



SELF STUDY REPORT

FOR

2nd CYCLE OF ACCREDITATION

VIDYA PRATISHTHAN'S KAMALNAYAN BAJAJ INSTITUTE OF ENGINEERING AND TECHNOLOGY

**VIDYANAGARI, BHIGWAN ROAD, BARAMATI, DIST-PUNE,
413133**

www.vpkbiet.org

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1. EXECUTIVE SUMMARY

1.1 INTRODUCTION

Vidya Pratishthan is a name fondly synonymous with education in all its myriad forms and academic aspects. Since its inception in 1972, the Institution has majestically scaled the ladder of success with a profundity that aptly reflects its commitment to accord educational facilities to all sections of society and received SIRO recognition in 2022. With a sprawling campus of 156 acres, the Vidya Pratishthan houses 29 institutions. More than 23,000 students are nurtured daily to turn them into the dearest citizens of the nation and sought after persons in the world of Knowledge.

The journey of Vidya Pratishthan's Kamalnayan Bajaj Institute of Engineering and Technology (VPKBIET) started in 2000 to achieve the status of a leading Engineering Institute in India with the motto of "Rural Development" through quality technical education at an affordable cost. We have the distinction of NAAC Accreditation with "A" Grade in cycle I. In Aug. 2022, NBA committee visited to Institute and evaluated Mechanical engineering and Computer Engineering. The results are awaited. Currently Civil department has applied for NBA.

Our highly qualified and motivated faculty bring a wide experience that they have gained from the reputed institutes to empower students. Eminent experts from IITs, premier institutes, and industry are also invited to deliver knowledge sessions and conduct workshops. Learning through online forums such as SWAYAM, NPTEL, Coursera, edX, Udemy, etc., are an integral part of the VPKBIET study culture. To increase students' employability, we train them to improve their soft skills, communication skills, group discussion, team leadership, and work ethics. We encourage the students to involve in innovative product development, start-ups, and entrepreneurship activities. Co-curricular and extracurricular activities are always emphasized to ensure the holistic development of students.

The excellent infrastructure, clean environment, well-equipped laboratories, dedicated faculty and staff, and motivated and hardworking students have also helped achieve these results. We provide good hostel accommodation for our students. VPKBIET has consistently endeavored to produce proficient engineers who can shine with their technical and professional capabilities. We look forward to a strong association and synergy with all the stakeholders.

Vision

To achieve academic excellence through persistent and synergic collaborations amongst all stakeholders

Mission

- To ensure holistic development of students as lifelong learners and problem solvers through value-based quality education
- To motivate faculty to attain the state-of-the-art knowledge and wisdom in their domain and be a facilitator towards co-creation of knowledge
- To frame and deploy conducive and empowering policies for multifaceted growth of students, faculty

and staff to make them contributors towards excellence

- To partner with industry for mutually beneficial relations to generate employable and deployable workforce
- To fulfill the aspirations of alumni, parents, society, region and nation at large by generating technically competent and contributing manpower

1.2 Strength, Weakness, Opportunity and Challenges(SWOC)

Institutional Strength

- **ICT based Teaching and learning processes with outcome based education and its execution to keep learning on toes.**
- **Highly qualified and dedicated faculty who are always willing to upgrade their knowledge and skills in various emerging fields.**
- **Lab facilities, technology centers, and Center of Excellence in emerging areas. with state of the art infrastructure.**
- **Integrated co-curricular and extracurricular activities for overall development of the students.**
- **Multidisciplinary and advance learning facilities through Honor/ Minor Degree courses, NPTEL, Swayam Courser, edx and other MOOC courses.**
- **Well established collaborations with various industries.**
- **Strong training and placement cell.**
- **SIRO recognition from Department of Scientific and Industrial Research Organization**

Institutional Weakness

- **Less number of research projects grants from government funding agencies**
- **Limited Consultancy activities**
- **Establishment of international tie ups and events like international conferences/ syposiums**

Institutional Opportunity

- **To implement of National Education Policy 2020**
- **To become an autonomous institute to offer industry oriented teaching learning process with a**

focus on skill development

- **To establish centers of excellence by collaborating with higher learning Institutes and industry with a focus on emerging technologies**
- **To improve the career opportunities for the students in entrepreneurship, higher studies and better jobs.**
- **To establish research centers to solve the problems of industry and society**

Institutional Challenge

- **To become self-sustainable while providing affordable quality education.**
- **To strengthen entrepreneurship startup activities**
- **To establish industry supported and funded labs**

1.3 CRITERIA WISE SUMMARY

Curricular Aspects

The institute has effective curriculum planning & delivery through a well-planned & documented process including academic calendar and continuous internal assessment process such as mid semester test & end sem test. Academic calendar is available on website. Internal assessment process & academic audit report is also uploaded as additional document on NAAC portal.

Institute conduct the various Add on certificate courses in various department. The last five year Add on courses data is uploaded on portal. The detail excel template of course is also uploaded on portal Total number of students attended Add on courses in last five years are 4139. The sample certificate is uploaded on portal as additional document.

Percentage of students enrolled in Add on certificate is 43.58 %. The Sample certificate is attached for reference purpose.

To achieve excellence in terms of Social development by conducting audit courses related to professional ethics, environment and sustainability prescribed in the curriculum. However, as the curriculum is prepared by the SPP University, there is very little scope to incorporate such issues in it. Hence, we conduct a large number of add-on, beyond curriculum, co extra-curricular activities to incorporate these issues in the teaching learning process. These include various extension activities in-house and in the neighborhood rural communities for sensitizing the students to social issues, ethical values, service orientations, good citizenship and holistic development. To inculcate human values amongst students, the faculty members attend online FDPs on human values. Sample student assignment, FDP certificate is uploaded on portal.

Percentage of students undertaking project work/field work/ internships is 26.12 % of total students. The sponsored project letter & some internship certificate of students are uploaded as supporting document on portal.

Institute has conducted the feedback on the academic performance and ambience of the institution from various stakeholders, such as students, Teachers, Employers & Alumni. The action taken report on the feedback is available on institute website. The action taken report is also uploaded as supporting document on portal. The sample report of feedback is available in each & every department.

Teaching-learning and Evaluation

Institute follows guidelines of the AICTE, Government of Maharashtra, DTE, and SPPU for admission process. Currently, the college employs highly qualified faculty members who hold doctorates or who are pursuing research. The VPKBIET structure provides a hierarchy of different roles for the proper conduct of all activities.

Prior to the start of the semester, the institutional academic calendar is created by taking the academic calendar of the affiliated university into consideration. The institution promotes teachers to apply cutting-edge pedagogies for instructing and learning while utilising ICT tools like google classroom and smartboards.

Various value-added courses, industry visits, guest lectures are organised every semester for students to get practical experience and advance their knowledge of Program outcomes, Program specific outcomes, and course outcomes for all programmes. Both direct and indirect evaluation methods are used to gauge the course outcomes' accomplishment. The Blooms taxonomy is used in the development of question banks, lab manuals, and internal assessment question papers. Students are evaluated continuously through internal examinations including the midterm, final, and mock practical.

We have a robust mentoring system which continually encourages, stimulates, and helps students to do better in their academics, which identifies weak students. Mentors counsel slow learners, identify their areas for improvement and help them overcome barriers to learning. Remedial classes are conducted for slow learners. In addition to gaining knowledge of the fundamentals of engineering, students are encouraged to enhance their communication and technical skills. Equally institute promotes their students to participate in cultural activities such *Nabhangan*.

VPKBIET has established Internal Quality Assurance Cell [IQAC] from the academic year 2017-18 as per the guidelines of NAAC. IQAC monitors all academic activities and encourages faculty to participate and organise FDP, conferences and seminars etc.

Research, Innovations and Extension

The institute has established a research environment. Dean Research and Development (R&D) has been appointed to take care of research and innovation activities in the institute. To promote the R&D activities, facilities are provided. The total number of doctorate faculty in the institute is 28. VPKBIET faculties have published 168 papers, 21 patents filed and 1 patent is granted. The institute conducts numerous programs on IPR through EDC.

Institute encourages students to do multidisciplinary projects. In the institute Entrepreneurship development cell

is also established. Through the Entrepreneurship development cell, six start-ups have been registered.

A large number of faculty members have completed NPTEL and Other MOOCs in emerging areas. Institute organizes seminars, workshops, expert sessions, which help the faculty and students to upgrade their knowledge and skill set.

A center of excellence for Youth and Women empowerment is being established through CSR funding of Rs 2.5 Cr. received from Bharat Forge Ltd. This COE will focus on interdisciplinary projects in emerging technologies such as Artificial Intelligence, Data Science, IOT, E-Vehicles and Robotics and Automation. Total funding received for research related activities has reached to Rs 26896900 in the last 5 years.

VPKBIET strives to achieve excellence in terms of Social development by organizing various extension activities in-house and in the neighborhood rural communities for sensitizing the students to social issues, ethical values, service orientations, good citizenship and holistic development. The institute has an active NSS Unit. NSS Unit organizes several activities for students and community people. The main objective is to create awareness among students about social issues and help to develop their personality through community service. Every year, the institute conducts orientation programmes for NSS Volunteers.

Infrastructure and Learning Resources

VPKBIET is well known for unique and inspiring infrastructure. Our physical and technical infrastructure meets the standard of regulatory and affiliating organisations. The institute has well-equipped with facilities like smart classrooms, labs, central computing facilities, seminar halls, workshops, library, and reading room. The institute has installed Wi-Fi in each classroom. A 500 Mbps leased line provides a high-speed internet connection in campus. The institute frequently updates its computing infrastructure. In academic year 2021-22, the student-computer ratio was 3.9:1. The institute updates hardware and software facilities available in the laboratory as per the curriculum requirements. The library has a large range of books, magazines, and journals, and a reading room with seating capacity of around 150 students. The reading room is accessible 24X7. Along with printed books and journals, the library includes digital collections, newspapers, online journals, and institutional membership that is frequently updated in accordance with curriculum guidelines and need of the students. We have access to the following electronic resources: Electronic journals, Electronic books ShodhSindhu, e-Shodhganga, NDL, DELNET. Every year the institute makes funds available for the upgradation and maintenance of laboratory equipment, classrooms and other infrastructural facilities.

Student Support and Progression

The Institute has scholarship section which facilitates all the scholarships offered by both the State and Central Government. Institute provides opportunity to students to avail scholarship facilities from non-government agencies such as Pawar Charitable Trust, Leela Poonawala foundations etc. The student section of institute circulates various notices regarding scholarships and other schemes to students through mails, notice boards and mentors. Students are encouraged to participate in various curricular, extracurricular, Sports and Cultural activities, field visits, educational tours, exhibitions and hackathons.

The Institute encourages students to participate in various National/International Technical events organized by different reputed organizations. Since qualifying the GATE examination is the prime requirements for higher studies, organizes the coaching classes for GATE Examination every year by GATE Forum and Prerana

Schemes.

The faculty mentoring system is in operation at the respective departments. In this system, a group of 15-20 students is allocated to faculty who acts as teacher guardian and conducts mentor meeting with allocated students.

The various cells and Committee like The Internal Quality Assurance Cell (IQAC), Anti-Ragging Committee, Anti-sexual Harassment Committee, Career Counseling cell, Women's Cell, SC ST Cell and Student associations are established in the college to provide necessary support to the student for their overall well being. There is a Grievance Redressal cell to clear the grievances raised by the students. The Institute has a centralized Training and Placement cell. It has a structured mechanism to make the students employable and help them to choose the career of their interest.

Institute also has an alumni association which contributes actively to the growth of the institution. Association has total 4500+ Members. Association is registered as Charitable Trust according to law of Maharashtra State Government. The Institute organizes annual cultural event "Nabhangan" during which all the cultural events are organized by the students under the supervision of faculty. Various technical events & sports events are also organized as a part of "Nabhangan". In addition, students are encouraged to participate in various national and international level events in cultural, sports and technical activities

Governance, Leadership and Management

The Institute has set up a detailed central mechanism for Governance in 10 major activities that include Administration, Academic, R &D, co-curricular, Extracurricular, Entrepreneurship, IQAC, T&P, IIC, Finance, Admission, Media cell, and Alumni. Each activity is headed by senior faculty typically a Doctorate and is designated as Dean/Head. Each academic department is headed by senior faculty. Authorities and responsibilities are documented for reference and effective execution. Each department has a representation in central activities through their departmental coordinators. These central committees are supported by nonteaching staff. Thus, almost all faculty and several staff members are involved in the central activities of the institute. The coordination of various activities is done by students. These activities include cultural sports, technical. NSS, IIC.

The managerial and administrative bodies of the Institute strive to establish effective and efficient mechanism/procedures for overall growth of the students and the institute by following all the norms and regulations of various governing/affiliating/recognition bodies like AICTE, DTE (Government of Maharashtra), UGC, University, Fees Regulation Authority (Government of Maharashtra), and many more. Continuous efforts are taken to ensure the infrastructural, human resource, technical and support facilities are made available as per the requirements and guidelines. The institute follows service rules of Government of Maharashtra and the University for faculty and staff. The recruitments of faculty are done by following the AICTE, UGC and University guidelines and rules.

Effective welfare measures for teaching staff are implemented through medical leave, PF, duty leave, maternity leaves to female staff for six months, study leave for PhD, support to attend FDP such as Orientation programs and, short term courses, encouragement and support for pursuing higher studies (PhD) for the career development and progression of the teaching as well as non-teaching staff, etc. As per the provisions of provident fund act, the Institute contributes to Provident Fund. Staff quarters are available for Institute employees at affordable cost. The IQAC continuously reviews and takes steps to improve the quality of the

teaching-learning process.

Institutional Values and Best Practices

VBKBIET has a strong ethical work culture that is based on equity. The institute follows the ethical practices in all its actions. Equal prospects are delivered to all stakeholders irrespective of gender. The Institute conducts activities related to environmental consciousness and awareness to sensitize students towards the environment. A large number of tree species have been planted in college campus for making the campus environment friendly. Printed Documents are avoided many times, if necessary printing on both sides of paper and use of soft copies is promoted as a small effort towards Green Consciousness. The Institute has conducted the Green Audit. It has a provision of the waste management that includes solid waste management, liquid waste management, biomedical waste management, E-waste management hazardous chemicals waste management, use of solar energy and LED lamps etc. The Institute tries to save each unit of energy on the campus by making optimum use of available energy. The structures of the building to acquire maximum possible sun light are few of the aspects promoted at our campus.

Along with academics various cultural events celebrated periodically inside and outside of the institute. Nabhangan is an annual Cultural Event of VPKBIET where students showcase their creativity and talents through different activities.

Important best practices followed by the Institute are – MOOC Online Certification Courses and Skill Development Program. Learning through online forums such as SWAYAM, NPTEL, Coursera, edx, udemy, NASSCOM, and IIRS / ISRO etc. are the integral part of VPKBIET study culture. Faculties started YouTube channels for their courses. We encourage students to get involved in innovative, product development, start-ups and entrepreneurship activities. Co-curricular and extracurricular activities are always emphasized to ensure holistic development of students.

2. PROFILE

2.1 BASIC INFORMATION

Name and Address of the College	
Name	VIDYA PRATISHTHAN'S KAMALNAYAN BAJAJ INSTITUTE OF ENGINEERING AND TECHNOLOGY
Address	Vidyanagari, Bhigwan Road, Baramati, Dist-Pune,
City	Baramati
State	Maharashtra
Pin	413133
Website	www.vpkbiet.org

Contacts for Communication					
Designation	Name	Telephone with STD Code	Mobile	Fax	Email
Principal	Rajankumar S.bichkar	02112-239500	9637300101	02112-239514	principal.vpkbiet@vidyapratishthan.com
IQAC / CIQA coordinator	Santaji K. Shinde	02112-239503	9922413205	02112-239514	dean.iqac@vpkbiet.org

Status of the Institution	
Institution Status	Private and Self Financing

Type of Institution	
By Gender	Co-education
By Shift	Regular

Recognized Minority institution	
If it is a recognized minority institution	No

Establishment Details	
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State	University name	Document
Maharashtra	Savitribai Phule Pune University	View Document

Details of UGC recognition		
Under Section	Date	View Document
2f of UGC	13-05-2022	View Document
12B of UGC	13-05-2022	View Document

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	03-06-2022	12	

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

Location and Area of Campus				
Campus Type	Address	Location*	Campus Area in Acres	Built up Area in sq.mts.
Main campus area	Vidyanagari, Bhigwan Road, Baramati, Dist-Pune,	Rural	16.03	21885.9

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,Artificial Intelligence And Data Science	48	HSC	English	60	60
UG	BE,Civil Engineering	48	HSC	English	60	49
UG	BE,Computer Engineering	48	HSC	English	60	58
UG	BE,Electrical Engineering	48	HSC	English	60	55
UG	BE,Electronics And Telecommunications Engineering	48	HSC	English	60	60
UG	BE,Information Technology	48	HSC	English	60	59
UG	BE,Mechanical Engineering	48	HSC	English	60	58
UG	BVoc,Vocational UG Course In Cloud Computing	36	HSC	English	60	0
UG	BVoc,Vocational UG Course In Robotics And Automation	36	HSC	English	60	0
PG	ME,Post Graduate Course In	24	BE	English	18	10

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	Structural Engineering					
PG	ME,Post Graduate Course In Robotics And Automation	24	BE	English	18	4
PG	ME,Post Graduate Course In Artificial Intelligence And Data Science	24	BE	English	18	0

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	13				21				60			
Recruited	7	1	0	8	5	2	0	7	49	11	0	60
Yet to Recruit	5				14				0			
Sanctioned by the Management/Society or Other Authorized Bodies	0				0				28			
Recruited	0	0	0	0	0	0	0	0	17	11	0	28
Yet to Recruit	0				0				0			

Non-Teaching Staff				
	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				36
Recruited	31	4	0	35
Yet to Recruit				1
Sanctioned by the Management/Society or Other Authorized Bodies				0
Recruited	0	0	0	0
Yet to Recruit				0

Technical Staff				
	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				30
Recruited	26	4	0	30
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				0
Recruited	0	0	0	0
Yet to Recruit				0

Qualification Details of the Teaching Staff

Permanent Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt/LLD/DM/MCH	0	0	0	0	0	0	0	0	0	0
Ph.D.	7	1	0	5	2	0	10	1	0	26
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	39	14	0	53
UG	0	0	0	0	0	0	0	0	0	0

Temporary Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt/LLD/DM/MCH	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	2	0	0	2
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	14	10	0	24
UG	0	0	0	0	0	0	0	0	0	0

Part Time Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt/ LLD/DM/MCH	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	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		Total
	1	0	0	1	
	1	0	0	1	

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	377	1	0	0	378
	Female	174	0	0	0	174
	Others	0	0	0	0	0
PG	Male	6	0	0	0	6
	Female	4	0	0	0	4
	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	108	107	94	111
	Female	76	73	68	74
	Others	0	0	0	0
ST	Male	2	0	3	2
	Female	2	1	2	1
	Others	0	0	0	0
OBC	Male	293	294	264	254
	Female	167	175	176	176
	Others	0	0	0	0
General	Male	566	498	408	524
	Female	358	342	337	427
	Others	0	0	0	0
Others	Male	292	281	244	157
	Female	150	167	177	136
	Others	0	0	0	0
Total		2014	1938	1773	1862

Institutional preparedness for NEP

<p>1. Multidisciplinary/interdisciplinary:</p>	<p>VPKBIET emphasizes on developing multidisciplinary skills of students with various approaches incorporated. One of the major drives is honor minor degree courses that have been offered to the students in the area of Artificial intelligence and machine learning, data science, internet of things. In 2021-22, 167 students were awarded with Honor/Minor degrees in these subjects. Students are encouraged to participate in competitions like Smart India Hackathon, Innovation and incubation activities. VPKBIET has received First prize in Smart India hackathon 2019 in Hardware category. It has been instituted to conduct internal hackathons and facilitate students to participate in national</p>
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	<p>competitions where their multidisciplinary skills will be developed and nurtured further. VPKBIET has several technology study centers which are open to any branch students. Various emerging technology related activities are conducted by these centers. One of the centers CAX Automation Center has been supported by Capgemini India which is nurturing Mechanical as well as Computer engineering students. The Center of Agricultural technologies has worked to explore opportunities of utilizing emerging technologies in the field of agriculture. Hundreds of Students and faculties visited Krushak Exhibition to explore multidisciplinary problems and worked on them through projects. They also published papers in reputed journals by addressing problems related to the agricultural field. Our faculty have taken initiatives in various multidisciplinary and collaborative research work, publications in national, international journals and conferences. Our faculty received research grants for their projects through various agencies. Faculty are also involved in participation and organization of various multidisciplinary faculty development programs, workshops and conferences.</p>
<p>2. Academic bank of credits (ABC):</p>	<p>As per National Education Policy 2020, the Academic Bank of Credits (ABC) has been envisaged to facilitate the academic mobility of students with the freedom to study across the Higher Education Institutions in the country with an appropriate "credit transfer" mechanism from one programme to another, leading to attain a Degree/ Diploma/PG-diploma, etc. It has many benefits such as Allows academic institutions to lodge and maintain the integrity of the credits, Maintains the authenticity and confidentiality of student credits, Easy credit transfer through digital mode, Faster credit recognition As per the guidelines by Ministry of Education Govt. of India, AICTE, SPPU our institute has taken a step in this regard, and our institute has registered for the same. More than 1250 Students have registered for Academic Bank of Credits.</p>
<p>3. Skill development:</p>	<p>Realizing the importance of learning beyond classrooms, the institute encourages students to indulge in various skill development activities. Institute conducts a wide range of activities (often focused on emerging technologies and advances in technical fields). The activities include technical</p>

project competitions, skill development training programs and courses, hackathons, technical quizzes, poster presentations, research paper presentations, idea competitions, business quizzes and competitions, programming competitions (C, C++, Java, and Python), etc. Eminent subject experts are invited from reputed institutes and industries to address students on emerging technologies like AI, IoT, Machine Learning, AR/VR, Data Science, etc. In addition, the students are motivated to participate in various competitions and activities organized by reputed institutes. Each department has a student association and various competitions and activities are conducted by the students under professional societies like SAE, IETE, ISTE, etc. Students learn a lot through organization of these activities and events through interaction with experts from different domains, industry personals, seniors, faculty from within and outside institute. Regular seminars and workshops are conducted to provide in-house training for the personality development of the students. Our students are primarily from rural backgrounds so for their holistic development a large focus is given on communication, soft skills, aptitude, career guidance and motivational speeches etc. to develop an attitude to take on the world with confidence which helps them to perform better in interviews. Industrial visits are organized to expose the students to the real industry environment. These visits help the students to relate academic learning with the practical situations. We also arrange a large number of training programs like job description explanation sessions, resume writing, mock test series, mock group discussion and mock interviews. Institute is in the process of establishing a CoE for emerging technologies like IoT, AI, Data Science in association with the leading industry in Baramati. Apart from this, the students and faculties are encouraged to register for MOOC courses like NPTEL, Coursera, edX, Udemy, NASSCOM, etc. Department also contributes to the skill development of students by motivating the students to undertake industry internships. The institute has an IIT, Bombay spoken tutorial center for skill development courses. We are also having ICT academy membership which provides training to faculty and students in emerging technologies. We invite industry persons, subject experts, academicians and alumni from different

	<p>industries/institutes to conduct training/skill development programs for students. More than 2000 students were trained on various skill sets and more than 75 training/skill development programs were arranged in the last 5 years.</p>
<p>4. Appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using online course):</p>	<p>Students and faculties are working on emerging technology applications for the Indian Knowledge system for natural language processing, vedik mathematics and technology applications for medicinal plants and crops. Civil department organized a visit to ancient dams where students were introduced with the ancient India knowledge of construction of dams. Also faculties explore the Indian ancient construction and architectural practices which are nature friendly and forming a sustainable green eco system.</p>
<p>5. Focus on Outcome based education (OBE):</p>	<p>The academic policies of the institute are framed and implemented to focus on Outcome based education (OBE). The institute has well defined Program outcomes of individual departments and course outcomes for individual courses. The targets are set and efforts are made to improve attainment of Program outcomes. Internal examinations are conducted to incorporate the outcome-based education in the curriculum and in line with examination reform policies. Internal semester question papers and assignments are prepared by considering Bloom's taxonomy and Course outcomes which are mapped with POs. The gap in attainments of PO's are identified and extra efforts are undertaken to fill the gap. The various activities like industrial visit, skill development training, internship, social service camps and extracurricular activities are conducted to achieve higher targets of PO attainments.</p>
<p>6. Distance education/online education:</p>	<p>The online education is motivated at the institute level. For effective implementation of online education, the learning management systems like google class room are used by faculties. Faculty uses it to provide course material like eBooks, PPTs, video lectures, question bank, quizzes, tests etc. The tools in the Google classroom facilitate online assessment of students. Our faculty have YouTube Channels and they have uploaded their Video lectures on those channels. Online sessions for lecture delivery and skill development are conducted.</p>

Students are motivated to complete the MOOC courses and programs offered by online platforms like NPTEL, EdX, Udemy, Coursera etc. VPKBIET achieved 2nd Rank in Maharashtra, positioned 3 times in the top 100 in India.

Extended Profile

1 Students

1.1

Number of students year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
2014	1938	1773	1862	1910
File Description		Document		
Institutional data in the prescribed format		View Document		

2 Teachers

2.1

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

Response: 169

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

2.2

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

2021-22	2020-21	2019-20	2018-19	2017-18
115	124	109	105	122

3 Institution

3.1

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

2021-22	2020-21	2019-20	2018-19	2017-18
242.76	207.03	256.81	250.94	283.94

4. Quality Indicator Framework(QIF)

Criterion 1 - Curricular Aspects

1.1 Curricular Planning and Implementation

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

Response:

The implementation of curriculum is carried as per syllabus provided by University (SPPU).

HODs distribute the teaching load as per university syllabus by considering the faculty subject choices, faculty competency and expertise. The activities are carried out after the academic calendar is prepared by dean Academics. Every faculty member prepares a teaching plan in-line with the Institute and department's academic calendar.

The institute uses an ERP system, Google classrooms and Faculty Diary to have an easy access to information and for the documentation purpose. The faculty ensure timely conduct of the classes as per the time table. The effective implementation of curriculum is ensured by supplementing classroom teaching/Online teaching with expert lectures, PPT/presentations/seminars, recorded video lectures, mini projects, in-house and industry supported projects, tutorials, group assignments, case studies, industry visits, internships, elearning, NPTEL lectures, technical quiz, assignments, internal-tests, etc.

Contents beyond curriculum are identified and taught to expose students to recent trends in the industry. These contents are covered through various teaching learning activities. Extra classes are conducted for weaker students.

Faculty members are encouraged to attend FDPs and STTPs, Seminars, Workshops, Industry Training, conferences etc. to bridge the curricular gap.

Academic coordinator and HOD take review of syllabus completion through academic audits and routine meetings.

Faculty members prepare date-wise teaching plan, teacher's diary and Google classroom for allotted course. Exam coordinators prepare the schedule for internal evaluation as per the institute & department academic calendar. Project and Seminar coordinators prepare presentation schedule as per the academic calendar. Academic coordinator and HOD ensure that the activities are conducted as per the academic calendar. This is done through weekly meetings, faculty and student interaction and academic audits. Test coordinators plan and conduct the internal evaluation test as per schedule and submit test result to Dean Academics. All academic and internal examination activities are conducted as per the schedule. The continuous evaluation is carried out by teachers by conducting short online tests in theory/practical classes, and weekly journal assessment and oral examination.

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

1.2 Academic Flexibility

<p>1.2.1 Number of Add on /Certificate/Value added programs offered during the last five years</p> <p>Response: 4139</p>
--

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

<p>1.2.2 Percentage of students enrolled in Certificate/ Add-on/Value added programs as against the total number of students during the last five years</p> <p>Response: 43.58</p>
--

<p>1.2.2.1 Number of students enrolled in subject related Certificate/ Add-on/Value added programs year wise during last five years</p> <table border="1"> <thead> <tr> <th>2021-22</th> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> </tr> </thead> <tbody> <tr> <td>1585</td> <td>1050</td> <td>593</td> <td>756</td> <td>155</td> </tr> </tbody> </table>	2021-22	2020-21	2019-20	2018-19	2017-18	1585	1050	593	756	155
2021-22	2020-21	2019-20	2018-19	2017-18						
1585	1050	593	756	155						

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

1.3 Curriculum Enrichment

<p>1.3.1 Institution integrates crosscutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum</p> <p>Response:</p> <p>VPKBIET strives to achieve excellence in terms of Social development by conducting audit courses related to professional ethics, environment and sustainability prescribed in the curriculum. However, as the curriculum is prepared by the SPP University, there is very little scope to incorporate such issues in it.</p>
--

Hence, we conduct a large number of add-on, beyond curriculum, co extra-curricular activities to incorporate these issues in the teaching learning process. These include various extension activities in-house and in the neighborhood rural communities for sensitizing the students to social issues, ethical values, service orientations, good citizenship and holistic development. To inculcate human values amongst students, the faculty members attend online FDPs on human values.

The students visit orphanages and old age homes to understand social challenges. Every year, the students render their service to Pilgrims (Pandharpur Wari) and elaborate the importance of cleanliness and electricity saving, provide the medical assistance and also distribute biodegradable plates. Many social activities are carried periodically at the institute as well as during the NSS residential camp at the adopted village. The activities include Yoga, Meditation, Pranayama sessions, tree plantation, Swaccha Bharat Abhiyan, National Unity, awareness program on hand washing and disease Prevention, AIDS Awareness, Road Safety, medical camp including ENT checking, blood donation camp, cultural activities, street acts with moral values, expert lectures by eminent personalities on various innovative topics including leadership, personality development, sustainable development, environment balance, cleanliness campaign, pani foundation work, etc

Details of various courses on Institution integrates crosscutting issues relevant is as below

- 1) Professional ethics audit courses such as Technical English for Engineers, Soft skill etc.
- 2) Human value courses attended by faculty members such as AICTE sponsored FDP on “Inculcating Universal Human Values in Technical education” etc.
- 3) Environment audit courses such as Environment studies I & Environment Studies II etc.
- 4) Sustainability audit courses such as Sustainability 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: 26.12

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

Response: 526

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 (Yes or No)

Response: Yes

File Description	Document
Upload supporting document	View Document

Criterion 2 - Teaching-learning and Evaluation

2.1 Student Enrollment and Profile

2.1.1 Enrolment percentage

Response: 92.27

2.1.1.1 Number of students admitted year wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
560	559	507	511	548

2.1.1.2 Number of sanctioned seats year wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
636	636	534	552	552

File Description

Document

Upload supporting document

[View Document](#)

Institutional data in the prescribed format

[View Document](#)

2.1.2 Percentage of seats filled against seats reserved for various categories (SC, ST, OBC, Divyangjan, etc. as per applicable reservation policy during the last five years (Exclusive of supernumerary seats)

Response: 100

2.1.2.1 Number of actual students admitted from the reserved categories year - wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
115	129	132	121	125

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

2021-22	2020-21	2019-20	2018-19	2017-18
127	126	123	123	123

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

2.2 Student Teacher Ratio

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

Response: 17.51

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 using ICT tools

Response:

The teaching-learning process is a major activity and strength of our college. Experiential learning, participative learning and problem-solving methodologies are adopted to ensure holistic development of students and facilitate life-long learning and knowledge management.

The institute focuses on student-centric methods of enhancing lifelong learning skills of students. Faculty members take efforts to make the learning activity more interactive by adopting the below-mentioned student-centric methods.

Activities for experiential learning:

- Guest lectures on topics relevant to employment skills by experts from respective organizations / industry.
- Organization and participation in various co- curricular and extra-curricular activities such as Hackathons, project competitions, coding competitions, other technical activities, as well as various cultural events (such as Annual Social Gathering, Dindi, celebrations of Commemorate days, etc.) and sport events and competitions.
- NSS and several other social activities for lifelong learning.
- Study tours, internships, and industrial visits to provide industrial exposure.

Activities for participative learning:

- Question-answer sessions/quizzes, role plays, flipped classes, blended learning and model making introduced for selected topics to enhance participative learning.
- Organization of hackathons and project competitions.
- Use of prototypes and cut section models, animations.
- Proficiency in soft and communication skills through lab sessions, seminars, presentations, group discussions, continuous evaluation (through oral exams) in lab sessions, etc.
- Skill development training to teach students the industry relevant skills.
- Encouragement for entrepreneurship and Startup activities through EDC/IIC.

Activities for Problem-solving Skills:

- Encouragement, training, and guidance to participate in state and national-level competitions.
- Motivate students to join MOOC courses.
- Organization of Hackathons.
- Participate in various inter-college and intra-college technical fests.
- Motivation for effective completion of Mini/Major projects.
- Classroom sessions blended with Question-answer sessions/quizzes.

ICT Enabled Teaching:

The teachers use several ICT enabled tools that include Google classroom, MOOCs, YouTube videos, animations, graphics, virtual labs, mobile/web apps, etc. The three academic years, 2019-2020, 2020-2021, 2021-2022 were affected by Covid-19 pandemic and therefore it was compulsory for teachers to learn, adopt ICT enabled tools. The IQAC organized several FDPs for the development of e-content and the utilization of e-resources. The use of video lecture recording was adopted in our institute before the covid pandemic and each faculty had provided video lectures to the students (uploaded on YouTube channels).

The students are also encouraged to watch the NPTEL video lectures on specific topics after the topic has been covered in the classroom.

The student interaction is increased through the use of Google Classroom. The assignments, study material, quizzes, notifications, announcements, evaluation, and grading are carried out through Google Classroom. Timely audit of the google classrooms ensures utilization of ICT tools and academic activities. In addition, the google forms are used to conduct online examinations and surveys/data collection.

MOODLE: Some faculty members use MOODLE for assignments, study material, quizzes, notifications, announcements, evaluation, and grading.

The students are encouraged and motivated to take the MOOCs which are available online on a large number of platforms that include SWAYAM, NPTEL, Coursera, Edx, NASSCOM's FSP, IBM Edunet, etc.

File Description	Document
Upload Additional information	View Document
Provide Link for 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: 98.29

2.4.1.1 Number of Sanctioned posts / required positions for teaching staff/ full time teachers year wise during the last five years:

2021-22	2020-21	2019-20	2018-19	2017-18
115	124	109	105	132

File Description	Document
Upload supporting document	View Document

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

Response: 100

2.4.2.1 Number of full time teachers with NET/SET/SLET/Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt. year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
115	124	109	105	122

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

2.5 Evaluation Process and Reforms

2.5.1 Mechanism of internal/ external assessment is transparent and the grievance redressal system is time- bound and efficient

Response:

The college has transparent and robust evaluation process in terms of frequency and variety. In order to ensure transparency in internal assessment, the system of internal assessment is communicated to the students well in advance. This system includes streamlined and well-defined procedures for question paper setting, conduct of examination, and assessment.

At the start of semester, students are made aware of the assessment scheme of internal evaluation like Term Work, Unit Tests, Orals, Practical, Internal review of projects, Presentations, Internal sessional examination, etc. Two internal assessment tests (mid-term and prelims) are conducted. While preparing the question paper, questions are framed based on appropriate CO's and Bloom's Taxonomy levels. These question paper sets are evaluated by peer reviewers according to the specialization group/PAC. After assessment of answer sheets course faculty shows answer books to respective students.

All Internal test scores are displayed immediately. Unit tests, orals, practical and re-tests are part of continuous assessment. Project diaries are maintained by project groups for internal assessment and evaluation of mini and major projects.

The institute has an examination cell consisting of departmental examination coordinators, HoDs, College Examination Officer (CEO) and Principal. This cell handles university examination related grievances. The students can raise the grievances to the examination cell. The mechanism to deal with examination-related grievances is fully transparent, answerable, and time-bound. The grievances are addressed as per the university norms and procedure.

The college strictly follows guidelines and rules issued by the affiliating university while conducting internal and end-semester examinations. The assessment of assignments/ Lab experiments is done as follows:

- Faculty evaluate assignments based on the following criteria: correctness, timely submission, clarity, neatness, etc. The evaluated assignments are given back to students thus maintaining the transparency of the marks assigned and to resolve grievances if any.
- The experiments performed in the labs by the students are evaluated by the faculty and the performance marks are assigned based on the lab rubric designed by the faculty.
- Usually, the queries/ grievances of a student are handled by the concerned teacher. However, in case a student is not satisfied with the assessment performed by subject teacher, he/she can approach the other

teachers in the department/institute that include class teacher, academic/exam coordinators, HoD, dean academic/ CEO and principal.

Correction in question papers (if any, communicated by university authorities) are intimated immediately to the students during the examination. In case of grievances related to examination, the student has to submit an application to the examination cell through respective departments with HoD's remark. Also, if student has any grievances related to evaluation of university answer scripts, student can apply for photocopy and re-evaluation/re-assessment, by following the university procedures.

File Description	Document
Upload Additional information	View Document
Provide Link for 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 and attainment of POs and COs are evaluated

Response:

All programs of the institute have clearly stated learning outcomes in terms of course outcomes and Program Outcomes.

Program outcomes and course outcomes for all Programs offered by the University/institution are stated and displayed on website and communicated to teachers and students.

Course Outcomes are provided by the Savitribai Phule Pune University through respective subject syllabus. Program outcomes describe what students should know and be able to do at the end of the program. Course Outcomes are the clear statements of what a student should be able to demonstrate at the end of the course and are assessable and measurable in terms of knowledge, skills and abilities.

Course Outcomes and Program Outcomes are published on institute website and displayed on Noticeboards and Laboratories. Students are made aware of CO's and PO's during orientation/induction programs, course presentations, course exit surveys, and in Teaching and Practical plans.

While addressing the students, the HODs create awareness on POs, PSOs and CO's. The faculty members, class teachers and mentors also inform the students and create awareness and emphasize the need to attain the outcomes.

During, first lecture for each course, students are made aware of the course syllabus and course outcomes by the respective course teachers.

Each course has a defined set of course outcomes and corresponding evaluation criteria. The course outcomes are mapped to the program outcomes which are used to provide the quantitative measurement of how well the program outcomes are achieved.

Assessment tools are categorized into direct and indirect methods to assess the course outcomes and program outcomes.

Direct assessment:

The process of course outcome assessment by direct method is based on the internal examinations and End-semester university examinations.

Course teacher sets a target and defines the attainment levels for course outcomes. The defined attainment levels are approved by the respective department.

The direct evaluates the student knowledge and skills from their performance in the In-semester university examination, Term Work, Practical examination, External oral examination, End-semester university examinations, Project work progress and Presentations etc. These methods provide a sampling of what students know and/or can do and provide strong evidence of student learning.

Indirect Methods:

The indirect tools to assess POs include student exit surveys, Alumni survey, Employer surveys and Industrial visit survey of students to reflect their learning. They indirectly the graduate’s knowledge and skills.

The program specific outcomes are communicated to the students along with PO’s and CO’s. The PSO’s are designed by the concerned departments with their respective vision, mission, and scope of the program.

These statements define outcomes of a program and indicate how the knowledge and skills learnt in this course have direct implication for the betterment of society and its sustainability.

All programs of the institute have clearly stated learning outcomes in terms of course outcomes and Program Outcomes.

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

2.6.2 Pass percentage of Students during last five years

Response: 97.17

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

2021-22	2020-21	2019-20	2018-19	2017-18
435	453	509	455	448

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

2021-22	2020-21	2019-20	2018-19	2017-18
442	460	509	491	465

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

2.7 Student Satisfaction Survey

2.7.1 Online student satisfaction survey regarding teaching learning process

Response:

File Description	Document
Upload database of all students on roll	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: 12

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

2021-22	2020-21	2019-20	2018-19	2017-18
1	2	2	0	7

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 and has initiatives for creation and transfer of knowledge

Response:

The institute has established national innovation and start-up policy.

Institute has a Research and development cell which motivates and supports faculties and students to carry out research. VPKBIET is continuously taking efforts to increase research outcomes of faculty and students. Institute provides financial support projects, hackathons, and R&D learning initiatives. Plagiarism software is provided by the Institute to ensure ethical publishing practices. Turnitin software has been very well utilized by students and faculties of the Institute and 9000 documents were scanned for plagiarism ensuring ethical writing in their papers and reports.

The institute was awarded 8 research projects. R&D funding received by the institute from various funding agencies during the last 5 years is Rs 26896900. Institute has sponsored faculties for joining research programs at IITs, NITs, and various reputed national and foreign universities. Institute encourages the faculty to undertake research.

Institute provides support to pursue Ph.D., attend the conference for paper presentation and Faculty development program. Thirteen 15 faculty members obtained Ph.D. during the last five years. The total number of doctorate faculty in the institute is 28 VPKBIET faculty have published 168 papers,

21 patents filed and 1 patent is granted. The institute conducts numerous programmes on IPR through EDC.

Institute encourages students to do multidisciplinary projects. In the institute Entrepreneurship development cell is also established. Through the Entrepreneurship development cell, seven start-ups have been registered.

A center of excellence for Youth and Women empowerment is being established through CSR funding of Rs 2.5 Cr. Received from Bharat Forge Ltd. This COE will focus on interdisciplinary projects in emerging technologies such as Artificial Intelligence, Data Science, IOT, E-Vehicles and Robotics and Automation. About 25 funded student projects will be supported each year leading to innovations, IPR and Entrepreneurship.

All faculties have created their Vidwan Profile. VPKBIET has become a part of the Indian Research Information Network System, an initiative of the Ministry of Education. The research contribution and analysis of VPKBIET faculty is available on this website <https://vpkbiet.irins.org/>

Institute has also applied for research centres in Mechanical and Civil Engineering. 12 faculties of VPKBIET are recognized as research guides by Pune University in 2021-22

VPKBIET has been recognized as the nodal centre for Indian Institute of Remote Sensing (IIRS) under Indian Space Research Organization (ISRO). 115 Students have completed certification courses which are focussing on applications of multidisciplinary technologies in remote sensing.

Faculties completed 100 ATAL faculty development programs in emerging technologies.

Faculties are focussing on presenting publications in reputed journals only. Every faculty has given an opportunity to develop his research area and or technology skills through technology centres. The outcomes of research are integrated with academics to bring enriched experience for students.

File Description	Document
Upload Additional information	View Document
Provide Link for 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: 49

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

2021-22	2020-21	2019-20	2018-19	2017-18
29	11	6	3	0

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 on UGC care list during the last five years

Response: 0.85

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

2021-22	2020-21	2019-20	2018-19	2017-18
35	32	35	30	11

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

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

Response: 0.24

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

2021-22	2020-21	2019-20	2018-19	2017-18
9	15	9	5	3

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

3.4 Extension Activities

3.4.1 Extension activities are carried out in the neighborhood community, sensitizing students to social issues, for their holistic development, and impact thereof during the last five years.

Response:

VPKBIET strives to achieve excellence in terms of Social development by organizing various extension activities in-house and in the neighbourhood rural communities for sensitizing the students to social issues, ethical values, service orientations, good citizenship and holistic development. The students visit orphanages and old age homes to make their day special. Every year, when Dnyaneshwar Mauli Vari resides at Baramati, the students render the services the whole night elaborating the importance of cleanliness, distributing biodegradable plates and the medical assistance as per the requirement.

The institute has an active NSS Unit. NSS Unit organizes several activities for students and community people. The main objective is to create awareness among students about social issues and help to develop their personality through community service. Every year, institute conducts orientation programme for NSS Volunteers and inform them about NSS Activities. Duty leaves are allowed for the students who are associated with any social activity or NSS activities.

Many social activities are carried periodically at the institute as well as during the NSS residential camp at the adopted village. The activities include Yoga, Meditation, Pranayama sessions, tree plantation, Swaccha Bharat Abhiyan, National Unity, awareness program on hand washing and disease Prevention, AIDS Awareness, Road Safety, medical camp including ENT checking, blood donation camp, cultural activities, street acts with a focus on moral values, expert lectures of eminent personalities on various innovative topics including leadership, personality development, sustainable development, environment balance, cleanliness campaign, pani foundation work. Attempt is to involve the villagers also in these activities. Every year, all commemorative days are celebrated and expert and motivational talks are organized. These extension activities were conducted during the last 5 years through the NSS unit with funding from the affiliated university. Apart from above mentioned regular/ annual activities following activities were also conducted during last five years.

A session by Padma Vibhushan Dr Raghunath Mashelkar on “How Do We Build Atmanirbhar Bharat with Atmavishwas?” was organized by our institute for students and neighborhood community. This session was organized to promote entrepreneurship.

Motivational talks by our distinguished alumnus Mr. Avinash Shinde (IAS officer with AIR 226) and Mr. Soham Mandhare (IRS officer AIR 267) were organized.

Voters' Awareness Program was organized to promote awareness about rights and responsibilities of the voters. Nutrition awareness program was organized on the occasion of international women's day, Mr. Ashraf Sayyad guided the audience. Health Management session by Dr. Himgauri Vadgaonkar, and Expert Talk by Mr Akash Patil on Azadi Ka Amrut Mohatsav were also organized.

No Vehicle Day was exercised by all faculties and students to avoid environmental pollution. These activities help in making them understand the importance of protecting the natural resources and saving them from deterioration due to pollution.

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

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

Response:

The awards and recognitions received by our institute for extension activities from government / government recognized bodies are as mentioned below. On the occasion of National Republic day, our student Ms. Rajashri Mane participated as a Contingent Commander in the NRD at Rajpath, New Delhi. She also grabbed the Best NSS Volunteer Award by the State Government of Maharashtra. On the occasion of National Youth festival 2021, she also participated and presented Maharashtra heritage in the form of a Lavani.

Our student Prachi Joshi got the best volunteer award from all over India. She was also selected for NSS international camp

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

3.4.3 Number of extension and outreach programs conducted by the institution through NSS/NCC/Red cross/YRC etc., (including the programmes such as Swachh Bharat, AIDS awareness, Gender issues etc. and/or those organised in collaboration with industry, community and NGOs) during the last five years

Response: 71

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

2021-22	2020-21	2019-20	2018-19	2017-18
19	19	16	10	7

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

3.5 Collaboration

3.5.1 Number of MoUs, collaborations/linkages for Faculty exchange, Student exchange, Internship, Field trip, On-the- job training, research and other academic activities during the last five years:

Response: 37

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

Criterion 4 - Infrastructure and Learning Resources

4.1 Physical Facilities

4.1.1 Availability of adequate infrastructure and physical facilities viz., classrooms, laboratories, ICT facilities, cultural activities, gymnasium, yoga centre etc. in the institution

Response:

Our institute (VPKBIET) is well known in the periphery for its well-established and state-of-the-art infrastructure. Our physical and IT infrastructure fulfils norms of governing and affiliating bodies (AICTE, DTE & SPPU). To execute innovative teaching learning practices, all classrooms are ICT enabled. As far as computing facility and IT infrastructure is concerned, we have state-of-the-art facilities. The institute has well-equipped infrastructure facilities, including classrooms, laboratories, central computing facilities, seminar halls, workshop, library, auditorium, playground, gymnasium etc.

The library has adequate books, magazines and journals and is equipped with a reading hall with a seating capacity of 150 students. The library has total 30000+ books (12421 titles) that include 1434 reference books and 4321 books for book-bank facility.

Well-equipped laboratories foster the practical knowledge of the students. To ensure safety of employees and students, all safety norms laid down for educational institutes are fulfilled, and their timely audit is carried out. In addition, the institute provides several other facilities that effectively enable teaching and learning. These include online journal subscriptions, full individual access to email and Google office suite, Turnitin plagiarism software, Zoom and other software subscriptions. The technical softwares include solid works, MATLAB, ETAP, mentor graphics, MSDN ANLG Licsapk olve and NX academic bundle.

Cultural activities of the institute are conducted in our well-maintained, spotlessly clean auditorium. Entertainment and co-curricular activities go hand in hand. The Ga-Di-Ma Sabhagriha, with a seating capacity of 2500, is fitted with all the modern gadgets, including a 35 mm projector to screen movies. The hall is a hub of cultural activities and competitions in the co-curricular field.

A full-fledged central sports campus is developed on 20 Acres sports complex of Vidya Pratishthan. Olympic size running track, cricket and football ground, badminton courts and other games facilities are available with the coach. Full-fledged gymnasia for boys and girls are available for indoor games with all the facilities. The engineering college has its own playground where Volleyball, Basketball, Kho-Kho and Kabaddi grounds are available. Table tennis tables are provided in each hostel. The institute provides adequate sports facilities and equipments to the students.

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

4.1.2 Percentage of expenditure, excluding salary for infrastructure augmentation during last five years (INR in Lakhs)

Response: 18.8

4.1.2.1 Expenditure for infrastructure augmentation, excluding salary during the last five years (INR in lakhs)

2021-22	2020-21	2019-20	2018-19	2017-18
97.99	27.09	2.99	57.98	47.37

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

4.2 Library as a Learning Resource

4.2.1 Library is automated using Integrated Library Management System (ILMS), subscription to e-resources, amount spent on purchase of books, journals and per day usage of library

Response:

The institute has a well-equipped library with all the required facilities. Our collection is dynamic and includes print, digital and online reading material. The library operation is fully automated. The open-access system in the library enables the students to choose and select the books they need to study. Due to quick service provided, the students require significantly less time to issue and return books. The library collection is frequently updated as per the AICTE guidelines that include printed books, printed journals, digital collections, newspapers, online journals and institutional membership.

Computerization is used for searching, indexing, and issuing/returning records. Library operation has been automated using library automation software SLIM 21. All the books are bar- coded and the circulation of books has been computerized. Library users have smart library cum College Identity cards. The Web OPAC is available for searching the books of library to users. Library users can search, renew and reserve books online without visiting the library. The library is accessible all over campus. The drop box is fixed at the circulation counter to return the books in the off-time of the library. In addition, all the facilities provided by the library are accessible through the institute website.

We have a subscription of the following e-resources: a) e – journals [IEEE ASPP online Tire -3, Springer Nature -1, ASCE], b) e-books c) e-ShodhSindhu d) Shodhganga

The journals can be accessed from any PC in the institute. A digital library has 15 computers. The students can surf the Internet, attend online MOOC courses and access all the journals from this digital library. Per day usage of the library is around 50.

Amount spent on the purchase of books and journals in the last five academic years is as follows: AY 2017-18: 12L, AY 2018-19: 18.07L, AY 2019-20: 12.51L, AY 2021-21: 12.75L, 2021-22: 12.60L.

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

4.3 IT Infrastructure

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

Response:

In order to provide an effective teaching-learning and administrative platform the institute frequently upgrades the IT facilities which include computers, printers, bandwidth for internet connection, Wi-Fi facilities as well as subscription to various software services.

Institute has provided Wi Fi facility in each Dept. Classrooms. A high speed internet connection is provide through 500Mbps leased line which has been upgraded in recent years as follows: Year 2017 = 120 Mbps, Year 2019 = 155 Mbps, Year 2020 = 500 Mbps, Year 2021 = 500 Mbps, Year 2022 = 500Mbps.

- The institute has frequently upgraded the computing facilities. This includes upgradation of RAM capacity of 63 machines (up gradation from 1 to 3 GB, 2 to 4 GB, 4 GB to 8 GB and 8 to 12 GB).
- 100 new PCs (with i5 processor, SSD, 16 GB RAM) purchased in AY 2021
- 225 new PCs (with i5 processor, SSD, 16 GB RAM) purchased in AY 2021
- 02 New computer laboratories established in AIDS department.
- Upgradation of storage capacity by adding SSDs in 80 machines.
- Upgradation/addition of 15 Wi-Fi access points.
- The internet firewall is upgraded to Sophos XG model (For secure internet connectivity, the firewall is upgraded to Sophos XG firewall with advanced features).
- Purchase of anti-plagiarism software (Turnitin)
- Annual subscription to MATLAB campus-wide license with all toolboxes. The students can install MatLab on their laptops and access it online as well.
- The Student:Computer ratio for latest completed academic year, AY 2021-22 is 3.90:1 (STUDENT (2014): COMPUTER (516)) Also, in AY 2022-23, (270 including 45 BFL PCs) new systems are purchased.
- Large number of licensed and open source technical design software for practical and research use.
- Annual subscription to Microsoft campus license providing Desktop and server operating systems.
- Microsoft Office 365 Licenses for students and faculty
- Annual subscription to Zoom Video Conferencing Software (with 19 licenses having 300 capacity and 1 license having 1000 capacity)

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

Response: 3.9

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

Response: 516

File Description	Document
Upload supporting document	View Document

4.4 Maintenance of Campus Infrastructure

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

Response: 17.36

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

2021-22	2020-21	2019-20	2018-19	2017-18
39.32	49.02	36.51	39.67	51.01

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	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 Government and Non-Government agencies during last five years

Response: 83.63

5.1.1.1 Number of students benefited by scholarships and freeships provided by the Government and Non-Government agencies year wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
1585	1687	1885	1898	887

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Institutional data in the prescribed format

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5.1.2 Capacity building and skills enhancement initiatives taken by the institution include the following

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

Upload supporting document

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Institutional data in the prescribed format

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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: 22.74

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

2021-22	2020-21	2019-20	2018-19	2017-18
901	1197	0	0	62

File Description	Document
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Institutional data in the prescribed format	View Document

5.1.4 The Institution has a transparent mechanism for timely redressal of student grievances including sexual harassment and ragging cases

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

Response: A. All of the above

File Description	Document
Upload supporting document	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: 52.65

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

2021-22	2020-21	2019-20	2018-19	2017-18
262	282	269	244	154

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

2021-22	2020-21	2019-20	2018-19	2017-18
435	453	509	455	448

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

5.2.2 Percentage of students qualifying in state/national/ international level examinations during the last five years (eg: JAM/CLAT/GATE/ GMAT/ CAT/ GRE/ TOEFL/ Civil Services/State government examinations)

Response: 2.84

5.2.2.1 Number of students qualifying in state/ national/ international level examinations (eg: JAM/CLAT/NET/ SLET/ GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/ Judicial Services/Public Prosecution services/All India Bar Exams/State government examinations) year wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
5	11	11	05	4

5.2.2.2 Number of students appearing in state/ national/ international level examinations (eg: JAM/CLAT/NET/ SLET/ GATE/ GMAT/CAT,GRE/ TOFEL/ Civil Services/ State government examinations) year wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
339	331	264	329	4

File Description	Document
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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: 17

5.3.1.1 Number of awards/medals for outstanding performance in sports/cultural activities at

national/international level (award for a team event should be counted as one) year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
4	2	4	1	6

File Description	Document
Upload supporting document	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: 6.2

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

2021-22	2020-21	2019-20	2018-19	2017-18
6	1	6	12	6

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:

We at VPKBIET have a well-established VPKBIET Alumni association since 2017 (Registration no. 33055 dated 6th April 2017 under registration act 1860, 21 with Assistant Registrar of Society, Pune region, Pune). There are a total 6340 alumni of the institute as of now.

Objectives of the association are: 1. To maintain database of past students 2. To arrange Annual General Meeting every year 3. To arrange periodical governing body meeting as and when necessary 4. To arrange

felicitation of alumni conducting activities for the institute in AGM 5. To arrange technical seminars and lectures of alumni to use their expertise and skills for betterment of institute students and development of the institute.

Scope of Alumni Association is to establish an excellent Alumni network and to have collaborative work with Alumni for overall development of students of the institute, faculties and staff of the institute. The institute conducts Annual General Meeting every year. The alumni students visit the institute frequently and carry out activities for the students like guidance in projects, guest lectures, career guidance and scholarship for deserving and needy students, etc. The association takes efforts to establish a bond between the institute and alumni so that alumni will participate in the activities of college and use their expertise and skills for betterment of present students.

We have a close connect with our alumni and to bridge between the career life and college life till now we had conducted 54 online meetings (department wise) as well as few offline meetings (institute level) with alumni of all the departments for the benefits of the students, staff, faculties, department and Institute, and this interaction will continue in future too. We have received valuable inputs/suggestions through alumni in all these years to undertake the challenges of competitive professional world.

Every year institute organizes Alumni Meet in which feedback is collected and is gone through with a view to enhance the various aspects. Alumni feedback has been used to review and revise the learning outcomes.

Our alumni are working in good posts at reputed companies, Alumni meet brings current and former students together. Alumni share their personnel and professional experiences/ lessons of their successful career. Students get broad and diverse network connections which leads to job or career opportunities. Motivation and support from the alumni helps the students to do better in career life.

Employer who are thoroughly satisfied with the performance of our alumni in their workplaces, have been visiting our campus for hiring students every year. This is in a way an endorsement to our enrichment programs.

Few of the recognized alumni activities are conduction of guest lectures, expert talks, career guidance, seminars and project competition for students, over to this internship facility and sponsorship for student's projects in concerned fields. Connecting students with advanced technologies, benefitting them for skill development and industrial visits were the major concern of the alumni activities. Further to develop possible consultancy works, MOUs, patents and establishing innovative centers and start-ups or possible industrial supported laboratories.

File Description	Document
Upload Additional information	View Document
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Criterion 6 - Governance, Leadership and Management

6.1 Institutional Vision and Leadership

6.1.1 The governance and leadership is in accordance with vision and mission of the institution and it is visible in various institutional practices such as decentralization and participation in the institutional governance

Response:

Vision and Mission of Institute

Vision:

To achieve academic excellence through persistent and synergic collaborations amongst all stakeholders

Mission:

? To ensure holistic development of students as lifelong learners and problem solvers through value-based quality education.

? To motivate faculty to attain the state-of-the-art knowledge and wisdom in their domain and be a facilitator towards cocreation of knowledge.

? To frame and deploy conducive and empowering policies for multifaceted growth of students, faculty and staff to make them contributors towards excellence.

? To partner with industry for mutually beneficial relations to generate employable and deployable workforce.

? To fulfill the aspirations of alumni, parents, society, region and nation at large by generating technically competent and contributing manpower.

Institutional practices

The Institute has set up a detailed central mechanism for Governance in 10 major activities that include Administration, Academic, R &D, co-curricular, Extracurricular, Entrepreneurship, IQAC, T&P, IIC, Finance, Admission, Media cell, and Alumni. Each activity is headed by senior faculty typically a Doctorate and is designated as Dean/Head. Each academic department is headed by senior faculty. Each department has a representation in central activities through their departmental coordinators. These central committees are supported by nonteaching staff. Thus, almost all faculty and several staff members are involved in the central activities of the institute. The coordination of various activities is done by students. These activities include cultural sports, technical. NSS, IIC.

- The institute always promotes a culture of decentralization and participative management.
- It has continuous practice to involve all the stakeholders such as parent, students, faculty and staff in various administrative bodies for decision making process. The team involves Principal, Vice-principal, IQAC Committee, Deans, HoDs, Institute and Department level coordinators, Teaching-staff, non-teaching and supporting staff, student representatives, other stakeholders, alumni in various administrative bodies for the decision-making process.
- The principal monitors the administration and academic process.
- The various committees are involved to support vision and mission of the institute such as

examination cell, anti-ragging committee, NSS and library.

- Regular meetings are held in all Departments where internal issues within the Departments are discussed and resolved. Staff meetings are held to discuss issues with Head of Department and the Head of Institute.
- At the beginning of the semester subjects are allotted by taking choices from faculty followed by its finalization by HoD. If any faculty has any issue related to allotted subject, it is discussed in meeting and alternative arrangement is made.
- Faculty feedback is taken and analyzed twice in each semester. Faculty having better feedback are given appreciation letter and other are given corrective measures for their improvement.
- The Deans are empowered at the Institute level and respective coordinators at Department levels for maintaining quality issues in teaching, learning, research and administrative process.
- The Institute promotes leadership among the students through student council, class representatives, departmental library committees, hostels representatives, student technical associations and extracurricular activities.

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 functioning of the institutional bodies is effective and efficient as visible from policies, administrative setup, appointment and service rules, procedures, deployment of institutional Strategic/ perspective/development plan etc

Response:

The managerial and administrative bodies of the Institute strive to establish effective and efficient mechanism/procedures for overall growth of the students and the institute by following all the norms and regulations of various governing/affiliating/recognition bodies like AICTE, DTE (Government of Maharashtra), UGC, University, Fees Regulation Authority (Government of Maharashtra), and many more. Continuous efforts are taken to ensure the infrastructural, human resource, technical and support facilities are made available as per the requirements and guidelines. The institute follows service rules of Government of Maharashtra and the University for faculty and staff. The recruitments of faculty are done by following the AICTE, UGC and University guidelines and rules. Every aspect of students, employees and employee growth and prosperity is considered while preparing short-term and long-term plans. Additional details about various activities is given below.

Women/Student/Faculty Grievance

To make women, students, faculty and staff members aware about their rights.

Financial Planning and Management

- Department-wise Budgeting
- Effective purchasing through the purchase committee

Admission of Students

- The institute has followed the admission process for students as per rules and regulations of SPPU, DTE and Government of Maharashtra State.
- Direct Second Year (DSE) seats are filled on the basis of final year diploma score and as per the norms and directives given by SPPU, DTE and Government of Maharashtra State

Human Resource Management

- Institute encourages the faculty to organise as well as attend various FDP, conferences, workshops etc.
- Employees are entitled to benefits like Provident Fund, Gratuity and Group Insurance, Casual, Earned, Medical, Special leaves and Vacation. Service Book is maintained for every staff.
- Faculty retention is ensured through conducive work environment such as support for higher studies, increments / promotions and encouragement for research publications.

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

6.2.2 Implementation of e-governance in areas of operation

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

Response: A. All of the above

File Description	Document
Upload supporting document	View Document

6.3 Faculty Empowerment Strategies

6.3.1 The institution has effective welfare measures and Performance Appraisal System for teaching and non-teaching staff

Response:

Academic Facilities

- Effective welfare measures for teaching staff are implemented through medical leave, PF, duty leave, maternity leaves to female staff for six months, study leave for PhD, support to attend FDP such as Orientation programs and, short term courses, encouragement and support for pursuing higher studies (PhD) for the career development and progression of the teaching as well as non-teaching staff, etc.
- Dean, HoD and faculty members are provided the necessary facilities to facilitate good ambience.
- A good performance management system works towards the improvement of the overall organizational performance of teams and individuals for ensuring the achievements of the overall organizational mission and vision.
- The Institute strictly follows the AICTE Regulations on Minimum Qualifications for Appointment of faculty and other staff in the college.
- The performance of each employee is assessed annually after completion of one year of service to identify potential aspects for improvement that can eventually lead to further progress and growth of the employee.
- At the end of each semester, feedback is taken from the students for each course.
- A team consisting of the Head of the Department and Senior Professor in the Department goes through the feedback forms collected from the students and suggest suitable measures to improve the teaching-learning process.

Support Facilities

- As per the provisions of provident fund act, the Institute contributes to Provident Fund. Staff quarters are available for Institute employees at affordable cost.
- Biometric attendance system is implemented. Wi-Fi facility is available to staff and students inside the college campus. Grievance Redressal Cell is available to address the issues and grievances of the staff.
- Indoor games facility is available for the staff to relax and to refresh physically and mentally.
- Grand dinner is provided for all the staff and students on the eve of cultural event.
- Security service is being provided in campus. Centralized canteen facility is provided for Teaching and Non-Teaching staff. Parking facility is provided inside as well as outside the campus.

File Description	Document
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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: 5.91

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

2021-22	2020-21	2019-20	2018-19	2017-18
8	3	9	8	6

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

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

Response: 21.92

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

2021-22	2020-21	2019-20	2018-19	2017-18
54	64	20	6	0

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

2021-22	2020-21	2019-20	2018-19	2017-18
61	0	0	21	0

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	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 primary source of income is student fees, part of which is received in the form of students' scholarship. Every effort is made to ensure that these financial resources are utilized diligently. The Institute and departmental budget are prepared by considering the funds availability, department/activity requirements and the Institute plan. The various head of the expenditure include the employee salaries, infrastructure development, laboratory equipment and instruments, library, co and extra-curricular activities, R&D computing facilities and software facilities, administrative expenses, consumables, etc. The budget is approved by the management.

- The Institute has established a mechanism for conducting internal and external audits of the financial transactions every year to ensure financial compliance.
- Internal audit is conducted half yearly by the internal financial committee which thoroughly verifies the income and expenditure details.
- The expenses are be monitored by the Accounts Department as per the budget approved by the management.
- The daily routine transaction is verified by the Accounts Officer. The expenses incurred under the different heads are thoroughly checked by verifying the bills and vouchers. The external audit are done by Chartered Accountant to make sure that the funds are utilized properly.
- Fee structure is finalized by the Fee Regulation Authority (FRA) of Government of Maharashtra by verifying the expenditure and audit statements.
- The HoDs, Deans and activity coordinators ensure proper allocation and utilization of the Institute resources.

File Description	Document
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Provide Link for 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:

The IQAC continuously reviews and takes steps to improve the quality of the teaching-learning process. AQAR is displayed on Institute website and circulated among all the stakeholders in the Institute and strictly followed.

Academic review through periodical meetings:

- Feedback from students is taken individually by faculty for their respective courses. Also, feedback

is taken from other stakeholders related to facilities and curriculum development.

- Feedback is properly analyzed and shared with the Principal, Deans Academics, HoDs and individual faculty members. IQAC always encourage teachers to utilize ICT tools Virtual laboratories, Google classrooms, etc.

IQAC has been engaged actively in the following activities.

- Collaboration with other organizations/ industries, and funding agencies Training to teaching and non-teaching staff for quality enhancement.
- Preparation of Self-Study/Assessment Reports of various accrediting bodies (or Institution Ranking) such as NAAC, NIRF, NBA, etc.
- Introduction of new programs/courses and augmenting required facilities.
- Preparation and submission of Annual Quality Assurance Report (AQAR) etc
- Setting targets for result, FDP's, R&D and publications.
- Encouraged departments to organize in-house technical hands-on workshops, conferences, FDP's and expert talks for students in collaboration with industries.
- Encourage faculty to attend different Faculty Development Programs, seminars, workshops, Quality improvement programs, and orientation workshops about teaching methodologies after curriculum revision.
- To collaborate with different professional societies and Industries for technical/professional development of students.
- The Institution has signed MOUs with different technical Industries, food industry, construction industry, etc.

File Description	Document
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6.5.2 Quality assurance initiatives of the institution include:

- 1.Regular meeting of Internal Quality Assurance Cell (IQAC); Feedback collected, analysed and used for improvements**
- 2.Collaborative quality initiatives with other institution(s)/ membership of international networks**
- 3.Participation in NIRF**
- 4.any other quality audit/accreditation recognized by state, national or international agencies such as NAAC, NBA, ISO Certification etc**

Response: A. All of the above

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

Criterion 7 - Institutional Values and Best Practices

7.1 Institutional Values and Social Responsibilities

7.1.1 Measures initiated by the Institution for the promotion of gender equity and Institutional initiatives to celebrate / organize national and international commemorative days, events and festivals during the last five years

Response:

VBKBIET has a strong ethical work culture that is based on equity. The institute follows the ethical practices in all its actions. Equal prospects are delivered to all stakeholders irrespective of gender. Its exclusive work culture, healthy traditions and ethos have led to enrolment of the employees as per the AICTE guidelines. Security and comfort accompanied by gender equity are the matters of chief concern to VPKBIET. Gender sensitivity is of an intrinsic significance in the educational philosophy of the Institute and its outreach activities, as is evident by the facilities like security and safety, mentoring, Girls common room with required facilities, Girls hostel facilities with vigilant Women Warden and supporting staff are provided in the campus.

Anti-Ragging measures are strictly implemented and college has constituted a Women Cell and Anti-ragging cell to create awareness among students to assert their rights and to educate them about women empowerment. The campus of our Institute is ragging free.

We conduct orientation programs for the newly admitted students for various courses and gender sensitization was one of the agendas to be included in the program

Outreach activities, Guest lectures and Awareness campaigns on women safety are organized through NSS to address issues related to health, stress or gender sensitization.

The Institute has a complaint box to take necessary measures to maintain cleanliness in the campus including the washrooms.

The discipline committee of the Institute looks after the disciplinary matters, especially protecting the girl students from all kinds of harassment and ensuring their privacy.

In various committees at Department and Institute level the girl students are nominated as members and we encourage their participation in co-curricular and extra-curricular activities. The institute celebrates Women's Day and highlights the significance of Women empowerment.

The institute has a policy of appreciating faculty without gender bias. Faculty and staff are nominated for various posts based on their ability and qualification.

The Institute has Internal Complaints Committee (ICC) for students and staff to address their issues. This committee mainly works for resolving various issues and problems raised by female students as well as staff.

The Institute is committed to educate and follow the idea of gender sensitization among the students as their prime duty and to be a part of constitutional obligation.

We have a Student Development Officer (SDO) who looks after the implementation of various welfare schemes and activities for the students. We have Earn and Learn Scheme which is one of the effective schemes of the Board of student's welfare. It allows students to work in the college premises after their academic schedules are over. It has supported many students from the socio-economically backward classes. Despite economic problems, the participant students of the scheme have been taking education without any hindrance.

File Description	Document
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Provide Link for 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
Upload supporting document	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
Upload supporting document	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:

Students must carry identity card and produce it to the authorities on demand. Students must follow college dress code during regular college hours, placement drives and examinations. Students must follow ethical code of conduct and project their image like dignified, respectable citizens of the Country. Students should attend all classes regularly and participate fully in all learning and assessment activities. They must observe self-imposed discipline in studies as well as other activities related to their stay in the College / Hostel. Submission should be done regularly and it is part of continuous evaluation leading to their term work marks. Students should ensure minimum 75% attendances for appearing the examination. Students should read the notices/circulars regularly so as to get timely updates.

Followings are the various aspects of the code of conduct for faculty

Working cooperatively and collaboratively with others to achieve the goals of the Institute and system. They should Develop and maintain constructive professional relationships with industries, parents and students and Accept responsibility for their own professional learning and development. They should engage in reflective practices and develop their professional knowledge and teaching skills and act in a manner which promotes confidence in the integrity of the public service and the profession.

The administrative professional: professionals have act as a trusted agent in professional relations, implementing responsibilities in the most competent manner. They have to familiarize themselves and others with the Institute policies which are relevant to their responsibilities and adhere to the institutional policies to the best of their ability. The have to maintain an unbiased and consistent professional tone in all their interactions with colleagues and stakeholders.

Students of VPKBIET, along with academics are actively engaged in various cultural events celebrated periodically inside and outside of the institute. VPKBIET encourages participation of students in inter College Youth Festival organized by SPPU, Pune and in other popular competitions such as Purushottam Karandak, Firodiya Karandak and Sujit Karandak.

Our student Mr. Om Sawale-patil participated in Ironman Triathlon Series which was held in Kazakhstan and secured the 2nd Podium Rank.

Furthermore, Nabhangan is an annual Cultural Event of VPKBIET. This year it was organized during 23rd-25th of April 2022. It is a cultural event where students showcase their creativity and talents through different activities like singing, acting, dance, etc. Nabhangan is designed and planned every year so that every student of our institute must get an opportunity to participate in various programs. Many cultural Events such as Dindi, Traditional Days are one of its kinds that encourage every students of every class to participate and explore creative potentials.

We organize Kurukshetra-Annual Sports Event every year. Kurukshetra is a platform where competitions are arranged so that maximum students of VPKBIET get a chance to participate and exhibit their skills.

NSS unit of the institute organizes a residential camp in rural areas. Students perform street plays to make citizens aware of social issues like women empowerment and gender equity etc. The Institute organizes various activities like tree plantation and campus cleaning

File Description	Document
Upload Additional information	View Document
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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:

Institutional Best Practices

Best Practice: 1

1. Title of the practice: MOOC Online Certification Courses: A move to enhance the technical strength of students.

2. Objectives of the practice:

- To inculcate ability of self-learning among students.
- To impart sound technical knowledge into principal stakeholders of Institute i.e. students and faculty
- To groom students with innovative trends in the field of Engineering.
- To help students in preparing competitive examinations like GATE, etc.

3. The Context

Engineering students face challenge of proving their technical competencies. As the competition for job is becoming more intense, students have to gain technical expertise in specific areas. The industry expects ready to use resources. They expect students from Institute who can start project assignments without undergoing any training. To bridge the gap between the industry demands and university curriculum, The Institute should invest time in students to make them technically compatible and employable. In MOOC courses, quality lectures by recognized speakers and Institutes help students to make basic fundamentals of domain area crystal clear.

4. The Practice

The Institute encourages a large number of platforms for online learning(MOOC courses) that include NPTEL, SWAYAM, COURSERA, edx, NASSCOM future skills Prime, Udemy, IBM Edunet, Matlab onramp, IIT Spoken Tutorials.

A detailed analysis of course contents and students requirements for to attain required outcome technical job skill, technical knowledge, Communication Skills, R&D, Entrepreneurship is performed and a group of courses are identified for students, specific to their department and class.

The students are encouraged to complete these courses and necessary support is provided to complete these courses.

The students are made aware about the importance of these MOOC courses and the benefits of completing and acquiring certificates. A large number of students usually appear for these courses. The courses from reputed institutes and companies are included.

5. Evidence of Success

Hundreds of candidates including students and faculty have enrolled for different courses. Candidates solve assignments and quiz independently referring video lectures indicates improved pace of self-learning. Students gained confidence in facing technical interviews. Thus, this activity has resulted in substantial increase in placement of the students.

Following are the some Prominent Achievements

- 1315 Students placed in various multinational companies in last 4 years
- NPTEL Local Chapter secured 2nd Rank in Maharashtra and 56th Rank in India with 89 Toppers and Gold Certificates in NPTEL Examinations and 3 times in Top 100 Rank in India
- Faculty and students published more than 541 papers and 17 books
- 754 internships completed by students in various fields in last two years
- 10th position in 'Red Hat-IT Aptitude Test India 2021' -Ms. Pooja Chavan
- Two teams of students got selected for SIH-2022 Final Round
- 21 patents have been filed and published by faculty and students and they have also registered for their start-ups

6. Problems Encountered and Resources Required

In order to reserve time for this activity in busy schedule, students and faculty have to take extra efforts.

Best Practice: 2

1. Title of the practice: Skill Development Program

2. Objective of the practice:

All the Departments are striving for excellence in skill-based leaning. To serve this purpose, various Departments incorporated the use of such a learning platform to the Students.

Skill Development Program has predetermined objectives as listed below:

- To provide an effective learning platform to Student.
- To sharpen a set of skills of the students.
- To inculcate professional values as required in employment and corporate world.
- To develop creativity/ ability amongst the students to think out of the box and organize that thinking to create something useful

- To involve the students into an extracurricular activity with exclusive tool
- To explore the conservational thoughts and activities which are beyond the core curriculum

3. The context:

The Skill Development Program introduced by the Institute was an attempt to provide a learning platform to the Students. We have a Center of Excellence on emerging area and technology. With an excellent initiative from the faculty and good response from the students, the institute has started more than 75 centers in diverse areas from Artificial Intelligence and Data Science to Mathematics, English and Ethical Values.

This was an overall development program exclusively developed for the students in order to develop a technical and communication skills as required for their employability as well as entrepreneurial abilities. The program covers lectures, seminars and training mainly focusing on the Soft Skills, Technical Skills, Scientific Point of View, Communication Skills, Readings Skill, etc.

4. The practice:

These centers primarily focus the thrust areas viz. AI & ML (Artificial Intelligence and Machine Learning), DS (Data Science), Cloud Technologies, IoT (Internet of Things), Robotics & Automation, Agricultural Technologies, Cyber Security, Mobile and Web Development, Woman Empowerment, and even on the R&D related activities through MATLAB & Simulink. Various programs like Internships, hands-on-trainings, expert sessions, skill development programs, project competitions etc. are organized to encourage and skill developments of the students and faculty with in-house financial support. The students are encouraged to participate in various project competitions and Hackathons.

A large number of regular courses have been started as a result of the establishment of these centers in the institute. These include the

- UG and PG courses in AI & DS
- PG and B.Voc. course in Robotics and Automation
- B.Voc. courses in Cloud Computing.
- Five Honor/Minor Degree Courses in AI & ML, Data Science, IoT, Cybersecurity and Robotics and Automation.

5. Evidence of success

These centers have been successful so far in terms of the activities conducted and the achievements. In a recent Hackathon conducted by NASSCOM (in collaboration with Analyttica) 1137 students participated in the prerequisite course and 903 students qualified for the Hackathon. Two of our students were in top 20 ranks in India (second and second prize in Maharashtra state and NASSCOM has identified our institute as the best performing institute in India and invited the Principal for the award ceremony). Students participate in various technical events.

6. Problems encountered and resources required:

- Interest and involvement of faculty and students
- Motivating students to be the part of this enchanting and appealing journey.

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

VPKBIET, Baramati is located in the vicinity of rural areas and it strives to improve the socio-economic condition of the region. Looking towards these aspects, the institute has built societal connect through various societal activities.

VPKBIET has student-centered institutional development as a motto. We are committed to pursue academic excellence to develop a student with comprehensive technical knowledge and integrated personality. We prepare students to think globally, act locally, involve individually and systemize institutionally to meet emerging industrial and social needs. The excellent infrastructure, friendly, clean and green environment, well-equipped modern laboratories and dedicated faculty and staff have also helped to achieve these results. Our system is clean and transparent for any student to judge his own performance and be satisfied.

In this era of globalization of education, our obvious focus is on providing quality education. We firmly believe that if a student is given an opportunity and guided properly, he or she will develop the competencies required to face the challenges in the outside world. We strive continuously for academic excellence and continual improvement to ensure students' holistic development.

VPKBIET has a tradition of imparting knowledge through multifaceted learning processes. Our motivated faculty brings with them a wide experience that they have gained from the reputed institutes to empower students. Eminent experts from IITs, premier institutes and industry are also invited to deliver knowledge sessions and conduct workshops. Learning through online forums such as SWAYAM, NPTEL, Coursera, edx, udemy, NASSCOM, and IIRS / ISRO etc. are the integral part of VPKBIET study culture. Faculties started YouTube channels for their courses

VPKBIET has become the part of Indian Research Information Network System, an initiative of the Ministry of Education. The research contribution and its analysis of VPKBIET faculties is available on this website <https://vpkbiet.irins.org/>

VPKBIET, Baramati Provides Open Access to MATLAB and Simulink to Prepare Students in Rural Areas for Careers in Industry. Because the institute is in a tier 2 city in India, most of its students come from rural or low-income backgrounds. To ensure that these students developed the skills they would need, VPKBIET acquired a Campus-Wide License for MATLAB and Simulink. The interactive online training

courses available with the Campus-Wide License motivate our students to learn MATLAB and Simulink increase their confidence, and enhance their skills. Because of excellent use of MATLAB the MathWorks has published a user case story on its website. https://www.mathworks.com/company/user_stories/vpkbiet-baramati-provides-open-access-to-matlab-and-simulink-to-prepare-students-in-rural-areas-for-careers-in-industry.html

Student and faculties publish patents with the support of Institute.

In order to increase employability of students, we are training them to improve their soft skills, communication skills, group discussion, team leadership and work ethics.

We encourage students to get involved in innovative, product development, start-ups and entrepreneurship activities. Co-curricular and extracurricular activities are always emphasized to ensure holistic development of students.

We conduct the Induction Program for the admitted students in First Year. The activities conducted during the program included: Physical Activity, Meditation Technique, Yoga, Creative Arts, Universal Human Values, Literary, Proficiency Modules, Lectures by Eminent People, Sessions on Communication Skills, Visits to Local Area, Familiarization to Dept./Branch, HoD presentations, Awareness sessions about online platforms and Road Safety. This program helped students to adjust to the new environment of the Institute.

The faculty of General Science and Engineering conducted Engineering E-Olympiad Examinations for junior college (XI and XII class) students. This activity was organized under ISTE and the Centre of Excellences of General Science and Engineering Department.

VPKBIET is institute with ISTE membership and has ISTE Student and Faculty Chapters. We have our 808 student members and about 85 faculties as life members. Various technical events are organized by VPKBIET and our 600 students are participated in SRMC Ramanajun Mathematical Competitions and our 17 students received various prizes including national level recognition. Under the ISTE we organized various technical events and gave prizes to students.

The open access system in Library enables the student to choose and then select the books he or she needs for studies. The student does not require to spend more time for issuing and returning the books. We provide accommodation to 80% of our students. A set of three books as per the availability from book bank scheme is issued to students for one semester on first come first serve basis. We have a Reading Hall with the capacity of 200 students which is open for students during 7.00 am to 12.00 midnight regularly. Our efforts to put the students and VPKBIET on Global map will continue with more vigor and enthusiasm this year as well.

VPKBIET works diligently to realize its mission of facilitating students to become problem solvers and respectable professionals. Hence, priority is given to all-round development of budding engineers in order to achieve academic excellence through continual skill enhancement of students and faculty and this becomes most important thrust area for us.

The Institute does Structural Audit of buildings, Bridges of Nagar-Parishad as per the requirement and helps the government in ensuring the safety of peoples. The Institute does Third Party audits of various projects of the Nagar-Parishad and also provides a material testing facility for testing materials under Zilla Parishad (ZP), Public Works Department (PWD) projects.

Thus VPKBIET facilitate holistic development of students with focus on academic and professional development through wide range of MOOC courses which has reflected in students achievements.

File Description	Document
Appropriate web in the Institutional website	View Document

5. CONCLUSION

Additional Information :

Vidya Pratishthan is duly realizing the absolute necessity of providing class education in diverse field like Arts, Commerce, Science, Architecture, and Engineering to the kith and kin of farmers, laborers, and villagers. It was backed by the illustrious visionary with experienced guidance of the members of the Management Committee. The Vidya Pratishthan ushered in an era of imparting general as well as technical education through the Institutions, which are guided by illustrious personalities like Dr. Raghunath Mashelkar and Dr. Anil Kakodkar. Vidya Pratishthan is celebrating golden jubilee year.

Vidya Pratishthan is in the process of establishing center of excellence supported by Bharat Forge in our institute. The center has provision of 2.5 Cr. for state-of-the-art advanced laboratories incubation center and students projects in the area of Data Science, Computer Vision, IoT, VLSI, E- Vehicles. Vidya Pratishthan has started the development of Center of excellence in Artificial Intelligence with proposed building cost of 36 Cr. in four acres. VPKBIET has also initiated another center of excellence for Digital manufacturing and Automation worth INR 2 Cr. with focus on Industry 4.0, CNC, VMC, IoT, 3D printing and automation.

Institute conducts Post Graduate Diploma in Enterprise Resource Planning in association with College of Engineering Pune Technological University. The Institute motivates and supports faculties for higher education and research. Faculties and students participate actively in every research activity exploring innovation and intellectual property generation. Twelve faculties were awarded summer faculty research fellowships from reputed organizations like IIT Delhi, IIT Guwahati, IISc Bangalore, IDRBT Hyderabad. Institute supported faculties to present their papers abroad in countries like USA, UK, Brazil, Japan, Singapore, and Srilanka etc.

Concluding Remarks :

With the vision of achieving academic excellence VPKBIET is exploring all state of the art methodologies to impart academic knowledge to students as per directions of National Education Policy. MOOCs has been utilized to fullest extend which has been reflected by NPTEL ranking and MATLAB user story published. Virtual labs, Industry resource, Innovation and research has been well integrated with academics to provide enriched academic experience to student with quality assurance. The evaluation tools like examinations and assignments have been utilized to judge student's performance as per blooms taxonomy. Strong students nurtured to achieve higher goals whereas weak students are supported by multiple educational resources and mentoring.

A dedicated cell for cocurricular activities is formed to prepare students in emerging technologies to various competitions. Professional societies lead by students conducting co-curricular activities to develop skills and knowledge of students. Extracurricular activities have been given prime importance as it develops life skills to students.

Institute has highly qualified faculty who are driving the research. Though Institute lacks in huge research funding through government organizations, Institute has started to receive CSR funds. We received funding through Bharat forge for incubation and students project. This supports VPKBIET to achieve higher goals in publications and patents in coming years.

VPKBIET has excellent physical and computing infrastructure. The library is rich with books, journals, e-resources, book banks and open access facilities which contributes to study culture among students. Inhouse trainings, expert sessions, utilization on MOOCS and strong training and placement department.

Most if the students are from rural background so students are given best possible financial supports through government and private scholarships.

Campus itself is a big icon for cleanliness and greenery and green energy. These are Institutional values which are inducted in students learning in this campus. Professional ethics are taught to students through use of licensed Softwares, plagiarism software etc. Human values are taught to students through various expert sessions.

With the green ecosystem, academic zeal, quality training and placement support, cocurricular activities enriching learning experience and amazing extracurricular activities.