipped with cutting-edge hardware, sensors, and software platforms, the lab provides students with the opportunity to conceptualize, develop, and deploy IoT solutions across various domains such as healthcare, agriculture, smart cities, and industrial automation. Through hands-on experimentation and project-based learning, students acquire proficiency in sensor integration, data analytics, wireless communication protocols, and IoT application development. This immersive learning experience empowers students to tackle real-world challenges and contribute to innovations that drive societal progress and economic growth.

In addition to its emphasis on curricular excellence and skill development, the institution places a strong emphasis on fostering a vibrant campus culture through its extra-curricular activities, sports, cultural events, and community engagement initiatives. The presence of a dedicated NSS team further amplifies the institution's impact by channelling student energy and enthusiasm towards meaningful social service projects and initiatives.

The institution's well-equipped turf facility provides students with ample opportunities to participate in sports and physical fitness activities, fostering a healthy and active lifestyle among the student body. Whether it's competitive sports tournaments, recreational activities, or fitness programs, the turf facility serves as a focal point for promoting teamwork, sportsmanship, and personal well-being.

Moreover, the institution's vibrant cultural scene celebrates diversity and creativity through a wide range of events, performances, and exhibitions that showcase the talents and cultural heritage of students from diverse backgrounds. Cultural events foster cross-cultural understanding, appreciation, and dialogue among students, faculty, and the wider community.

Thus, the institution's performance in prioritizing experiential learning, skill development, and holistic education through its curricular offerings, cutting-edge facilities, and vibrant educational facilities.

File Description	Document
Appropriate web in the Institutional website	[View Document](#)

5. CONCLUSION

Additional Information :

The institute is indeed emerging as a leader in implementing cutting-edge technological advancements for the benefit of its students. The core focus areas encompass comprehensive personality development, rigorous hands-on training in advanced laboratories and workshops, a vibrant array of co-curricular activities, and personalized student counseling services. Renowned for the quality of our students, we also take pride in our faculties' commendable qualifications, with many holding post-graduate and doctoral degrees.

Encouraging active participation in competitions such as the Smart India Hackathon and AVISHKAR project competitions, we nurture a culture of innovation and excellence among our students. Moreover, we actively promote engagement in social activities, fostering a sense of social responsibility and awareness among both staff and students.

The administration section of the college is highly attentive to the needs of both students and staff, demonstrating a strong commitment to guidance and support. The examination section maintains up-to-date records, boasts excellent infrastructure, and conducts examinations in a fair and transparent manner in accordance with university norms.

The institute has garnered recognition through numerous awards and accreditations. All eligible programs, i.e. Computer Engineering and Information Technology hold accreditation from the NBA for three years till 30th June 2027, signifying their adherence to high-quality standards. Furthermore, the institute is certified by ISO 9001:2015 quality standards, reflecting its commitment to excellence in education and operations.

In 2023, the institute received the prestigious "Best Institute Award for Computing" in Maharashtra state from the International Advanced Computing Community (IACC), acknowledging its outstanding contributions to the field. Additionally, the institute was honored with the "National Education Excellence Award 2017" by the Indo Global Education Summit & Expo 2017, further highlighting its dedication to academic excellence and innovation. These accolades serve as a testament to the institute's commitment to providing top-tier education and its recognition within the academic community.

Concluding Remarks :

Vasantdada Patil Pratishthan's College of Engineering and Visual Arts is committed to enhancing the lives of all individuals associated with it, whether directly or indirectly. With a proud history spanning over 34 years, marked by academic excellence and impactful research, our institute is dedicated to fostering an environment where students can realize their full potential. Our endeavours to bridge the gap between academia and industry have borne fruit, resulting in notable achievements. At VPPCOE&VA, we adhere to the rules and guidelines established by our governing bodies with a strong sense of obligation. Our commitment to accountability is reflected through various bodies, cells, and entities, showcasing a decentralized approach to decision-making. The concerted efforts of our placement cell, R&D cell, IQAC, and other relevant teams aim to ensure excellence, expand career opportunities for students, and enhance research publication and funding. The Core Team, comprising Campus Director, Principal, Deans, and Heads of Departments, faithfully executes decisions made by the Governing Body, Academic Council, etc. With the unwavering support of all stakeholders, our institute is steadily gaining global recognition as a dynamic institution with a promising future. As we look

ahead, the college is striving towards autonomy in the near future, symbolizing our commitment to continual progress and innovation.

20-09-2024 11:37:59

6.ANNEXURE

1.Metrics Level Deviations

Metric ID	Sub Questions and Answers before and after DVV Verification
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)** Answer before DVV Verification : Answer After DVV Verification :27 Remark : DVV has made changes as per the report shared by HEI.
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* 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 Answer before DVV Verification: <table><tr><td>2022-23</td><td>2021-22</td><td>2020-21</td><td>2019-20</td><td>2018-19</td></tr><tr><td>1009</td><td>773</td><td>897</td><td>806</td><td>616</td></tr></table> Answer After DVV Verification : <table><tr><td>2022-23</td><td>2021-22</td><td>2020-21</td><td>2019-20</td><td>2018-19</td></tr><tr><td>875</td><td>702</td><td>832</td><td>722</td><td>541</td></tr></table> Remark : DVV has made changes as per the Percentage of students enrolled in Certificate/ Value added courses.
1.3.2	**Percentage of students undertaking project work/field work/ internships (Data for the latest completed academic year)** 1.3.2.1. **Number of students undertaking project work/field work / internships** Answer before DVV Verification : 1154 Answer after DVV Verification: 751 Remark : DVV has made the changes as per shared data template excluding the duplicates by HEI .
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:

2022-23	2021-22	2020-21	2019-20	2018-19
132	131	132	121	79

Answer After DVV Verification :

2022-23	2021-22	2020-21	2019-20	2018-19
121	117	105	98	62

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:

2022-23	2021-22	2020-21	2019-20	2018-19
132	131	132	121	79

Answer After DVV Verification :

2022-23	2021-22	2020-21	2019-20	2018-19
132	131	132	121	79

Remark : DVV has made the changes as per Percentage of seats filled against reserved categories (SC, ST, OBC etc.).

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)*

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)**

Answer before DVV Verification:

2022-23	2021-22	2020-21	2019-20	2018-19
2.1	1.46	00	11	2.68

Answer After DVV Verification :

2022-23	2021-22	2020-21	2019-20	2018-19
1.89	1.03	00	9	1.78

Remark : DVV has made changes as per the Grants received from Government and non-governmental agencies for research projects / endowments.

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

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

during the last five years

Answer before DVV Verification:

2022-23	2021-22	2020-21	2019-20	2018-19
83	73	25	13	5

Answer After DVV Verification :

2022-23	2021-22	2020-21	2019-20	2018-19
0	3	0	3	2

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

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:

2022-23	2021-22	2020-21	2019-20	2018-19
49	67	2	54	48

Answer After DVV Verification :

2022-23	2021-22	2020-21	2019-20	2018-19
34	0	0	0	0

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

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:

2022-23	2021-22	2020-21	2019-20	2018-19
58	52	36	34	44

Answer After DVV Verification :

2022-23	2021-22	2020-21	2019-20	2018-19
37	35	21	22	30

	Remark : DVV has made changes as per the report shared by HEI.
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 :17 Remark : DVV has made changes as per the report shared by HEI.
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: <table><tr><td>2022-23</td><td>2021-22</td><td>2020-21</td><td>2019-20</td><td>2018-19</td></tr><tr><td>87.05</td><td>136.56</td><td>85.69</td><td>95.99</td><td>108.59</td></tr></table> Answer After DVV Verification : <table><tr><td>2022-23</td><td>2021-22</td><td>2020-21</td><td>2019-20</td><td>2018-19</td></tr><tr><td>78.35</td><td>134.50</td><td>84.30</td><td>95.11</td><td>108.15</td></tr></table> Remark : DVV has made changes as per the report shared by HEI.
5.1.4	*The institution adopts the following for redressal of student grievances including sexual harassment and ragging cases* 1. **Implementation of guidelines of statutory/regulatory bodies** 2. **Organisation wide awareness and undertakings on policies with zero tolerance** 3. **Mechanisms for submission of online/offline students' grievances** 4. **Timely redressal of the grievances through appropriate committees** Answer before DVV Verification : A. All of the above Answer After DVV Verification: B. 3 of the above Remark : DVV has selected the B. 3 of the above as per shared supporting document by HEI.
5.2.2	*Percentage of students qualifying in state/national/ international level examinations during the last five years* 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.)** Answer before DVV Verification:

2022-23	2021-22	2020-21	2019-20	2018-19
24	10	3	4	3

Answer After DVV Verification :

2022-23	2021-22	2020-21	2019-20	2018-19
10	5	0	3	3

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

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

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

Answer before DVV Verification:

2022-23	2021-22	2020-21	2019-20	2018-19
53	27	16	28	30

Answer After DVV Verification :

2022-23	2021-22	2020-21	2019-20	2018-19
42	18	12	19	22

Remark : DVV has made the changes as per shared data template document by HEI .

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

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

Answer before DVV Verification:

2022-23	2021-22	2020-21	2019-20	2018-19
86	54	23	74	55

Answer After DVV Verification :

2022-23	2021-22	2020-21	2019-20	2018-19
61	39	14	55	36

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

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: C. Any 2 of the above
	Remark : DVV has selected the C. Any 2 of the above as per shared supporting document by HEI .

2.Extended Profile Deviations

Extended Profile Deviations
No Deviations